

Interchangeable Lens Digital Camera
ILCE-9 α9



Use this manual if you encounter any problems, or have any questions about your product.
This Help Guide is also available as a PDF, which can be downloaded [here](#).



[How to transfer images to smartphone](#)

You can transfer images shot with this camera to smartphone.



[How to tag the location information on the images](#)

You can record the location information on the images. The location information can be acquired via a smartphone.



[ILCE-9 Lens compatibility information](#)

This website provides the lens compatibility information. (Another window will open.)

[Names of parts/Icons and indicators](#)

[Names of parts](#)

- Front side >
- Rear side >
- Top side/Side view >
- Bottom >

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- Using the control wheel >
- Using the multi-selector >
- Using MENU items >
- Using the Fn (Function) button >
- How to use the Quick Navi screen >
- How to use the keyboard >

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- Switching the screen display (while shooting/during playback) >
- DISP Button (Monitor/Finder) >

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- Inserting/removing the battery pack >
- Charging the battery pack while it is inserted in the camera >
- Charging by connecting to a computer >
- Battery life and number of recordable images >
- Supplying power from a wall outlet (wall socket) >
- Notes on the battery pack >
- Notes on charging the battery pack >

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- └ LA-EA1/LA-EA3 Mount Adaptor >
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In-Camera Guide

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Shooting still images

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- └ Focus Mode >

Auto focus

- └ Focus Area >
- └ Phase detection AF >
- └ Focus Standard >
- └ Focus Settings >
- └ Adjusting the focus area settings to the camera's orientation (horizontal/vertical) (Sw. V/H AF Area) >
- └ AF/MF control >
- └ AF w/ shutter (still image) >
- └ AF On >
- └ Eye AF >
- └ AF in Focus Mag. (still image) >
- └ Center Lock-on AF >
- └ Registering the current focus area (AF Area Regist.) >

- Deleting a registered AF Area (Del. Reg. AF Area) >

- Pre-AF (still image) >

- Eye-Start AF (still image) >

- AF Track Sens (still image) >

- Priority Set in AF-S >

- Priority Set in AF-C >

- AF Illuminator (still image) >

- AF Area Auto Clear >

- Disp. cont. AF area >

- AF Micro Adj. >

- AF System (still image) >

Manual focus

- Manual Focus >

- Direct manual focus (DMF) >

- Focus Magnifier >

- MF Assist (still image) >

- Focus Magnif. Time >

- Initial Focus Mag. (still image) >

- Peaking Level >

- Peaking Color >

Selecting a drive mode (Continuous shooting/Self-timer)

- Drive Mode >

- Cont. Shooting >

- Displaying continuous shooting remaining time indicator (Cont. Shoot. Length) >

- Self-timer >

- Self-timer(Cont) >

- Self-timer Type >

- Cont. Bracket >

- Single Bracket >

- Indicator during bracket shooting >

- WB bracket >
- DRO Bracket >
- Bracket Settings >

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- Touch Operation >
- Touch Focus >

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- Image Size (still image) >
- Aspect Ratio (still image) >
- Quality (still image) >
- RAW File Type (still image) >
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Selecting a shooting mode

- List of mode dial function >
- Intelligent Auto >
- About Scene Recognition >
- The advantages of automatic shooting >
- Program Auto >
- Aperture Priority >
- Shutter Priority >
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- Bulb shooting >
- Recall (Camera Settings1/Camera Settings2) >
- Movie: Exposure Mode >
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Controlling the exposure/metering modes

- Exposure Comp. >
- Reset EV Comp. >
- Dial Ev Comp >
- Exposure Set. Guide >

- Exposure step >

- Metering Mode >

- Spot Metering Point >

- AE lock >

- AEL w/ shutter (still image) >

- Exposure Std. Adjust >

- Exp.comp.set >

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- ISO AUTO Min. SS >

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- Clear Image Zoom/Digital Zoom (Zoom) >

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- About zoom scale >

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- White Balance >

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- Creative Style >

- Picture Effect >

- Color Space (still image) >

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- Release w/o Card >

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- Displaying the release timing (Shoot. Timing Disp.) >

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- SteadyShot Settings >

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- Lens Comp.: Shading Comp. >

- Lens Comp.: Chro. Aber. Comp. >

- Lens Comp.: Distortion Comp. >

Noise reduction

- Long Exposure NR (still image) >

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- Face Detection >

- Face Registration (New Registration) >

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- Face Registration (Delete) >

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- Using flash (sold separately) >

- Red Eye Reduction >

- Flash Mode >

- Flash Comp. >

- FEL lock >

- Wireless flash shooting >

- Using a flash with a sync terminal cord >

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Shooting movies

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S&Q Settings

Dual Video REC

Audio Recording

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Audio Out Timing

Wind Noise Reduct.

Auto Slow Shut. (movie)

AF drive speed (movie)

AF Track Sens (movie)

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Marker Display (movie)

Marker Settings (movie)

4K Output Sel. (movie)

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- Playing back still images >
- Enlarging an image being played back (Playback zoom) >
- Rotating recorded images automatically (Display Rotation) >
- Rotating an image (Rotate) >
- Enlarge Init. Mag. >

- └ Enlarge Initial Pos. >

- └ Playing back movies >

- └ Volume Settings >

- └ Photo Capture >

- └ Playing back images on the image index screen (Image Index) >

- └ Switching between still images and movies (View Mode) >

- └ Selecting which memory card to play back (Select PB Media) >

- └ Copying images from one memory card to another (Copy) >

- └ Playing back images using slideshow (Slide Show) >

Protecting data

- └ Protecting images (Protect) >

Designating images for printing (DPOF)

- └ Specifying images to be printed (Specify Printing) >

Deleting images

- └ Deleting a displayed image >

- └ Deleting multiple selected images (Delete) >

- └ Delete confirm. >

Viewing images on a TV

- └ Viewing images on a TV using an HDMI cable >

Customizing the camera

Registering frequently used functions

- └ Memory (Camera Settings1/Camera Settings2) >

- └ Registering shooting settings to a custom key (Reg Cust Shoot Set) >

Assigning selected functions to the button

- └ Custom Key(Shoot.)/Custom Key(PB) >

- └ Function Menu Set. >

Customizing the functions of the dial

- └ Dial Setup >

- └ Lock Operation Parts >

Customizing MENU (My Menu)

- Add Item >

- Sort Item >

- Delete Item >

- Delete Page >

- Delete All >

Checking images before/after recording

- Auto Review >

- Aperture Preview >

- Shot. Result Preview >

- Live View Display >

Monitor/viewfinder settings

- Grid Line >

- FINDER/MONITOR >

- Deactivate Monitor >

- Monitor Brightness >

- Viewfinder Bright. >

- Finder Color Temp. >

- Finder Frame Rate (still image) >

- Bright Monitoring >

Memory card settings

- Format >

- File Number >

- Set File Name >

- Display Media Info. >

- Recording Mode >

- Select REC Folder >

- New Folder >

- Folder Name >

- Recover Image DB >

Camera settings

- Audio signals >

- Pwr Save Start Time >

- Auto Pwr OFF Temp. >

- Remote Ctrl >

- NTSC/PAL Selector >

- HDMI Settings: HDMI Resolution >

- HDMI Settings: 24p/60p Output (movie) (Only for 1080 60i compatible models) >

- HDMI Settings: HDMI Info. Display >

- HDMI Settings: TC Output (movie) >

- HDMI Settings: REC Control (movie) >

- HDMI Settings: CTRL FOR HDMI >

- USB Connection >

- USB LUN Setting >

- USB Power Supply >

- PC Remote Settings: Still Img. Save Dest. >

- PC Remote Settings: RAW+J PC Save Img >

- Language >

- Date/Time Setup >

- Area Setting >

- Copyright Info >

- Version >

- Certification Logo (For some models only) >

- Demo Mode >

Initializing the camera

- Setting Reset >

Using network functions

Connecting this product and a Smartphone

- PlayMemories Mobile >

- Controlling the camera using an Android smartphone (NFC One-touch remote) >

- Controlling the camera using an Android smartphone (QR code) >

- Controlling the camera using an Android smartphone (SSID) >
- Controlling the camera using an iPhone or iPad (QR code) >
- Controlling the camera using an iPhone or iPad (SSID) >

Transferring images to a Smartphone

- Send to Smartphone >
- Sending images to an Android smartphone (NFC One-touch Sharing) >

Transferring images to a computer

- Send to Computer >
- FTP Transfer Func. >

Transferring images to a TV

- View on TV >

Reading location information from a smartphone

- Recording location information to captured images (Loc. Info. Link Set.) >

Changing the network settings

- Airplane Mode >
- Wi-Fi Settings: WPS Push >
- Wi-Fi Settings: Access Point Set. >
- Wi-Fi Settings: Disp MAC Address >
- Wi-Fi Settings: SSID/PW Reset >
- Wired LAN Setting >
- Edit Device Name >
- Importing root certification to the camera (Imp Root Certificate) >
- Reset Network Set. >

Using a computer

Recommended computer environment

Software for Mac computers

Importing images for use on a computer

- PlayMemories Home >
- Installing PlayMemories Home >
- Connecting to a computer >

Importing images to the computer without using PlayMemories Home >

Disconnecting the camera from the computer >

Developing RAW images (Image Data Converter)

Image Data Converter >

Installing Image Data Converter >

Controlling the camera from a computer (Remote Camera Control)

Remote Camera Control >

Installing Remote Camera Control >

Creating a movie disc

Selecting a disc to be created >

Creating Blu-ray Discs from high-definition image quality movies >

Creating DVD discs (AVCHD recording discs) from high-definition image quality movies >

Creating DVD discs from standard image quality movies >

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Using MENU items

Camera Settings1

Quality (still image) >

RAW File Type (still image) >

Image Size (still image) >

Aspect Ratio (still image) >

APS-C/Super 35mm >

Long Exposure NR (still image) >

High ISO NR (still image) >

Color Space (still image) >

Lens Comp.: Shading Comp. >

Lens Comp.: Chro. Aber. Comp. >

Lens Comp.: Distortion Comp. >

Self-timer Type >

Bracket Settings >

Recall (Camera Settings1/Camera Settings2) >

- Memory (Camera Settings 1/Camera Settings2)	>
- Registering shooting settings to a custom key (Reg Cust Shoot Set)	>
- Priority Set in AF-S	>
- Priority Set in AF-C	>
- Focus Area	>
- Focus Settings	>
- Adjusting the focus area settings to the camera's orientation (horizontal/vertical) (Sw. V/H AF Area)	>
- AF Illuminator (still image)	>
- Center Lock-on AF	>
- AF Track Sens (still image)	>
- AF System (still image)	>
- AF w/ shutter (still image)	>
- Pre-AF (still image)	>
- Eye-Start AF (still image)	>
- Registering the current focus area (AF Area Regist.)	>
- Deleting a registered AF Area (Del. Reg. AF Area)	>
- AF Area Auto Clear	>
- Disp. cont. AF area	>
- AF Micro Adj.	>
- Exposure Comp.	>
- Reset EV Comp.	>
- ISO	>
- ISO AUTO Min. SS	>
- Metering Mode	>
- Spot Metering Point	>
- Exposure step	>
- AEL w/ shutter (still image)	>
- Exposure Std. Adjust	>
- Flash Mode	>
- Flash Comp.	>

- Exp.comp.set >

- Red Eye Reduction >

- White Balance >

- Priority Set in AWB >

- D-Range Opt. (DRO) >

- Auto HDR >

- Creative Style >

- Picture Effect >

- Focus Magnifier >

- Focus Magnif. Time >

- Initial Focus Mag. (still image) >

- AF in Focus Mag. (still image) >

- MF Assist (still image) >

- Peaking Level >

- Peaking Color >

- Face Detection >

- Face Registration (New Registration) >

- Face Registration (Order Exchanging) >

- Face Registration (Delete) >

Camera Settings2

- Movie: Exposure Mode >

- S&Q Motion: Exposure Mode >

- File Format (movie) >

- Record Setting (movie) >

- S&Q Settings >

- Dual Video REC >

- AF drive speed (movie) >

- AF Track Sens (movie) >

- Auto Slow Shut. (movie) >

- Audio Recording >

- Audio Rec Level	>
- Audio Level Display	>
- Audio Out Timing	>
- Wind Noise Reduct.	>
- Marker Display (movie)	>
- Marker Settings (movie)	>
- Video Light Mode	>
- Movie w/ shutter	>
- Shutter Type (still image)	>
- e-Front Curtain Shut.	>
- Release w/o Lens	>
- Release w/o Card	>
- SteadyShot	>
- SteadyShot Settings	>
- Clear Image Zoom/Digital Zoom (Zoom)	>
- Zoom Setting	>
- Zoom Ring Rotate	>
- DISP Button (Monitor/Finder)	>
- FINDER/MONITOR	>
- Finder Frame Rate (still image)	>
- Zebra	>
- Grid Line	>
- Exposure Set. Guide	>
- Live View Display	>
- Shoot. Start Disp.	>
- Displaying the release timing (Shoot. Timing Disp.)	>
- Displaying continuous shooting remaining time indicator (Cont. Shoot. Length)	>
- Auto Review	>
- Custom Key(Shoot.)/Custom Key(PB)	>
- Function Menu Set.	>

- Dial Setup >
- Dial Ev Comp >
- MOVIE Button >
- Lock Operation Parts >
- Audio signals >

Network

- Send to Smartphone >
- Send to Computer >
- FTP Transfer Func. >
- View on TV >
- Ctrl w/ Smartphone >
- Airplane Mode >
- Wi-Fi Settings: WPS Push >
- Wi-Fi Settings: Access Point Set. >
- Wi-Fi Settings: Disp MAC Address >
- Wi-Fi Settings: SSID/PW Reset >
- Bluetooth Settings >
- Recording location information to captured images (Loc. Info. Link Set.) >
- Wired LAN Setting >
- Edit Device Name >
- Importing root certification to the camera (Imp Root Certificate) >
- Reset Network Set. >

Playback

- Deleting multiple selected images (Delete) >
- Switching between still images and movies (View Mode) >
- Playing back images on the image index screen (Image Index) >
- Rotating recorded images automatically (Display Rotation) >
- Selecting which memory card to play back (Select PB Media) >
- Copying images from one memory card to another (Copy) >
- Playing back images using slideshow (Slide Show) >

- Rotating an image (Rotate) >

- Enlarging an image being played back (Playback zoom) >

- Enlarge Init. Mag. >

- Enlarge Initial Pos. >

- Protecting images (Protect) >

- Specifying images to be printed (Specify Printing) >

- Photo Capture >

Setup

- Monitor Brightness >

- Viewfinder Bright. >

- Finder Color Temp. >

- Volume Settings >

- Delete confirm. >

- Pwr Save Start Time >

- Auto Pwr OFF Temp. >

- NTSC/PAL Selector >

- Cleaning Mode >

- Touch Operation >

- Demo Mode >

- TC/UB Settings >

- Remote Ctrl >

- HDMI Settings: HDMI Resolution >

- HDMI Settings: 24p/60p Output (movie) (Only for 1080 60i compatible models) >

- HDMI Settings: HDMI Info. Display >

- HDMI Settings: TC Output (movie) >

- HDMI Settings: REC Control (movie) >

- HDMI Settings: CTRL FOR HDMI >

- 4K Output Sel. (movie) >

- USB Connection >

- USB LUN Setting >

- USB Power Supply >
- PC Remote Settings: Still Img. Save Dest. >
- PC Remote Settings: RAW+J PC Save Img >
- Language >
- Date/Time Setup >
- Area Setting >
- Copyright Info >
- Format >
- File Number >
- Set File Name >
- Selecting which memory card to record to (Select Rec. Media) >
- Recording Mode >
- Select REC Folder >
- New Folder >
- Folder Name >
- Recover Image DB >
- Display Media Info. >
- Version >
- Certification Logo (For some models only) >
- Setting Reset >

My Menu

- Add Item >
- Sort Item >
- Delete Item >
- Delete Page >
- Delete All >

Precautions/This product

Precautions

On cleaning

Cleaning the image sensor

Cleaning Mode



Number of recordable images

Recordable movie times

Using the AC Adaptor/battery charger abroad

AVCHD format

License

Trademarks

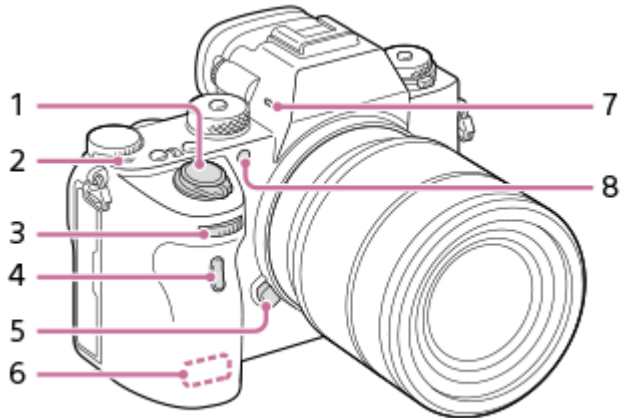
List of default setting values


If you have problems


Troubleshooting

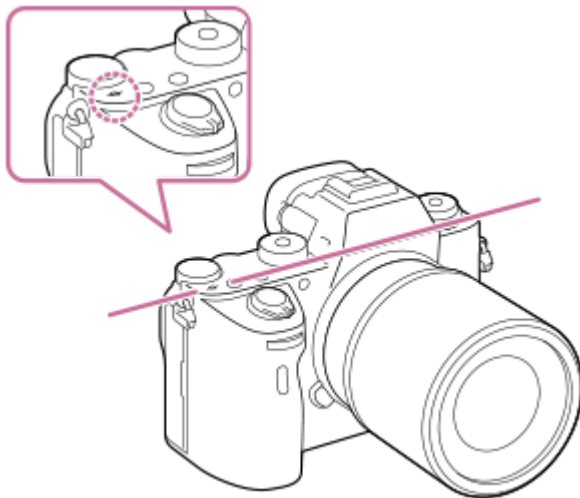
Warning messages

Front side



1. ON/OFF (Power) switch/Shutter button
2.  Image sensor position mark

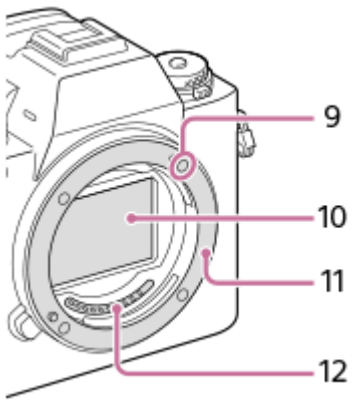
- The image sensor is the sensor that converts light into an electric signal. The  mark shows the location of the image sensor. When you measure the exact distance between the camera and the subject, refer to the position of the horizontal line.



- If the subject is closer than the minimum shooting distance of the lens, the focus cannot be confirmed. Make sure you put enough distance between the subject and the camera.

3. Front dial
You can quickly adjust the settings for each shooting mode.
4. Remote sensor
5. Lens release button
6. Wi-Fi antenna (built-in)
7. Microphone*
8. AF illuminator/Self-timer lamp

When the lens is removed

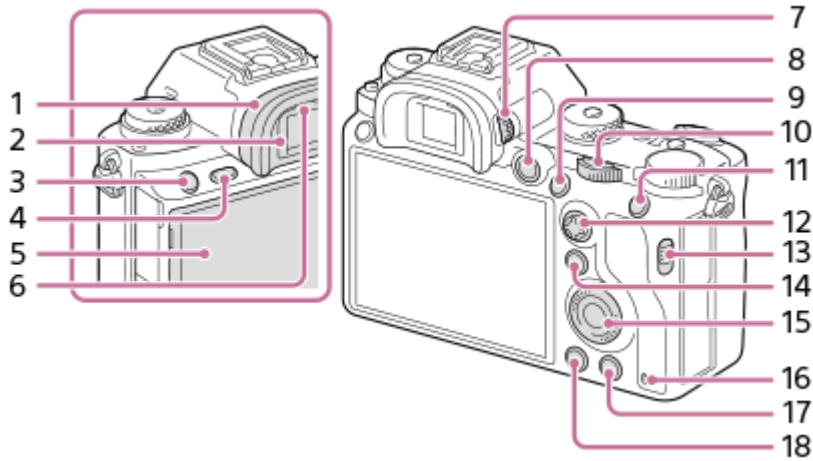


- 9. Mounting index
- 10. Image sensor**
- 11. Mount
- 12. Lens contacts**

* Do not cover this part during movie recording. Doing so may cause noise or lower the volume.

** Do not directly touch these parts.

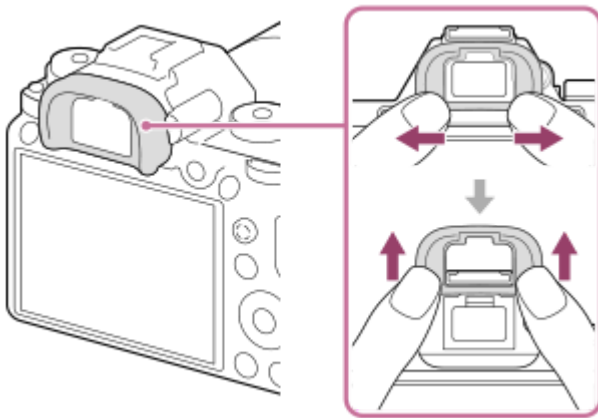
Rear side




1. Eyepiece cup

To remove the eyepiece cup

Push the grips at the bottom of the eyepiece cup to the left and right and lift up the cup.



Remove the eyepiece cup when attaching an angle viewfinder (sold separately). Also, select MENU →  (Camera Settings2) → [FINDER/MONITOR], and then switch [Viewfinder(Manual)] and [Monitor(Manual)].

- 2. Viewfinder
- 3. C3 button (Custom button 3)
- 4. MENU button
- 5. Monitor/Touch panel

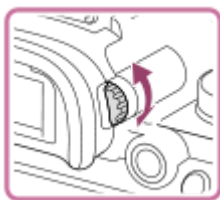
You can adjust the monitor to an easily viewable angle and shoot from any position.



6. Eye sensor


7. Diopter-adjustment dial

Adjust the diopter-adjustment dial according to your eyesight until the display appears clearly in the viewfinder. If it is hard to operate the diopter-adjustment dial, remove the eyepiece cup before operating the dial.



8. MOVIE (Movie) button


9. For shooting: AF-ON (AF On) button

For viewing:  (Enlarge) button

10. Rear dial

You can quickly adjust the settings for each shooting mode.


11. For shooting: AEL button

For viewing:  (Image index) button

12. Multi-selector

13. Media slot cover switch

14. For shooting: Fn (Function) button

For viewing:  (Send to Smartphone) button


You can display the screen for [Send to Smartphone] by pressing this button.

15. Control wheel

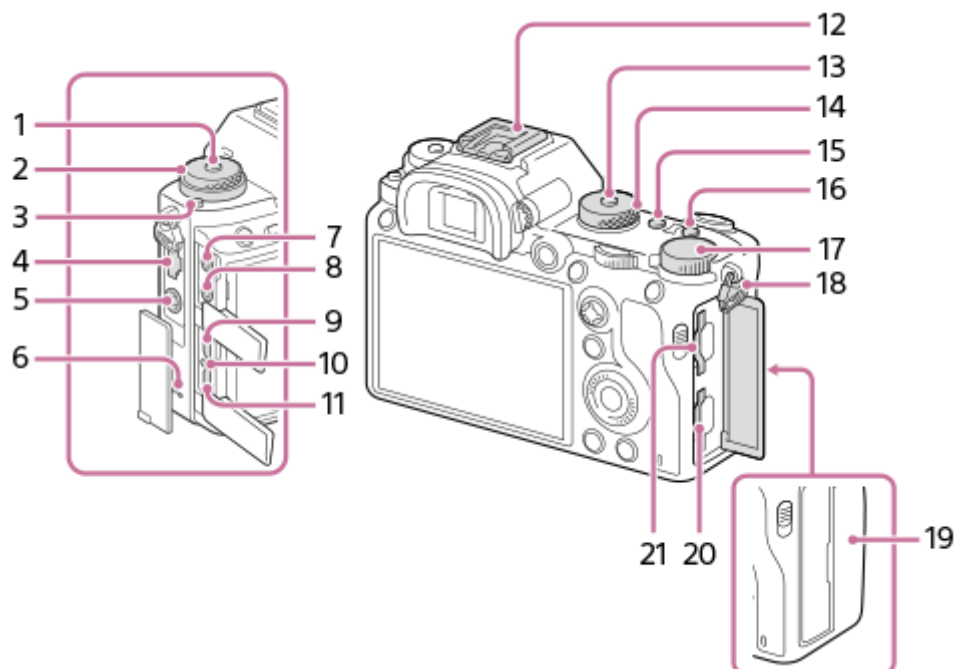
16. Access lamp

17. For shooting: C4 button (Custom button 4)

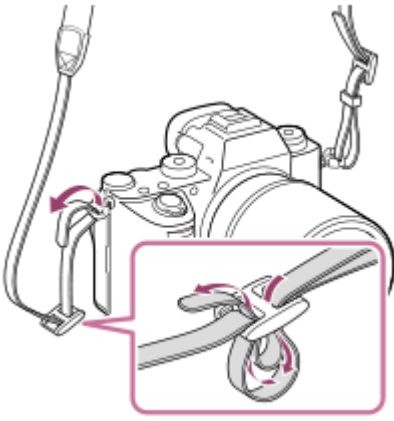
For viewing:  (Delete) button

18.  (Playback) button

Top side/Side view

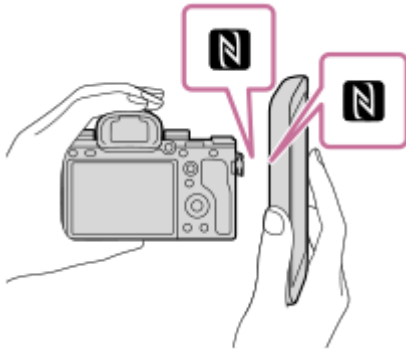


1. Drive mode dial lock release button
2. Upper: Drive mode dial
Lower: Focus mode dial
3. Focus mode dial lock release button
4. LAN terminal
5. ⚡ (Flash sync) terminal
6. Speaker
7. 🎧 (Microphone) jack
When an external microphone is connected, the built-in microphone turns off automatically. When the external microphone is a plugin-power type, the power of the microphone is supplied by the camera.
8. 🎧 (Headphones) jack
9. HDMI micro jack
10. Charge lamp
11. Multi/Micro USB Terminal*
This terminal supports Micro USB-compatible devices.
12. Multi Interface Shoe*
Some accessories may not go in all the way and protrude backward from the Multi interface shoe. However, when the accessory reaches the front end of the shoe, the connection is completed.
13. Mode dial lock release button
14. Mode dial
15. C2 button (Custom button 2)
16. C1 button (Custom button 1)
17. Exposure compensation dial
18. Hooks for shoulder strap
Attach both ends of the strap onto the camera.



19. **N** (N mark)

- This mark indicates the touch point for connecting the camera and an NFC-enabled Smartphone.



- NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

20. SLOT 1 (Memory card slot 1)

Supports SD cards only (compatible with UHS-I and UHS-II)

21. SLOT 2 (Memory card slot 2)

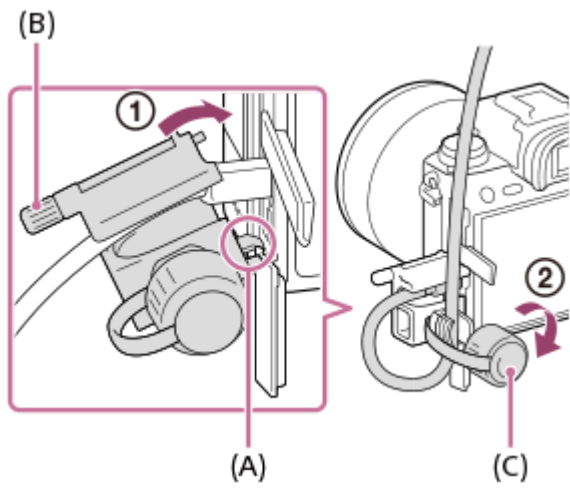
Supports SD cards (compatible with UHS-I) and Memory Stick PRO Duo media

* For details on compatible accessories for the multi interface shoe and the Multi/Micro USB Terminal, visit the Sony website, or consult your Sony dealer or local authorized Sony service facility. Accessories for the Accessory Shoe can also be used. Operations with other manufactures' accessories are not guaranteed.



To attach the cable protector

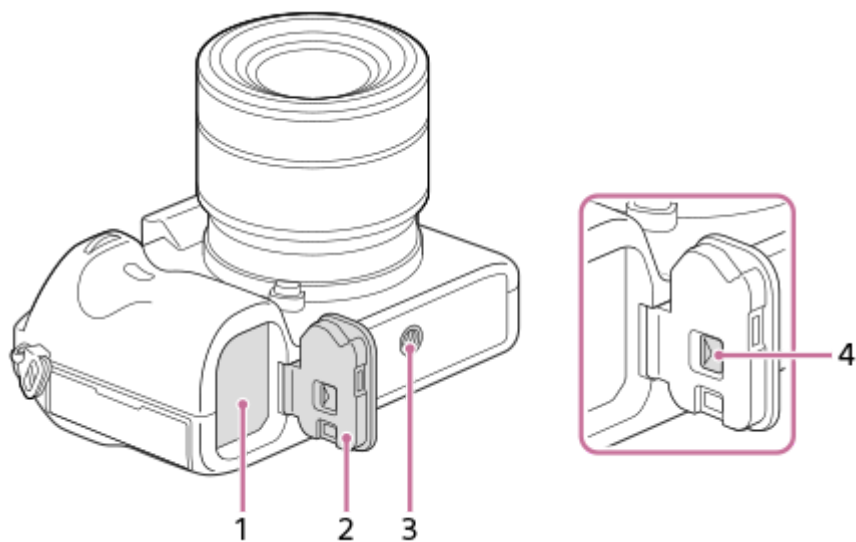
Use the cable protector to prevent the HDMI cable from being disconnected when shooting images connected by the HDMI cable. Open both of the jack covers and insert an HDMI cable into the camera. Swing the HDMI micro jack cover downward and attach the cable protector as illustrated so that the end of the cable protector fits in the slit (A) under the Multi/Micro USB Terminal. Secure the cable protector with the attachment screw (B). Then secure the HDMI cable with the fixing dial (C).



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Bottom



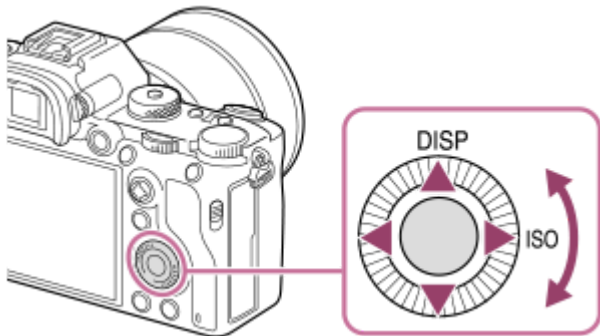
1. Battery insertion slot
2. Battery cover
3. Tripod socket hole

Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

4. Battery cover release lever

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Using the control wheel



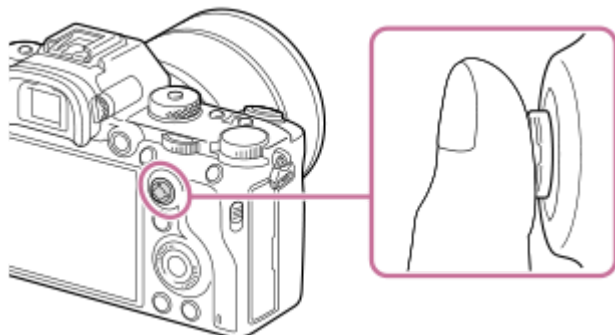
- You can select setting items by turning or pressing the top/bottom/left/right side of the control wheel. Your selection is determined when you press the center of the control wheel.
- The DISP (Display Setting) and ISO (ISO) functions are assigned to the top/right side of the control wheel. In addition, you can assign selected functions to the left/right/bottom side and the center of the control wheel, and to the rotation of the control wheel.
- During playback, you can display the next/previous image by pressing the right/left side of the control wheel or by turning the control wheel.

Related Topic

- [Focus Standard](#)
- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

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Using the multi-selector



- Put your finger right on top of the multi-selector to manipulate it more precisely.
 - When [Focus Area] is set to [Zone], [Flexible Spot], or [Expand Flexible Spot], you can move the focus area by pressing the multi-selector up/down/left/right.
 - The [Focus Standard] function is assigned to the center of the multi-selector in the default settings.
-

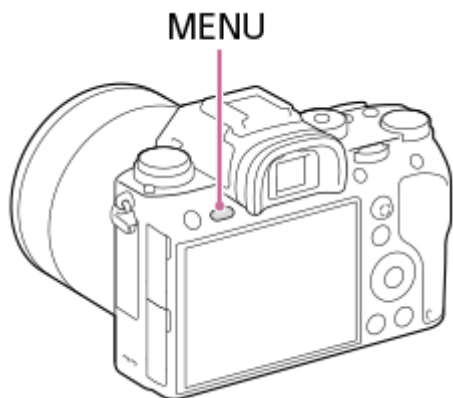
Related Topic

- [Focus Area](#)
- [Focus Standard](#)

Using MENU items

You can change settings related to all the camera operations including shooting, playback, and operating method. You can also execute camera functions from the MENU.

- 1 Press the MENU button to display the menu screen.



- 2 Select the desired setting you want to adjust using the top/bottom/left/right sides of the control wheel or by turning the control wheel, and then press the center of the control wheel.
 - Select an icon at the top of the screen and press the left/right side of the control wheel to move to another MENU item.



- 3 Select the desired setting value, and press the center to confirm your selection.

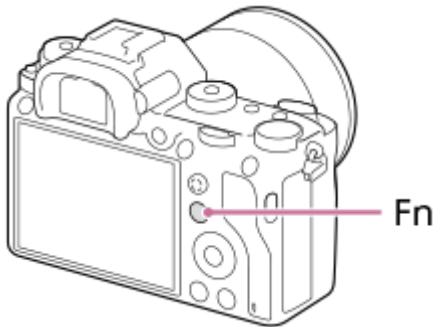
Related Topic

- [Add Item](#)

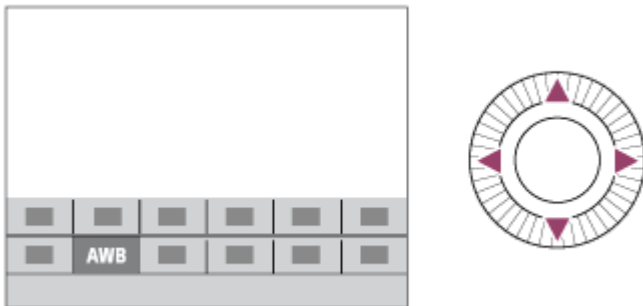
Using the Fn (Function) button

You can register frequently used functions to the Fn (Function) button and recall them while shooting. Up to 12 frequently used functions can be registered to the Fn (Function) button.

- 1 Press the DISP on the control wheel repeatedly to display a screen mode other than [For viewfinder], and then press the Fn (Function) button.

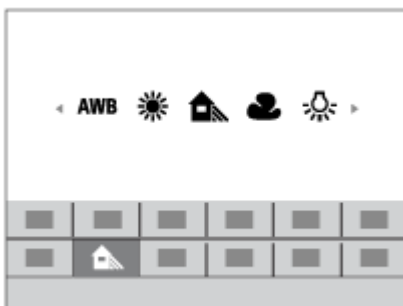


- 2 Select the desired function by pressing the top/bottom/left/right side of the control wheel.



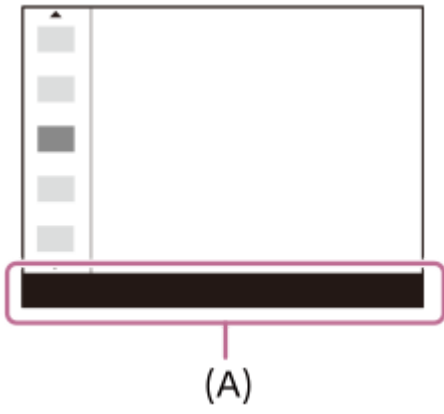
- 3 Select the desired setting by turning the front dial, and press the center of the control wheel.

- Some functions can be fine-tuned using the rear dial.



To adjust settings **from** the dedicated setting screens

Select the desired function in step 2, then press the center of the control wheel. The dedicated setting screen for the function will appear. Follow the operating guide (A) to adjust settings.



Related Topic

- [Function Menu Set.](#)

How to use the Quick Navi screen

The Quick Navi screen is a function optimized for shooting with the viewfinder, that lets you control settings directly.

- 1 Select MENU → 2 (Camera Settings2) → [DISP Button] → [Monitor] → place a mark on [For viewfinder] and then select [Enter].
- 2 Press the DISP on the control wheel to set the screen mode to [For viewfinder].
- 3 Press the Fn button to switch to the Quick Navi screen.
 - The displayed contents and their positions in the illustrations are just guidelines, and may differ from the actual displays.

Auto mode



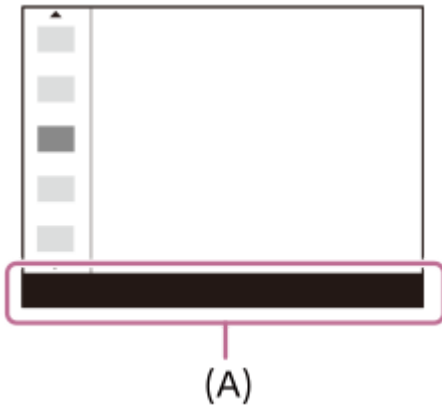
P/A/S/M mode



- 4 Select the desired function by pressing the top/bottom/left/right side of the control wheel.
- 5 Select the desired setting by turning the front dial.
 - Some functions can be fine-tuned using the rear dial.

To adjust settings from the dedicated setting screens

Select the desired function in step 4, then press the center of the control wheel. The dedicated setting screen for the function will appear. Follow the operating guide (A) to adjust settings.



Note

- Items that are gray on the Quick Navi screen are not adjustable.
- When using [Creative Style], some settings can only be controlled from the dedicated screen.

Related Topic

- [Switching the screen display \(while shooting/during playback\)](#)

How to use the keyboard

When manual character entry is required, a keyboard is displayed on the screen.



Move the cursor on desired key using the control wheel, then press the center to enter.

1. Input box

The characters you entered are displayed.

2. Switch character types

Each time you press this key, the character type will switch between alphabet letters, numerals and symbols.

3. Keyboard

Each time you press this key, the characters corresponding to that key will be displayed one-by-one in order.

For example: If you want to enter "abd"

Press the key for "abc" once to display "a" → select " → ((5) Move cursor) and press the key for "abc" twice to display "b" → press the key for "def" once to display "d."

4. Finalize

Finalizes the entered characters.

5. Move cursor

Moves the cursor in the input box to the right or left.

6. Delete

Deletes the character preceding the cursor.

7. ↑

Switches the next character to a capital or lowercase letter.

8. ␣

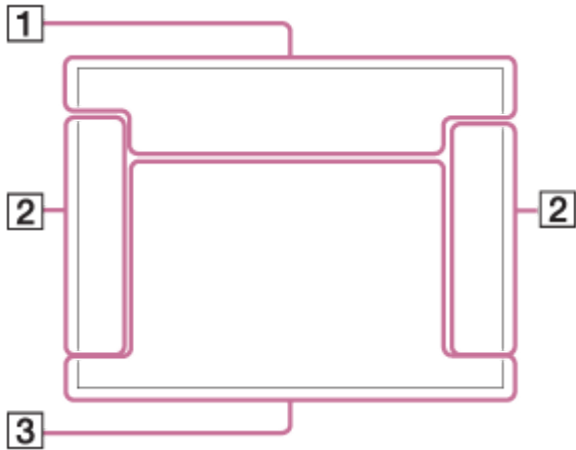
Enters a space.

- To cancel input, select [Cancel].

List of icons on the monitor

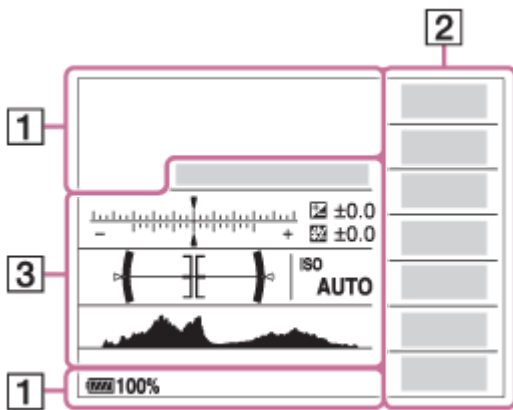
The displayed contents and their positions in the illustrations are just guidelines, and may differ from the actual displays.

Monitor mode

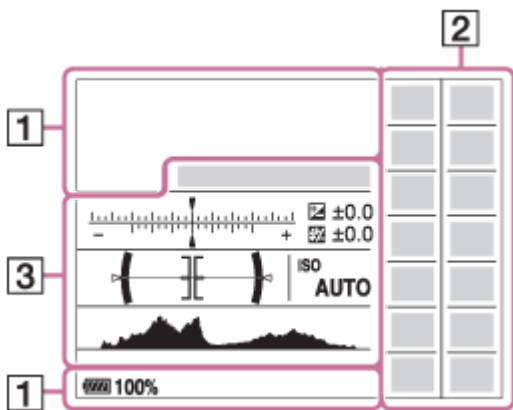


Viewfinder mode

[Intelligent Auto] mode



P/A/S/M mode

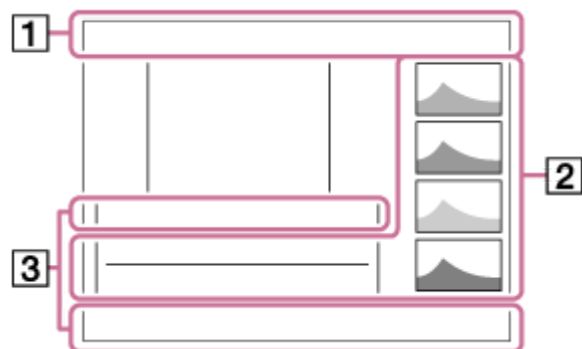


For playback

Basic information display



Histogram display



1. P P* A S M S&Q P S&Q A S&Q S S&Q M

Shooting mode

Register number

Scene Recognition icons

NO CARD

Memory card status

100

Remaining number of recordable images

Aspect ratio of still images

24M / 20M / 10M / 8.7M / 6.0M / 5.1M / 2.6M / 2.2M

Image size of still images

RAW **RAW+J** **RAW** **RAW+J** **X.FINE** **FINE** **STD**

Image quality of still images

120p **60p** **60i** **30p** **24p** **100p** **50p** **50i** **25p**

Frame rate of movies

Record setting of movies

Bluetooth connection available/Bluetooth connection unavailable

Connected to smartphone/Not connected to smartphone

100%

Remaining battery

Remaining battery warning

USB power supply



Flash charge in progress



APS-C/Super 35mm



Setting Effect OFF



AF Illuminator



NFC active



Airplane Mode



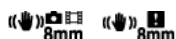
No audio recording of movies



Wind Noise Reduct.



SteadyShot off/on, Camera shake warning



SteadyS. Focal Len. /Camera shake warning



Obtaining location information/Location information cannot be obtained



Overheating warning



Database file full/Database file error



Smart Zoom/ Clear Image Zoom/Digital Zoom



View Mode

100-0003

Folder number — File number



Protect

XAVC S 4K XAVC S HD AVCHD MP4

File format of movies

DPOF

DPOF set



Dual Video REC



PC remote



Shooting without shutter sound



Bright Monitoring



Copyright information writing on

120fps 60fps 30fps 15fps 8fps 4fps 100fps 50fps 25fps 12fps 6fps 3fps 2fps 1fps

Frame rate for slow/quick motion shooting



Writing data / Number of images left to write



Focus Cancel



Lock-on AF Cancel

Spot Focus

Performing Spot Focus



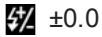
Infrared remote control



Drive mode



Flash Mode/Red Eye Reduction



Flash Comp. ±0.0



Focus Mode



Focus Area



Metering Mode

35mm

Lens focal length



White Balance (Auto, Preset, Underwater Auto, Custom, Color temperature, Color filter)



D-Range Opt./Auto HDR



Creative Style /Contrast, saturation, and sharpness



Picture Effect



Copyright information exists for image



Shutter Type



Finder Frame Rate



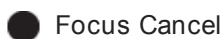
Select Rec. Media

3. ● Lock-on AF

Guide display for Lock-on AF



Guide display for cancelling Lock-on AF



Guide display for cancelling focusing



Bracket indicator



Exposure compensation/Metered Manual

STBY

Movie recording standby

REC 1:00:12

Actual movie recording time (hours: minutes: seconds)



Focus indicator

1/250

Shutter speed

F3.5

Aperture value

ISO400

ISO AUTO

ISO sensitivity



Exposure Setting Guide



AE lock/FEL lock



Shutter speed indicator



Aperture indicator



Histogram

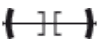


Location information

90°44'55" N

233°44'55" W

Latitude/longitude information



Digital level gauge



Audio Level Display



DRO/Auto HDR/Auto HDR image warning



Picture Effect error

2017-1-1

10:37AM

Date of recording

3/7

File number/Number of images in the view mode



REC Control



Spot metering area

00:00:00:00

Time code (hours: minutes: seconds: frames)

00 00 00 00

User Bit

Switching the screen display (while shooting/during playback)

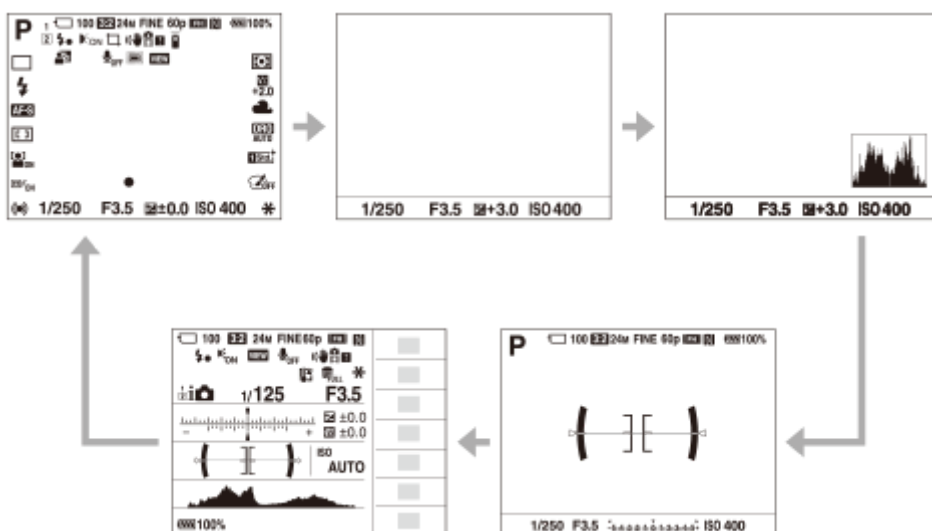
You can change the display contents on the screen.

1 Press the DISP (Display Setting) button.

- To switch the information displayed on the viewfinder, press the DISP button while looking into the viewfinder.
- Each time you press the DISP button, the screen display changes.
- The displayed contents and their position are just a guideline, and may differ from the actual display.

During shooting (Monitor)

Display All Info. → No Disp. Info. → Histogram → Level → For viewfinder → Display All Info.



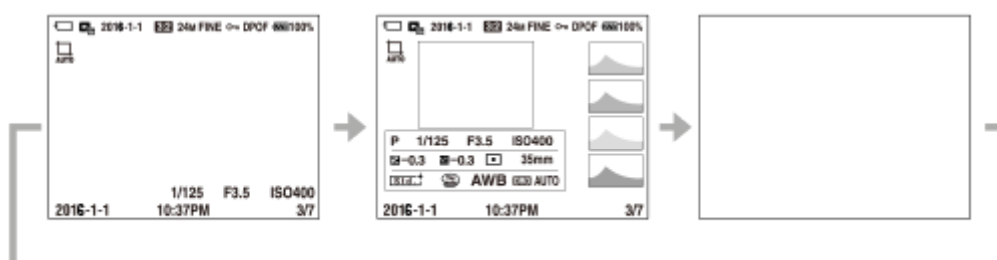
During shooting (Viewfinder)

Level → No Disp. Info. → Histogram → Level



During playback (Monitor/Viewfinder)

Display Info. → Histogram → No Disp. Info. → Display Info.



- If the image has an overexposed or underexposed area, the corresponding section will blink on the histogram display (overexposed/underexposed warning).
- The settings for playback are also applied in [Auto Review].

Histogram display

A histogram shows the luminance distribution, displaying how many pixels there are by luminance. It shows darker toward the left and brighter toward the right.

The histogram changes depending on the exposure compensation.

A peak at the right or left end of the histogram indicates that the image has an overexposed or underexposed area, respectively. You cannot correct such defects using a computer after shooting. Perform exposure compensation before shooting as necessary.



Note

- The viewfinder display and the monitor display for shooting can be set separately. Look through the viewfinder to set the display settings for the viewfinder.
- The information in the histogram display does not indicate the final photograph. It is information about image displayed on the screen. The final result depends on the aperture value, etc.
- The histogram display is extremely different between shooting and playback in the following cases:
 - When the flash is used
 - When shooting a low luminance subject such as a night scene
- In movie mode, [For viewfinder] cannot be displayed.

Hint

- The following are not displayed in the default settings.
 - Graphic Display
 - Display All Info. (when using the viewfinder)

To change the display modes that are switched when you press the DISP button, select MENU → 2 (Camera Settings2) → [DISP Button] and change the setting.

Related Topic

- [DISP Button \(Monitor/Finder\)](#)

DISP Button (Monitor/Finder)

Allows you to set the screen display modes that can be selected using DISP (Display Setting) in shooting mode.

1 MENU →  2 (Camera Settings2) → [DISP Button] → [Monitor] or [Finder] → desired setting → [Enter].

The items marked with  are available.

Menu item details

Graphic Display :

Shows basic shooting information. Graphically shows the shutter speed and aperture value.

Display All Info. :

Shows recording information.

No Disp. Info. :

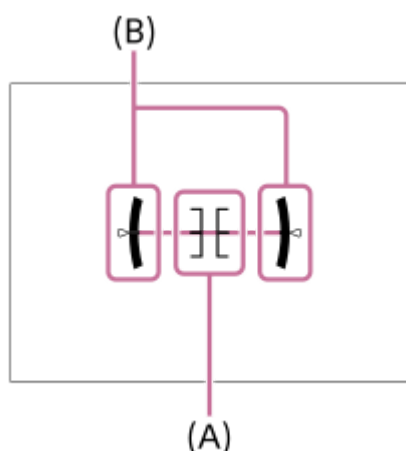
Does not show recording information.

Histogram :

Displays the luminance distribution graphically.

Level :

Indicates whether the product is level in both the front-back (A) and horizontal (B) directions. When the product is level in both directions, the indicator turns to green.



For viewfinder*:

Displays information suited for shooting with the viewfinder.

* This screen mode is available only in the setting for [Monitor].

Note

- If you tilt the product forward or backward by a large degree, the level error will be great.
- The product may have a margin of error of almost $\pm 1^\circ$ even when the inclination is corrected by the level.

Related Topic

- [Switching the screen display \(while shooting/during playback\)](#)

Checking the camera and the supplied items

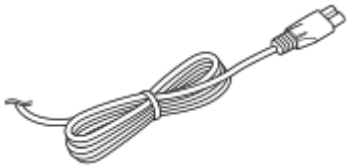
The number in parentheses indicates the number of pieces.

- Camera (1)
- AC Adaptor (1)
The shape of the AC Adaptor may differ depending on the country/region.

- Battery charger (1)



- Power cord (mains lead) (1)*

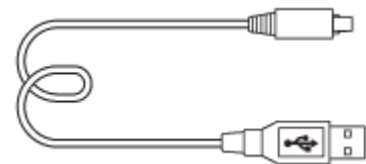


* Multiple power cords may be supplied with your camera. Use the appropriate one that matches your country/region.

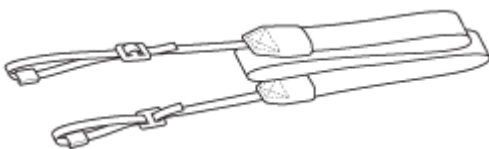
- Rechargeable battery pack NP-FZ100 (1)



- Micro USB Cable (1)



- Shoulder strap (1)



- Body cap (1) (Attached to the camera)



- Cable protector (1)



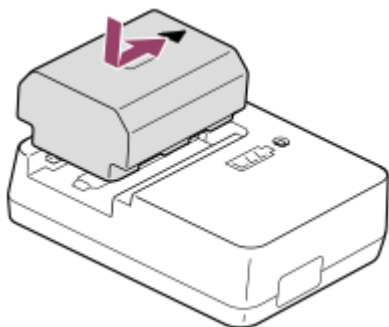
- Shoe cap (1) (Attached to the camera)
- Eyepiece cup (1) (Attached to the camera)
- Instruction Manual (1)

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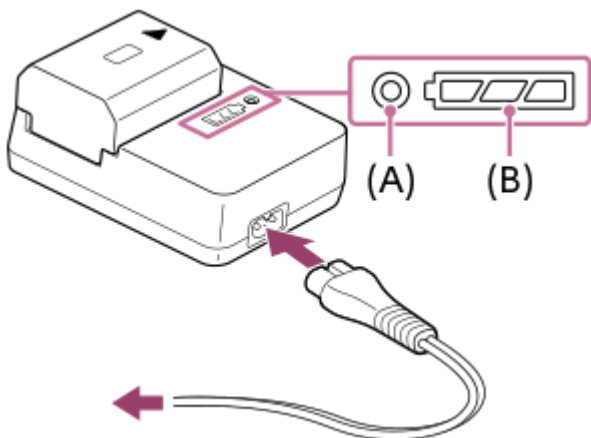
Charging the battery pack using a charger

1 Insert the battery pack into the battery charger.

- Place the battery pack on the battery charger aligning the direction of ▲ mark.
- Slide the battery pack to the end towards the arrow.



2 Connect the power cord (supplied) to the battery charger, and connect the battery charger to the wall outlet (wall socket).



- When charging starts, the CHARGE lamp (A) lights up in orange. The CHARGE lamp turns off when the charging level reaches approximately 90%.
- You can check the approximate charging status with the charging status indicator lamp (B) as shown in the following table. The orange color indicates the lighting of the lamp. The charging status indicator lamp turns off when charging is finished.

Charging status	CHARGE lamp/Charging status indicator lamp
Immediately after attaching the battery pack - 30 %	● ◻◻◻
30% - 60%	● ◻◻◻
60% - 90%	● ◻◻◻
90% - Fully charged	○ ◻◻◻
Full charging completed	○ ◻◻◻

The charge level shown by the charging status indicator lamp and the percentages in the above table are rough guides.

The actual status may differ depending on the ambient temperature and the condition of the battery pack.

- Charging time (Full charge): The charging time is approximately 150 min.
- The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.
- When the CHARGE lamp and charging status indicator lamp light up and then immediately turn off, the battery pack is fully charged.

Note

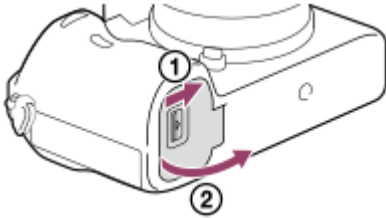
- We recommend charging the battery pack in an ambient temperature of between 10°C and 30°C (50°F and 86°F). You may not be able to efficiently charge the battery pack outside this temperature range.
- Use a nearby wall outlet (wall socket) when using the AC Adaptor/Battery Charger. If any malfunction occurs, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source. If you use the product with a charge lamp, note that the product is not disconnected from the power source even when the lamp turns off.
- When you use a completely new battery pack or a battery pack that has not been used for a long time, the CHARGE lamp may flash quickly when the battery is charged. If this happens, remove the battery pack and then re-insert it to recharge.
- Do not continuously or repeatedly charge the battery pack without using it if it is already fully charged or close to fully charged. Doing so may cause a deterioration in battery performance.
- Be sure to use only genuine Sony brand battery packs.

Related Topic

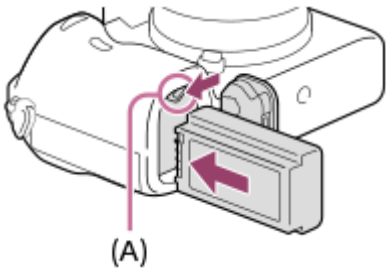
- [Notes on the battery pack](#)

Inserting/removing the battery pack

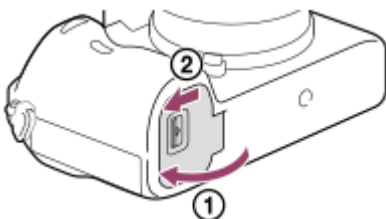
- 1 Open the battery cover.



- 2 Insert the battery pack while pressing the lock lever (A) with the tip of the battery until the battery locks into place.

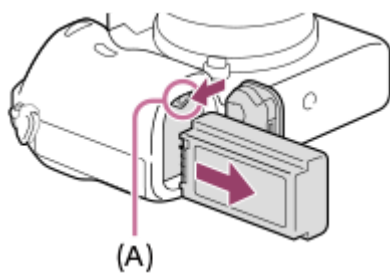


- 3 Close the cover.



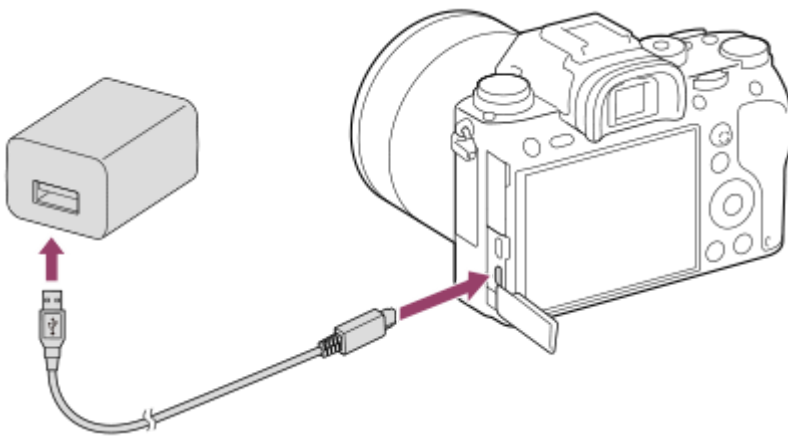
To remove the battery pack

Turn off the camera and press lock lever (A), then remove the battery pack. Be careful not to drop the battery pack.



Charging the battery pack while it is inserted in the camera

- 1 Turn the power off.
- 2 Connect the camera with the battery pack inserted to the AC Adaptor (supplied) using the micro USB cable (supplied), and connect the AC Adaptor to the wall outlet (wall socket).



Charge lamp on the camera (orange)

Lit: Charging

Off: Charging finished

Flashing: Charging error or charging paused temporarily because the camera is not within the proper temperature range

- Charging time (Full charge): The charging time is approximately 285 min.
- The above charging time applies when charging a fully depleted battery pack at a temperature of 25 °C (77 °F). Charging may take longer depending on conditions of use and circumstances.
- The charge lamp turns off when charging is completed.
- If the charge lamp lights up and then immediately turns off, the battery pack is fully charged.

Note

- If the charge lamp flashes when the battery pack is not fully charged, remove the battery pack or disconnect the USB cable from the camera and then re-insert it to recharge.
- If the charge lamp on the camera flashes when the AC Adaptor is connected to the wall outlet (wall socket), this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack at an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- Use a nearby wall outlet (wall socket) when using the AC Adaptor/Battery Charger. If any malfunction occurs, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source.
If you use the product with a charge lamp, note that the product is not disconnected from the power source even when the lamp turns off.
- If you turn on the camera, power will be supplied from the wall outlet (wall socket) and you will be able to operate the camera. However, the battery pack will not be charged.
- When you use a completely new battery pack or a battery pack that has not been used for a long time, the charge lamp may flash quickly when the battery is charged. If this happens, remove the battery pack or disconnect the USB cable from the camera and then re-insert it to recharge.

- Do not continuously or repeatedly charge the battery pack without using it if it is already fully charged or close to fully charged. Doing so may cause a deterioration in battery performance.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).
- Be sure to use only genuine Sony brand battery packs, micro USB cables (supplied) and AC Adaptors (supplied).

Related Topic

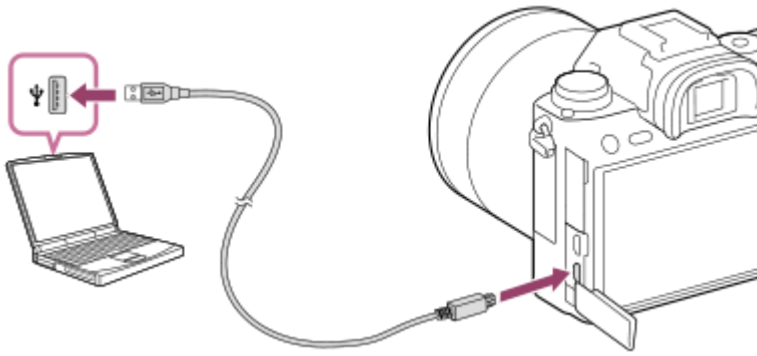
- [Notes on the battery pack](#)
- [Notes on charging the battery pack](#)
- [Using the AC Adaptor/battery charger abroad](#)

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Charging by connecting to a computer

The battery pack can be charged by connecting the camera to a computer using a micro USB cable.

- 1 Turn off the product, and connect to the USB terminal of the computer.



Note

- If the product is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not leave the product connected to a laptop computer for an extended period of time.
- Do not turn on/off or restart the computer, or wake the computer from sleep mode when a USB connection has been established between the computer and the camera. Doing so may cause a malfunction. Before turning on/off or restarting the computer, or waking the computer from sleep mode, disconnect the camera from the computer.
- Proper operation cannot be guaranteed on all types of computers.
- Charging cannot be guaranteed with a custom-built computer, modified computer, or a computer connected through a USB hub.
- The camera may not operate correctly when other USB devices are used at the same time.

Related Topic

- [Notes on the battery pack](#)
- [Notes on charging the battery pack](#)

Battery life and number of recordable images

		Battery life	Number of images
Shooting (still images)	Screen mode	-	Approx. 650
	Viewfinder mode	-	Approx. 480
Actual shooting (movies)	Screen mode	Approx. 120 min.	-
	Viewfinder mode	Approx. 105 min.	-
Continuous shooting (movies)	Screen mode	Approx. 195 min.	-
	Viewfinder mode	Approx. 185 min.	-

Note


- The above estimates for battery life and number of recordable images apply when the battery pack has been fully charged. The battery life and number of images may decrease depending on the conditions of use.
- The battery life and number of recordable images are estimates based on shooting with the default settings under the following conditions:
 - Using the battery pack at an ambient temperature of 25°C (77°F).
 - Using a Sony SDXC memory card of UHS-I Speed Class 3 (**U3**) (sold separately)
 - Using a FE 28-70mm F3.5-5.6 OSS lens (sold separately)
- The numbers for “Shooting (still images)” are based on the CIPA standard and shooting under the following conditions: (CIPA: Camera & Imaging Products Association)
 - One picture is taken every 30 seconds.
 - The power is turned on and off once every ten times.
- The number of minutes for movie shooting is based on the CIPA standard and shooting under the following conditions:
 - The image quality is set to XAVC S HD 60p 50M /50p 50M.
 - Actual shooting (movies): Battery life based on repeated shooting, zooming, shooting stand-by, turning on/off, etc.
 - Continuous shooting (movies): Battery life based on non-stop shooting until the limit (29 minutes) has been reached, and then continued by pressing the MOVIE (Movie) button again. Other functions, such as zooming, are not operated.

Supplying power from a wall outlet (wall socket)

Use the supplied AC adaptor to shoot and play back images while power is supplied from a wall outlet (wall socket). This conserves the camera's battery power.

- 1 Insert the battery pack into the camera.
- 2 Connect the camera to the wall outlet (wall socket) with a micro USB cable (supplied) and an AC adaptor (supplied).

Note

- The camera will not activate if there is no remaining battery. Insert a sufficiently charged battery pack into the camera.
- If you use the camera while power is being supplied from a wall outlet (wall socket), make sure that the icon () is displayed on the monitor.
- Do not remove the battery pack while power is supplied from a wall outlet (wall socket). If you remove the battery pack, the camera will be turned off.
- Do not remove the battery pack while the access lamp is lit. The data in the memory card may be damaged.
- As long as the power is on, the battery pack will not be charged even if the camera is connected to the AC Adaptor.
- Under certain conditions, power may be supplied from the battery pack supplementarily even if you are using the AC adaptor.
- Do not remove the Micro USB cable while power is supplied from a wall outlet (wall socket). Before you remove the Micro USB cable, turn off the camera.
- Depending on the camera and battery temperature, the continuous recording time may be shortened while power is supplied from a wall outlet (wall socket).
- When using a mobile charger as a power source, confirm that it is fully charged before use. Also, be careful of the remaining power on the mobile charger during use.

Notes on the battery pack

Notes on using the battery pack

- Be sure to use only battery packs specified for this product.
- The correct remaining battery indicator may not be displayed under some operating or environmental conditions.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.

Charging the battery pack

- Charge the battery pack (supplied) before using the product for the first time.
- The charged battery pack will discharge little by little even if you do not use it. Charge the battery pack each time before you use the product so that you do not miss any opportunities to shoot images.
- Do not charge battery packs except battery packs specified for this product. Doing so can result in leaks, overheating, explosions, electric shocks, burns, or injuries.
- If the charge lamp flashes when the battery pack is not fully charged, remove the battery pack or disconnect the USB cable from the camera and the charger and then reinsert it to recharge.
- We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 °F and 86 °F). The battery pack may not be effectively charged in temperatures outside this range.
- When you connect this product and a laptop computer that is not connected to a power source, the laptop's battery charge may decrease. Do not charge this product using the laptop computer for too long.
- Do not turn on/restart a computer, wake a computer from sleep mode, or turn off a computer while this product is connected to the computer via USB cable. Doing so may cause a malfunction of this product. Disconnect the product and the computer before performing the above operations.
- We do not guarantee charging if you are using a self-built or modified computer.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket) or disconnect the USB cable from the camera. Not doing so may result in a shorter battery life.

Remaining battery indicator

- The remaining battery indicator appears on the screen.



A: Battery level high
B: Battery exhausted

- It takes about one minute for the correct remaining battery indicator to appear.
- The correct remaining battery indicator may not be displayed under some operating or environmental conditions.
- If the remaining battery indicator does not appear on the screen, press the DISP (Display Setting) button to display it.

Charging time (Full charge)

The charging time is approximately 150 minutes when using the battery charger (supplied), and approximately 285 minutes when using the AC adaptor (supplied).

The above charging time applies when charging a fully depleted battery pack at a temperature of 25 °C (77 °F). Charging may take longer depending on conditions of use and circumstances.

Effective use of the battery pack

- Battery performance decreases in low temperature environments. So in cold places, the operational time of the battery pack is shorter. To ensure longer battery pack use, we recommend putting the battery pack in your pocket close to your body to warm it up, and insert it in the product immediately before you start shooting. If there are any metal objects such as keys in your pocket, be careful of causing a short-circuit.
- The battery pack will run down quickly if you use the flash or continuous shooting function frequently, turn the power on/off frequently, or set the monitor very bright.
- We recommend preparing spare battery packs and taking trial shots before taking the actual shots.
- If the battery terminal is dirty, you may not be able to turn on the product or the battery pack may not be properly charged. In that case, clean the battery by lightly wiping off any dust using a soft cloth or a cotton swab.

How to store the battery pack

To maintain the battery pack's function, charge the battery pack and then fully discharge it in the camera at least once a year before storing it. Store the battery in a cool, dry place after removing it from the camera.

On battery life

- The battery life is limited. If you use the same battery repeatedly, or use the same battery for a long period, the battery capacity decreases gradually. If the available time of the battery is shortened significantly, it is probably time to replace the battery pack with a new one.
- The battery life varies according to how the battery pack is stored and the operating conditions and environment in which each battery pack is used.

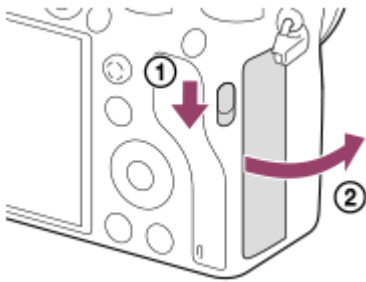
Notes on charging the battery pack

- The supplied AC Adaptor is dedicated to this product. Do not connect with other electronic devices. Doing so may cause a malfunction.
- Make sure to use a genuine Sony AC Adaptor.
- If the product's charge lamp flashes while charging, remove the battery pack being charged, and then insert the same battery pack firmly back into the product. If the charge lamp flashes again, this may indicate a faulty battery or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type.
If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the newly inserted battery is charging correctly. If the newly inserted battery is charging correctly, the previously inserted battery may be faulty.
- If the charge lamp flashes even if the AC Adaptor is connected to the product and the wall outlet (wall socket), this indicates that charging has stopped temporarily and is on standby. Charging stops and enters standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature returns to the appropriate range, charging resumes and the charge lamp lights up again. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).

Inserting/removing a memory card

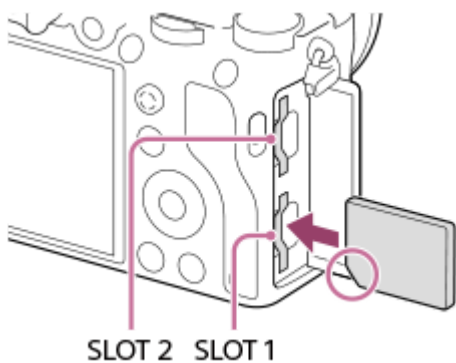
Explains how to insert a memory card (sold separately) to the product.

- 1 Open the memory card cover.



- 2 Insert the SD card into the slot 1.

- When using two memory cards, insert the second one into the slot 2.



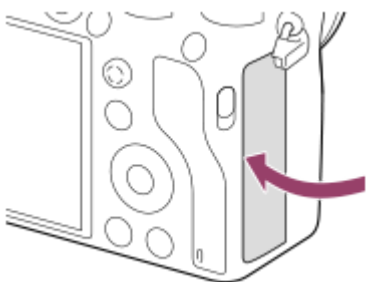
- With the notched corner facing in the direction illustrated, insert the memory card until it clicks into place. Insert the memory card correctly. Not doing so may cause a malfunction.



Memory card types that can be inserted into the memory card slots

Slot 1 (lower): Supports SD cards (compatible with UHS-I and UHS-II)

Slot 2 (upper): Supports SD cards (compatible with UHS-I) and Memory Stick PRO Duo media

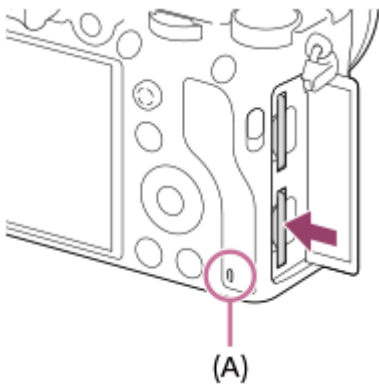
- 3 Close the cover.



- When you use a memory card with the camera for the first time, it is recommended that you format the card on the camera for more stable performance of the memory card.
- You can change the memory card slot for recording by selecting MENU →  (Setup) → [Select Rec. Media].
- To record the same image on two memory cards at the same time or to sort recorded images onto two memory card slots by the image type (still image/movie), select MENU →  (Setup) → [Recording Mode].
- Use the slot 1 when you are only using one SD card.
- Use the slot 2 when you are using Memory Stick media. In this case, set [Select Rec. Media] to [Slot 2].
- Do not insert a Memory Stick media into the slot 1. It may cause a malfunction.

To remove the memory card

Open the memory card cover and make sure that the access lamp (A) is not lit, then push in the memory card lightly once to remove it.



Related Topic

- [Memory cards that can be used](#)
- [Notes on memory card](#)
- [Format](#)
- [Selecting which memory card to record to \(Select Rec. Media\)](#)
- [Selecting which memory card to play back \(Select PB Media\)](#)
- [Recording Mode](#)

Memory cards that can be used


You can use the following types of memory cards with this camera. The ✓ mark indicates that these memory cards can be used for shooting still images or movies.


When using Memory Stick Micro media or microSD memory card with this camera, make sure to use with the appropriate adaptor.

Memory card	For still images	For movies		
		MP4	AVCHD	XAVC S
Memory Stick PRO Duo	✓	✓ (Mark2 only)	✓ (Mark2 only)	—
Memory Stick PRO-HG Duo	✓	✓	✓	✓*1
Memory Stick Micro (M2)	✓	✓ (Mark2 only)	✓ (Mark2 only)	—
SD memory card	✓	✓*2	✓*2	—
SDHC memory card	✓	✓*3	✓*3	✓*4
SDXC memory card	✓	✓*3	✓*3	✓*4
microSD memory card	✓	✓*2	✓*2	—
microSDHC memory card	✓	✓*3	✓*3	✓*4
microSDXC memory card	✓	✓*3	✓*3	✓*4

*1 Movies cannot be recorded in 100 Mbps or more.





*2 Memory card compatible with SD Speed Class 4 () or faster

*3 Memory card compatible with SD Speed Class 4 () or faster, or with UHS-I or UHS-II

*4 Memory card compatible with SD Speed Class 10 (), or with UHS-I or UHS-II

When recording at 100 Mbps or more, a UHS-I U3 or UHS-II U3 memory card is required.

Note

- Use the slot 1 when you are using a UHS-II memory card. Also, set [Select Rec. Media] to [Slot 1].
- Memory Stick PRO Duo media cannot be used in the slot 1.
- When an SDHC memory card is used to record an XAVC S movie over extended periods of time, the recorded movies will be divided into files 4 GB in size. The divided files can be handled as a single file by importing them to a computer using PlayMemories Home.
- When recording a movie on memory cards in both the slot 1 and the slot 2 with following camera settings, insert two memory cards with the same file system. XAVC S movies cannot be recorded simultaneously when using a combination of the exFAT file system and FAT32 file system.
 - [ File Format] is set to [XAVC S 4K] or [XAVC S HD].
 - [Recording Mode] is set to [Simult. ()] or [Simult. ( / )].

Memory card	File system
SDXC memory card	exFAT
Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, SDHC memory card	FAT32

Related Topic

- [Notes on memory card](#)
- [Number of recordable images](#)
- [Recordable movie times](#)
- [Recording Mode](#)

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Notes on memory card

- If you repeatedly shoot and delete images for a long time, fragmentation of data in a file in the memory card may occur, and movie recording may be interrupted in the middle of shooting. If this happens, save your images to a computer or other storage location, then execute [Format] using this camera.
- Do not remove the battery pack or the memory card, disconnect the USB cable, or turn the camera off while the access lamp is lit up. This may cause the data on the memory card to become damaged.
- Be sure to back up the data for protection.
- Not all memory cards are guaranteed to operate correctly.
- Images recorded on an SDXC memory card cannot be imported to or played on computers or AV devices that are not compatible with exFAT when connected using a micro USB cable. Make sure that the device is compatible with exFAT before connecting it to the camera.
If you connect your camera to an incompatible device, you may be prompted to format the card. Never format the card in response to this prompt, as doing so will erase all data on the card.
(exFAT is the file system used on SDXC memory cards.)
- Do not expose the memory card to water.
- Do not strike, bend or drop the memory card.
- Do not use or store the memory card under the following conditions:
 - High temperature locations such as in a car parked under the sun
 - Locations exposed to direct sunlight
 - Humid locations or locations with corrosive substances present
- If the memory card is used near areas with strong magnetization, or used in locations subject to static electricity or electrical noise, the data on the memory card may become damaged.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Do not disassemble or modify the memory card.
- The memory card may be hot just after it has been used for a long time. Be careful when you handle it.
- Memory card formatted with a computer is not guaranteed to operate with the product. Format the memory card using this product.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Do not press down hard when writing in the memo space on the memory card.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- If the write-protect switch or delete-protect switch of a memory card is set to the LOCK position, you cannot record or delete images. In this case, set the switch to the record position.
- To use a Memory Stick Micro media or microSD memory card with this product:
 - Be sure to insert the memory card into a dedicated adaptor. If you insert a memory card into the product without a memory card adaptor, you might not be able to remove it from the product.
 - When inserting a memory card into a memory card adaptor, be sure that the memory card is inserted in the correct direction and then insert it as far as it will go. If the card is not inserted properly, it may result in a malfunction.
- About Memory Stick PRO Duo media and Memory Stick PRO-HG Duo media:
 - This Memory Stick is equipped with MagicGate function. MagicGate is copyright protection technology that uses encryption technology.
Data recording/playback that requires MagicGate functions cannot be performed with this product.
 - High-speed data transfer using a parallel interface is supported.

Selecting which memory card to record to (Select Rec. Media)

Selects the memory card slot on which to record.

[Slot 1] is the default setting. If you do not intend to change the settings and will only use one memory card, use the slot 1.

1 MENU →  (Setup) → [Select Rec. Media] → desired setting.

Menu item details

Slot 1:

Selects media in the slot 1.

Slot 2:

Selects media in the slot 2.

Hint

- To record the same image on two memory cards at the same time or to sort recorded images onto two memory card slots by the image type (still image/movie), use [Recording Mode].

Note

- The slot 2 supports Memory Stick PRO Duo media and SD cards. The slot 1 supports SD cards only.

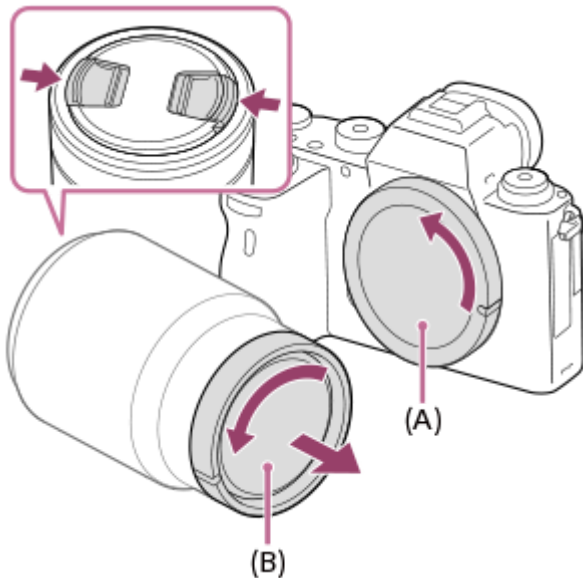
Related Topic

- [Recording Mode](#)
- [Memory cards that can be used](#)
- [Selecting which memory card to play back \(Select PB Media\)](#)

Attaching/removing a lens

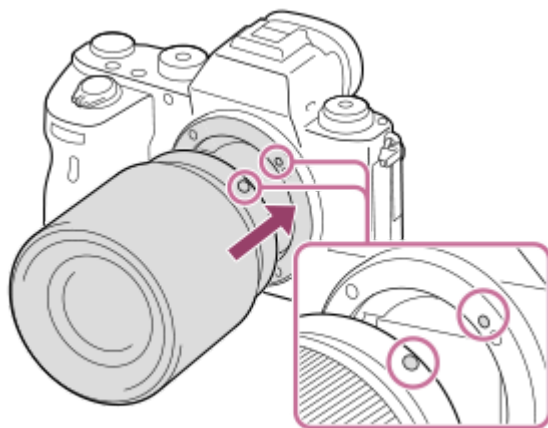
Turn off the camera before attaching or removing the lens.

- 1 Remove the body cap (A) from the camera and the rear lens cap (B) from the rear of the lens.



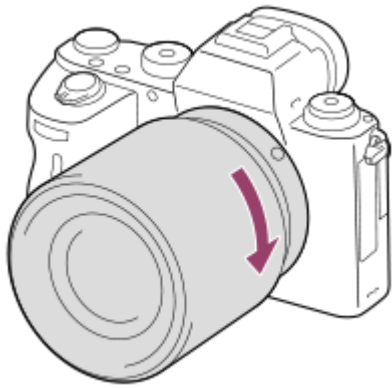
- When shooting, remove the front lens cap from the front of the lens.

- 2 Mount the lens by aligning the two white index marks (mounting indexes) on the lens and camera.



- Hold the camera with the lens mount facing down to prevent dust and debris from entering the camera.

- 3 While pushing the lens lightly toward the camera, turn the lens slowly in the direction of the arrow until it clicks into the locked position.

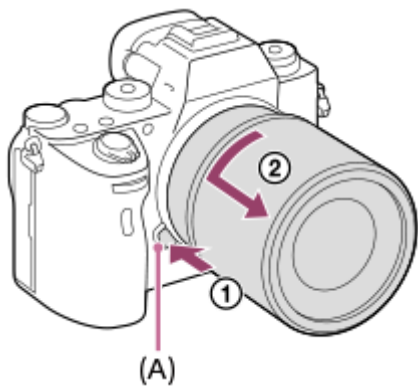


- Be sure to hold the lens straight when attaching it.

To remove the lens

Keep pressing the lens release button (A) and turn the lens in the direction of the arrow until it stops.

After removing the lens, attach the body cap to the camera and the lens caps to the front and rear of the lens to prevent dust and debris from entering the camera and lens.



Note

- When attaching/removing the lens, work quickly in a dust-free location.
- Do not press the lens release button when attaching a lens.
- Do not use force when attaching a lens.
- A Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). When using the Mount Adaptor, refer to the operating manual supplied with the Mount Adaptor.
- If you want to shoot full-frame images, use a full-frame size compatible lens.
- When you use a lens with a tripod socket, attach a tripod to the tripod socket of the lens to help balance the weight of the lens.
- When carrying the camera with a lens attached, hold both the camera and the lens firmly.
- Do not hold the part of the lens that is extended for zoom or focus adjustment.

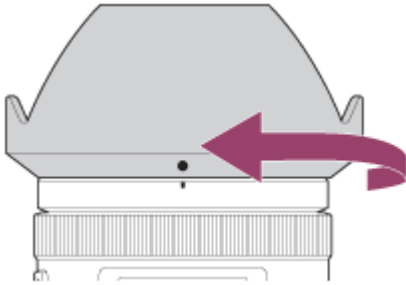
Related Topic

- [Attaching the lens hood](#)

Attaching the lens hood

We recommend that you use the lens hood to prevent light outside the shooting frame from affecting the image.

- 1 Match the shape of the lens hood mounting part and lens head, and turn the lens hood clockwise until it clicks.



Note

- Attach the lens hood properly. Otherwise, the lens hood may not have any effect or may be partially reflected in the image.
- When the lens hood is attached properly, the lens hood index (red line) matches the red index mark on the hood. (There may be no lens hood index on some lenses.)
- Remove the lens hood when using the flash as the lens hood blocks the flash light and may appear as a shadow on the image.
- To store the lens hood after shooting, attach the lens hood to the lens backward.

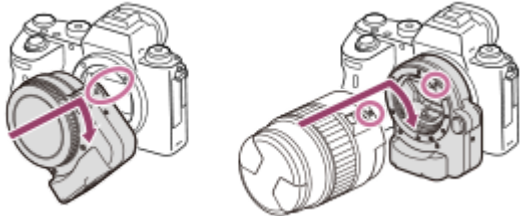
Related Topic

- [Attaching/removing a lens](#)


Interchangeable Lens Digital Camera
ILCE-9 α9

Mount Adaptor

Using a Mount Adaptor (sold separately), you can attach an A-mount lens (sold separately) to this product. For details, refer to the operating instructions supplied with the Mount Adaptor.



Note

- You may not be able to use the Mount Adaptor or auto-focus with certain lenses. Consult your Sony dealer or local authorized Sony service facility on compatible lenses.
- The LA-EA2 or LA-EA4 Mount Adaptor (sold separately) and the vertical grip (sold separately) are not designed to be attached at the same time. If you attach them at the same time, the space between the Mount Adaptor and the vertical grip will become narrow, making the camera difficult to hold.
- You cannot use the AF illuminator when using an A-mount lens.
- The sound of the lens and the product in operation may be recorded during movie recording. You can turn the sound off by selecting MENU →  2 (Camera Settings2) → [Audio Recording] → [Off].
- It may take a long time or may be difficult for the product to focus, depending on the lens used or the subject.

Related Topic

- [LA-EA1/LA-EA3 Mount Adaptor](#)
- [LA-EA2/LA-EA4 Mount Adaptor](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

LA-EA1/LA-EA3 Mount Adaptor

If you use the LA-EA1 Mount Adaptor (sold separately) or LA-EA3 Mount Adaptor (sold separately), the following functions are available.

Full frame shooting:

LA-EA1: Not available

LA-EA3: Available with full frame shooting-compatible lenses only

Autofocus:

Available with SAM/SSM lens only

AF system:

Phase Detection AF/Contrast AF

AF/MF select:

Can be changed using the operating switch on the lens.


Focus Mode:

Single-shot AF/Continuous AF*


* This setting is unavailable when [ AF System] is set to [Contrast AF].

- When using a Mount Adaptor and the camera is set to movie mode, the Auto Focus only works when the shutter button is pressed halfway down or when the [AF On] function is active.
- When using a Mount Adaptor in movie mode, adjust the aperture manually.

Available focus area:

When [ AF System] is set to [Phase Detection AF]:

[Wide]/[Center]/[Flexible Spot]

When [ AF System] is set to [Contrast AF]:

[Wide]/[Zone]/[Center]/[Flexible Spot]/[Expand Flexible Spot]

SteadyShot:

In-body

Related Topic

- [Focus Area](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

LA-EA2/LA-EA4 Mount Adaptor

If you use the LA-EA2 Mount Adaptor (sold separately) or LA-EA4 Mount Adaptor (sold separately), the following functions are available.

Full frame shooting:

LA-EA2: Not available

LA-EA4: Available with full frame shooting-compatible lenses only

Autofocus:

Available

AF system:

Phase Detection AF, which is controlled by the dedicated AF sensor inside the Mount Adaptor

AF/MF select:

Lenses that do not support DMF (with a focus mode switch): Can be changed using the focus mode switch on the lens.

Lenses that support DMF (with a focus mode switch): Can be changed using the focus mode switch on the lens. When the focus mode switch on the lens is set to AF, you can change the focusing method by operating the camera.

Other lenses (without a focus mode switch): Can be changed by operating the camera.

Focus Mode:

Single-shot AF/Continuous AF/DMF*

* Only available when using lenses that support Direct Manual Focus.

- Even if [Priority Set in AF-S] is set to [Balanced Emphasis], it will temporarily switch to [AF].
- Even if [Priority Set in AF-C] is set to [Balanced Emphasis], it will temporarily switch to [Release].


Available focus area:

Wide/Center/Flexible Spot/Lock-on AF


SteadyShot:

In-body

Continuous shooting using a Mount Adaptor


When a Mount Adaptor is attached to the camera, the auto-focusing method during continuous shooting varies depending on the settings for [Cont. Shooting] and [ Shutter Type].

When using the LA-EA1 Mount Adaptor (sold separately), LA-EA2 Mount Adaptor (sold separately) or LA-EA4 Mount Adaptor (sold separately)

	 Shutter Type	
	Mechanical Shut.	Auto/Electronic Shut.
Continuous Shooting: Hi	The focus is locked to the setting in the first shot.	
Continuous Shooting: Mid		
Continuous Shooting: Lo	The focus continuously tracks the subjects.	

When using the LA-EA3 Mount Adaptor (sold separately)

Update the firmware of the Mount Adaptor to the latest version in advance.

	 Shutter Type	
	Mechanical Shut.	Auto/Electronic Shut.
Continuous Shooting: Hi	The focus continuously tracks the subjects.*1	The focus continuously tracks the subjects.*1*2
Continuous Shooting: Mid	The focus continuously tracks the subjects.*1	
Continuous Shooting: Lo	The focus continuously tracks the subjects.	

*1 When the F-value is greater than F11, the focus does not track the subjects. The focus is locked to the setting in the first shot.

*2 The continuous shooting speed varies depending on the [Focus Mode] setting.
[Single-shot AF]/[DMF]/[Manual Focus]: Maximum of 20 images per second (the focus is locked to the setting in the first shot).
[Continuous AF]: Maximum of 10 images per second

Note

- When you are using a Mount Adaptor, you cannot perform blackout-free continuous shooting in [Continuous Shooting: Lo] mode.

Related Topic

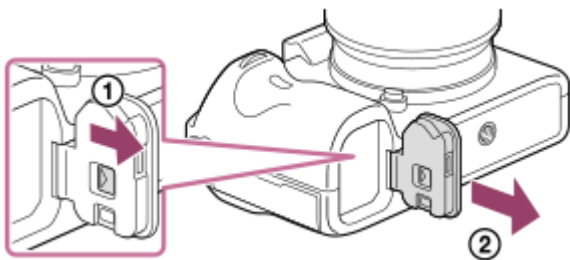
- [Using the electronic shutter](#)



Vertical grip

You can attach a vertical grip (sold separately) to this product and record vertically oriented images. When attaching the vertical grip, remove the battery cover in advance. For details, refer to the operating instructions for the vertical grip.

How to remove the battery cover

Slide the battery cover release lever of this product in the direction of the arrow.
The shaft of the battery cover will be stored inside the battery cover.



- You can attach the removed battery cover to the vertical grip so that you do not lose it.
- When a vertical grip is attached to this product, the battery remaining is displayed as **1**  **2** .

How to attach the battery cover

Slide the battery cover release lever and align the battery cover hinge with the battery cover shaft hole to attach the battery cover.

Hint

- The battery pack inside the vertical grip can be charged while the vertical grip is attached to the camera. Turn off the camera and connect the camera to the AC Adaptor (supplied) using the micro USB cable (supplied) then connect the AC Adaptor to the wall outlet (wall socket).

Note

- The LA-EA2/LA-EA4 Mount Adaptor (sold separately) and the vertical grip are not designed to be attached at the same time. If you attach them at the same time, the space between the Mount Adaptor and the vertical grip will become narrow, making the camera difficult to hold.

Setting language, date and time

The setting screen for language, date and time is displayed automatically when you turn on this product for the first time, initialize this product or when the internal rechargeable backup battery has discharged.

- 1 Turn on the camera.
The language setting screen will appear and then setting screen for date and time will appear.
- 2 Select your language, and then press the center of the control wheel.
- 3 Check that [Enter] is selected on the screen, then press the center.
- 4 Select your desired geographic location, and then press the center.
- 5 Select a setting item using the top/bottom side of the control wheel or by turning the control wheel, then press the center.
- 6 Set [Daylight Savings], [Date/Time], and [Date Format] using the top/bottom/left/right sides, then press the center.
 - Midnight is indicated as 12:00 AM, and noon as 12:00 PM when you set [Date/Time].
 - Change the values using the top/bottom when you set [Date/Time].
- 7 Repeat steps 5 and 6 to set other items, then select [Enter] and press the center.


On maintaining the date and time

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or whether the battery pack is charged or discharged.

To charge the internal rechargeable backup battery, insert a charged battery pack into the camera, and leave the product for 24 hours or more with the power off.

If the clock resets every time the battery pack is charged, the internal rechargeable backup battery may be worn out. Consult your service facility.

Hint

- To set the date and time or geographic location again after the date and time setting is finished, select MENU →  (Setup) → [Date/Time Setup] or [Area Setting].

Note

- If the date and time setting is canceled halfway, the setting screen for the date and time appears every time you turn on the camera.
- This camera does not have a function for inserting the date on images. You can insert the date on images and then save and print them using PlayMemories Home (for Windows only).


Related Topic

- [Date/Time Setup](#)
- [Area Setting](#)
- [Using the control wheel](#)
- [PlayMemories Home](#)
- [Installing PlayMemories Home](#)

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In-Camera Guide

The [In-Camera Guide] displays descriptions of MENU items, Fn (Function) items, and settings. Assign the [In-Camera Guide] function to the desired key in advance using [Custom Key(Shoot.)].

- 1 MENU →  (Camera Settings2) → [Custom Key(Shoot.)] → desired key, then assign the [In-Camera Guide] function to the key.
 - The [In-Camera Guide] function cannot be assigned to some keys.
- 2 Select the MENU or Fn item of which you want to see descriptions, then press the button to which the [In-Camera Guide] function is assigned.

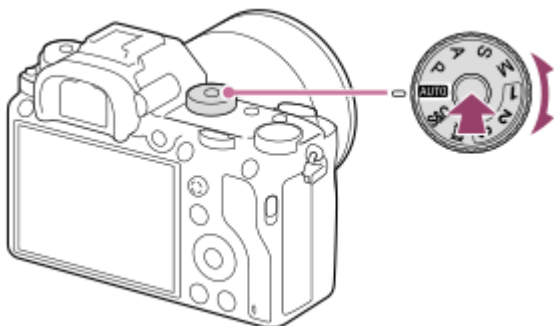
The descriptions of the item are displayed.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

Shooting still images

- 1 Select the desired shooting mode by turning the mode dial.



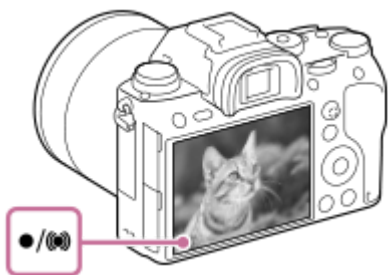
- Turn the mode dial while pressing the mode dial lock release button in the center of the mode dial.

- 2 Adjust the monitor angle, and hold the camera. Or look through the viewfinder and hold the camera.

- 3 When a zoom lens is mounted, enlarge images by rotating the zoom ring.

- 4 Press the shutter button halfway down to focus.

When the image is in focus, a beep sounds and the indicator (such as ●) lights up.



- 5 Press the shutter button fully down.

To shoot images with the focus locked on the desired subject (Focus-lock)

Shoots images with the focus locked on the desired subject in auto focus mode.

1. Turn the focus mode dial to select AF-S (Single-shot AF).

- Turn the focus mode dial while holding down the focus mode dial lock release button.

2. Place the subject within the AF area and press the shutter button halfway down.




The focus is locked.

- If it is difficult to focus on the desired subject, set [Focus Area] to [Center] or [Flexible Spot].
3. Keep pressing the shutter button halfway down, and place the subject back in the original position to re-compose the shot.



4. Press the shutter button down fully to take the picture.

Hint

- When the product cannot focus automatically, the focus indicator flashes and the beep does not sound. Either re-compose the shot or change the focus setting. In [Continuous AF] mode,  lights up and the beep indicating that the focus has been achieved does not sound.

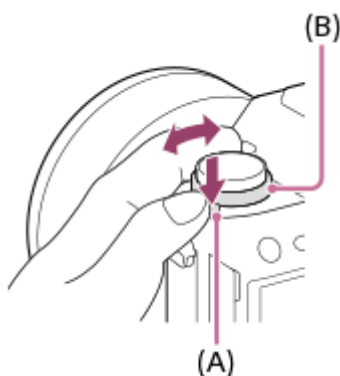
Related Topic

- [List of mode dial function](#)
- [Clear Image Zoom/Digital Zoom \(Zoom\)](#)
- [Playing back still images](#)
- [Auto Review](#)
- [Focus Mode](#)
- [Focus Area](#)

Focus Mode

Selects the focus method to suit the movement of the subject.

- 1 Turn the focus mode dial (B) while pressing the focus mode dial lock release button (A) and select the desired mode.



Setting details

AF-S (Single-shot AF):

The product locks the focus once focusing is complete. Use this when the subject is motionless.

AF-C (Continuous AF):

The product continues to focus while the shutter button is pressed and held halfway down. Use this when the subject is in motion. In [Continuous AF] mode, there is no beep when the camera focuses.

DMF (DMF):

You can make fine adjustments manually after performing auto focusing, letting you focus on a subject more quickly than when using the manual focus from the beginning. This is convenient in situations such as macro shooting.

MF (Manual Focus):

Adjusts the focus manually. If you cannot focus on the intended subject using auto focus, use manual focus.

Focus indicator

● (lit):

The subject is in focus and the focus is locked.

● (flashing):

The subject is not in focus.

⦿ (lit):

The subject is in focus. The focus will be adjusted continuously according to the movements of the subject.

⦿ (lit):

Focusing is in progress.

Subjects on which it is difficult to focus using auto focus

- Dark and distant subjects
- Subjects with poor contrast
- Subjects seen through glass
- Fast-moving subjects
- Reflective light or shiny surfaces
- Flashing light
- Back-lit subjects
- Continuously repetitive patterns, such as the facades of buildings

- Subjects in the focusing area with different focal distances

Hint

- In [Continuous AF] mode, you can lock the focus by pressing and holding the button that has been assigned the [Focus Hold] function.

Note

- When [Continuous AF] is set, the angle of view may change little by little while focusing. This does not affect the actual recorded images.
- Even if the focus mode dial is set to AF-S or DMF, the focus mode will switch to [Continuous AF] when shooting movies or when the mode dial is set to **S&Q**.

Related Topic

- [Direct manual focus \(DMF\)](#)
- [Manual Focus](#)
- [MF Assist \(still image\)](#)

Focus Area

Selects the focusing area. Use this function when it is difficult to focus properly in the auto focus mode.

1 MENU →  1 (Camera Settings1) → [Focus Area] → desired setting.

Menu item details

 Wide :

Focuses on a subject covering the whole range of the screen automatically. When you press the shutter button halfway down in the still image shooting mode, a green frame is displayed around the area that is in focus.

 Zone :

Select a zone on the monitor on which to focus, and the product will automatically select a focus area.

 Center :

Focuses automatically on a subject in the center of the image. Use together with the focus-lock function to create the composition you want.

 Flexible Spot :

Allows you to move the focusing frame to a desired point on the screen and focus on an extremely small subject in a narrow area.

 Expand Flexible Spot :

If the product cannot focus on a single selected point, it uses focus points around the flexible spot as a secondary priority area for focusing.

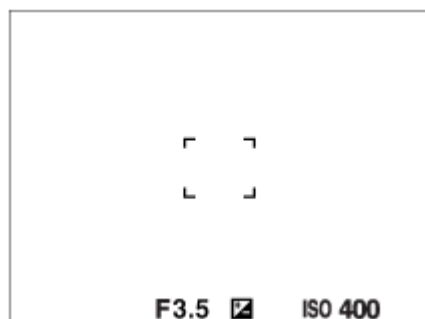
     Lock-on AF :

When the shutter button is pressed and held halfway down, the product tracks the subject within the selected autofocus area. This setting is available only when the [Focus Mode] is set to [Continuous AF]. Point the cursor at [Lock-on AF] on the [Focus Area] setting screen, and then select the desired area to start tracking using the left/right sides of the control wheel. You can also move the tracking start area to the desired point by designating the area as a zone, flexible spot or expand flexible spot.

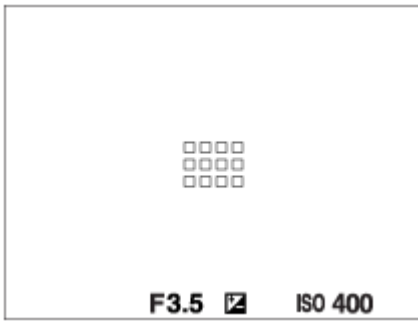
Examples of the focusing frame display

The focusing frame differs as follows depending on the shooting mode.

When focusing with the phase detection AF or contrast AF

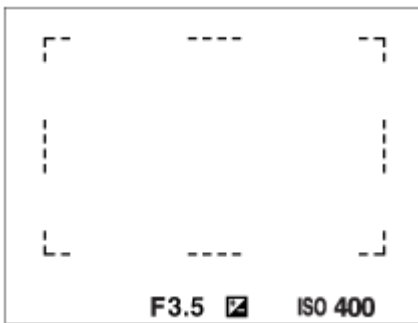


When focusing with the phase detection AF



- When you attach an A-mount lens with a Mount Adaptor (LA-EA1 or LA-EA3) (sold separately) and [AF System] is set to [Phase Detection AF], the focusing frame for “When focusing with the phase detection AF” may be displayed.

When focus is achieved automatically based on the whole range of the monitor



- When you use a zoom function other than the optical zoom, the [Focus Area] setting is disabled and the focusing frame is shown by the dotted line. The AF operates with priority on and around the center area.

To move the focus area

- You can move the focus area in [Flexible Spot], [Expand Flexible Spot], or [Zone] by operating the multi-selector. If you assign [Focus Standard] to the center of the multi-selector beforehand, you can move the focusing frame back to the center of the monitor by pressing the center of the multi-selector.
- You can move the focusing frame quickly by touching and dragging it on the monitor. Set [Touch Operation] to [On] beforehand.

Hint

- In the default settings, [Focus Area] is assigned to the C2 button.

Note

- [Focus Area] is locked to [Wide] in the following situations:
 - [Intelligent Auto]
- The focus area may not light up during continuous shooting or when the shutter button is pressed all the way down at once.
- When the mode dial is set to (Movie) or **S&Q** or during movie shooting, [Lock-on AF] cannot be selected as the [Focus Area].

Related Topic




- [Touch Operation](#)
- [Adjusting the focus area settings to the camera's orientation \(horizontal/vertical\) \(Sw. V/H AF Area\)](#)
- [Registering the current focus area \(AF Area Regist.\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Phase detection AF

When there are phase detection AF points within the auto focus area, the product uses the combined autofocus of the phase detection AF and contrast AF.

Note

- Phase detection AF is available only when an applicable lens is attached. If you use a lens that does not support phase detection AF, you cannot use [ AF Track Sens], [ AF Track Sens] or [ AF drive speed]. Also, even if you use a previously purchased applicable lens, the phase detection AF might not function unless you update the lens.


Related Topic

- [AF System \(still image\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Focus Standard

If you assign [Focus Standard] to the desired custom key, you can recall useful functions such as focusing on a subject in the center of the screen automatically in accordance with the focus area settings.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → desired button, then assign the [Focus Standard] function to the button.
- 2 Press the key to which [Focus Standard] is assigned.
 - What you can do by pressing the key varies depending on the settings for [Focus Area] and [Center Lock-on AF].

When [Focus Area] is set to [Zone], [Flexible Spot] or [Expand Flexible Spot]:
Pressing the key moves the focusing frame back to the center.

When [Focus Area] is set to [Wide] or [Center]:

- When [Center Lock-on AF] is set to [On], [Center Lock-on AF] is activated by pressing the key. The camera detects the subject positioned in the center of the screen and starts tracking by pressing the center of the control wheel.
- When [Center Lock-on AF] is set to [Off], the camera focuses on the center point.

Note

- You cannot set the [Focus Standard] function to [Left Button], [Right Button] or [Down Button].


Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Focus Area](#)
- [Center Lock-on AF](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Focus Settings

Configures the focus functions using the front dial/rear dial or the control wheel.

- 1 MENU →  1 (Camera Settings1) → [Focus Settings].
- 2 Perform settings using the front/rear dial or control wheel.

When the focus mode is set to auto focus or Direct Manual Focus

You can adjust the focus area settings and the position of the focusing frame. The focusing frame can be moved only when the [Focus Area] is set to the following:

- [Zone]
- [Flexible Spot]
- [Expand Flexible Spot]

Front dial: Moves the focusing frame up/down.

Rear dial: Moves the focusing frame right/left.

Control wheel: Selects the focus area.

When the focus mode is set to Manual Focus

You can set the area to be magnified when focusing manually.

Front dial: Moves the area to be magnified up/down.



Rear dial: Moves the area to be magnified right/left.

Control wheel: Moves the area to be magnified up/down.

Interchangeable Lens Digital Camera
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Adjusting the focus area settings to the camera's orientation (horizontal/vertical) (Sw. V/H AF Area)

You can set whether to switch the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical). This function is useful when shooting scenes for which you have to change the camera position frequently, such as portraits or sports scenes.

1 MENU →  1 (Camera Settings 1) →  Sw. V/H AF Area → desired setting.

Menu item details

Off:

Does not switch the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical).

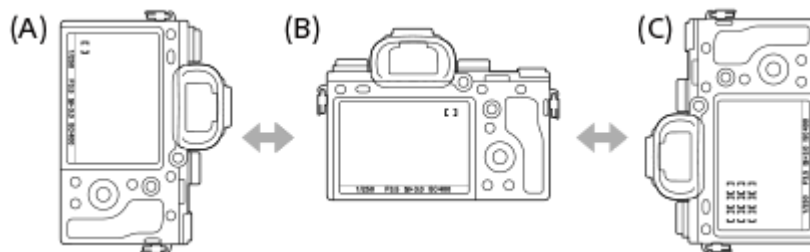
AF Point Only:

Switches the position of the focusing frame according to the orientation of the camera (horizontal/vertical). The [Focus Area] is fixed.

AF Point + AF Area:

Switches both the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical).



An example when [AF Point + AF Area] is selected



- (A) Vertical: [Flexible Spot] (Upper left corner)
- (B) Horizontal:[Flexible Spot] (Upper right corner)
- (C) Vertical:[Zone] (Lower left corner)

- Three camera orientations are detected: horizontal, vertical with the side of the shutter button facing up, and vertical with the side of the shutter button facing down.

Note

- If the setting for  Sw. V/H AF Area is changed, the focus settings for each camera orientation will not be retained.
- The [Focus Area] and the position of the focusing frame will not change even when  Sw. V/H AF Area is set to [AF Point + AF Area] or [AF Point Only] in the following situations:
 - When the shooting mode is set to [Intelligent Auto], [Movie], or [S&Q Motion]
 - While the shutter button is pressed halfway down
 - During movie shooting
 - While using the digital zoom function
 - While the auto-focusing is activated
 - When [Focus Settings] are activated
 - During continuous shooting
 - During the countdown for the self-timer
 - When [Focus Magnifier] is activated

- When you shoot images right after the power is turned on and the camera is vertical, the first shot is taken with the horizontal focus setting or with the last focus setting.
- The orientation of the camera cannot be detected when the lens is facing up or down.

Related Topic


- [Focus Area](#)

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Interchangeable Lens Digital Camera
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AF/MF control

You can easily switch the focusing mode from auto to manual and vice versa while shooting without changing your holding position.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → desired button → [AF/MF Control Hold] or [AF/MF Ctrl Toggle].

Menu item details

AF/MF Control Hold :

Switches the focusing mode while the button is held down.

AF/MF Ctrl Toggle :

Switches the focusing mode until the button is pressed again.

Note

- You cannot set the [AF/MF Control Hold] function to [Left Button], [Right Button] or [Down Button] of the control wheel.



Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

AF w/ shutter (still image)

Selects whether to focus automatically when you press the shutter button halfway down. Select [Off] to adjust the focus and the exposure separately.

1 MENU →  1 (Camera Settings1) → [ AF w/ shutter] → desired setting.

Menu item details

On:




The auto focus operates when you press the shutter button halfway down.

Off:

The auto focus does not operate even if you press the shutter button halfway down.

Useful method to micro-adjust the focus

When an A-mount lens is attached, activating the auto focus function with a button other than the shutter button lets you focus more precisely in combination with manual focusing.

1. Set [ AF w/ shutter] to [Off].
2. MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → assign the [Focus Magnifier] functions to the desired keys.
3. Set [ Eye-Start AF] to [Off] to avoid auto focusing when you look through the viewfinder.
4. Press the AF-ON button to focus.
5. Press the key to which the [Focus Magnifier] function is assigned, and then rotate the focus ring for micro-adjustments of the focus.
6. Press the shutter button fully down to shoot the image.

Related Topic





- [AF On](#)
- [Eye-Start AF \(still image\)](#)
- [Pre-AF \(still image\)](#)
- [Focus Magnifier](#)

AF On

You can focus without pressing the shutter button halfway down. The settings for the focus mode dial will be applied.

- 1 Press the AF-ON (AF On) button while shooting in autofocus mode.

Hint


- Set [ AF w/ shutter] to [Off] when you do not want to perform auto focusing using the shutter button.
- Set [ AF w/ shutter], [ Pre-AF], and [ Eye-Start AF] to [Off] to focus at a specific shooting distance predicting the position of the subject.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [AF w/ shutter \(still image\)](#)
- [Pre-AF \(still image\)](#)
- [Eye-Start AF \(still image\)](#)

Eye AF


The camera focuses on the subject's eyes while you keep the button pressed.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → desired key, then assign the [Eye AF] function to the key.
- 2 Point the camera at a person's face, and press the button to which you have assigned the [Eye AF] function.
- 3 Press the shutter button while pressing the button.

Hint

- When the camera focuses on the eyes, a detection frame is displayed over the eyes. If the focus mode is set to [Single-shot AF], the frame will disappear after a period of time.

Note




- If the camera cannot detect a person's face, you cannot use [Eye AF].
- Depending on the circumstances, you cannot use [Eye AF] such as when [Focus Mode] is set to [Manual Focus].
- The [Eye AF] function may not function very well in the following situations:
 - When the person is wearing sunglasses.
 - When the front hair covers the person's eyes.
 - In low-light or back-lit conditions.
 - When the eyes are closed.
 - When the person is in the shade.
 - When the person is out of focus.
 - When the person is moving too much.
- If the person is moving too much, the detection frame may not display correctly over their eyes.
- When the mode dial is set to  (Movie) or **S&Q**, or during movie recording, [Eye AF] is unavailable.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Face Detection](#)

AF in Focus Mag. (still image)




You can focus on the subject more accurately using auto-focus by magnifying the area where you want to focus. While the magnified image is displayed, you can focus on a smaller area than the flexible spot.

- 1 MENU →  1 (Camera Settings1) → [ AF in Focus Mag.] → [On].
- 2 MENU →  1 (Camera Settings1) → [Focus Magnifier].
- 3 Magnify the image by pressing the center of the multi-selector, and then adjust the position by pressing the multi-selector up/down/left/right.
 - The magnification scale changes each time you press the center.
- 4 Press the shutter button halfway down to focus.
 - The focus will be achieved at point of **+** in the center of the screen.
- 5 Press the shutter button all the way down to shoot.
 - The camera exits the magnified display after shooting.

Hint

- Use of a tripod is recommended to accurately identify the location you want to magnify.
- You can check the auto-focusing result by magnifying the displayed image. If you want to readjust the focus position, adjust the focus area on the magnified screen and then press the shutter button halfway down.

Note

- If you enlarge an area at the edge of the screen, the camera may not be able to focus.
- The exposure and white balance cannot be adjusted while the displayed image is being magnified.
- [ AF in Focus Mag.] is unavailable in the following situations:
 - During movie shooting
 - When [Focus Mode] is set to [Continuous AF].
 - When using a Mount Adaptor (sold separately).
- While the displayed image is being magnified, the following functions are unavailable:
 - [Eye AF]
 - [Center Lock-on AF]
 - [ Eye-Start AF]
 - [ Pre-AF]
 - [Face Detection]

Related Topic


- [Focus Magnifier](#)

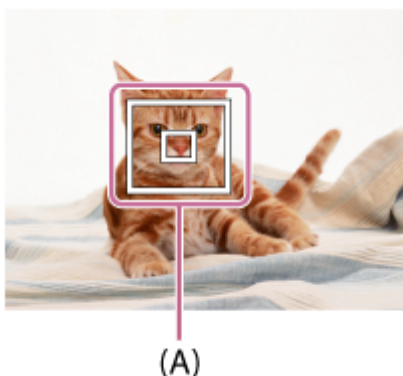
- Custom Key(Shoot.)/Custom Key(PB)

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Center Lock-on AF

When you press the center of the control wheel, the camera detects the subject positioned in the center of the screen and continues to track the subject.

- 1 MENU →  1 (Camera Settings 1) → [Center Lock-on AF] → [On].
- 2 Align the target frame (A) over the subject and press the center of the control wheel.
 - Press the center again to stop tracking.





- 3 Press the shutter button fully down to shoot the image.

Hint

- If you assign the [Focus Standard] function to the desired key using [Custom Key(Shoot.)], you can activate [Center Lock-on AF] by pressing the key when [Center Lock-on AF] is set to [On] and [Focus Area] is set to [Wide] or [Center]. You can also detect the subject again by pressing the key to which [Focus Standard] is assigned.
- You can select the subject to be tracked by touch operation when shooting using the monitor. Set [Touch Operation] to [On].

Note

- The [Center Lock-on AF] function may not function very well in the following situations:
 - The subject is moving too quickly.
 - The subject is too small, or too large.
 - The contrast between the subject and the background is poor.
 - It is dark.
 - The ambient light changes.
- Lock-on AF does not work in the following situations:
 - When shooting in Manual Focus mode.
 - When using the digital zoom
 - When [ Record Setting] is set to [120p]/[100p].
 - When [ Frame Rate] is set to [120fps]/[100fps].

Registering the current focus area (AF Area Regist.)

You can move the focusing frame to a preassigned position temporarily using a custom key. This function is useful when shooting scenes in which the subject's movements are predictable; for example, sports scenes. With this function, you can switch the focus area quickly according to the situation.

How to register focus area

1. MENU → 1 (Camera Settings1) → [AF Area Regist.] → [On].
2. Set the focus area to the desired position and then hold down the Fn (Function) button.

How to call up the registered focus area

1. MENU → 2 (Camera Settings2) → [Custom Key(Shoot.)] → desired key, then select [Regist. AF Area hold].
2. Set the camera to the shooting mode, hold down the key to which [Regist. AF Area hold] has been assigned and then press the shutter button to shoot images.

Hint

- When a focusing frame is registered using [AF Area Regist.], the registered focusing frame flashes on the monitor.
- If you assign [Regist AF Area toggle] to a custom key, you can use the registered focusing frame without holding down the key.
- If [Reg. AF Area+AF On] is assigned to a custom key, auto focusing using the registered focusing frame is performed when the key is pressed.

Note

- A focus area cannot be registered in the following situations:
 - The mode dial is set to either (Movie) or **S&Q**
 - While [Touch Focus] is being performed
 - While using the digital zoom function
 - While [Lock-on AF] is being performed
 - While focusing
 - While performing focus lock
- You cannot call up the registered focus area in the following situations:
 - The mode dial is set to either **AUTO** (Auto Mode), (Movie) or **S&Q**
- When [AF Area Regist.] is set to [On], the [Lock Operation Parts] setting is locked to [Off].

Related Topic

- [Focus Area](#)
- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

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Deleting a registered AF Area (Del. Reg. AF Area)

Deletes the focusing frame position that was registered using [ AF Area Regist.].

① MENU →  1 (Camera Settings 1) → [ Del. Reg. AF Area].

Related Topic

- [Registering the current focus area \(AF Area Regist.\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Pre-AF (still image)

The product automatically adjusts focus before you press the shutter button halfway down.

1 MENU →  1 (Camera Settings1) → [ Pre-AF] → desired setting.

Menu item details


On:

Adjusts focus before you press the shutter button halfway down.

Off:

Does not adjust focus before you press the shutter button halfway down.



Note

- [ Pre-AF] is available only when an E-mount lens is mounted.

Interchangeable Lens Digital Camera
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Eye-Start AF (still image)

Sets whether or not to use autofocus when you look through an Electronic Viewfinder.

1 MENU →  (Camera Settings1) → [ Eye-Start AF] → desired setting.

Menu item details


On:

Auto focusing starts when you look through the Electronic Viewfinder.

Off:

Auto focusing does not start when you look through the Electronic Viewfinder.



Hint

- [ Eye-Start AF] is available when an A-mount lens and a Mount Adaptor (LA-EA2, LA-EA4) (sold separately) are attached.

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AF Track Sens (still image)

You can select the AF track sensitivity when the subject goes out of focus in still image mode.

① MENU →  1 (Camera Settings1) → [ AF Track Sens] → desired setting.

Menu item details

5(Responsive) / 4 / 3(Standard) / 2 / 1(Locked on):


Select [5(Responsive)] to focus responsively on subjects at different distances.

Select [1(Locked on)] to keep the focus on a specific subject when other things are crossing in front of the subject.

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Priority Set in AF-S

Sets whether to release the shutter even if the subject is not in focus when [Focus Mode] is set to [Single-shot AF] or [DMF] and the subject is remaining still.

1 MENU →  1(Camera Settings1) → [Priority Set in AF-S] → desired setting.

Menu item details

AF:

Prioritizes focusing. The shutter will not be released until the subject is in focus.

Release:

Prioritizes the shutter's release. The shutter will be released even if the subject is out of focus.

Balanced Emphasis:

Shoots with a balanced emphasis on both focusing and shutter release.


Related Topic

- [Focus Mode](#)
- [Priority Set in AF-C](#)

Interchangeable Lens Digital Camera
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Priority Set in AF-C

Sets whether to release the shutter even if the subject is not in focus when the continuous AF is activated and the subject is in motion.

1 MENU →  1(Camera Settings1) → [Priority Set in AF-C] → desired setting.

Menu item details

AF:

Prioritizes focusing. The shutter will not be released until the subject is in focus.

Release:

Prioritizes the shutter's release. The shutter will be released even if the subject is out of focus.

Balanced Emphasis:

Shoots with a balanced emphasis on both focusing and shutter release.



Related Topic

- [Focus Mode](#)
- [Priority Set in AF-S](#)

Interchangeable Lens Digital Camera
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AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. In the time between pressing the shutter button halfway down and locking the focus, the red AF illuminator lights up to allow the camera to focus easily.

1 MENU →  1 (Camera Settings1) →  AF Illuminator] → desired setting.

Menu item details


Auto:

The AF illuminator lights up automatically in dark surroundings.

Off:

Does not use the AF illuminator.


Note

- You cannot use [ AF Illuminator] in the following situations:
 - When the shooting mode is [Movie] or [S&Q Motion].
 - When the focus mode is set to [Continuous AF].
 - When [Focus Magnifier] is activated.
 - When a Mount Adaptor is attached.
- The AF illuminator emits a very bright light. Although there is no health hazard, do not look directly into the AF illuminator at close range.

Interchangeable Lens Digital Camera
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AF Area Auto Clear

Sets whether the focus area should be displayed all the time or should disappear automatically shortly after focus is achieved.

1 MENU →  1 (Camera Settings 1) → [AF Area Auto Clear] → desired setting.

Menu item details

On:

The focus area disappears automatically shortly after focus is achieved.


Off:

The focus area is displayed all the time.

Interchangeable Lens Digital Camera
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Disp. cont. AF area

You can set whether or not to display the area that is in focus when [Focus Area] is set to [Wide] or [Zone], in [Continuous AF] mode.

1 MENU →  1 (Camera Settings 1) → [Disp. cont. AF area] → desired setting.

Menu item details


On:

Displays the focus area that is in focus.

Off:

Does not display the focus area that is in focus.


Note

- When [Focus Area] is set to one of the following, the focusing frames in the area that is in focus turn green:
 - [Center]
 - [Flexible Spot]
 - [Expand Flexible Spot]
- When an A-mount lens and a Mount Adaptor (LA-EA1/LA-EA3) (sold separately) are mounted on the camera and [ AF System] is set to [Phase Detection AF], [Disp. cont. AF area] is always turned on regardless of the [Focus Area] settings.

AF Micro Adj.

Allows you to adjust the auto-focusing position and register an adjusted value for each lens when using A-mount lenses with an LA-EA2 or LA-EA4 Mount Adaptor (sold separately).

Use this function only when adjustments are needed. Note that the auto focus function may not be performed at a proper position when using this adjustment.

- 1 MENU →  1 (Camera Settings1) → [AF Micro Adj.].
- 2 Select [AF Adjustment Set.] → [On].
- 3 [amount] → desired value.
 - The larger the value you select, the farther the autofocused position will be from the product. The smaller the value you select, the closer the autofocused position will be to the product.

Hint

- It is recommended that you adjust the position under actual shooting conditions. Set [Focus Area] to [Flexible Spot] and use a bright subject with high contrast when you adjust.



Note

- When you attach a lens for which you have already registered a value, the registered value appears on the screen. [±0] appears for lenses for which a value has not yet been registered.
- If [-] is displayed as the value, then a total of 30 lenses have been registered and no new lens can be registered. To register a new lens, attach a lens for which the registration can be erased, and set its value to [±0], or reset the values of all the lenses using [Clear].
- The [AF Micro Adj.] supports Sony, Minolta, or Konica-Minolta lenses. If you perform [AF Micro Adj.] with lenses other than the supported lenses, the registered settings for the supported lenses may be affected. Do not perform [AF Micro Adj.] with an unsupported lens.
- You cannot set [AF Micro Adj.] individually for a Sony, Minolta, and Konica-Minolta lens of the same specification.

Interchangeable Lens Digital Camera
ILCE-9 α9

AF System (still image)

Sets the focus detection system (Phase Detection AF/Contrast AF) when you attach an A-mount lens using an LA-EA1/LA-EA3 Mount Adaptor (sold separately).

1 MENU →  1 (Camera Settings 1) → [ AF System] → desired setting.

Menu item details




Phase Detection AF:

Focuses with Phase Detection AF. The focusing speed is very fast.

Contrast AF:

Always focuses with Contrast AF. The focusing speed is slower. Use when you cannot focus with [Phase Detection AF].

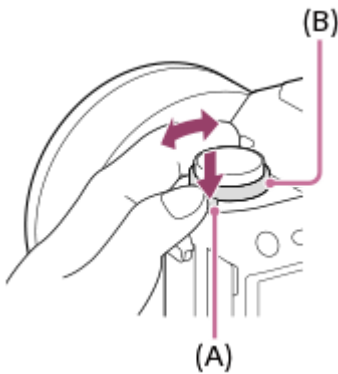
Note

- When [ AF System] is set to [Contrast AF], [Continuous AF] under [Focus Mode] is unavailable.
- The following functions are unavailable when [ AF System] is set to [Phase Detection AF]:
 - [Zone], [Expand Flexible Spot], and [Lock-on AF] in [Focus Area]
 - [Eye AF]
- When [ AF System] is set to [Phase Detection AF], [Priority Set in AF-S] will temporarily switch to [AF] even if it is set to [Balanced Emphasis].

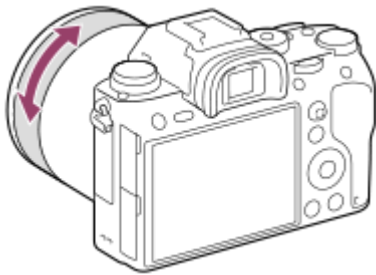
Manual Focus

When it is difficult to focus properly in the autofocus mode, you can adjust the focus manually.

- 1 Turn the focus mode dial (B) while pressing the focus mode dial lock release button (A) and select MF.



- 2 Rotate the focusing ring to achieve sharp focus.



- When you rotate the focusing ring, the focus distance is displayed on the screen. The focus distance is not displayed when the Mount Adaptor (sold separately) is attached.

- 3 Press the shutter button fully down to shoot an image.

Note

- When you use the viewfinder, adjust the diopter level to obtain the correct focus on the viewfinder.

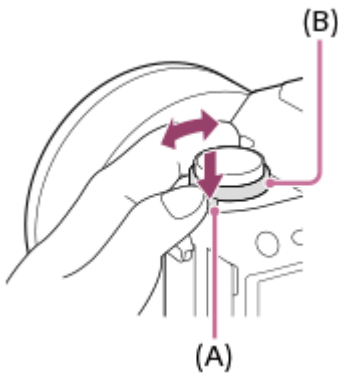
Related Topic

- [Focus Magnifier](#)
- [Peaking Level](#)
- [MF Assist \(still image\)](#)

Direct manual focus (DMF)

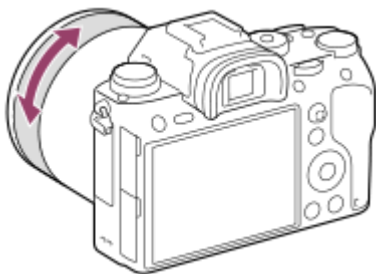
You can make fine adjustments manually after performing auto focusing, letting you focus on a subject more quickly than when using the manual focus from the beginning. This is convenient in situations such as macro shooting.

- 1 Turn the focus mode dial (B) while pressing the focus mode dial lock release button (A) and select DMF.



- 2 Press the shutter button halfway down to focus automatically.

- 3 Keep the shutter button pressed halfway down, and then rotate the focusing ring to achieve a sharper focus.



- When you rotate the focusing ring, the focus distance is displayed on the screen.
The focus distance is not displayed when the Mount Adaptor (sold separately) is attached.

- 4 Press the shutter button fully down to shoot an image.










Related Topic

- [Peaking Level](#)

Focus Magnifier

You can check the focus by enlarging the image before shooting.

Unlike with [ MF Assist], you can magnify the image without operating the focus ring.


- 1 MENU →  (Camera Settings 1) → [Focus Magnifier].
- 2 Press the center of the multi-selector to enlarge the image and select the area you want to enlarge by pressing the multi-selector up/down/left/right.
 - Each time you press the center, the magnification scale will change.
 - You can set the initial magnification by selecting MENU →  (Camera Settings 1) → [ Initial Focus Mag.].
- 3 Confirm the focus.
 - Press the  (Delete) button to bring the magnified position into the center of an image.
 - When the focus mode is [Manual Focus], you can adjust the focus while an image is magnified. If [ AF in Focus Mag.] is set to [Off], the [Focus Magnifier] function is canceled when the shutter button is pressed halfway down.
 - When the shutter button is pressed halfway down while an image is magnified during the auto-focusing, different functions are performed depending on the [ AF in Focus Mag.] setting.
 - When [ AF in Focus Mag.] is set to [On]: Auto-focusing is performed again.
 - When [ AF in Focus Mag.] is set to [Off]: The [Focus Magnifier] function is canceled.
 - You can set how long the image is to be shown magnified by selecting MENU →  (Camera Settings 1) → [Focus Magnif. Time].
- 4 Press the shutter button fully down to shoot the image.

To use the focus magnifier function by touch operation

You can magnify the image and adjust the focus by touching the monitor. Set [Touch Operation] to [On] beforehand.

When the focus mode is [Manual Focus], you can perform [Focus Magnifier] by double-tapping the area to focus on.

Hint

- While using the focus magnifier function, you can move the magnified area by dragging it on the touch panel.
- To exit the focus magnifier function, double-tap the monitor again. When [ AF in Focus Mag.] is set to [Off], the focus magnifier function is ended by pressing the shutter button halfway down.

Related Topic

- [MF Assist \(still image\)](#)
- [Focus Magnif. Time](#)
- [Initial Focus Mag. \(still image\)](#)
- [AF in Focus Mag. \(still image\)](#)

- Custom Key(Shoot.)/Custom Key(PB)
- Touch Operation

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MF Assist (still image)



Enlarges the image on the screen automatically to make manual focusing easier. This works in Manual Focus or Direct Manual Focus shooting.

- 1 MENU →  1 (Camera Settings1) → [ MF Assist] → [On].
- 2 Turn the focus ring to adjust the focus.
 - The image is enlarged. You can magnify images further by pressing the center of the control wheel.

Hint

- You can set how long the image is to be shown magnified by selecting MENU →  1 (Camera Settings1) → [Focus Magnif. Time].

Note


- You cannot use [ MF Assist] when shooting movies. Use the [Focus Magnifier] function instead.
- [ MF Assist] is not available when a Mount Adaptor is attached. Use the [Focus Magnifier] function instead.


Related Topic

- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Focus Magnif. Time](#)

Interchangeable Lens Digital Camera
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Focus Magnif. Time

Set the duration for which an image is to be magnified using the [ MF Assist] or [Focus Magnifier] function.

1 MENU →  1 (Camera Settings1) → [Focus Magnif. Time] → desired setting.

Menu item details

2 Sec:

Magnifies the images for 2 seconds.

5 Sec:

Magnifies the images for 5 seconds.

No Limit:

Magnifies the images until you press the shutter button.



Related Topic

- [Focus Magnifier](#)
- [MF Assist \(still image\)](#)

Interchangeable Lens Digital Camera
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Initial Focus Mag. (still image)

Sets the initial magnification scale when using [Focus Magnifier]. Select a setting that will help you frame your shot.

① MENU →  1 (Camera Settings1) → [ Initial Focus Mag.] → desired setting.

Menu item details

Full-frame shooting

x1.0:

Displays the image with the same magnification as the shooting screen.

x4.7:

Displays a 4.7-times enlarged image.

APS-C/Super 35mm size shooting

x1.0:


Displays the image with the same magnification as the shooting screen.

x3.1:

Displays a 3.1-times enlarged image.

Peaking Level

Enhances the outline of in-focus ranges using a specific color in Manual Focus or Direct Manual Focus shooting.

1 MENU →  1 (Camera Settings1) → [Peaking Level] → desired setting.

Menu item details

High:

Sets the peaking level to high.

Mid:

Sets the peaking level to middle.

Low:

Sets the peaking level to low.

Off:

Does not use the peaking function.

Note

- Since the product recognizes sharp areas as in focus, the effect of peaking differs, depending on the subject and lens.
- The outline of in-focus ranges is not enhanced on devices connected via HDMI.


Related Topic

- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Peaking Color](#)

Interchangeable Lens Digital Camera
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Peaking Color

Sets the color used for the peaking function in Manual Focus or Direct Manual Focus shooting.

1 MENU →  1 (Camera Settings1) → [Peaking Color] → desired setting.

Menu item details

Red:

Enhances outlines in red.

Yellow:

Enhances outlines in yellow.

White:

Enhances outlines in white.

Related Topic

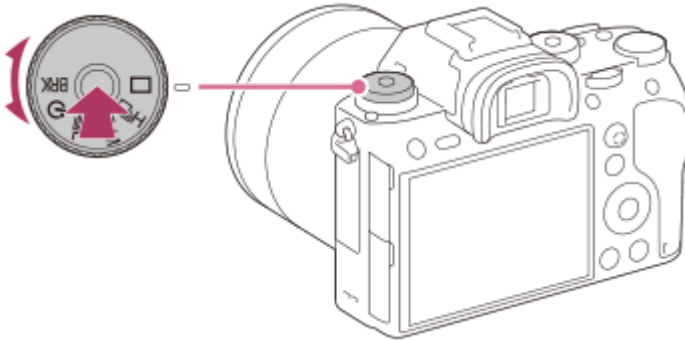
- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Peaking Level](#)

Drive Mode


Select the appropriate mode for the subject, such as single shooting, continuous shooting or bracketing shooting.




1 Select the desired drive mode by turning the drive mode dial.


- Turn the drive mode dial while holding down the drive mode dial lock release button.




Setting item details

 Single Shooting:
Normal shooting mode.

   Cont. Shooting:
Shoots images continuously while you press and hold down the shutter button.

 Self-timer:
Shoots an image using the self-timer after a designated number of seconds have elapsed since the shutter button was pressed.

BRK Bracket:
Shoots images using the bracketing function. The type of bracketing function can be set by MENU →  1 (Camera Settings 1) → [Bracket Settings] → [Bracket Type].

Related Topic




- [Cont. Shooting](#)
- [Self-timer](#)
- [Self-timer\(Cont\)](#)
- [Cont. Bracket](#)
- [Single Bracket](#)
- [WB bracket](#)
- [DRO Bracket](#)


Cont. Shooting

Shoots images continuously while you press and hold down the shutter button.

- 1 Turn the drive mode dial and select the desired mode.
 - Turn the drive mode dial while pressing the drive mode dial lock release button.

Setting item details

 H Continuous Shooting: Hi /  M Continuous Shooting: Mid /  L Continuous Shooting: Lo


	 Shutter Type	
	Mechanical Shut.	Auto/Electronic Shut.
Continuous Shooting: Hi	5 images per second at maximum ^{*1}	20 images per second at maximum ^{*1*2*3}
Continuous Shooting: Mid	5 images per second at maximum ^{*1}	10 images per second at maximum ^{*1}
Continuous Shooting: Lo	2.5 images per second at maximum	5 images per second at maximum ^{*1}

*1 When the F-value is greater than F11, the focus is locked to the setting in the first shot.

*2 When the Focus Mode is set to AF-C (Continuous AF), the speed of continuous shooting varies depending on the attached lens. For details, check the support page on compatible lenses.

*3 During uncompressed RAW shooting, 12 images are shot per second at maximum.

Hint

- To continuously adjust the focus and exposure during continuous shooting, set as follows:
 - [Focus Mode]: [Continuous AF]
 - [ AEL w/ shutter]: [Off] or [Auto]

Note


- Continuous shooting is unavailable in the following situations:
 - [Picture Effect] is set to [Rich-tone Mono].
 - [DRO/Auto HDR] is set to [Auto HDR].

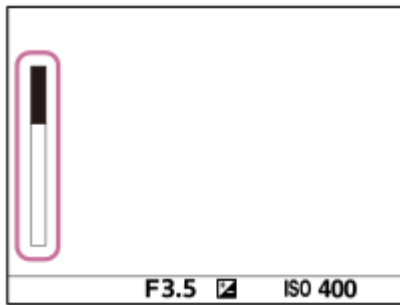
Related Topic

- [Displaying continuous shooting remaining time indicator \(Cont. Shoot. Length\)](#)
- [Focus Mode](#)
- [AEL w/ shutter \(still image\)](#)
- [Shutter Type \(still image\)](#)
- [Using the electronic shutter](#)

Displaying continuous shooting remaining time indicator (Cont. Shoot. Length)

Sets whether to display an indicator of the remaining time for which continuous shooting can be performed at the same shooting speed.

- 1 MENU →  2 (Camera Settings2) → [Cont. Shoot. Length] → desired setting.



Menu item details

Always Display:

Always displays the indicator when the drive mode is set to [Cont. Shooting].

Shoot.-Only Display:

Displays the indicator only while continuous shooting is performed.

Not Displayed:

Does not display the indicator.

Hint



- When the internal camera memory for buffering is full, "SLOW" will be displayed and the continuous shooting speed will decrease.

Related Topic

- [Cont. Shooting](#)

Self-timer




Shoots an image using the self-timer after a designated number of seconds have elapsed since the shutter button was pressed. Use the 5-second/10-second self-timer when you are going to be in the picture, and use the 2-second self-timer to reduce camera-shake caused by pressing the shutter button.

- 1 Select  (Self-timer) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Self-timer Type] → [Self-timer(Single)] → desired mode.
 - The setting screen for [Self-timer Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.



The self-timer lamp flashes, a beep sounds, and a picture is taken after the designated number of seconds have elapsed.

Menu item details

The mode determines the number of seconds until a picture is taken after the shutter button is pressed.

-  Self-timer(Single): 10 sec
-  Self-timer(Single): 5 sec
-  Self-timer(Single): 2 sec

Hint



- Press the shutter button again to stop the count of the self-timer.
- Select a drive mode other than  (Self-timer) by turning the drive mode dial to cancel the self-timer.
- Set [Audio signals] to [Off] to mute the beep sound during self-timer counting.
- To use the self-timer in bracket mode, select **BRK** (Bracket) by turning the drive mode dial, then select MENU →  1 (Camera Settings1) → [Bracket Settings] → [Selftimer during Brkt].

Related Topic

- [Audio signals](#)

Self-timer(Cont)







Shoots a designated number of images using the self-timer after a designated number of seconds have elapsed since the shutter button was pressed. You can choose the best from multiple shots.

- 1 Select  (Self-timer) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Self-timer Type] → [Self-timer(Cont)] → desired mode.
 - The setting screen for [Self-timer Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.


The self-timer lamp flashes, a beep sounds, and pictures are taken after the designated number of seconds has elapsed. The designated number of pictures are taken continuously.

Menu item details

For example, three images are shot when 10 seconds have elapsed after the shutter button is pressed when [Self-timer(Cont.): 10 Sec. 3 Img.] is selected.

-  Self-timer(Cont.): 10 Sec. 3 Img.
-  Self-timer(Cont.): 10 Sec. 5 Img.
-  Self-timer(Cont.): 5 Sec. 3 Img.
-  Self-timer(Cont.): 5 Sec. 5 Img.
-  Self-timer(Cont.): 2 Sec. 3 Img.
-  Self-timer(Cont.): 2 Sec. 5 Img.


Hint

- Press the shutter button again to stop the count of the self-timer.
- Select a drive mode other than  (Self-timer) by turning the drive mode dial to cancel the self-timer.

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Self-timer Type

When shooting with the self-timer, sets how many images are recorded and how many seconds elapse from when you press the shutter button until when the shutter is released.

- 1 MENU →  1 (Camera Settings1) → [Self-timer Type] → desired setting.
 - The setting screen for [Self-timer Type] can be displayed by pressing the Fn button.

Menu item details

Self-timer(Single):

Shoots one image using the self-timer (10 seconds / 5 seconds / 2 seconds).

Self-timer(Cont):


Shoots images continuously using the self-timer (3 images after 10 seconds / 5 images after 10 seconds / 3 images after 5 seconds / 5 images after 5 seconds / 3 images after 2 seconds / 5 images after 2 seconds).

Related Topic

- [Self-timer](#)
- [Self-timer\(Cont\)](#)

Cont. Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter. You can select an image that suits your purpose after recording.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → [Bracket Type] → [Cont. Bracket] → desired mode.
 - The setting screen for [Bracket Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.
 - The base exposure is set at the first shot.
 - Keep pressing and holding the shutter button until bracket shooting is finished.

Menu item details

For example, the camera shoots a total of three images continuously with an exposure value shifted by plus or minus 0.3 EV when [Cont. Bracket: 0.3EV 3 Image] is selected.

Note

- The last shot is shown on the auto review.
- When [ISO AUTO] is selected in [Manual Exposure] mode, the exposure is changed by adjusting the ISO value. If a setting other than [ISO AUTO] is selected, the exposure is changed by adjusting the shutter speed.
- When the exposure is compensated, the exposure is shifted based on the compensated value.
- Bracket shooting is unavailable in the following shooting modes:
 - [Intelligent Auto]
- When the flash is used, the product performs flash bracket shooting, which shifts the amount of flash light even if [Cont. Bracket] is selected. Press the shutter button for each image.


Related Topic

- [Bracket Settings](#)
- [Indicator during bracket shooting](#)

Single Bracket

Shoots multiple images while automatically shifting the exposure from base to darker and then to lighter. You can select the image that suits your purpose after recording.

Since a single picture is taken each time you press the shutter button, you can adjust the focus or the composition for each shot.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → [Bracket Type] → [Single Bracket] → desired mode.
 - The setting screen for [Bracket Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.
 - Press the shutter button for each image.

Menu item details

For example, when [Single Bracket: 0.3EV 3 Image] is selected, three images are shot one at a time with the exposure value shifted up and down in increments of 0.3 EV.

Note

- When [ISO AUTO] is selected in [Manual Exposure] mode, the exposure is changed by adjusting the ISO value. If a setting other than [ISO AUTO] is selected, the exposure is changed by adjusting the shutter speed.
- When the exposure is compensated, the exposure is shifted based on the compensated value.
- Bracket shooting is unavailable in the following shooting modes:
 - [Intelligent Auto]

Related Topic

- [Bracket Settings](#)
- [Indicator during bracket shooting](#)

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Indicator during bracket shooting

Viewfinder

Ambient light* bracketing
3 images shifted by 0.3 EV steps
Exposure compensation ± 0.0 EV

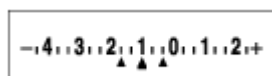


Monitor (Display All Info. or Histogram)

Ambient light* bracketing
3 images shifted by 0.3 EV steps
Exposure compensation ± 0.0 EV

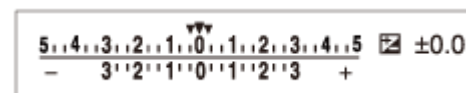


Flash bracketing
3 images shifted by 0.7 EV steps
Flash compensation -1.0 EV



Monitor (For viewfinder)

Ambient light* bracketing (upper indicator)
3 images shifted by 0.3 EV steps
Exposure compensation ± 0.0 EV



Flash bracketing (lower indicator)
3 images shifted by 0.7 EV steps
Flash compensation -1.0 EV



* Ambient light: A generic term for non-flash light including natural light, electric bulb and fluorescent lighting. Whereas the flash light blinks for a moment, ambient light is constant, so this kind of light is called "ambient light."


Note

- During bracket shooting, guides equal to the number of images to be shot are displayed over/under the bracket indicator.
- When you start single bracket shooting, the guides will disappear one by one as the camera records images.




WB bracket

Shoots a total of three images, each with different color tones according to the selected settings for white balance, color temperature and color filter.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → [Bracket Type] → [WB bracket] → desired mode.
 - The setting screen for [Bracket Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.

Menu item details

 White Balance Bracket: Lo:

Records a series of three images with small changes in the white balance (within the range of 10MK⁻¹*).

 White Balance Bracket: Hi:

Records a series of three images with large changes in the white balance (within the range of 20MK⁻¹*).

* MK⁻¹ is the unit that indicates the capability of color temperature conversion filters and indicates the same value as "mired."

Note


- The last shot is shown on the auto review.

Related Topic

- [Bracket Settings](#)

DRO Bracket

You can record a total of three images, each at a different degree of D-Range Optimizer value.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → [Bracket Type] → [DRO Bracket] → desired mode.
 - The setting screen for [Bracket Type] can be displayed by pressing the Fn button.
- 3 Adjust the focus and shoot the image.

Menu item details

 DRO Bracket: Lo:

Records a series of three images with small changes in the D-Range Optimizer value (Lv 1, Lv 2, and Lv 3).

 DRO Bracket: Hi:

Records a series of three images with large changes in the D-Range Optimizer value (Lv 1, Lv 3, and Lv 5).

Note

- The last shot is shown on the auto review.


Related Topic

- [Bracket Settings](#)

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Bracket Settings

You can set the type of bracket or the self-timer in bracket shooting mode, and the shooting order for exposure bracketing or white balance bracketing.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → desired setting.

Menu item details

Bracket Type:

Sets the type of bracket shooting.

(Cont. Bracket/Single Bracket/WB bracket/DRO Bracket)

Selftimer during Brkt:

Sets whether to use the self-timer during bracket shooting. Also sets the number of seconds until the shutter is released if using the self-timer.

(OFF/2 Sec/5 Sec/10 Sec)

Bracket order:

Sets the order of exposure bracketing and white balance bracketing.

(0→→+/-→0→+)

Related Topic

- [Cont. Bracket](#)
- [Single Bracket](#)
- [WB bracket](#)
- [DRO Bracket](#)

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Touch Operation

Sets whether or not to activate touch operations on the monitor.

1 MENU →  (Setup) → [Touch Operation] → desired setting.

Menu item details

On:

Activates the touch operation.

Off:


Deactivates the touch operation.

Related Topic

- [Touch Focus](#)



Touch Focus

You can select a subject on which to focus using touch operations in the still image and movie recording modes.

- 1 MENU →  (Setup) → [Touch Operation] → [On].



Specifying the position where you want to focus in the still image mode

You can focus on the desired position by touching the monitor.

1. Select a [Focus Area] other than [Flexible Spot] or [Expand Flexible Spot].
2. MENU →  1 (Camera Settings1) → [Center Lock-on AF] → [Off].
3. Touch the monitor.
 - Touch the subject to focus.
 - When the shutter button is pressed halfway down, the camera focuses on the focusing frame. Press the shutter button all the way down to shoot images.
 - To cancel focusing with touch operations, touch  or press the center of the control wheel.

Specifying the position where you want to focus in the movie recording mode (spot focus)

The camera will focus on the touched subject.

1. Select a [Focus Area] other than [Flexible Spot] or [Expand Flexible Spot].
2. MENU →  1 (Camera Settings1) → [Center Lock-on AF] → [Off].
3. Touch the subject on which you want to focus before or during recording.
 - When you touch the subject, the focus mode temporarily switches to manual focus and the focus can be adjusted using the focus ring.
 - To cancel spot focus, touch  or press the center of the control wheel.

Hint

- In addition to the touch focus function, touch operations such as the following are also available.
 - When [Focus Area] is set to [Flexible Spot] or [Expand Flexible Spot], the focusing frame can be moved using touch operations.
 - When the [Focus Mode] is set to [Manual Focus], the focus magnifier can be used by double-tapping the monitor.

Note



- The touch focus function is not available in the following situations:
 - When using the viewfinder
 - When [Focus Mode] is set to [Manual Focus].
 - When using the digital zoom
 - When using the LA-EA2 or LA-EA4
 - When using the LA-EA1 or LA-EA3, and the shooting mode is set to Movie

Related Topic



- [Touch Operation](#)

Image Size (still image)



The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

- 1 MENU →  1 (Camera Settings 1) → [ Image Size] → desired setting.

Menu item details

When [ Aspect Ratio] is set to [3:2]		When [ Aspect Ratio] is set to [16:9]	
L: 24M	6000×4000 pixels	L: 20M	6000×3376 pixels
M: 10M	3936×2624 pixels	M: 8.7M	3936×2216 pixels
S: 6.0M	3008×2000 pixels	S: 5.1M	3008×1688 pixels

When [APS-C/Super 35mm] is set to [On]

When [ Aspect Ratio] is set to [3:2]		When [ Aspect Ratio] is set to [16:9]	
L: 10M	3936×2624 pixels	L: 8.7M	3936×2216 pixels
M: 6.0M	3008×2000 pixels	M: 5.1M	3008×1688 pixels
S: 2.6M	1968×1312 pixels	S: 2.2M	1968×1112 pixels

Note



- When [ Quality] is set to [RAW] or [RAW & JPEG], the image size for RAW images corresponds to “L.”

Related Topic

- [Aspect Ratio \(still image\)](#)

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Aspect Ratio (still image)

① MENU →  1 (Camera Settings1) → [ Aspect Ratio] → desired setting.

Menu item details

3:2:

Suitable for standard prints.

16:9:

For viewing on a high-definition TV.

Interchangeable Lens Digital Camera
ILCE-9 α9

Quality (still image)

1 MENU →  1 (Camera Settings1) → [ Quality] → desired setting.

Menu item details

RAW:

File format: RAW

Digital processing is not performed on this file format. Select this format to process images on a computer for professional purposes.

- The image size is fixed to the maximum size. The image size is not displayed on the screen.

RAW & JPEG:

File format: RAW + JPEG

A RAW image and a JPEG image are created at the same time. This is suitable when you need 2 image files, a JPEG for viewing, and a RAW for editing. The JPEG image quality is set to [Fine].

Extra fine:

File format: JPEG

The image is compressed in the JPEG format and recorded using a higher quality than with [Fine].

Fine:

File format: JPEG



The image is compressed in the JPEG format when recorded.

Standard:

File format: JPEG

The image is compressed in the JPEG format when recorded. Since the compression rate of [Standard] is higher than that of [Fine], the file size of [Standard] is smaller than that of [Fine]. This will allow more files to be recorded on one memory card, but the image quality will be lower.

About RAW images

- To open a RAW image file recorded with this camera, the software Image Data Converter is needed. With Image Data Converter, you can open a RAW image file, then convert it into a popular image format such as JPEG or TIFF, or readjust the white balance, saturation or contrast of the image.
- You cannot apply [Auto HDR] or [Picture Effect] functions with RAW images.
- RAW images recorded with this camera have a resolution of 14 bits per pixel. However, resolution may be limited to 12 bits in the following shooting modes:
 - [ Long Exposure NR]
 - [BULB]
 - Continuous shooting
- You can set whether RAW images are compressed or uncompressed using [ RAW File Type].

Note

- If you do not intend to edit the images on your computer, we recommend that you record in JPEG format.
- You cannot add DPOF (print order) registration marks to RAW images.



Related Topic

- [RAW File Type \(still image\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

RAW File Type (still image)

Selects the file type for RAW images.


1 MENU →  1 (Camera Settings1) → [ RAW File Type] → desired setting.

Menu item details




Compressed:

Records images in compressed RAW format.

Uncompressed:

Records images in uncompressed RAW format. When [Uncompressed] is selected for [ RAW File Type], the file size of the image will be larger than if it were recorded in compressed RAW format.


Note

- When [Uncompressed] is selected for [ RAW File Type], the icon on the screen switches to  .  is also displayed while an image shot in uncompressed RAW format is played back.

Interchangeable Lens Digital Camera
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APS-C/Super 35mm

Sets whether to record in APS-C-equivalent size for still images and in Super 35mm-equivalent size for movies. If you select [On] or [Auto], you can use an APS-C size dedicated lens on this product.

1 MENU →  1 (Camera Settings1) → [APS-C/Super 35mm] → desired setting.

Menu item details

On:

Records in either APS-C-equivalent size or Super 35mm-equivalent size.

Auto:

Automatically sets the capture range depending on the lens.

Off:

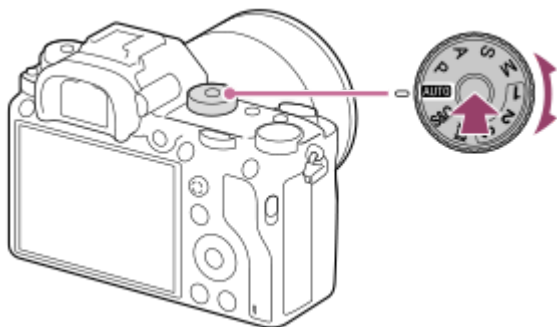
Always captures 35mm full-size image sensor pictures.

Note

- When you attach an APS-C compatible lens and set [APS-C/Super 35mm] to [Off], shooting may fail.
- When you set [APS-C/Super 35mm] to [On], the angle of view will be the same as when shooting with an APS-C size image sensor.

List of mode dial function

You can select the desired shooting mode by turning the mode dial.



- Turn the mode dial while pressing the mode dial lock release button in the center of the mode dial.

Available functions

i (Intelligent Auto):

Allows you to shoot with automatic scene recognition.

P (Program Auto):

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value (F value)). Also you can select various settings using the menu.

A (Aperture Priority):

Allows you to adjust the aperture and shoot when you want to blur the background, etc.

S (Shutter Priority):

Allows you to shoot fast-moving subjects etc., by manually adjusting the shutter speed.

M (Manual Exposure):

Allows you to shoot still images with the desired exposure by adjusting the exposure (both the shutter speed and the aperture value (F value)).

1/2/3 (Memory recall):

Allows you to shoot an image after recalling often-used modes or numeric settings registered in advance.

MOVIE (Movie):

Allows you to change the exposure mode for movie recording.

S&Q (S&Q Motion):

Allows you to shoot slow-motion and quick-motion movies.

Related Topic

- [Intelligent Auto](#)
- [Program Auto](#)
- [Aperture Priority](#)
- [Shutter Priority](#)
- [Manual Exposure](#)
- [Recall \(Camera Settings1/Camera Settings2\)](#)

Intelligent Auto

The camera shoots with automatic scene recognition.

- 1 Set the mode dial to **AUTO** (Auto Mode).
 - The shooting mode will be set to **i** (Intelligent Auto).

- 2 Point the camera at the subject.

When the camera recognized the scene, the icon for the recognized scene appears on the screen.



- 3 Adjust the focus and shoot the image.

Note

- The product will not recognize the scene when you shoot images with zoom functions other than optical zoom.
- The product may not properly recognize the scene under certain shooting conditions.

Related Topic

- [The advantages of automatic shooting](#)
- [About Scene Recognition](#)












About Scene Recognition

Scene Recognition operates in [Intelligent Auto] mode.

This function allows the product to automatically recognize the shooting conditions and shoot the image.

Scene Recognition

When the product recognizes certain scenes, the following icons and guides are displayed on the first line:

-  (Portrait)
-  (Infant)
-  (Night Portrait)
-  (Night Scene)
-  (Backlight Portrait)
-  (Backlight)
-  (Landscape)
-  (Macro)
-  (Spotlight)
-  (Low Light)
-  (Night Scene using a tripod)

Note

- When [Face Detection] is set to [Off], the [Portrait], [Backlight Portrait], [Night Portrait] and [Infant] scenes are not recognized.

Related Topic

- [Intelligent Auto](#)

Interchangeable Lens Digital Camera
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The advantages of automatic shooting

This camera is equipped with [Intelligent Auto] mode.

 (Intelligent Auto):

Allows you to shoot with automatic scene recognition.

Note

- For [Intelligent Auto] mode, most of the functions are set automatically, and you cannot adjust the settings on your own.

Related Topic

- [Intelligent Auto](#)

Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

You can set shooting functions such as [ISO].

- 1 Set the mode dial to P (Program Auto).
- 2 Set the shooting functions to your desired settings.
- 3 Adjust the focus and shoot the subject.

Program Shift

When you are not using a flash, you can change the shutter speed and aperture (F-value) combination without changing the appropriate exposure set by the camera.

Turn the front/rear dial to select the aperture value and shutter speed combination.

- "P" on the screen changes to "P*" when you turn the front/rear dial.
- To cancel program shift, set the shooting mode to other than [Program Auto], or turn off the camera.

Note

- According to the brightness of the environment, the program shift may not be used.
- Set the shooting mode to another one than "P" or turn off the power to cancel the setting you made.
- When the brightness changes, the aperture (F-value) and shutter speed also change while maintaining the shift amount.

Aperture Priority

You can shoot by adjusting the aperture and changing the range in focus, or by defocusing the background.

- 1 Set the mode dial to A (Aperture Priority).
- 2 Select the desired value by turning the front/rear dial.
 - Smaller F-value: The subject is in focus, but objects in front of and beyond the subject are blurred.
Larger F-value: The subject and its foreground and background are all in focus.
 - If the aperture value you have set is not suitable for appropriate exposure, the shutter speed on the shooting screen will blink. If this happens, change the aperture value.
- 3 Adjust the focus and shoot the subject.

The shutter speed is automatically adjusted to obtain proper exposure.

Note

- The brightness of the image on the screen may differ from the actual image being shot.

Related Topic

- [Aperture Preview](#)

Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.



- 1 Set the mode dial to S (Shutter Priority).
- 2 Select the desired value by turning the front/rear dial.
 - If proper exposure cannot be obtained after setup, the aperture value on the shooting screen blinks. If this happens, change the shutter speed.
- 3 Adjust the focus and shoot the subject.

The aperture is automatically adjusted to obtain proper exposure.

Hint

- Use a tripod to prevent camera-shake when you have selected a slow shutter speed.
- When you shoot indoor sports scenes, set the ISO sensitivity to a higher value.

Note


- The SteadyShot warning indicator does not appear in shutter speed priority mode.
- When [ Long Exposure NR] is set to [On] and the shutter speed is 1 second(s) or longer with a [ Shutter Type] other than [Electronic Shut.] is set, noise reduction after shooting is performed for the same amount of time that the shutter was open. However, you cannot shoot any more while noise reduction is in progress.
- The brightness of the image on the screen may differ from the actual image being shot.

Related Topic

- [Long Exposure NR \(still image\)](#)

Manual Exposure

You can shoot with the desired exposure setting by adjusting both the shutter speed and aperture.

- 1 Set the mode dial to M (Manual Exposure).
- 2 Select the desired aperture value by turning the front dial.
Select the desired shutter speed by turning the rear dial.
 - You can change the setting of the front/rear dial using MENU →  2 (Camera Settings2) → [Dial Setup].
 - You can also set [ISO] to [ISO AUTO] in manual exposure mode. The ISO value automatically changes to achieve the appropriate exposure using the aperture value and shutter speed you have set.
 - When [ISO] is set to [ISO AUTO], the ISO value indicator will blink if the value you have set is not suitable for appropriate exposure. If this happens, change the shutter speed or aperture value.
 - When [ISO] is set to other than [ISO AUTO], use MM (Metered Manual)* to check the exposure value.
Toward +: Images become brighter.
Toward -: Images become darker.
0: Appropriate exposure analyzed by the product.

* Indicates under/over for appropriate exposure. It is displayed using a numerical value on the monitor and with a metering indicator on the viewfinder.
- 3 Adjust the focus and shoot the subject.

Hint

- You can change the shutter speed and aperture (F-value) combination without changing the set exposure value by rotating the front/rear dial while pressing the AEL button. (Manual shift)

Note

- The Metered Manual indicator does not appear when [ISO] is set to [ISO AUTO].
- When the amount of ambient light exceeds the metering range of the Metered Manual, the Metered Manual indicator flashes.
- The SteadyShot warning indicator does not appear in manual exposure mode.
- The brightness of the image on the screen may differ from the actual image being shot.

Bulb shooting



You can shoot a trailing image of the movement of a subject with long exposure. Bulb shooting is suitable for shooting trails from stars or fireworks, etc.

- 1 Set the mode dial to M (Manual Exposure).
- 2 Turn the rear dial clockwise until [BULB] is indicated.
- 3 Select the aperture value (F-value) using the front dial.
- 4 Press the shutter button halfway down to focus.
- 5 Press and hold the shutter button for the duration of the shooting.
As long as the shutter button is pressed, the shutter remains open.

Hint



- When shooting fireworks, etc., focus at infinity in manual focus mode. If you use a lens whose infinity point is unclear, adjust the focus on the fireworks in the area you want to focus on in advance.
- In order to perform bulb shooting without causing the image quality to deteriorate, we recommend that you start shooting while the camera is cool.
- Images shot in [BULB] mode tend to be blurry. We recommend that you use a tripod and a remote commander (sold separately) that has a shutter button lock function. Use a remote commander supporting connection via multi/micro USB jack.




Note

- The longer the exposure time, the more noise will be visible on the image.
 - After shooting, noise reduction will be done for the same amount of time that the shutter was open. However, you cannot shoot any more while noise reduction is in progress.
 - You cannot set the shutter speed to [BULB] in the following situations:
 - [Auto HDR]
 - [Picture Effect] is set to [Rich-tone Mono.].
 - When [Drive Mode] is set to the following:
 - [Cont. Shooting]
 - [Self-timer(Cont)]
 - [Cont. Bracket]
 - [ Shutter Type] is set to [Electronic Shut.].
- If you use the above functions when the shutter speed is set to [BULB], the shutter speed is temporarily set to 30 seconds.
- If you set [Drive Mode] to [Cont. Shooting] and [ Shutter Type] to [Auto] or [Electronic Shut.] when the shutter speed is set to [BULB], the shutter speed will be temporarily set to 1/8 seconds.


Interchangeable Lens Digital Camera
ILCE-9 α9

Recall (Camera Settings1/Camera Settings2)



Allows you to shoot an image after recalling often-used modes or camera settings registered with [1/2 Memory] in advance.

- 1 Set the mode dial to 1, 2, or 3 (Memory recall).
- 2 Press the center of the control wheel to confirm.
 - You can also recall registered modes or settings by selecting MENU → 1 (Camera Settings 1) → [1/2 Recall].

Hint

- To recall settings registered to the memory card, set the mode dial to 1, 2 or 3, then select the desired number by pressing the left/right side of the control wheel.
- If you recall settings registered to the memory card, the settings are recalled from the memory card in the slot specified in [Select Rec. Media]. You can confirm the memory card slot by selecting MENU →  (Setup) → [Select Rec. Media].
- Settings registered to a memory card using another camera of the same model name can be recalled with this camera.

Note

- If you set [1/2 Recall] after completing the shooting settings, the registered settings are given priority and the original settings may become invalid. Check the indicators on the screen before shooting.




Related Topic

- [Memory \(Camera Settings1/Camera Settings2\)](#)

Interchangeable Lens Digital Camera
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Movie: Exposure Mode

You can set the exposure mode for movie shooting.

- 1 Set the mode dial to  (Movie).
- 2 MENU →  (Camera Settings2) → [ Exposure Mode] → desired setting.
- 3 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

Program Auto:

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

Aperture Priority:

Allows you to shoot after adjusting the aperture value manually.

Shutter Priority:

Allows you to shoot after adjusting the shutter speed manually.

Manual Exposure:

Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

S&Q Motion: Exposure Mode

You can select the exposure mode for slow-motion/quick-motion shooting. You can change the setting and playback speed for slow-motion/quick-motion shooting with [**S&Q** S&Q Settings].

- 1 Set the mode dial to **S&Q** (S&Q Motion).
- 2 MENU →  (Camera Settings2) → [**S&Q** Exposure Mode] → desired setting.
- 3 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

S&Q P Program Auto:

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

S&Q A Aperture Priority:

Allows you to shoot after adjusting the aperture value manually.

S&Q S Shutter Priority:

Allows you to shoot after adjusting the shutter speed manually.

S&Q M Manual Exposure:

Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

Related Topic

- [S&Q Settings](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Exposure Comp.

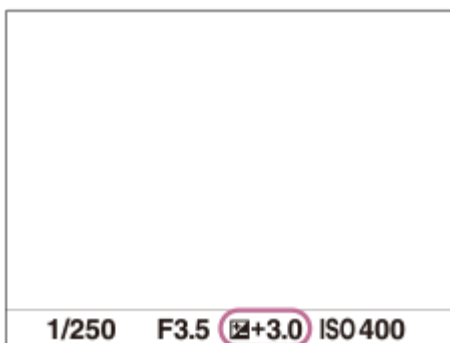
Normally, exposure is set automatically (auto exposure). Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation).

1 Turn the exposure compensation dial (A).

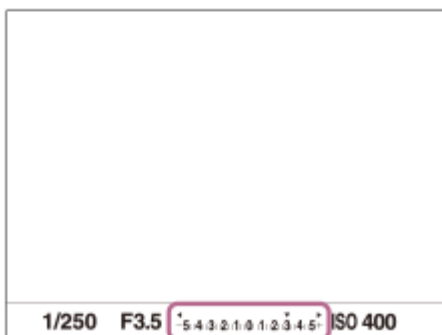
- + (over) side:
Images become brighter.
- (under) side:
Images become darker.



- You can adjust the exposure compensation value within the range of -3.0 EV to +3.0 EV.
- You can confirm the exposure compensation value that you set on the shooting screen.
Monitor




Viewfinder



To set the exposure compensation using the MENU

You can adjust the exposure compensation within a range of -5.0 EV to +5.0 EV when the exposure compensation dial is set to "0."

MENU →  1 (Camera Settings1) → [Exposure Comp.] → desired setting.

Note

- You cannot perform the exposure compensation in the following shooting modes:
 - [Intelligent Auto]
- When using [Manual Exposure], you can perform the exposure compensation only when [ISO] is set to [ISO AUTO].
- The settings of the exposure compensation dial will be prioritized over [Exposure Comp.] or [Dial Ev Comp] in MENU.
- Only a value between -3.0 EV and +3.0 EV with the equivalent image brightness appears on the screen when shooting. If you set an exposure compensation value outside this range, the image brightness on the screen will not be affected, but the value will be reflected in the recorded image.
- You can adjust the exposure compensation value within the range of -2.0 EV to +2.0 EV for movies.
- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, you may not be able to get a satisfactory effect.
- When you set the exposure compensation dial to "0" from a setting other than "0," the exposure value switches to "0" regardless of the [Exposure Comp.] setting.


Related Topic

- [Exposure step](#)
- [Dial Ev Comp](#)
- [Exp.comp.set](#)
- [Cont. Bracket](#)
- [Single Bracket](#)
- [Zebra](#)

Interchangeable Lens Digital Camera
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Reset EV Comp.

Sets whether to maintain the exposure value set using [Exposure Comp.] when you turn off the power when the exposure compensation dial position is set to “0.”

1 MENU →  1 (Camera Settings1) → [Reset EV Comp.] → desired setting.

Menu item details

Maintain:


Maintains the settings.

Reset:

Resets the settings.

Dial Ev Comp

You can adjust the exposure using the front dial or rear dial when the exposure compensation dial is set to "0." You can adjust the exposure in a range of -5.0 EV to +5.0 EV.

- 1 Set the exposure compensation dial to "0."
- 2 MENU →  2 (Camera Settings2) → [Dial Ev Comp] → desired setting.

Menu item details

Off:

Does not enable exposure compensation with the front or rear dial.

 Front dial/  Rear dial:

Enables exposure compensation with the front or rear dial.

Note

- When the exposure compensation function is assigned to the front or rear dial, any function that had been assigned to that dial previously is re-assigned to another dial.
- The settings of the exposure compensation dial will be prioritized over [Exposure Comp.] in MENU or the exposure settings using the front or rear dial.


Related Topic

- [Exposure Comp.](#)

Interchangeable Lens Digital Camera
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Exposure Set. Guide

You can set whether to display a guide when you change the exposure.

1 MENU →  2 (Camera Settings2) → [Exposure Set. Guide] → desired setting.

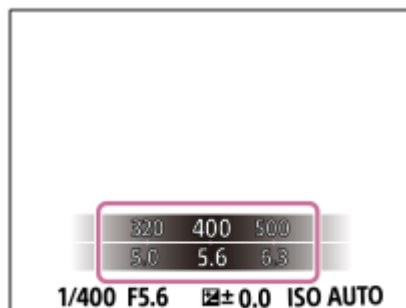
Menu item details

Off:

Does not display the guide.

On:


Displays the guide.



Interchangeable Lens Digital Camera
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Exposure step

You can adjust the setting increment for the shutter speed, aperture, and exposure compensation values.

1 MENU →  1 (Camera Settings1) → [Exposure step] → desired setting.

Menu item details


0.3EV/0.5EV

Note

- Even if you set [Exposure step] to [0.5EV], the exposure value adjusted using the exposure compensation dial changes in steps of 0.3EV.

Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

1 MENU →  (Camera Settings1) → [Metering Mode] → desired setting.

Menu item details

 Multi:

Measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen (Multi-pattern metering).

 Center:

Measures the average brightness of the entire screen, while emphasizing the central area of the screen (Center-weighted metering).

 Spot:

Measures only the central area (Spot metering). This mode is suitable for measuring light on a specified part of the entire screen. The size of the metering circle can be selected from [Spot: Standard] and [Spot: Large]. The position of the metering circle depends the setting for [Spot Metering Point].

 Entire Screen Avg.:

Measures the average brightness of the entire screen. The exposure will be stable even if the composition or the position of the subject changes.

 Highlight:

Measures the brightness while emphasizing the highlighted area on the screen. This mode is suitable for shooting the subject while avoiding overexposure.

Hint

- When [Spot] is selected and [Focus Area] is set to either [Flexible Spot] or [Expand Flexible Spot] while [Spot Metering Point] is set to [Focus Point Link], the spot metering point can be coordinated with the focus area.
- When [Metering Mode] is set to [Highlight] and the [D-Range Opt.] or [Auto HDR] function is activated, the brightness and the contrast will be corrected automatically by dividing the image into small areas and analyzing the contrast of light and shadow. Make settings based on the shooting circumstances.

Note

- [Metering Mode] is locked to [Multi] in the following shooting modes:
 - [Intelligent Auto]
 - Other zoom functions than the optical zoom
- In [Highlight] mode, the subject may be dark if a brighter part exists on the screen.

Related Topic


- [AE lock](#)
- [Spot Metering Point](#)
- [D-Range Opt. \(DRO\)](#)
- [Auto HDR](#)



Interchangeable Lens Digital Camera
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Spot Metering Point

Sets whether to coordinate the spot metering position with the focus area when [Focus Area] is set to [Flexible Spot] or [Expand Flexible Spot].

1 MENU →  1 (Camera Settings 1) → [Spot Metering Point] → desired setting.

Menu item details

Center:

The spot metering position does not coordinate with the focus area, but always meters brightness at the center.

Focus Point Link:

The spot metering position coordinates with the focus area.

Note

- When [Focus Area] is set to other than [Flexible Spot] or [Expand Flexible Spot], the spot metering position is locked to the center.
- When [Focus Area] is set to [Lock-on AF: Flexible Spot] or [Lock-on AF:Expand Flexible Spot], the spot metering position coordinates to the Lock-on AF start position, but does not coordinate with the tracking of the subject.

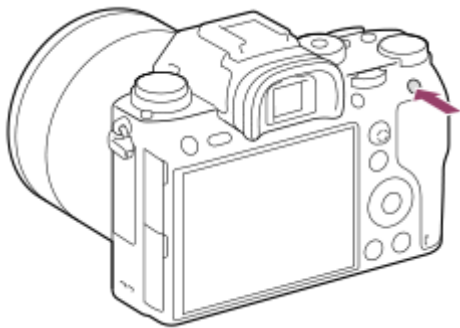
Related Topic

- [Focus Area](#)
- [Metering Mode](#)

AE lock

When the contrast between the subject and background is high, such as when shooting a backlit subject or a subject near a window, meter the light at a spot where the subject appears to have the appropriate brightness and lock the exposure before shooting. To reduce the brightness of the subject, meter the light at a spot brighter than the subject and lock the exposure of the entire screen. To make the subject brighter, meter the light at a spot darker than the subject and lock the exposure of the entire screen.


- 1 Adjust the focus on the spot at which the exposure is adjusted.
- 2 Press the AEL button.




The exposure is locked, and * (AE lock) is displayed.

- 3 Keep pressing the AEL button and focus on the subject again, then shoot the picture.
 - Keep holding the AEL button down while taking a shot if you want to continue shooting with the fixed exposure. Release the button to reset the exposure.

Hint

- If you select the MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → [AEL Button] → [AEL toggle], you can lock the exposure without holding down the button.



Note

- [ AEL hold] and [ AEL toggle] are not available when using zoom functions other than optical zoom.

Interchangeable Lens Digital Camera
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AEL w/ shutter (still image)

Sets whether to fix the exposure when you press the shutter button halfway down.
Select [Off] to adjust the focus and the exposure separately.

1 MENU →  1 (Camera Settings1) → [ AEL w/ shutter] → desired setting.

Menu item details

Auto:

Fixes the exposure after adjusting the focus automatically when you press the shutter button halfway down when [Focus Mode] is set to [Single-shot AF].

On:


Fixes the exposure when you press the shutter button halfway down.

Off:

Does not fix the exposure when you press the shutter button halfway down. Use this mode when you want to adjust focus and exposure separately.


The product keeps adjusting the exposure while shooting in [Cont. Shooting] mode.

Note


- Operation using the AEL button is prioritized over the [ AEL w/ shutter] settings.

Exposure Std. Adjust

Adjusts this camera's standard for the correct exposure value for each metering mode.


- 1 MENU →  1 (Camera Settings1) → [Exposure Std. Adjust] → desired metering mode.
- 2 Select the desired value as the metering standard.
 - You can set a value from -1 EV to +1 EV in 1/6 EV increments.

Metering Mode

The set standard value will be applied when you select the corresponding metering mode in MENU →  1 (Camera Settings1) → [Metering Mode].

 Multi/  Center/  Spot/  Entire Screen Avg./  Highlight

Note

- The exposure compensation will not be affected when [Exposure Std. Adjust] is changed.
- The exposure value will be locked according to the value set for [ Spot] during using spot AEL.
- The standard value for M.M (Metered Manual) will be changed according to the value set in [Exposure Std. Adjust].
- The value set in [Exposure Std. Adjust] is recorded in Exif data separately from the exposure compensation value. The amount of exposure standard value will not be added to the exposure compensation value.
- If you set [Exposure Std. Adjust] during bracketing shooting, the number of shots for the bracketing will be reset.


Related Topic

- [Metering Mode](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Exp.comp.set

Sets whether to apply the exposure compensation value to control both flash light and ambient light, or just ambient light.

① MENU →  1(Camera Settings1) → [Exp.comp.set] → desired setting.

Menu item details

Ambient&flash:

Applies the exposure compensation value to control both flash light and ambient light.

Ambient only:


Applies the exposure compensation value to control ambient light only.

Related Topic

- [Flash Comp.](#)

Zebra

The zebra pattern will appear over part of an image if the brightness level of that part meets the IRE level that you set. Use this zebra pattern as a guide to adjust the brightness.

- 1 MENU →  2 (Camera Settings2) → [Zebra] → desired setting.

Menu item details

Off:

Does not display the zebra pattern.

70/75/80/85/90/95/100/100+/Custom 1/Custom 2:

Adjusts the brightness level.

Hint


- You can register values to check the correct exposure or overexposure as well as the brightness level for [Zebra]. The settings for correct exposure confirmation and overexposure confirmation are registered to [Custom1] and [Custom2] respectively in the default settings.
- To check the correct exposure, set a standard value and the range for the brightness level. The zebra pattern will appear on areas that fall within the range you set.
- To check the overexposure, set a minimum value for the brightness level. The zebra pattern will appear over areas with a brightness level equal to or higher than the value you set.

Note

- The zebra pattern is not displayed on devices connected via HDMI.

D-Range Opt. (DRO)


By dividing the image into small areas, the product analyzes the contrast of light and shadow between the subject and the background, and creates an image with the optimal brightness and gradation.

- 1 MENU →  1 (Camera Settings 1) → [DRO/Auto HDR] → [D-Range Opt.].
- 2 Select the desired setting using the left/right sides of the control wheel.

Menu item details



 D-Range Optimizer: Auto:

Corrects the brightness automatically.

 D-Range Optimizer: Lv1 — D-Range Optimizer: Lv5:


Optimizes the gradation of a recorded image for each divided area. Select the optimization level from Lv1 (weak) to Lv5 (strong).

Note

- In the following situations, [D-Range Opt.] is fixed to [Off]:
 - When [Picture Effect] is set to other than [Off]
- When [ Record Setting] is set to [120p 100M], [100p 100M], [120p 60M], or [100p 60M], or when [ Frame Rate] is set to [120fps]/[100fps], [DRO/Auto HDR] switches to [Off].
- When shooting with [D-Range Opt.], the image may be noisy. Select the proper level by checking the recorded image, especially when you enhance the effect.


Auto HDR

Shoots three images using different exposures and combines the images with correct exposure, the bright parts of an underexposed image, and the dark parts of an overexposed image to create images with a greater range of gradation (High Dynamic Range). One image with proper exposure and one overlaid image are recorded.

1 MENU →  1 (Camera Settings 1) → [DRO/Auto HDR] → [Auto HDR].

2 Select the desired setting using the left/right sides of the control wheel.

Menu item details

 **Auto HDR: Exposure Diff. Auto:**
Corrects the brightness automatically.

 **Auto HDR: Exposure Diff. 1.0EV — Auto HDR: Exposure Diff. 6.0EV:**




Sets the exposure difference, based on the contrast of the subject. Select the optimization level from 1.0EV (weak) to 6.0EV (strong).

For example, if you set the exposure value to 2.0 EV, three images will be composed with the following exposure levels: -1.0 EV, correct exposure and +1.0 EV.

Hint


- The shutter is released three times for one shot. Be careful about the following:
 - Use this function when the subject is motionless or does not flash light.
 - Do not change the composition before shooting.

Note

- This function is not available when the [ Quality] is [RAW] or [RAW & JPEG].
- [Auto HDR] is not available in the following shooting modes:
 - [Intelligent Auto]
- [Auto HDR] is not available in the following situations:
 - When [Picture Effect] is set to other than [Off].
- You cannot start the next shot until the capture process is completed after you shoot.
- You may not obtain the desired effect depending on the luminance difference of a subject and the shooting conditions.
- When the flash is used, this function has little effect.
- When the contrast of the scene is low or when product shake or subject blur occurs, you may not obtain good HDR images.
  will be displayed over the recorded image to inform you when the camera detects image blurring. Change the composition or re-shoot the image carefully to avoid image blur, as needed.

ISO

Sensitivity to light is expressed by the ISO number (recommended exposure index). The larger the number, the higher the sensitivity.

- 1 ISO (ISO) on the control wheel → select desired setting.
 - You can also select MENU →  1 (Camera Settings1) → [ISO].
 - You can change the value by 1/3 EV steps by turning the front dial as well as by turning the control wheel. You can change the value by 1 EV steps by turning the rear dial.

Menu item details

ISO AUTO:

Sets the ISO sensitivity automatically.



ISO 50 – ISO 204800:

Sets the ISO sensitivity manually. Selecting a larger number increases the ISO sensitivity.

Hint

- You can change the range of ISO sensitivity that is set automatically in [ISO AUTO] mode. Select [ISO AUTO] and press the right side of the control wheel, and set the desired values for [ISO AUTO Maximum] and [ISO AUTO Minimum].

Note


- [ISO AUTO] is selected when using the following functions:
 - [Intelligent Auto]
- When the ISO sensitivity is set to a value lower than ISO 100, the range for recordable subject brightness (dynamic range) may decrease.
- The higher the ISO value, the more noise will appear on the images.
- The available ISO settings will differ depending on whether you are shooting still images, shooting movies, or shooting slow-motion/quick-motion movies.
- ISO values between 50 and 25600 are available in the following situations:
 - [ Shutter Type] is set to [Electronic Shut.].
 - [ Shutter Type] is set to [Auto] and [Drive Mode] is set to [Cont. Shooting].
- When shooting movies, ISO values between 100 and 102400 are available. If the ISO value is set to a value larger than 102400, the setting is automatically switched to 102400. When you finish recording the movie, the ISO value returns to the original setting.
- When shooting movies, ISO values between 100 and 102400 are available. If the ISO value is set to a value smaller than 100, the setting is automatically switched to 100. When you finish recording the movie, the ISO value returns to the original setting.
- When you select [ISO AUTO] with the shooting mode set to [P], [A], [S] or [M], the ISO sensitivity will be automatically adjusted within the set range.

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ISO AUTO Min. SS

If you select [ISO AUTO] when the shooting mode is P (Program Auto) or A (Aperture Priority), you can set the shutter speed at which the ISO sensitivity starts changing.

This function is effective for shooting moving subjects. You can minimize subject blurring while also preventing camera shake.

1 MENU →  1 (Camera Settings1) → [ISO AUTO Min. SS] → desired setting.

Menu item details

FASTER (Faster)/FAST (Fast):

The ISO sensitivity will start to change at shutter speeds faster than [Standard], so you can prevent camera shake and subject blurring.

STD (Standard):

The camera automatically sets the shutter speed based on the focal length of the lens.

SLOW (Slow)/SLOWER (Slower):

The ISO sensitivity will start to change at shutter speeds slower than [Standard], so you can shoot images with less noise.


1/16000 — 30":

The ISO sensitivity starts to change at the shutter speed you have set.

Hint

- The difference in shutter speed at which ISO sensitivity starts to change between [Faster], [Fast], [Standard], [Slow], and [Slower] is 1 EV.

Note

- If the exposure is insufficient even when the ISO sensitivity is set to [ISO AUTO Maximum] in [ISO AUTO], in order to shoot with an appropriate exposure, the shutter speed will be slower than the speed set in [ISO AUTO Min. SS].
- In the following situations, the shutter speed may not function as set:
 - When the maximum shutter speed has changed based on the [ Shutter Type] setting.
 - When using the flash to shoot bright scenes. (The maximum shutter speed is limited to the flash-syncing speed of 1/250 second.)
 - When using the flash to shoot dark scenes with the [Flash Mode] set to [Fill-flash] or [Wireless]. (The minimum shutter speed is limited to the speed automatically determined by the camera.)

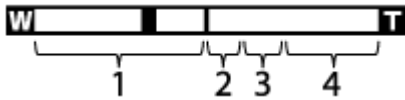
Related Topic

- [Program Auto](#)
- [Aperture Priority](#)
- [ISO](#)

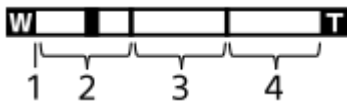
The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features. The icon displayed on the screen changes, according to the selected zoom feature.

When a power zoom lens is mounted:



When a lens other than a power zoom lens is mounted:



1. Optical zoom range

Zoom images in the zoom range of a lens.

When a power zoom lens is mounted, the zoom bar of the optical zoom range is displayed.

When a lens other than a power zoom lens is mounted, the zoom slider is fixed at the left end of the zoom bar while the zoom position is in the optical zoom range (displayed as $\times 1.0$).

2. Smart Zoom range (s⁺)

Zoom images without causing the original quality to deteriorate by partially cropping an image (only when the image size is [M] or [S]).

3. Clear Image Zoom range (c⁺)

Zoom images using an image process with less deterioration. When you set [Zoom Setting] to [On:ClearImage Zoom] or [On:Digital Zoom], you can use this zoom function.

4. Digital Zoom range (d⁺)

You can magnify images using an image process. When you set [Zoom Setting] to [On:Digital Zoom], you can use this zoom function.

Note

- The default setting for the [Zoom Setting] is [Optical zoom only].
- The default setting for the [Image Size] is [L]. To use the smart zoom, change [Image Size] to [M] or [S].
- Zoom functions other than the optical zoom are not available when shooting in the following situations:
 - [Quality] is set to [RAW] or [RAW & JPEG].
 - [Record Setting] is set to [120p]/[100p].
 - During slow-motion/quick-motion shooting with the [Frame Rate] set to [120fps]/[100fps]
- You cannot use the Smart Zoom function with movies.
- When a power zoom lens is mounted, you cannot use [Zoom] under MENU. If you enlarge image past the optical zoom range, the product automatically switches to another [Zoom] function than the optical zoom.
- When you use a zoom function other than the optical zoom, [Metering Mode] is fixed to [Multi].
- When using a zoom function other than the optical zoom, the following functions are not available:
 - Face Detection
 - Lock-on AF
- To use another zoom function than the optical zoom for movies, assign [Zoom] to the desired button using [Custom Key(Shoot.)].



Related Topic

- [Clear Image Zoom/Digital Zoom \(Zoom\)](#)
- [Zoom Setting](#)
- [About zoom scale](#)


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Clear Image Zoom/Digital Zoom (Zoom)

When you use a zoom function other than the optical zoom, you can exceed the zoom range of the optical zoom.

- 1 MENU →  2 (Camera Settings2) → [Zoom Setting] → [On:ClearImage Zoom] or [On:Digital Zoom].
- 2 When a power zoom lens is mounted, move the zoom lever or the zoom ring of the zoom lens to enlarge subjects.
 - When you exceed the zoom range of the optical zoom, the camera automatically switches to another zoom than the optical zoom.
- 3 When a lens other than a power zoom lens is mounted, select MENU →  2 (Camera Settings2) → [Zoom] → desired value.

Press the center of the control wheel to exit.

 - You can also assign the [Zoom] function to the desired button by selecting MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)].


Related Topic

- [Zoom Setting](#)
- [The zoom features available with this product](#)
- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

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Zoom Setting

You can select the zoom setting of the product.

1 MENU →  2 (Camera Settings2) → [Zoom Setting] → desired setting.

Menu item details

Optical zoom only:

Limits the zoom range to the optical zoom. You can use the Smart Zoom function if you set [ Image Size] to [M] or [S].

On:ClearImage Zoom:

Select this setting to use Clear Image Zoom. Even if the zoom range exceeds the optical zoom, the product magnifies images within the range in which image quality does not deteriorate significantly.

On:Digital Zoom:

When the zoom range of the Clear Image Zoom is exceeded, the product magnifies images to the largest scale. However, the image quality will deteriorate.

Note

- Set [Optical zoom only] if you want to magnify images within the range in which image quality does not deteriorate.


Related Topic

- [The zoom features available with this product](#)
- [About zoom scale](#)

About zoom scale

The zoom scale that is used in combination with the zoom of the lens changes according to the selected image size.

When [ Aspect Ratio] is [3:2]

Zoom Setting	 Image Size	Full-frame/APS-C	Zoom scale
Optical zoom only (including smart zoom)	L	-	-
	M	Full-frame	Approx. 1.5×
		APS-C	Approx. 1.3×
	S	Full-frame	Approx. 2×
		APS-C	Approx. 2×
	On:ClearImage Zoom	L	Full-frame
APS-C			Approx. 2×
M		Full-frame	Approx. 3×
		APS-C	Approx. 2.6×
S		Full-frame	Approx. 4×
		APS-C	Approx. 4×
On:Digital Zoom	L	Full-frame	Approx. 4×
		APS-C	Approx. 4×
	M	Full-frame	Approx. 6.1×
		APS-C	Approx. 5.2×
	S	Full-frame	Approx. 8×
		APS-C	Approx. 8×


Related Topic

- [Clear Image Zoom/Digital Zoom \(Zoom\)](#)
- [The zoom features available with this product](#)
- [Zoom Setting](#)
- [Image Size \(still image\)](#)

Interchangeable Lens Digital Camera
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Zoom Ring Rotate

Assigns zoom in (T) or zoom out (W) functions to the zoom ring rotation direction. Available only with power zoom lenses that support this function.

1 MENU →  2 (Camera Settings2) → [Zoom Ring Rotate] → desired setting.

Menu item details

Left(W)/Right(T):

Assigns zoom out (W) function to left-handed rotation and zoom-in (T) function to right-handed rotation.

Right(W)/Left(T):

Assigns zoom in (T) function to left-handed rotation and zoom-out (W) function to right-handed rotation.

White Balance

Corrects the tone effect of the ambient light condition to record a neutral white subject in white. Use this function when the color tones of the image did not come out as you expected, or when you want to change the color tones on purpose for photographic expression.

1 MENU → 1 (Camera Settings 1) → [White Balance] → desired setting.

Menu item details

AWB **AWB** Auto/ Daylight/ Shade/ Cloudy/ Incandescent/ -1 Fluor.: Warm White/ 0 Fluor.: Cool White/ +1 Fluor.: Day White/ +2 Fluor.: Daylight/ Flash/ Underwater Auto: When you select a light source that illuminates the subject, the product adjusts the color tones to suit to the selected light source (preset white balance). When you select [Auto], the product automatically detects the light source and adjusts the color tones.

C.Temp./Filter:

Adjusts the color tones depending on the light source. Achieves the effect of CC (Color Compensation) filters for photography.

Custom 1/Custom 2/Custom 3:

Uses the white balance setting saved in [Custom Setup].

SET Custom Setup:

Memorizes the basic white color under the light conditions for the shooting environment.

Select a memorized custom white balance number.

Hint

- You can display the fine adjustment screen and perform fine adjustments of the color tones as required by pressing the right side of the control wheel.
- If the color tones do not come out as you expected in the selected settings, perform [WB bracket] shooting.
- **AWB** or **AWB** is displayed only when [Priority Set in AWB] is set to [Ambience] or [White].

Note

- [White Balance] is fixed to [Auto] in the following shooting modes:
 - [Intelligent Auto]
- If you use a mercury lamp or a sodium lamp as a light source, the accurate white balance will not be obtained because of the characteristics of the light. It is recommended to shoot images using a flash or select [Custom Setup].


Related Topic

- [Capturing a basic white color in \[Custom Setup\] mode](#)
- [Priority Set in AWB](#)
- [WB bracket](#)

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Priority Set in AWB

Selects which tone to prioritize when shooting under lighting conditions such as incandescent light when [White Balance] is set to [Auto].

1 MENU →  1 (Camera Settings 1) → [Priority Set in AWB] → desired setting.

Menu item details

AWB
STD Standard:

Shoots with standard auto white balance. The camera automatically adjusts the color tones.

AWB
Ambi Ambience:

Prioritizes the color tone of the light source. This is suitable when you want to produce a warm atmosphere.

AWB
White White:


Prioritizes a reproduction of white color when the color temperature of the light source is low.

Related Topic


- [White Balance](#)

Capturing a basic white color in [Custom Setup] mode

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness. You can register 3 settings.

- 1 MENU →  1 (Camera Settings 1) → [White Balance] → [Custom Setup].
- 2 Hold the product so that the white area fully covers the circle located in the center of the screen, and then press the center of the control wheel.
After the shutter sound beeps, the calibrated values (Color Temperature and Color Filter) are displayed.
- 3 Select a registration number using the left/right sides of the control wheel, and then press the center.
The monitor returns to the recording information display while retaining the memorized custom white balance setting.
 - The registered custom white balance setting will remain memorized until overwritten by the another setting.

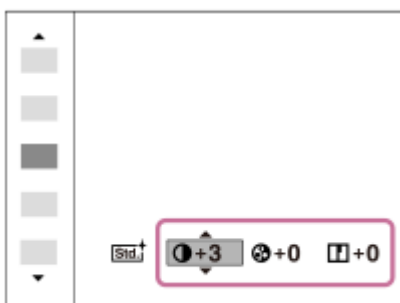
Note

- The message [Custom WB Error] indicates that the value is in the unexpected range, for example when the subject is too vivid. You can register the setting at this point, but it is recommended that you set the white balance again. When an error value is set, the indicator  turns orange on the recording information display. The indicator will be displayed in white when the set value is in the expected range.
- If you use a flash when capturing a shot, the custom white balance will be registered with the flash light. Shoot images with a flash when recalling a setting registered with the flash.

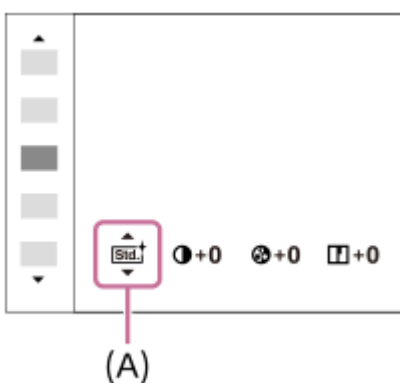
Creative Style

Allows you to set the desired image processing and finely adjust contrast, saturation and sharpness for each image style.

- 1 MENU → 1 (Camera Settings1) → [Creative Style].
- 2 Select the desired style or [Style Box] using the top/bottom sides of the control wheel.
- 3 To adjust (Contrast), (Saturation) and (Sharpness), select the desired item using the right/left sides, and then select the value using the top/bottom sides.



- 4 When selecting [Style Box], move to the right side using the right side of the control wheel, and then select the desired style.
 - You can call up the same style with slightly different settings.



(A): Displayed only when Style Box is selected

Menu item details

Standard:

For shooting various scenes with rich gradation and beautiful colors.

Vivid:

The saturation and contrast are heightened for shooting striking images of colorful scenes and subjects such as flowers, spring greenery, blue sky, or ocean views.

Neutral:

The saturation and sharpness are lowered for shooting images in subdued tones. This is also suitable for capturing image material to be modified with a computer.

 Clear:

For shooting images in clear tones with limpid colors in highlight, suitable for capturing radiant light.

 Deep:


For shooting images with deep and dense colors, suitable for capturing the solid presence of the subject.

 Light:


For shooting images with bright and simple colors, suitable for capturing a refreshingly light ambience.

 Portrait:

For capturing skin in a soft tone, ideally suited for shooting portraits.

 Landscape:

The saturation, contrast, and sharpness are heightened for shooting vivid and crisp scenery. Distant landscapes also stand out more.

 Sunset:

For shooting the beautiful red of the setting sun.

 Night Scene:

The contrast is lowered for reproducing night scenes.

 Autumn leaves:

For shooting autumn scenes, vividly highlighting the reds and yellows of changing leaves.


 Black & White:

For shooting images in black and white monotone.

 Sepia:

For shooting images in sepia monotone.

 Registering preferred settings (Style Box):

Select the six style box (the boxes with numbers on the left side ()) to register preferred settings. Then select the desired settings using the right button.

You can call up the same style with slightly different settings.


To set [Contrast], [Saturation] and [Sharpness]

[Contrast], [Saturation], and [Sharpness] can be adjusted for each image style preset such as [Standard] and [Landscape], and for each [Style Box] to which you can register preferred settings.

Select an item to be set by pressing the right/left sides of the control wheel, then set the value using the top/bottom sides of the control wheel.

 Contrast:

The higher the value selected, the more the difference of light and shadow is accentuated, and the bigger the effect on the image.

 Saturation:

The higher the value selected, the more vivid the color. When a lower value is selected, the color of the image is restrained and subdued.

 Sharpness:

Adjusts the sharpness. The higher the value selected, the more the contours are accentuated, and the lower the value selected, the more the contours are softened.


Note

- [Creative Style] is fixed to [Standard] in the following situations:
 - [Intelligent Auto]
 - [Picture Effect] is set to other than [Off].
- When this function is set to [Black & White] or [Sepia], [Saturation] cannot be adjusted.

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Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

1 MENU →  1 (Camera Settings1) → [Picture Effect] → desired setting.

Menu item details

 Off:

Disables the [Picture Effect] function.

 Toy Camera:

Creates a soft image with shaded corners and reduced sharpness.

 Pop Color:


Creates a vivid look by emphasizing color tones.

 Posterization:

Creates a high contrast, abstract look by heavily emphasizing primary colors, or in black and white.

 Retro Photo:

Creates the look of an aged photo with sepia color tones and faded contrast.

 Soft High-key:

Creates an image with the indicated atmosphere: bright, transparent, ethereal, tender, soft.

 Partial Color:

Creates an image which retains a specific color, but converts others to black and white.

 High Contrast Mono.:

Creates a high-contrast image in black and white.

 Rich-tone Mono.:


Creates an image in black and white with rich gradation and reproduction of details.


Hint

- You can perform detailed settings for some items using the left/right sides of the control wheel.

Note



- When you use a zoom function other than the optical zoom, setting the zoom scale larger makes [Toy Camera] less effective.
- When [Partial Color] is selected, images may not retain the selected color, depending on the subject or shooting conditions.
- You cannot check the following effects on the shooting screen, because the product processes the image after the shot. Also, you cannot shoot another image until image processing is finished. You cannot use these effects with movies.
 - [Rich-tone Mono.]
- In the case of [Rich-tone Mono.], the shutter is released three times for one shot. Be careful about the following:
 - Use this function when the subject is motionless or does not flash light.
 - Do not change the composition during shooting.

When the contrast of the scene is low or when significant camera-shake or subject blur has occurred, you may not be able to obtain good HDR images. If the product detects such a situation,  appear on the recorded image to inform you of this situation. Change the composition or re-shoot the image carefully to avoid image blur, as needed.

- This function is not available in the following shooting modes:
 - [Intelligent Auto]
- When [ Quality] is set to [RAW] or [RAW & JPEG], this function is not available.

Color Space (still image)

The way colors are represented using combinations of numbers or the range of color reproduction is called “color space.” You can change the color space depending on the purpose of the image.

1 MENU →  1 (Camera Settings1) → [ Color Space] → desired setting.

Menu item details

sRGB:

This is the standard color space of the digital camera. Use [sRGB] in normal shooting, such as when you intend to print out the images without any modification.

AdobeRGB:


This color space has a wide range of color reproduction. When a large part of the subject is vivid green or red, Adobe RGB is effective. The file name of the recorded image starts with “_.”

Note

- [AdobeRGB] is for applications or printers that support color management and DCF2.0 option color space. Images may not be printed or viewed in the correct colors if you use applications or printers that do not support Adobe RGB.
- When displaying images that were recorded with [AdobeRGB] on non-Adobe RGB-compliant devices, the images will be displayed with low saturation.

Release w/o Lens

Sets whether or not the shutter can be released when no lens is attached.

1 MENU →  2 (Camera Settings2) → [Release w/o Lens] → desired setting.

Menu item details

Enable:

Releases the shutter when no lens is attached. Select [Enable] when attaching the product to an astronomical telescope, etc.

Disable:

Does not release the shutter when a lens is not attached.


Note

- Correct metering cannot be achieved when you use lenses that do not provide a lens contact, such as the lens of an astronomical telescope. In such cases, adjust the exposure manually by checking it on the recorded image.

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Release w/o Card

Sets whether the shutter can be released when no memory card has been inserted.

1 MENU →  2 (Camera Settings2) → [Release w/o Card] → desired setting.

Menu item details

Enable:

Releases the shutter even if no memory card has been inserted.

Disable:



Does not release the shutter when no memory card has been inserted.

Note

- When no memory card has been inserted, the images shot will not be saved.
- The default setting is [Enable]. It is recommended that you select [Disable] prior to actual shooting.

Shutter Type (still image)

You can set whether to shoot with a mechanical shutter or an electronic shutter.

1 MENU →  2 (Camera Settings2) → [ Shutter Type] → desired setting.

Menu item details

Auto:

The shutter type is automatically switched based on the shooting conditions and shutter speed.


Mechanical Shut.:

Shoot with the mechanical shutter only.





Electronic Shut.:

Shoot with the electronic shutter only.

Hint

- In the following situations, set the [ Shutter Type] to [Auto] or [Electronic Shut.].
 - When shooting with a high-speed shutter in a bright environment such as outside in bright sunlight, the beach, or snowy mountains.
 - When you want to increase the speed of continuous shooting.

Note

- In rare cases, the shutter sound may be produced when the power is turned off even if the [ Shutter Type] is set to [Electronic Shut.]. However, this is not a malfunction.
- In the following situations, the mechanical shutter will be activated even if the [ Shutter Type] is set to [Electronic Shut.].
 - When capturing a basic white color in [Custom Setup] for [White Balance]
 - [Face Registration]
- The following functions are unavailable when the [ Shutter Type] is set to [Electronic Shut.].
 - Flash shooting
 -  Long Exposure NR
 - Bulb shooting

Related Topic

- [Using the electronic shutter](#)
- [Displaying the release timing \(Shoot. Timing Disp.\)](#)




Using the electronic shutter

Using the electronic shutter lets you perform various kinds of shooting that are difficult to achieve using the mechanical shutter, such as shooting without sounds or shaking, shooting with a super-fast shutter, and blackout-free shooting*.

* During blackout-free shooting, the screen does not black out or drop frames and you can keep looking at the subject through the viewfinder or monitor while shooting images.

Shutter types and camera performance

The camera's shutter speed range, shutter sound, occurrence of blackout, and availability of the flash for each setting are as follows:

	Shutter Type		
	 Auto	 Mechanical Shut.	 Electronic Shut.
Shutter speed	Single shooting: BULB – 1/32000 ^{*1*2} Continuous shooting: 1/8 – 1/32000 ^{*1*2}	Single shooting: BULB – 1/8000 Continuous shooting: 30 – 1/8000	Single shooting: 30 – 1/32000 ^{*1*2} Continuous shooting: 1/8 – 1/32000 ^{*1*2}
Shutter sound	Single shooting: Mechanical shutter sound Continuous shooting: Electronic shutter sound	Mechanical shutter sound	Electronic shutter sound
Blackout	Single shooting: Occurs Continuous shooting: Blackout-free ^{*3}	Occurs	Blackout-free ^{*3}
Flash	Available	Available	Unavailable




*1 The maximum shutter speed is 1/16000 second when the shooting mode is not set to S (Shutter Priority) or M (Manual Exposure), or during bracket shooting with a setting other than [WB bracket] or [DRO Bracket].

*2 The next value after 1/16000 second is 1/32000 second when the shooting mode is set to S (Shutter Priority) or M (Manual Exposure).

*3 When [Shoot. Start Disp.] is set to [On], blackout occurs only when the first image is shot.



Advanced shooting using the electronic shutter: Shooting without shutter sound




You can use the electronic shutter to shoot without shutter sound.

- MENU →  2 (Camera Settings2) → [ Shutter Type] → [Electronic Shut.].
 - Select [Electronic Shut.] or [Auto] for continuous shooting.
- MENU →  2 (Camera Settings2) → [Audio signals] → [Off] or [On:other than e-shut].


Advanced shooting using the electronic shutter: Blackout-free continuous shooting

You can use the electronic shutter to perform continuous shooting with focus and exposure tracking, without the screen blacking out.

- MENU →  2 (Camera Settings2) → [ Shutter Type] → [Auto] or [Electronic Shut.].
- Turn the mode dial and select P (Program Auto), A (Aperture Priority), S (Shutter Priority), or M (Manual Exposure), then set the shutter speed and aperture value. (For example: shutter speed of 1/250 second and aperture value of F2.8)
 - The product will not adjust the exposure in manual exposure mode when [ISO] is set to other than [ISO AUTO].

3. Turn the drive mode dial and select  (Continuous Shooting: Hi),  (Continuous Shooting: Mid), or  (Continuous Shooting: Lo).
4. Turn the focus mode dial and select AF-C (Continuous AF), then start shooting images.

Hint

- If you want to display the timing of shooting on the screen during blackout-free shooting, adjust the setting using MENU → 2 (Camera Settings2) → [Shoot. Timing Disp.].
- To take advantage of the performance of the camera, we recommend that you use a UHS-II memory card. When using a UHS-II memory card, insert it into the memory card slot 1.

Note


- When shooting without the shutter sound, do so on your own responsibility, with sufficient consideration to the privacy and portrait rights of the subject.
- Even if you set the camera to shoot without the shutter sound, it will not be completely silent.
- Even if you set the camera to shoot without the shutter sound, the aperture and focus will make sounds.
- If you set [Audio signals] to [Off], the camera will not beep when the subject comes into focus or when the self-timer is in operation.
- During blackout-free shooting, the slower the shutter speed, the lower the refresh rate of the screen. If you want the screen display to be smooth in order to track the subject, set a shutter speed faster than 1/125 second.
- The electronic shutter operates differently when a Mount Adaptor is attached on the camera.

Related Topic

- [Shutter Type \(still image\)](#)
- [Displaying the release timing \(Shoot. Timing Disp.\)](#)
- [Audio signals](#)
- [Cont. Shooting](#)
- [Shoot. Start Disp.](#)

Displaying the release timing (Shoot. Timing Disp.)

Sets the method for displaying the shutter release timing on the screen during blackout-free shooting.


1 MENU →  2 (Camera Settings2) → [Shoot. Timing Disp.] → desired setting.

Menu item details

On: Type1/On: Type2:

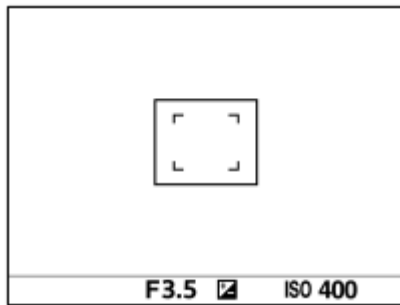
Displays a frame around the focusing frame.

On: Type3/On: Type4:

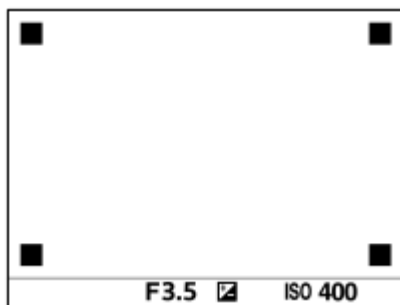
Displays  in the four corners of the screen.

Off:

Does not display the shutter release timing during blackout-free shooting.



[On: Type1]/[On: Type2] (Example)



[On: Type3]/[On: Type4]


Related Topic

- [Using the electronic shutter](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Shoot. Start Disp.

Sets whether to let the screen black out when shooting the first image during blackout-free shooting.

1 MENU →  2 (Camera Settings2) → [Shoot. Start Disp.] → desired setting.

Menu item details

On:


The screen blacks out when shooting the first image during blackout-free shooting.


Off:

The screen does not black out when shooting the first image during blackout-free shooting.

Interchangeable Lens Digital Camera
ILCE-9 α9

e-Front Curtain Shut.

The electronic front curtain shutter function shortens the time lag between when the shutter button is pressed and the shutter is released. You can use [e-Front Curtain Shut.] when [ Shutter Type] is set to [Mechanical Shut.].

1 MENU →  (Camera Settings2) → [e-Front Curtain Shut.] → desired setting.

Menu item details

On:

Uses the electronic front curtain shutter function.

Off:

Does not use the electronic front curtain shutter function.


Note

- When you shoot at high shutter speeds with a large-aperture lens attached, out-of-focus circle produced by the bokeh effect may get cut off because of the shutter mechanism. If this happens, set [e-Front Curtain Shut.] to [Off].
- When a lens made by another manufacturer (including a Minolta/Konica-Minolta lens) is used, set this function to [Off]. If you set this function to [On], the correct exposure will not be set or the image brightness will be uneven.
- When you shoot at high shutter speeds, the image brightness may become uneven depending on the shooting environment. In such cases, set [e-Front Curtain Shut.] to [Off].

Interchangeable Lens Digital Camera
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SteadyShot

Sets whether or not to use the SteadyShot function.

1 MENU →  2 (Camera Settings2) → [SteadyShot] → desired setting.

Menu item details

On:

Uses [SteadyShot].


Off:

Does not use [SteadyShot].

We recommend that you set [Off] when using a tripod.

SteadyShot Settings

You can shoot with an appropriate SteadyShot setting for the attached lens.

- 1 MENU →  2 (Camera Settings2) → [SteadyShot] → [On].
- 2 [SteadyShot Settings] → [SteadyShot Adjust.] → desired setting.

Menu item details

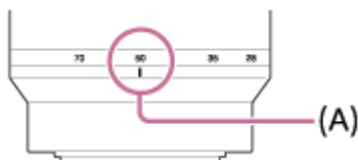
Auto:

Performs the SteadyShot function automatically according to the information obtained from the attached lens.



Manual:

Performs the SteadyShot function according to the focal-length set using [SteadyS. Focal Len.]. (8mm-1000mm)

- Check the focal-length index (A) and set the focal-length.



Note

- The SteadyShot function may not work optimally when the power has just been turned on, right after you point the camera towards a subject, or when the shutter button has been pressed all the way down without stopping halfway.
- When using a tripod, make sure to turn off the SteadyShot function because this can cause any malfunction when shooting.
- [SteadyShot Settings] will be unavailable when MENU →  2 (Camera Settings2) → [SteadyShot] is set to [Off].
- When the camera cannot obtain focal length information from the lens, the SteadyShot function does not work correctly. Set [SteadyShot Adjust.] to [Manual] and set [SteadyS. Focal Len.] to match the lens you are using. The current set value of the SteadyShot focal length will display to the side of .
- When using an SEL16F28 lens (sold separately) with a teleconverter, etc., set [SteadyShot Adjust.] to [Manual] and set the focal length.
- When you set [SteadyShot] to [On]/[Off], the SteadyShot settings of the camera and lens switch at the same time.
- If a lens equipped with a SteadyShot switch is attached, the settings can only be changed using that switch on the lens. You cannot switch the settings using the camera.

Related Topic

- [SteadyShot](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Lens Comp.: Shading Comp.

Compensates for the shaded corners of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Shading Comp.] → desired setting.

Menu item details

Auto:

Compensates for darker corners of the screen automatically.

Off:

Does not compensate for darker corners of the screen.

Note

- This function is only available when using an automatic compensation compliant lens.
- The amount of light around the edges may not be corrected, depending on the lens type.

Interchangeable Lens Digital Camera
ILCE-9 α9

Lens Comp.: Chro. Aber. Comp.

Reduces the color deviation at the corners of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Chro. Aber. Comp.] → desired setting.

Menu item details

Auto:

Reduces the color deviation automatically.

Off:

Does not compensate for the color deviation.

Note

- This function is only available when using an automatic compensation compliant lens.

Lens Comp.: Distortion Comp.

Compensates for the distortion of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Distortion Comp.] → desired setting.

Menu item details

Auto:

Compensates for distortion of the screen automatically.

Off:

Does not compensate for distortion of the screen.



Note

- This function is only available when using an automatic compensation compliant lens.
- Depending on the attached lens, [Distortion Comp.] is fixed to [Auto], and you cannot select [Off].

Interchangeable Lens Digital Camera
ILCE-9 α9

Long Exposure NR (still image)

When you set the shutter speed to 1 second(s) or longer (long exposure shooting), noise reduction is turned on for the duration that the shutter is open. With the function turned on, the grainy noise typical of long exposures is reduced.

1 MENU →  1 (Camera Settings1) → [ Long Exposure NR] → desired setting.

Menu item details





On:

Activates noise reduction for the same duration that the shutter is open. When noise reduction is in progress, a message appears and you cannot take another picture. Select this to prioritize the image quality.

Off:

Does not activate noise reduction. Select this to prioritize the timing of shooting.



Note

- [ Long Exposure NR] is not available when [ Shutter Type] is set to [Electronic Shut.].
- Noise reduction may not be activated even if [ Long Exposure NR] is set to [On] in the following situations:
 - [Drive Mode] is set to [Cont. Shooting] or [Cont. Bracket].
- [ Long Exposure NR] cannot be set to [Off] in the following shooting modes:
 - [Intelligent Auto]
- Depending on the shooting conditions, the camera may not perform noise reduction, even if the shutter speed is 1 second(s) or longer.

Interchangeable Lens Digital Camera
ILCE-9 α9

High ISO NR (still image)

When shooting with high ISO sensitivity, the product reduces noise that becomes more noticeable when the product sensitivity is high.

1 MENU →  1 (Camera Settings 1) → [ High ISO NR] → desired setting.

Menu item details

Normal:

Activates high ISO noise reduction normally.





Low:

Activates high ISO noise reduction moderately.

Off:


Does not activate high ISO noise reduction. Select this to prioritize the timing of shooting.

Note

- [ High ISO NR] is not available in the following shooting modes:
 - [Intelligent Auto]
- When [ Quality] is set to [RAW], this function is not available.
- [ High ISO NR] does not work for RAW images when the [ Quality] is [RAW & JPEG].

Face Detection

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

- 1 MENU →  1(Camera Settings1) → [Face Detection] → desired setting.

Menu item details

Off:

Does not use the [Face Detection] function.

On (Regist. Faces):

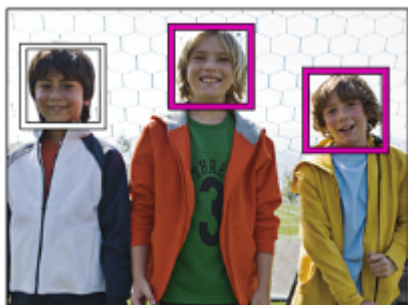
Detects the registered face with higher priority using [Face Registration].

On:

Detects a face without giving higher priority to the registered face.

Face Detection frame

- When the product detects a face, the gray face detection frame appears. When the product determines that autofocus is enabled, the face detection frame turns white. When you press the shutter button halfway down, the frame turns green.
- In case you have registered the priority order for each face using [Face Registration], the product automatically selects the first prioritized face and the face detection frame over that face turns white. The face detection frames of other registered faces turn reddish-purple.




Note

- You cannot use the Face Detection function with the following functions:
 - Other zoom functions than the optical zoom
 - [Picture Effect] is set to [Posterization].
 - When using the [Focus Magnifier] function.
 - [Record Setting] is set to [120p]/[100p].
 - [S&Q Frame Rate] is set to [120fps]/[100fps].
- Up to 8 faces of your subjects can be detected.
- The product may not detect faces at all or may accidentally detect other objects as faces in some conditions.

Interchangeable Lens Digital Camera
ILCE-9 α9

Face Registration (New Registration)

If you register faces in advance, the product can detect the registered face as a priority when [Face Detection] is set to [On (Regist. Faces)].

- 1 MENU →  1(Camera Settings1) → [Face Registration] → [New Registration].
- 2 Align the guide frame with the face to be registered, and press the shutter button.
- 3 When a confirmation message appears, select [Enter].

Note

- Up to eight faces can be registered.
- Shoot the face from the front in a brightly lit place. The face may not be registered correctly if it is obscured by a hat, a mask, sunglasses, etc.


Related Topic

- [Face Detection](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Face Registration (Order Exchanging)

When multiple faces are registered to be given priority, the face registered first will be given priority. You can change the priority order.

- 1 MENU →  1 (Camera Settings 1) → [Face Registration] → [Order Exchanging].
 - 2 Select a face to change the order of priority.
 - 3 Select the destination.
-


Related Topic

- [Face Detection](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Face Registration (Delete)

Deletes a registered face.

1 MENU →  1 (Camera Settings1) → [Face Registration] → [Delete].

If you select [Delete All], you can delete all registered faces.

Note

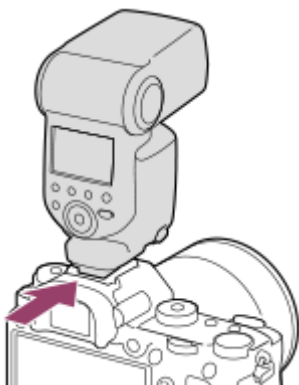
- Even if you execute [Delete], the data for registered face will remain in the product. To delete the data for registered faces from the product, select [Delete All].

Using flash (sold separately)

In dark environments, use the flash to light up the subject while shooting. Also use the flash to prevent camera-shake.

For details on the flash, refer to the instruction manual for the flash.

- 1 Attach the flash (sold separately) to the product.





- 2 Shoot after you have turned on the flash and it is fully charged.

⚡ blinking: Charging is in progress

⚡ lit up: Charging is finished

- The available flash modes depend on the shooting mode and function.

Note

- A flash cannot be used when [ Shutter Type] is set to [Electronic Shut.].
- A flash can be used during continuous shooting with [ Shutter Type] set to [Auto]. The mechanical shutter will be used.
- The light of the flash may be blocked if the lens hood is attached and the lower part of a recorded image may be shaded. Remove the lens hood.
- When using the flash, stand 1 m or more away from the subject.
- You cannot use the flash when recording movies. (You can use an LED light when using a flash (sold separately) with an LED light.)
- Before attaching/removing an accessory such as a flash to/from the Multi Interface Shoe, turn off the product first. When attaching an accessory, make sure that the accessory is fixed securely to the product.
- Do not use the Multi Interface Shoe with a commercially available flash that applies voltage of 250 V or more or has the reverse polarity of the camera. Doing so may cause a malfunction.
- You can use a flash of the reverse polarity with the Sync Terminal. Please use a flash with a sync voltage of 400 V or less.
- When shooting with the flash and the zoom is set to W, the shadow of the lens may appear on the screen, depending on the shooting conditions. If this happens, shoot away from the subject or set the zoom to T and shoot with the flash again.
- The corners of a recorded image may be shaded, depending on the lens.
- When shooting with an external flash, light and dark stripes may appear on the image if the shutter speed is set to faster than 1/4000 seconds. If this occurs, Sony recommends shooting in the manual flash mode and setting the flash level to 1/2 or higher.
- For details on compatible accessories for the Multi Interface Shoe, visit the Sony website, or consult your Sony dealer or local authorized Sony service facility.

Related Topic


- [Flash Mode](#)
- [Wireless flash shooting](#)
- [Using a flash with a sync terminal cord](#)

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Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

1 MENU →  1 (Camera Settings1) → [Red Eye Reduction] → desired setting.

Menu item details

On:

The flash is always fired to reduce the red-eye phenomenon.

Off:

Does not use Red Eye Reduction.

Note

- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or whether the subject looks at the pre-strobe or not.

Interchangeable Lens Digital Camera
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Flash Mode


You can set the flash mode.

1 MENU →  1 (Camera Settings1) → [Flash Mode] → desired setting.

Menu item details

 Flash Off:


The flash does not operate.

 Autoflash:

The flash works in dark environments or when shooting towards bright light.

 Fill-flash:

The flash works every time you trigger the shutter.

 Slow Sync.:

The flash works every time you trigger the shutter. Slow sync shooting allows you to shoot a clear image of both the subject and the background by slowing the shutter speed.

 Rear Sync.:

The flash works right before the exposure is completed every time you trigger the shutter. Rear sync shooting allows you to shoot a natural image of the trail of a moving subject such as a moving car or a walking person.

 Wireless:

Using a wireless flash creates a shading effect that gives the subject a more 3D appearance than when using an attached flash.

This mode is effective when you attach a remote control-compatible external flash (sold separately) to the product, and shoot with a wireless flash (sold separately), placed away from the product.

Note


- The default setting depends on the shooting mode.
- Some [Flash Mode] settings are not available, depending on the shooting mode.

Related Topic

- [Using flash \(sold separately\)](#)
- [Wireless flash shooting](#)

Flash Comp.

Adjusts the amount of flash light in a range of -3.0 EV to +3.0 EV. Flash compensation changes the amount of flash light only. Exposure compensation changes the amount of flash light along with the change of the shutter speed and aperture.

1 MENU →  1 (Camera Settings 1) → [Flash Comp.] → desired setting.

- Selecting higher values (+ side) makes the flash level higher, and lower values (- side) makes the flash level lower.

Note

- [Flash Comp.] does not work when the shooting mode is set to the following modes:
 - [Intelligent Auto]
- The higher flash effect (+ side) may not be visible due to the limited amount of flash light available, if the subject is outside the maximum range of the flash. If the subject is very close, the lower flash effect (- side) may not be visible.
- If you attach an ND filter to the lens or attach a diffuser or a color filter to the flash, the appropriate exposure may not be achieved and images may turn out dark. In this case, adjust [Flash Comp.] to the desired value.


Related Topic

- [Using flash \(sold separately\)](#)

FEL lock

The flash level is automatically adjusted so that the subject gets the optimum exposure during normal flash shooting. You can also set the flash level in advance.


FEL: Flash Exposure Level

1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → desired button, then assign the [FEL Lock toggle] function to the button.

2 Center the subject on which FEL is to be locked, and adjust the focus.



3 Press the button to which [FEL Lock toggle] is registered, and set the flash amount.

- A pre-flash flashes.
- The  (FEL lock) lights up.

4 Adjust the composition and shoot the image.



- When you want to release the FEL lock, press the button to which the [FEL Lock toggle] is registered again.

Flashes that support FEL lock


- HVL-F60M, HVL-F43M and HVL-F32M can be used as clip-ons, off-camera connected by a cable, and for wireless flash shooting (controller/remote).
- HVL-F20M can be used as a clip-on, off-camera connected with a cable, and for wireless flash shooting (controller).

Hint

- By setting [FEL Lock hold], you can hold the setting while the button is pressed down. Also, by setting [FEL Lock/AEL hold] and [FEL Lock/AEL tgle.], you can shoot images with the AE locked in the following situations.

- When [Flash Mode] is set to [Flash Off] or [Autoflash].
- When the flash cannot go off.
- When using an external flash that is set to manual flash mode.

Note


- The FEL lock cannot be set when a flash is not attached.
- If a flash that does not support the FEL lock is attached, an error message is displayed.
- When both AE and FEL lock are fixed,  lights up.

Related Topic


- [Custom Key\(Shoot.\)](#)/[Custom Key\(PB\)](#)

Wireless flash shooting

There are two ways to use the wireless flash. One way uses a light signal and the other uses a radio signal to communicate with the flash. The flash attached to the camera must be the controller in light signal flash shooting and a Wireless Radio Commander (sold separately) is required for radio signal wireless flash shooting. For details on how to set each method, refer to the instruction manual of the flash or the Wireless Radio Commander.

- 1 Remove the shoe cap from the camera, and then attach the flash or the Wireless Radio Commander.
 - In light signal wireless flash shooting, set the attached flash as the controller.
- 2 MENU →  1 (Camera Settings1) → [Flash Mode] → [Wireless].
- 3 Set up an off-camera flash that is set to wireless mode, or that is attached to the Wireless Radio Receiver (sold separately).
 - Press the AEL button on the camera to perform a test flashing.

Setting of the AEL button

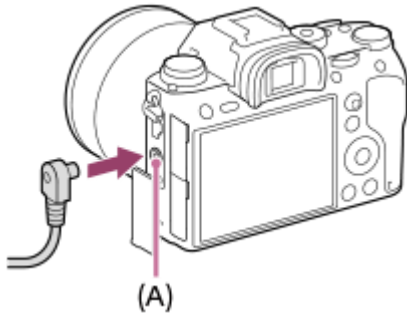
We recommend that you set MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → [AEL Button] to [AEL hold] when performing wireless flash shooting.

Note

- The off-camera flash may emit light after receiving a light signal from a flash used as the controller of another camera. If this occurs, change the channel of your flash. For details on how to change the channel, refer to the instruction manual for the flash.
- Two flashes (a controller and an off-camera flash) are required for light signal wireless flash shooting.
- HVL-F20M can only be used as the controller.

Using a flash with a sync terminal cord

- 1 Open the cover of ⚡ (flash sync) terminal (A), and connect the cord.



Hint

- If the screen is too dark to check the composition, set [Live View Display] to [Setting Effect OFF] to make it easy to check the composition when shooting with a flash.
- Flashes that have a sync terminal with reversed polarity can be used with this product.

Note

- Set the exposure mode to manual exposure (other than ISO AUTO is recommended for ISO sensitivity), and set the shutter speed to the slower of the following values or slower:
 - 1/200 seconds
 - The shutter speed recommended by the flash.
- Use flashes with a sync voltage of 400 V or lower.
- Turn off the flash connected to the sync cord when you connect the sync cord to the ⚡ (flash sync) terminal. Otherwise, the flash may emit light when the sync cord is connected.
- The flash power level is set to full power. [Flash Comp.] cannot be set.
- Auto white balance function is not recommended. Use the custom white balance function to achieve a more accurate white balance.
- When a flash is connected to the ⚡ (flash sync) terminal, the flash indicator will not be displayed.
- Flash cannot be used when [📷 Shutter Type] is set to [Electronic Shut.].

Related Topic

- [Manual Exposure](#)
- [Live View Display](#)
- [Flash Comp.](#)

Shooting movies

You can record movies by pressing the MOVIE (Movie) button.



1 Press the MOVIE button to start recording.

- Since the [MOVIE Button] is set to [Always] in the default setting, movie recording can be started from any shooting mode.






2 Press the MOVIE button again to stop recording.

Hint

- You can assign the start/stop movie recording function to a preferred key. MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set the function to the preferred key.
- When you want to specify the area to be focused on, set the area using [Focus Area].
- To keep the focus on a face, arrange the composition so that the focusing frame and face detection frame overlap, or set the [Focus Area] to [Wide].
- You can focus quickly while shooting movies by pressing the shutter button halfway down. (The sound of auto focus operation may be recorded in some cases.)
- To adjust the shutter speed and aperture value to the desired settings, set the shooting mode to  (Movie) and select the desired exposure mode.
- The following settings for still image shooting are applied to the movie shooting:
 - White Balance
 - Creative Style
 - Metering Mode
 - Face Detection
 - D-Range Opt.
 - Lens Comp.
- You can change the settings for ISO sensitivity, exposure compensation, and focus area while shooting movies.
- While shooting movies, the recorded image can be output without the shooting information display by setting [HDMI Info. Display] to [Off].

Note

- The sound of the lens and the product in operation may be recorded during movie recording. You can turn the sound off by selecting MENU →  2 (Camera Settings2) → [Audio Recording] → [Off].


- When shooting, the sound of the shoulder strap hooks (triangular hook) could be recorded, depending on the situation used.
- To prevent the operating sound of the zoom ring from being recorded during movie recording when a power zoom lens is used, we recommend recording movies using the zoom lever. When you move the zoom lever, place your finger lightly on the lever and operate it without flicking.
- The temperature of the camera tends to rise when shooting movies continuously, and you may feel that the camera is hot. This is not a malfunction. Also, [Internal temp. high. Allow it to cool.] may appear. In such cases, turn the camera off and wait until the camera is ready to shoot again.
- If the  icon appears, the temperature of the camera has risen.
- For the continuous shooting time of a movie recording, refer to “Recordable movie times.” When movie recording is finished, you can restart recording by pressing the MOVIE button again. Recording may stop to protect the product, depending on the temperature of the product or the battery.
- When the mode dial is set to  (Movie) or **S&Q** or when shooting movies, you cannot select [Lock-on AF] for [Focus Area].
- In [Program Auto] mode when shooting movies, the aperture value and the shutter speed will be set automatically and cannot be changed. For that reason, the shutter speed may become fast in a bright environment, and the motion of the subject may not record smoothly. By changing the exposure mode and adjusting the aperture value and the shutter speed, the motion of the subject can be recorded smoothly.
- In movie shooting mode, ISO sensitivity can be selected from ISO 100 to ISO 102400. If the ISO value is set to a value smaller than ISO 100, the setting is automatically switched to ISO 100. When you finish recording the movie, the ISO value returns to the original setting.
- In movie shooting mode, the following settings cannot be set in [Picture Effect]. When a movie recording starts, [Off] will be set temporarily.
 - Rich-tone Mono.
- If you point the camera at an extremely strong light source while shooting a movie at low ISO sensitivity, the highlighted area in the image may be recorded as a black area.
- If the display mode of the monitor is set to [For viewfinder], the display mode will switch to [Display All Info.] when movie shooting starts.
- Use PlayMemories Home when importing XAVC S movies, AVCHD movies, and MP4 movies to a computer.

Related Topic

- [MOVIE Button](#)
- [Movie w/ shutter](#)
- [File Format \(movie\)](#)
- [Angle of view during movie recording](#)
- [Recordable movie times](#)
- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Focus Area](#)

Movie w/ shutter

You can start or stop recording movies by pressing the shutter button, which is bigger and easier to press than the MOVIE (Movie) button.

- 1 MENU →  2 (Camera Settings2) → [Movie w/ shutter] → desired setting.

Menu item details


On:

Enables movie recording using the shutter button when the shooting mode is set to [Movie] or [S&Q Motion].

Off:

Disables movie recording using the shutter button.

Hint

- When [Movie w/ shutter] is set to [On], you can still start or stop recording movies using the MOVIE button.
- When [Movie w/ shutter] is set to [On], you can use the shutter button to start or stop recording movies on an external recorder using [ REC Control].

Note

- When [Movie w/ shutter] is set to [On], you cannot focus by pressing the shutter button halfway down during movie recording.

Related Topic

- [Shooting movies](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Movie recording formats

The following movie recording formats are available with this camera.

What is XAVC S?

Records movies in high definition such as 4K by converting them into MP4 movies using the MPEG-4 AVC/H.264 codec. MPEG-4 AVC/H.264 is capable of compressing images with higher efficiency. You can record high-quality images while reducing the amount of data.

XAVC S/AVCHD recording format

XAVC S 4K:

Bit-rate: Approx. 100 Mbps or approx. 60 Mbps

Records movies in 4K resolution (3840×2160).

XAVC S HD:

Bit-rate: Approx. 100 Mbps, approx. 60 Mbps, or approx. 50 Mbps

Records movies in crisper quality than AVCHD with larger amounts of data.

AVCHD:

Bit-rate: Approx. 28 Mbps (maximum), approx. 24 Mbps (maximum) or approx. 17 Mbps (average)

The AVCHD format has a high degree of compatibility with storage devices other than computers.



- Bit rate is the amount of data processed within a given period of time.

Related Topic

- [File Format \(movie\)](#)
- [Record Setting \(movie\)](#)
- [AVCHD format](#)

File Format (movie)

Selects the movie file format.




- 1 MENU →  2 (Camera Settings2) → [ File Format] → desired setting.

Menu item details

XAVC S 4K:

Records 4K movies in the XAVC S format. This format supports a high bit rate.


Audio: LPCM

- One of the following kinds of memory card is needed to record movies with [ File Format] set to [XAVC S 4K]:
 - Memory Stick PRO-HG Duo
 - Movies cannot be recorded in 100 Mbps or more.
 - SDHC / SDXC / microSDHC / microSDXC memory card (SD Speed Class 10, or UHS Speed Class U1 or faster)
 - UHS Speed Class U3 is required to record at 100 Mbps or more.
- [HDMI Info. Display] temporarily switches to [Off] when [ File Format] is set to [XAVC S 4K].
- Images will not appear on the monitor of the camera if you record movies while the camera is connected to an HDMI device with [ File Format] set to [XAVC S 4K].

XAVC S HD:

Records HD movies in the XAVC S format. This format supports a high bit rate.

Audio: LPCM

- One of the following kinds of memory card is needed to record movies with [ File Format] set to [XAVC S HD]:
 - Memory Stick PRO-HG Duo
 - Movies cannot be recorded at 100 Mbps or more.
 - SDHC / SDXC / microSDHC / microSDXC memory card (SD Speed Class 10, or UHS Speed Class U1 or faster)
 - UHS Speed Class U3 is required to record at 100 Mbps or more.

AVCHD:

Records HD movies in the AVCHD format. This file format is suitable for high-definition TV.

Audio: Dolby Digital

MP4:


Records MP4 (AVC) movies. This format is suitable for playback on smartphones or tablets, web uploads, email attachments, etc.


Audio: AAC

Hint

- You can save images to a computer or copy them to a disc compatible with your playback device using the PlayMemories Home software.

Note

- When [ File Format] is set to [AVCHD], the file size of movies is limited to approx. 2 GB. If the movie file size reaches approx. 2 GB during recording, a new movie file will be created automatically.



- When [ File Format] is set to [MP4], the file size of movies is limited to approx. 4 GB. If the movie file size reaches approx. 4 GB during recording, recording will stop automatically.

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Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording. The higher the bit-rate, the higher the image quality.

1 MENU →  (Camera Settings2) → [ Record Setting] → desired setting.

Menu item details

When [ File Format] is set to [XAVC S 4K]

Records high-definition movies by converting them into the MP4 file format using the MPEG-4 AVC/H.264 codec.

Frame Rate	Bit-rate	
	60 Mbps	100 Mbps
30p/25p	30p 60M/25p 60M	30p 100M/25p 100M
24p	24p 60M*	24p 100M*

* Only when [NTSC/PAL Selector] is set to NTSC

When [ File Format] is set to [XAVC S HD]

Records high-definition movies by converting them into the MP4 file format using the MPEG-4 AVC/H.264 codec.

Frame Rate	Bit-rate		
	50 Mbps	60 Mbps	100 Mbps
120p/100p	—	120p 60M/100p 60M	120p 100M/100p 100M
60p/50p	60p 50M/50p 50M	—	—
30p/25p	30p 50M/25p 50M	—	—
24p	24p 50M*	—	—

* Only when [NTSC/PAL Selector] is set to NTSC

When [ File Format] is set to [AVCHD]

60i/50i: Movies are recorded at approximately 60 fields/sec (for 1080 60i-compatible devices) or 50 fields/sec (for 1080 50i-compatible devices), in interlaced mode with Dolby Digital audio and in the AVCHD format.

24p/25p: Movies are recorded at approximately 24 frames/sec (for 1080 60i-compatible devices) or 25 frames/sec (for 1080 50i-compatible devices), in progressive mode with Dolby Digital audio and in the AVCHD format.

60p/50p: Movies are recorded at approximately 60 frames/sec (for 1080 60i-compatible devices) or 50 frames/sec (for 1080 50i-compatible devices), in progressive mode with Dolby Digital audio and in the AVCHD format.

Frame Rate	Bit-rate		
	17 Mbps	24 Mbps	28 Mbps
60i/50i	60i 17M(FH)/50i 17M(FH)	60i 24M(FX)/50i 24M(FX)	—




Frame Rate	Bit-rate		
	17 Mbps	24 Mbps	28 Mbps
60p/50p	—	—	60p 28M(PS)/50p 28M(PS)
24p/25p	24p 17M(FH)/25p 17M(FH)	24p 24M(FX)/25p 24M(FX)	—

When [ File Format] is set to [MP4]

Movies are recorded in the MPEG-4 format, at approximately 60 frames/sec (for 1080 60i-compatible devices), approximately 50 frames/sec (for 1080 50i-compatible devices), approximately 30 frames/sec (for 1080 60i-compatible devices), or approximately 25 frames/sec (for 1080 50i-compatible devices), in progressive mode with AAC audio and in the MP4 format.

Frame Rate	Bit-rate		
	6 Mbps	16 Mbps	28 Mbps
60p/50p	—	—	1920x1080 60p 28M/1920x1080 50p 28M
30p/25p	1280x720 30p 6M/1280x720 25p 6M	1920x1080 30p 16M/1920x1080 25p 16M	—



Note

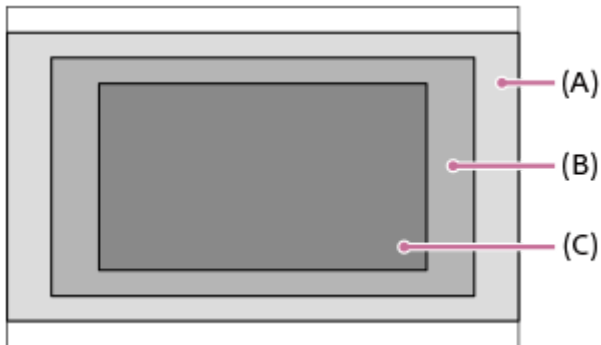
- Movies recorded with [60p 28M(PS)]/[50p 28M(PS)]/[60i 24M(FX)]/[50i 24M(FX)]/[24p 24M(FX)]/[25p 24M(FX)] as the [ Record Setting] are converted by PlayMemories Home in order to create an AVCHD recording disc. You cannot create a disc in the original image quality. The conversion can take a long time. If you want to keep the original image quality, store your movies on a Blu-ray Disc.
- To play back 60p/50p/24p/25p movies on a TV, the TV must be compatible with the 60p/50p/24p/25p format. If the TV is not compatible with the 60p/50p/24p/25p format, 60p/50p/24p/25p movies will be output as 60i/50i movies.
- [120p]/[100p] cannot be selected for the following settings.
 - [Intelligent Auto]
- In full-frame shooting, the angle of view will be narrower under the following conditions:
 - When [ File Format] is set to [XAVC S 4K] and [ Record Setting] is set to [30p]

Related Topic




- [APS-C/Super 35mm](#)
- [Angle of view during movie recording](#)

Angle of view during movie recording



The angle of view during movie recording depends on the settings for [ File Format], [ Record Setting], etc.



(A) Angle of view equivalent to full-frame

- When [ File Format] is set to [XAVC S 4K] and [ Record Setting] is set to [24p 60M]/[24p 100M]/[25p 60M]/[25p 100M]
- When [ File Format] is set to [XAVC S HD], [AVCHD] or [MP4]
- When the mode dial is set to **S&Q**

(B) Angle of view equivalent to approx. 1.2 times the focal length indicated on the lens

- When [ File Format] is set to [XAVC S 4K] and [ Record Setting] is set to [30p 60M] or [30p 100M]

(C) Angle of view equivalent to approx. 1.5 times the focal length indicated on the lens



- When [APS-C/Super 35mm] is set to [On]
- When [APS-C/Super 35mm] is set to [Auto] and an APS-C size dedicated lens is attached

Related Topic

- [File Format \(movie\)](#)
- [Record Setting \(movie\)](#)

S&Q Settings

You can record a moment that cannot be captured by the naked eye (slow-motion recording), or record a long-term phenomenon into a compressed movie (quick-motion recording). For example, you can record an intense sports scene, the moment when a bird starts to fly, a blooming flower, and a changing view of clouds or a starry sky. Sound will not be recorded.

- 1 Set the mode dial to **S&Q** (S&Q Motion).
- 2 Select MENU →  2 (Camera Settings2) → [**S&Q** Exposure Mode] → and select the desired setting of slow-motion/quick-motion (**S&Q** Program Auto, **S&Q** Aperture Priority, **S&Q** Shutter Priority, or **S&Q** Manual Exposure).
- 3 Select MENU →  2 (Camera Settings2) → [**S&Q** S&Q Settings] and select the desired settings for [**S&Q** Record Setting] and [**S&Q** Frame Rate].
- 4 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

S&Q Record Setting:

Selects the frame rate of the movie.

S&Q Frame Rate:

Selects the shooting frame rate.

Playback speed

The playback speed will vary as below depending on the assigned [**S&Q** Record Setting] and [**S&Q** Frame Rate].
When [NTSC/PAL Selector] is set to NTSC

S&Q Frame Rate	S&Q Record Setting		
	24p	30p	60p
120fps	5 times slower	4 times slower	-
60fps	2.5 times slower	2 times slower	Normal playback speed
30fps	1.25 times slower	Normal playback speed	2 times quick
15fps	1.6 times quick	2 times quick	4 times quick
8fps	3 times quick	3.75 times quick	7.5 times quick
4fps	6 times quick	7.5 times quick	15 times quick
2fps	12 times quick	15 times quick	30 times quick
1fps	24 times quick	30 times quick	60 times quick

When [NTSC/PAL Selector] is set to PAL

S&Q Frame Rate	S&Q Record Setting	
	25p	50p
100fps	4 times slower	-
50fps	2 times slower	Normal playback speed
25fps	Normal playback speed	2 times quick
12fps	2.08 times quick	4.16 times quick
6fps	4.16 times quick	8.3 times quick
3fps	8.3 times quick	16.6 times quick
2fps	12.5 times quick	25 times quick
1fps	25 times quick	50 times quick

- When [S&Q Frame Rate] is set to [120fps]/[100fps], you cannot set [S&Q Record Setting] to [60p]/[50p].

Note

- In slow-motion recording, the shutter speed becomes faster and you may not be able to obtain the proper exposure. If this happens, decrease the aperture value or adjust the ISO sensitivity to a higher value.
- For an estimation of recordable time, refer to “Recordable movie times.”
- The bit-rate of a recorded movie varies depending on the settings for [S&Q Frame Rate] and [S&Q Record Setting].
- The movie will be recorded in XAVC S HD format.
- During slow-motion/quick-motion recording, the following functions are not available.
 - [Dual Video REC]
 - [TC Run] under [TC/UB Settings]
 - [TC Output] under [HDMI Settings]
 - [4K Output Sel.]


Related Topic

- [S&Q Motion: Exposure Mode](#)
- [Recordable movie times](#)

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Dual Video REC

Allows you to simultaneously record an XAVC S movie and an MP4 movie, or an AVCHD movie and an MP4 movie. You can simultaneously record a movie in different movie formats onto a memory card. (To set the recording mode for 2 memory cards, such as simultaneous recording or sort recording, use [Recording Mode].)

1 MENU →  2 (Camera Settings2) → [Dual Video REC] → desired setting.

Menu item details







On:

An XAVC S movie and an MP4 movie, or an AVCHD movie and an MP4 movie, are recorded simultaneously.

Off:

The [Dual Video REC] function is not used.

Note

- When [Recording Mode] is set to [Simult. ()] or [Simult. ( / )], [Dual Video REC] will temporarily be set to [Off].
- When [ Record Setting] for an XAVC S movie is set to [60p]/[50p] or [120p]/[100p], [ Record Setting] for an AVCHD movie is set to [60p]/[50p], or [ File Format] is set to [MP4], [Dual Video REC] is set to [Off].
- If you select [Date View] in [View Mode] when playing back movies, XAVC S movies and MP4 movies, or AVCHD movies and MP4 movies are displayed side-by-side.


Related Topic

- [Record Setting \(movie\)](#)
- [Switching between still images and movies \(View Mode\)](#)
- [Recording Mode](#)

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Audio Recording

Sets whether to record sounds when shooting movies. Select [Off] to avoid recording the sounds of the lens and the camera operating.

① MENU →  2 (Camera Settings2) → [Audio Recording] → desired setting.

Menu item details

On:


Records sound (stereo).

Off:

Does not record sound.

Audio Level Display

Sets whether to display the audio level on the screen.

1 MENU →  2 (Camera Settings2) → [Audio Level Display] → desired setting.

Menu item details

On:

Displays the audio level.

Off:


Does not display the audio level.

Note

- The audio level is not displayed in the following situations:
 - When [Audio Recording] is set to [Off].
 - When DISP (Display Setting) is set to [No Disp. Info.].
 - During slow-motion/quick-motion shooting
- The audio level is also displayed while shooting stand-by in movie recording mode.

Audio Rec Level

You can adjust the audio recording level while checking the level meter.

- 1 MENU →  2 (Camera Settings2) → [Audio Rec Level].
- 2 Select the desired level using the right/left sides of the control wheel.

Menu item details

+:

Turns up the audio recording level.

-:

Turns down the audio recording level.


Reset:

Resets the audio recording level to the default setting.

Hint

- When you record audio movies with loud volumes, set [Audio Rec Level] to a lower sound level. Doing so enables you to record more realistic audio. When you record audio movies with lower volumes, set [Audio Rec Level] to a greater sound level to make the sound easier to hear.


Note

- Regardless of the [Audio Rec Level] settings, the limiter always operates.
- [Audio Rec Level] is available only when the shooting mode is set to movie mode.
- [Audio Rec Level] is unavailable during slow-motion/quick-motion shooting.
- The [Audio Rec Level] settings are applied for both the internal microphone and the  (microphone) terminal input.

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Audio Out Timing

You can set echo cancellation during audio monitoring and prevent undesirable deviations between video and audio during HDMI output.

1 MENU →  2 (Camera Settings2) → [Audio Out Timing] → desired setting.

Menu item details

Live:

Outputs audio without delay. Select this setting when audio deviation is a problem during audio monitoring.


Lip Sync:

Outputs audio and video in sync. Select this setting to prevent undesirable deviations between video and audio.

Interchangeable Lens Digital Camera
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Wind Noise Reduct.

Sets whether or not to reduce wind noise by cutting the low-range sound of the input audio from the built-in microphone.

1 MENU →  2 (Camera Settings2) → [Wind Noise Reduct.] → desired setting.

Menu item details

On:

Reduces wind noise.

Off:



Does not reduce wind noise.

Note

- Setting this item to [On] where wind is not blowing sufficiently hard may cause normal sound to be recorded with too low volume.
- When an external microphone (sold separately) is used, [Wind Noise Reduct.] does not function.

Auto Slow Shut. (movie)

Sets whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.




1 MENU →  2 (Camera Settings2) → [ Auto Slow Shut.] → desired setting.

Menu item details

On:
Uses Auto Slow Shutter. The shutter speed automatically slows when recording in dark locations. You can reduce noise in the movie by using a slow shutter speed when recording in dark locations.

Off:
Does not use Auto Slow Shutter. The recorded movie will be darker than when [On] is selected, but you can record movies with smoother motion and less object blur.



Note

- [ Auto Slow Shut.] does not function in the following situations:
 - During slow-motion/quick-motion shooting
 -  (Shutter Priority)
 -  (Manual Exposure)
 - When [ISO] is set to other than [ISO AUTO]

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AF drive speed (movie)

You can switch focusing speed when using autofocus in movie mode.

1 MENU →  2 (Camera Settings2) → [ AF drive speed] → desired setting.

Menu item details

Fast:

Sets the AF drive speed to fast. This mode is suitable for shooting active scenes, such as sports.

Normal:

Sets the AF drive speed to normal.



Slow:

Sets the AF drive speed to slow. With this mode, the focus switches smoothly when the subject to be focused is changed.

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AF Track Sens (movie)

You can set the AF sensitivity in movie mode.

1 MENU →  2 (Camera Settings2) → [ AF Track Sens] → desired setting.

Menu item details

Responsive:

Sets the AF sensitivity to high. This mode is useful when recording movies in which the subject is moving quickly.

Standard:

Sets the AF sensitivity to normal. This mode is useful when there are obstacles in front of the subject or in crowded places.

TC/UB Settings

The time code (TC) and the user bit (UB) information can be recorded as data attached to movies.

- 1 MENU →  (Setup) → [TC/UB Settings] → setting value you want to change.

Menu item details

TC/UB Disp. Setting:

Sets the display for the counter, time code, and user bit.

TC Preset:

Sets the time code.

UB Preset:

Sets the user bit.

TC Format:

Sets the recording method for the time code. (Only when [NTSC/PAL Selector] is set to NTSC.)

TC Run:

Sets the count up format for the time code.


TC Make:

Sets the recording format for the time code on the recording medium.



UB Time Rec:

Sets whether or not to record the time as a user bit.


How to set the time code (TC Preset)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Preset].
2. Turn the control wheel and select the first two digits.
 - The time code can be set between the following range.
When [60i] is selected: 00:00:00:00 to 23:59:59:29
 - * When [24p] is selected, you can select the last two digits of the time code in multiples of four from 0 to 23 frames.
When [50i] is selected: 00:00:00:00 to 23:59:59:24
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.



How to reset the time code

1. MENU →  (Setup) → [TC/UB Settings] → [TC Preset].
 2. Press the  (Delete) button to reset the time code (00:00:00:00).
- You can also reset the time code (00:00:00:00) using the RMT-VP1K remote commander (sold separately).

How to set the user bit (UB Preset)

1. MENU →  (Setup) → [TC/UB Settings] → [UB Preset].
2. Turn the control wheel and select the first two digits.
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.

How to reset the user bit

1. MENU →  (Setup) → [TC/UB Settings] → [UB Preset].
2. Press the  (Delete) button to reset the user bit (00 00 00 00).

How to select the recording method for the time code (TC Format^{*1})

1. MENU →  (Setup) → [TC/UB Settings] → [TC Format].

DF:

Records the time code in Drop Frame^{*2} format.

NDF:


Records the time code in Non-Drop Frame format.

*1 Only when [NTSC/PAL Selector] is set to NTSC.

*2 The time code is based on 30 frames per second. However, a gap between the actual time and the time code will occur during extended periods of recording as the frame frequency of the NTSC image signal is approximately 29.97 frames per second. Drop frame corrects this gap to make the time code and actual time equal. In drop frame, the first 2 frame numbers are removed every minute except for every tenth minute. The time code without this correction is called non-drop frame.

- The setting is fixed to [NDF] when recording in 4K/24p or 1080/24p.

How to select the count up format for the time code (TC Run)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Run].

Rec Run:

Sets the stepping mode for the time code to advance only while recording. The time code is recorded sequentially from the last time code of the previous recording.

Free Run:

Sets the stepping mode for the time code to advance anytime, regardless of the camera operation.

- The time code may not be recorded sequentially in the following situations even when the time code advances in [Rec Run] mode.
 - When the recording format is changed.
 - When the recording medium is removed.







How to select how the time code is recorded (TC Make)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Make].

Preset:

Records the newly set time code on the recording medium.


Regenerate:

Reads the last time code for the previous recording from the recording medium and records the new time code consecutively from the last time code. The time code is read from the memory card in the slot 1 when [Recording Mode] is set to [Simult. ()] or [Simult. ( / )]. The time code is read from the memory card to which the movies will be recorded when [Recording Mode] is set to [Standard], [Simult. ()], [Sort(JPEG/RAW)] or [Sort( / )]. The time code advances in [Rec Run] mode regardless of the [TC Run] setting.

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TC/UB Disp. Switch


Allows you to display the time code (TC) and user bit (UB) of a movie by pressing the key to which [TC/UB Disp. Switch] function has been assigned.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)]/[Custom Key(PB)] → assign the [TC/UB Disp. Switch] function to the desired key.
- 2 Press the key to which [TC/UB Disp. Switch] is assigned.
 - Each time you press the key, the monitor display will switch from the movie recording time counter → time code (TC) → user bit (UB), in that order.

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MOVIE Button

Sets whether or not to activate the MOVIE (Movie) button.

1 MENU →  2 (Camera Settings2) → [MOVIE Button] → desired setting.

Menu item details

Always:

Starts movie recording when you press the MOVIE button in any mode.



Movie Mode Only:

Starts movie recording when you press the MOVIE button only if the shooting mode is set to [Movie] or [S&Q Motion] mode.

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Marker Display (movie)

Sets whether or not to display markers set using [ Marker Settings] on the monitor or the viewfinder while shooting movies.

1 MENU →  (Camera Settings2) → [ Marker Display] → desired setting.

Menu item details


On:

Markers are displayed. The markers are not recorded.

Off:

No marker is displayed.

Note



- The markers are displayed when the mode dial is set to  (Movie) or **S&Q**, or when shooting movies.
- You cannot display markers when using [Focus Magnifier].
- The markers are displayed on the monitor or viewfinder. (You cannot output the markers.)

Related Topic

- [Marker Settings \(movie\)](#)

Marker Settings (movie)

Sets the markers to be displayed while shooting movies.

1 MENU →  2 (Camera Settings2) → [ Marker Settings] → desired setting.

Menu item details

Center:

Sets whether or not to display the center marker in the center of the shooting screen.

[Off]/[On]

Aspect:

Sets the aspect marker display.

[Off]/[4:3]/[13:9]/[14:9]/[15:9]/[1.66:1]/[1.85:1]/[2.35:1]

Safety Zone:

Sets the safety zone display. This becomes the standard range that can be received by a general household TV.

[Off]/[80%]/[90%]

Guideframe:

Sets whether or not to display the guide frame. You can verify whether the subject is level or perpendicular to the ground.




[Off]/[On]

Hint

- You can display several markers at the same time.
- Place the subject on the cross point of the [Guideframe] to make a balanced composition.

4K Output Sel. (movie)

You can set how to record movies and perform HDMI output when your camera is connected to 4K-compatible external recording/playback devices, etc.

- 1 Turn the mode dial to  (movie).
- 2 Connect the camera to the desired device via an HDMI cable.
- 3 MENU →  (Setup) → [ 4K Output Sel.] → desired setting.

Menu item details

Memory Card+HDMI:

Simultaneously outputs to the external recording/playback device and records on the camera's memory card.

HDMI Only(30p):

Outputs a 4K movie in 30p to the external recording/playback device without recording on the camera's memory card.

HDMI Only(24p):


Outputs a 4K movie in 24p to the external recording/playback device without recording on the camera's memory card.

HDMI Only(25p)*:

Outputs a 4K movie in 25p to the external recording/playback device without recording on the camera's memory card.

* Only when [NTSC/PAL Selector] is set to PAL.

Note

- This item can be set only when the camera is in movie mode and connected to a 4K-compatible device.
- When [HDMI Only(30p)], [HDMI Only(24p)] or [HDMI Only(25p)] is set, [HDMI Info. Display] will temporarily be set to [Off].
- A 4K movie is not output to the connected 4K-compatible device during slow-motion/quick-motion shooting.
- When [HDMI Only(30p)], [HDMI Only(24p)] or [HDMI Only(25p)] is set, the counter does not move forward (the actual recording time is not counted) while the movie is being recorded on an external recording/playback device.
- When [ File Format] is set to [XAVC S 4K] and [Dual Video REC] is set to [On], the following functions are not available.
 - [Face Detection]
 - [Center Lock-on AF]


Related Topic

- [HDMI Settings: REC Control \(movie\)](#)
- [File Format \(movie\)](#)
- [Record Setting \(movie\)](#)
- [HDMI Settings: HDMI Info. Display](#)

Interchangeable Lens Digital Camera
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Video Light Mode

Sets the illumination setting for the HVL-LBPC LED light (sold separately).

1 MENU →  2 (Camera Settings2) → [Video Light Mode] → desired setting.

Menu item details

Power Link:

The video light turns on/off in sync with the ON/OFF operation of this camera.

REC Link:

The video light turns on/off in sync with movie recording start/stop.

REC Link&STBY:


The video light turns on when movie recording starts and dims when not recording (STBY).

Auto:


The video light automatically turns on when it is dark.

Playing back still images

Plays back the recorded images.

- 1 Press the  (Playback) button to switch to the playback mode.
- 2 Select the image with the control wheel.

Hint


- The product creates an image database file on a memory card to record and play back images. An image that is not registered in the image database file may not be played back correctly. To play back images shot using other devices, register those images to the image database file using MENU →  (Setup) → [Recover Image DB].
- If you play back the images right after continuous shooting, the monitor may display an icon indicating that data is being written/the number of images left to write. During writing, some functions are not available.
- You can also enlarge an image by double-tapping the monitor. In addition, you can drag and move the magnified position on the monitor. Set [Touch Operation] to [On] beforehand.

Related Topic




- [Recover Image DB](#)
- [Selecting which memory card to play back \(Select PB Media\)](#)

Enlarging an image being played back (Playback zoom)

Enlarges the image being played back. Use this function to check the focus of the image, etc.

- 1 Display the image you want to enlarge, and then press the  button.
 - Turn the control wheel to adjust the zoom scale.
By rotating the front/rear dial, you can switch to the previous or next image while keeping the same zoom scale.
 - The view will zoom in on the part of the image where the camera focused during shooting. If the focus location information cannot be obtained, the camera will zoom in on the center of the image.
- 2 Select the portion you want to enlarge by pressing the top/bottom/right/left sides of the control wheel.
- 3 Press the MENU button or the center of the control wheel to exit the playback zoom.

Hint

- You can also enlarge an image being played back using MENU.
- You can change the initial magnification and initial position of enlarged images by selecting MENU →  (Playback) → [ Enlarge Init. Mag.] or [ Enlarge Initial Pos.].
- You can also enlarge an image by double-tapping the monitor. In addition, you can drag and move the magnified position on the monitor. Set [Touch Operation] to [On] beforehand.

Note

- You cannot enlarge movies.

Related Topic

- [Touch Operation](#)

Rotating recorded images automatically (Display Rotation)

Selects the orientation when playing back recorded images.

1 MENU →  (Playback) → [Display Rotation] → desired setting.

Menu item details

Auto:

When you rotate the camera, the displayed image rotates automatically by detecting the orientation of the camera.

Manual:

Images shot vertically are displayed vertically. If you have set the image orientation using the [Rotate] function, the image will be displayed accordingly.

Off:


Images are always displayed horizontally.

Related Topic

- [Rotating an image \(Rotate\)](#)

Rotating an image (Rotate)

Rotates a recorded still image counter-clockwise.

1 Display the image to be rotated, then select MENU →  (Playback) → [Rotate].

2 Press the center of the control wheel.

The image is rotated counter-clockwise. The image rotates as you press the center.

If you rotate the image once, the image remains rotated even after the product is turned off.

Note

- You cannot rotate the movies.
- You may not be able to rotate images shot using other products.
- When viewing rotated images on a computer, the images may be displayed in their original orientation depending on the software.

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Enlarge Init. Mag.

Sets the initial magnification scale when playing back enlarged images.

1 MENU →  (Playback) → [ Enlarge Init. Mag.] → desired setting.

Menu item details

Standard. Mag.:

Displays an image with the standard magnification.

Previous Mag.:

Displays an image with the previous magnification. The previous magnification is stored even after exiting the playback zoom mode.



Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)
- [Enlarge Initial Pos.](#)

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Enlarge Initial Pos.

Sets the initial position when enlarging an image in playback.

1 MENU →  (Playback) → [ Enlarge Initial Pos.] → desired setting.

Menu item details

Focused Position:

Enlarges the image from the point of focus during shooting.

Center:


Enlarges the image from the center of the screen.

Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)
- [Enlarge Init. Mag.](#)














Playing back movies

Plays back the recorded movies.

- 1 Press the  (playback) button to switch to playback mode.
- 2 Select the movie to be played back using the control wheel and press the center of the control wheel to start playback.

Available operations during movie playback

You can perform slow playback and sound volume adjustment, etc. by pressing the down side of the control wheel.

-  : Playback
-  : Pause
-  : Fast-forward
-  : Fast-rewind
-  : Forward slow playback
-  : Reverse slow playback
-  : Next movie file
-  : Previous movie file
-  : Displays the next frame
-  : Displays the previous frame
-  : Photo Capture
-  : Sound volume adjustment
-  : Closes the operation panel

Hint

- "Forward slow playback," "Reverse slow playback," "Displays the next frame" and "Displays the previous frame" are available during pause.
- Movie files recorded using other products may not be able to be playable on this camera.


Related Topic

- [Switching between still images and movies \(View Mode\)](#)
- [Selecting which memory card to play back \(Select PB Media\)](#)

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Volume Settings

Sets the sound volume for movie playback.

1 MENU →  (Setup) → [Volume Settings] → desired setting.



Adjusting the volume during playback

Press the bottom side of the control wheel while playing back movies to display the operation panel, then adjust the volume. You can adjust the volume while listening to the actual sound.

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Photo Capture

Captures a chosen scene in a movie to save as a still image. First shoot a movie, then pause the movie during playback to capture decisive moments that tend to be missed when shooting still images, and save them as still images.


- 1 Display the movie that you want to capture as a still image.
 - 2 MENU →  (Playback) → [Photo Capture].
 - 3 Play back the movie and pause it.
 - 4 Find the desired scene using forward slow playback, reverse slow playback, displays the next frame, and displays the previous frame, and then stop the movie.
 - 5 Press  (Photo Capture) to capture the chosen scene.
The scene is saved as a still image.
-
-

Related Topic


- [Shooting movies](#)
- [Playing back movies](#)

Playing back images on the image index screen (Image Index)

You can display multiple images at the same time in playback mode.

- 1 Press the  (Image Index) button while the image is being played back.
- 2 Select the image by pressing the top/bottom/right/left sides of the control wheel or turning the control wheel.

To change the number of images to be displayed

MENU →  (Playback) → [Image Index] → desired setting.

Menu item details

9 Images/25 Images

To return to single-image playback

Select the desired image and press the center of the control wheel.

To display a desired image quickly


Select the bar on the left of the image index screen using the control wheel, then press the top/bottom sides of the control wheel. While the bar is being selected, you can display the calendar screen or folder selection screen by pressing the center. In addition, you can switch View Mode by selecting an icon.

Related Topic


- [Switching between still images and movies \(View Mode\)](#)

Switching between still images and movies (View Mode)

Sets the View Mode (image display method).

- 1 MENU →  (Playback) → [View Mode] → desired setting.

Menu item details

 Date View:

Displays the images by date.

 Folder View(Still):

Displays only still images.

 MP4 Folder View(MP4):

Displays only MP4-format movies.

 AVCHD AVCHD View:

Displays only AVCHD-format movies.

 XAVC S HD View:


Displays only XAVC S HD-format movies.

 XAVC S 4K View:

Displays only XAVC S 4K-format movies.

Selecting which memory card to play back (Select PB Media)

Selects the memory card slot to be played back.

1 MENU →  (Playback) → [Select PB Media] → desired slot.

Menu item details

Slot 1:

Selects the slot 1.

Slot 2:

Selects the slot 2.

Note

- No image is played back when no memory card is inserted in the selected slot. Select a slot into which a memory card has been inserted.
- When you select [Date View] in [View Mode], the camera only plays back images from a memory card selected using [Select PB Media].

Related Topic

- [Switching between still images and movies \(View Mode\)](#)
- [Selecting which memory card to record to \(Select Rec. Media\)](#)


Copying images from one memory card to another (Copy)

You can copy images from a memory card in a slot that is selected using [Select PB Media] to a memory card in another slot.

1 MENU →  (Playback) → [Copy].

All of the contents with a date or in a folder currently being played back will be copied to a memory card in another slot.

Hint

- You can select the type of images to be displayed by selecting MENU →  (Playback) → [View Mode].

Note


- It may take a long time when many images are to be copied. Use a sufficiently charged battery pack.
- XAVC S movies can only be copied to a memory card that supports XAVC S movies. A message will be displayed on the monitor of the camera when images cannot be copied.

Related Topic

- [Selecting which memory card to play back \(Select PB Media\)](#)
- [Switching between still images and movies \(View Mode\)](#)

Playing back images using slideshow (Slide Show)

Automatically plays back images continuously.

- 1 MENU →  (Playback) → [Slide Show] → desired setting.
- 2 Select [Enter].

Menu item details

Repeat:

Select [On], in which images are played back in a continuous loop, or [Off], in which the product exits the slideshow when all the images are played back once.

Interval:

Select the display interval for images from among [1 Sec], [3 Sec], [5 Sec], [10 Sec] or [30 Sec].


To quit the slideshow in the middle of playback


Press the MENU button to quit the slideshow. You cannot pause the slideshow.

Hint

- During playback, you can display the next/previous image by pressing the right/left side of the control wheel.
- You can activate a slideshow only when [View Mode] is set to [Date View] or [Folder View(Still)].

Protecting images (Protect)



Protects recorded images against accidental erasure. The  mark is displayed on protected images.

1 MENU →  (Playback) → [Protect] → desired setting.

Menu item details

Multiple Img.:

Applies or cancels the protection of the selected multiple images.

(1) Select the image to be protected, then press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again to remove the  mark.

(2) To protect other images, repeat step (1).

(3) MENU → [OK].

All in this Folder:

Protects all images in the selected folder.

All with this date:

Protects all images in the selected date range.

Cancel All in this Folder:

Cancels the protection of all images in the selected folder.

Cancel All with this date:

Cancels the protection of all images in the selected date range.

Note

- The menu items that can be selected differ depending on the [View Mode] setting.

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Specifying images to be printed (Specify Printing)



You can specify in advance on the memory card which still images you want to print out later. The **DPOF** (print order) icon will appear on the specified images. DPOF refers to "Digital Print Order Format." DPOF setting will be retained after the image is printed. We recommend that you cancel this setting after printing.

1 MENU →  (Playback) → [Specify Printing] → desired setting.

Menu item details

Multiple Img.:

Selects images to order printing.

(1) Select an image and press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again and delete the  mark.

(2) Repeat step (1) to print other images. To select all the images from a certain date or in a certain folder, select the check box for the date or folder.

(3) MENU → [OK].

Cancel All:

Clears all DPOF marks.

Print Setting:

Sets whether to print the date on images registered with DPOF marks.

- The position or size of the date (inside or outside of the image) may differ depending on the printer.


Note

- You cannot add the DPOF mark to the following files:
 - RAW images
- The number of copies cannot be specified.
- Some printers do not support the date print function.

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Deleting a displayed image

You can delete an image displayed. Once you have deleted an image, you cannot restore it. Confirm the image to be deleted beforehand.

- 1 Display the image you want to delete.
- 2 Press the  (Delete) button.
- 3 Select [Delete] using the control wheel.

Note


- The protected images cannot be deleted.

Related Topic

- [Deleting multiple selected images \(Delete\)](#)

Deleting multiple selected images (Delete)



You can delete multiple selected images. Once you have deleted an image, you cannot restore it. Confirm the image to be deleted beforehand.

- 1 MENU →  (Playback) → [Delete] → desired setting.

Menu item details

Multiple Img.:

Deletes the selected images.

- (1) Select the images to be deleted, then press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again to remove the  mark.
- (2) To delete other images, repeat step (1).
- (3) MENU → [OK].


All in this Folder:

Deletes all images in the selected folder.

All with this date:

Deletes all images in the selected date range.

Hint

- Perform [Format] to delete all images, including protected images.
- To display the desired folder or date, select the desired folder or date during playback by performing the following procedure:
 (Image Index) button → select the bar on the left using the control wheel → select the desired folder or date using the top/bottom sides of the control wheel.

Note

- The protected images cannot be deleted.
- The menu items that can be selected differ depending on the [View Mode] setting.

Related Topic

- [Deleting a displayed image](#)
- [Format](#)

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Delete confirm.

You can set whether [Delete] or [Cancel] is selected as a default on the delete confirmation screen.

1 MENU →  (Setup) → [Delete confirm.] → desired setting.

Menu item details

"Delete" first:

[Delete] is selected as the default setting.

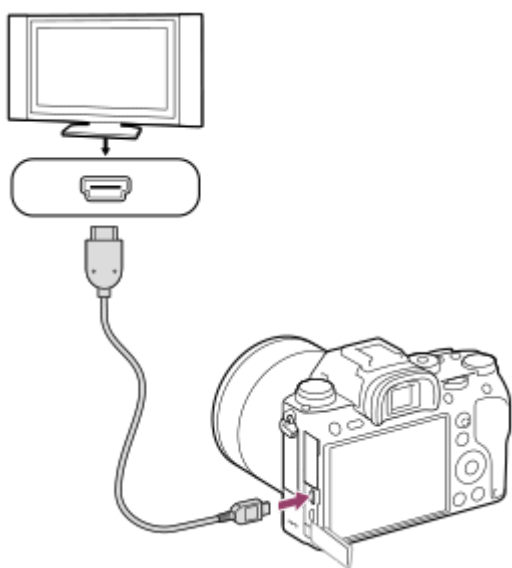
"Cancel" first:


[Cancel] is selected as the default setting.

Viewing images on a TV using an HDMI cable

To view images stored on this product using a TV, an HDMI cable (sold separately) and an HD TV equipped with an HDMI jack are required.


- 1 Turn off both this product and the TV.
- 2 Connect the HDMI micro terminal of this product to the HDMI jack of the TV using an HDMI cable (sold separately).




- 3 Turn on the TV and switch the input.
- 4 Turn on this product.
Images shot with the product appear on the TV screen.
- 5 Select an image using the right/left sides of the control wheel.
 - The monitor of this camera is not lit up on the playback screen.
 - If the playback screen is not displayed, press the  (Playback) button.

“BRAVIA” Sync

By connecting this product to a TV that supports “BRAVIA” Sync using an HDMI cable (sold separately), you can operate this product's playback functions with the TV remote control.






1. After performing the steps above to connect this camera to a TV, select MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → [On].
2. Press the SYNC MENU button on the TV remote control, and select the desired mode.
 - If you connect this camera to a TV using an HDMI cable, available menu items are limited.
 - Only TVs that support “BRAVIA” Sync can provide SYNC MENU operations. For details, refer to the operating instructions supplied with the TV.

- If the product performs unwanted operations in response to the TV remote control when the product is connected to another manufacturer's TV using an HDMI connection, select MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → [Off].

Hint

- This product is compatible with the PhotoTV HD standard. If you connect Sony PhotoTV HD-compatible devices using an HDMI cable (sold separately), the TV is set to the image quality suitable for viewing still images, and a whole new world of photos can be enjoyed in breathtaking high quality.
- You can connect this product to Sony PhotoTV HD-compatible devices with a USB terminal using the supplied micro USB cable.
- The PhotoTV HD allows for a highly-detailed, photo-like expression of subtle textures and colors.
- For details, refer to the operating instructions supplied with the compatible TV.




Note

- Do not connect this product and another device using the output terminals of both. Doing so may cause a malfunction.
- Some devices may not work properly when connected to this product. For example, they may not output video or audio.
- Use an HDMI cable with the HDMI logo or a genuine Sony cable.
- Use an HDMI cable that is compatible with the HDMI micro terminal of the product and the HDMI jack of the TV.
- When [ TC Output] is set to [On], the image may not be output properly to the TV or recording device. In such cases, set [ TC Output] to [Off].
- If images do not appear on the TV screen properly, select MENU →  (Setup) → [HDMI Settings] → [HDMI Resolution] → [2160p/1080p], [1080p] or [1080i] according to the TV to be connected.
- During HDMI output, when you switch the movie from 4K to HD image quality or vice-versa, or change the movie to a different frame rate, the screen may become dark. This is not a malfunction.
- When [NTSC/PAL Selector] is set to PAL, the screen may black out for an instant in the following situations. This is not a malfunction.
 - When you start or stop recording movies while the shooting mode is set to a mode other than  (Movie) or **S&Q**.
 - When you change the shooting mode from  (Movie) or **S&Q** to another mode.
 - When you play back a movie for the first time after switching to the playback mode.

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Memory (Camera Settings1/Camera Settings2)

Allows you to register up to 3 often-used modes or product settings to the product and up to 4 (M1 through M4) to the memory card. You can recall the settings using just the mode dial.

- 1 Set the product to the setting you want to register.
- 2 MENU →  1(Camera Settings1) → [ 1/  2 Memory] → desired number.
- 3 Press the center of the control wheel to confirm.

Items that can be registered

- You can register various functions for shooting. The items that can actually be registered are displayed on the menu of the camera.
- Aperture (F number)
- Shutter speed

To change registered settings

Change the setting to the desired one and re-register the setting to the same mode number.

Note



- M1 through M4 can be selected only when a memory card is inserted into the product.
- When registering the settings on a memory card, only a memory card that has been selected using [Select Rec. Media] can be used.
- Program Shift cannot be registered.
- For some functions, the position of the dial and the setting actually used for shooting may not match. If this happens, shoot images by referring to the information displayed on the monitor.

Related Topic

- [Recall \(Camera Settings1/Camera Settings2\)](#)

Registering shooting settings to a custom key (Reg Cust Shoot Set)


You can register shooting settings (such as exposure, focus setting, drive mode, etc.) to a custom key in advance and temporarily recall them while holding down the key. Simply press the custom key to switch the settings quickly and release the key to go back to the original settings. This function is useful when recording active scenes such as sports.

- 1 MENU →  1 (Camera Settings1) → [Reg Cust Shoot Set] → Select a registration number from [Recall Custom hold 1] to [Recall Custom hold 3].
The setting screen for the selected number will be displayed.
- 2 Using the top/bottom/left/right side of the control wheel, select the check boxes for the functions that you want to recall with one of the registration numbers and press the center to check each box.
A  mark will be displayed in the boxes for the functions.
 - To cancel a selection, press the center again.
- 3 Select the function that you want to adjust using the top/bottom/left/right side of the control wheel, and press the center to adjust the function to the desired setting.
 - Select [Import Current Setting] to register the current settings of the camera to the registration number that you chose.
- 4 Select [Register].

Items that can be registered

- You can register various functions for shooting. The items that can actually be registered are displayed on the menu of the camera.
- Exposure
- Focus setting
- Drive mode (other than self-timer)

To recall registered settings

1. MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → Select the desired key and then select one of the registration numbers from [Recall Custom hold 1] to [Recall Custom hold 3].
2. On the shooting screen, press the shutter button while holding down the key to which you assigned one of the registration numbers.
The registered settings are activated while you are holding down the custom key.

Hint

- You can change the settings for [Reg Cust Shoot Set] after assigning one of the registration numbers to the custom key using [Custom Key(Shoot.)].

Note

- The registration numbers [Recall Custom hold 1] through [Recall Custom hold 3] are available only when the shooting mode is set to P/A/S/M.
- Depending on the attached lens and the status of the camera when the registered setting recall is executed, the registered settings may not take effect.

Related Topic


- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

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Custom Key(Shoot.)/Custom Key(PB)

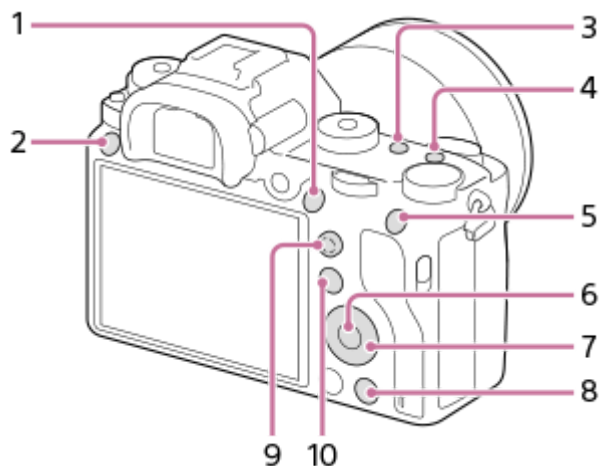
You can assign a desired function to a desired key.


Some functions are available only when they are assigned to a custom key. For example, if you assign [Eye AF] to [Center Button] for [Custom Key(Shoot.)], you can easily recall [Eye AF] simply by pressing the center of the control wheel while shooting.

1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] or [Custom Key(PB)].

2 Select the key to which you want to assign the function on the selection screen, and press the center of the control wheel.

- The keys that can be assigned functions are different for [Custom Key(Shoot.)] and [Custom Key(PB)].
- You can assign the desired functions to the following keys.



1. AF-ON Button
2. Custom Button 3
3. Custom Button 2
4. Custom Button 1
5. AEL Button
6. Center Button
7. Control Wheel/Down Button/Left Button/Right Button
8. Custom Button 4
9. Multi-Slc Center Btn
10. Fn/  Button

- You can also assign a shooting function to the focus hold button on the lens. However, some lenses do not have a focus hold button.

3 Select the function to be assigned.

- The functions that can be assigned differ depending on the keys.


- Using the multi-selector
- Focus Standard

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Function Menu Set.

You can assign the functions to be called up when you press the Fn (Function) button.

- 1 MENU →  (Camera Settings2) → [Function Menu Set.] → set a function to the desired location.
 - The functions that can be assigned are displayed on the setup item selection screen.

Dial Setup



You can switch the functions of the front/rear dial.

- 1 MENU →  2 (Camera Settings2) → [Dial Setup] → desired setting.

Menu item details

 SS  F/no.:

The front dial is used to change the shutter speed and the rear dial to change the aperture value.

 F/no.  SS:


The front dial is used to change the aperture value and the rear dial to change the shutter speed.

Note

- The [Dial Setup] function is enabled when the shooting mode is set to "M."

Lock Operation Parts

You can set whether the multi-selector, dials, and wheel can be locked by pressing and holding down the Fn (Function) button.

- 1 MENU →  2 (Camera Settings2) → [Lock Operation Parts] → desired setting.
 - To lock the operating parts, hold down the Fn (function) button until the message “Locked.” appears on the monitor.


Menu item details

- Off:**
Does not lock the multi-selector, front dial, rear dial, or control wheel even if you press and hold down the Fn (Function) button.
- Multi-Selector Only:**
Locks the multi-selector.
- Dial + Wheel:**
Locks the front dial, rear dial, and control wheel.
- All:**
Locks the multi-selector, front dial, rear dial, and control wheel.

Hint

- You can release the lock by holding the Fn (Function) button down again.

Note

- If you set [ AF Area Regist.] to [On], [Lock Operation Parts] will be fixed to [Off].

Related Topic

- [Registering the current focus area \(AF Area Regist.\)](#)

Add Item


You can register the desired menu items to ★ (My Menu) under MENU.

- 1 MENU → ★ (My Menu) → [Add Item].
- 2 Select an item that you want to add to ★ (My Menu) using the top/bottom/left/right sides of the control wheel.
- 3 Select a destination using the top/bottom/left/right sides of the control wheel.

Hint

- You can add up to 30 items to ★ (My Menu).

Note

- You cannot add the following items to ★ (My Menu).
 - Any item under MENU →  (Playback)
 - [View on TV]

Related Topic

- [Sort Item](#)
- [Delete Item](#)
- [Using MENU items](#)

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Sort Item

You can rearrange the menu items added to ★ (My Menu) under MENU.

- 1 MENU → ★ (My Menu) → [Sort Item].
 - 2 Select an item that you want to move using the top/bottom/left/right sides of the control wheel.
 - 3 Select a destination using the top/bottom/left/right sides of the control wheel.
-

Related Topic

- [Add Item](#)

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Delete Item

You can delete menu items added to ★ (My Menu) of MENU.

- 1 MENU → ★ (My Menu) → [Delete Item].
- 2 Select an item that you want to delete using the top/bottom/left/right sides of the control wheel, and then press the center to delete the selected item.

Hint

- To delete all the items on a page, select MENU → ★ (My Menu) → [Delete Page].
- You can delete all the items added to ★ (My Menu) by selecting MENU → ★ (My Menu) → [Delete All].

Related Topic

- [Delete Page](#)
- [Delete All](#)
- [Add Item](#)

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Delete Page

You can delete all the menu items added to a page under ★ (My Menu) in MENU.

- 1 MENU → ★ (My Menu) → [Delete Page].
 - 2 Select an item that you want to delete using the left/right sides of the control wheel, and then press the center of the control wheel to delete the items.
-

Related Topic

- [Add Item](#)
- [Delete All](#)

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Delete All

You can delete all the menu items added to ★ (My Menu) in MENU.

- 1 MENU → ★ (My Menu) → [Delete All].
 - 2 Select [OK].
-


Related Topic

- [Add Item](#)
- [Delete Page](#)

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Auto Review

You can check the recorded image on the screen right after the shooting. You can also set the display time for Auto Review.

1 MENU →  2 (Camera Settings2) → [Auto Review] → desired setting.

Menu item details

10 Sec/5 Sec/2 Sec:

Displays the recorded image on the screen right after shooting for the selected duration of time. If you perform a magnifying operation during Auto Review, you can check that image using the magnified scale.

Off:

Does not display the Auto Review.

Note


- When you use a function that performs image processing, the image before processing may be displayed temporarily, followed by the image after processing.
- The DISP (Display Setting) settings are applied for the Auto Review display.

Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)

Aperture Preview

While you press and hold the key to which you assigned the [Aperture Preview] function, the aperture is stepped down to the set aperture value and you can check the blurriness prior to shooting.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set the [Aperture Preview] function to the desired key.
- 2 Confirm the image by pressing the key to which [Aperture Preview] was assigned.

Hint


- Although you can change the aperture value during the preview, the subject may be defocused if you select a brighter aperture. We recommend that you adjust the focus again.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Shot. Result Preview](#)

Shot. Result Preview

While pressing down the key to which [Shot. Result Preview] is assigned, you can check the image preview with the DRO, shutter speed, aperture and ISO sensitivity settings applied. Check the shooting result preview before shooting.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set the [Shot. Result Preview] function to the desired key.
- 2 Confirm the image by pressing the key to which [Shot. Result Preview] was assigned.

Hint


- The DRO settings, shutter speed, aperture and ISO sensitivity settings you have set are reflected on the image for [Shot. Result Preview], but some effects cannot be previewed depending on the shooting settings. Even in that case, the settings you have selected will be applied to the images you shoot.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Aperture Preview](#)

Live View Display

Sets whether or not to show images altered with effects of the exposure compensation, white balance, [Creative Style], or [Picture Effect] on the screen.

- 1 MENU →  2 (Camera Settings2) → [Live View Display] → desired setting.

Menu item details

Setting Effect ON:

Displays Live View in conditions close to what your picture will look like as a result of applying all your settings. This setting is useful when you want to shoot pictures while checking the results of the shot on the Live View screen.

Setting Effect OFF:

Displays Live View without the effects of exposure compensation, white balance, [Creative Style], or [Picture Effect]. When this setting is used, you can easily check the image composition.

Live View is always displayed with the appropriate brightness even in [Manual Exposure] mode.

When [Setting Effect OFF] is selected, the **VIEW** icon is displayed on the Live View screen.

Note


- [Live View Display] cannot be set to [Setting Effect OFF] in the following shooting modes:
 - [Intelligent Auto]
 - [Movie]
 - [S&Q Motion]
- When [Live View Display] is set to [Setting Effect OFF], the brightness of the shot image will not be the same as that of the displayed Live View.
- Even if [Live View Display] is set to [Setting Effect OFF], when you use the electrical shutter, images will look as if your settings were applied.

Hint

- When you use a third-party flash, such as a studio flash, Live View Display may be dark for some shutter speed settings. When [Live View Display] is set to [Setting Effect OFF], Live View Display will be displayed brightly, so that you can easily check the composition.

Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

1 MENU →  2 (Camera Settings2) → [Grid Line] → desired setting.

Menu item details

Rule of 3rds Grid:

Place main subjects close to one of the grid lines that divide the image into thirds for a well-balanced composition.

Square Grid:

Square grids make it easier to confirm the horizontal level of your composition. This is suitable to determine the quality of the composition when shooting landscape, close-up, or duplicated images.

Diag. + Square Grid:


Place a subject on the diagonal line to express an uplifting and powerful feeling.

Off:

Does not display the grid line.

FINDER/MONITOR

Sets the method for switching the display between Electronic Viewfinder and the screen.

- 1 MENU →  2 (Camera Settings2) → [FINDER/MONITOR] → desired setting.

Menu item details

Auto:

When you look into the Electronic Viewfinder, the eye sensor reacts and the display is switched to the Electronic Viewfinder automatically.


Viewfinder(Manual):

The screen is turned off and the image is displayed only in the Electronic Viewfinder.

Monitor(Manual):

The Electronic Viewfinder is turned off and the image is always displayed on the screen.

Hint

- You can assign the [FINDER/MONITOR] function to your preferred key.
MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set [Finder/Monitor Sel.] to the preferred key.
- To turn off automatic switching of the display using the eye sensor, set [FINDER/MONITOR] to [Viewfinder(Manual)] or [Monitor(Manual)].

Note


- When the monitor is pulled out, the eye sensor of the camera will not detect your eye approaching even if [FINDER/MONITOR] is set to [Auto]. The image will continue to be displayed on the monitor.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

Deactivate Monitor

When you press the key to which the [Deactivate Monitor] function has been assigned, the monitor turns black, and the screen display is locked to [No Disp. Info.].

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set the [Deactivate Monitor] function to the desired key.
- 2 Press the key to which [Deactivate Monitor] is assigned.
 - To return to the display, press the key to which [Deactivate Monitor] is assigned again.

Note

- Even if you perform [Deactivate Monitor], the backlight of monitor remains on. To turn off the backlight, switch the monitor mode to viewfinder mode using the [FINDER/MONITOR] function.


Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)
- [Switching the screen display \(while shooting/during playback\)](#)
- [FINDER/MONITOR](#)

Interchangeable Lens Digital Camera
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Monitor Brightness

Adjust the brightness of the screen.

- 1 MENU →  (Setup) → [Monitor Brightness] → desired setting.

Menu item details

Manual:

Adjusts the brightness within the range of -2 to +2.

Sunny Weather:

Sets the brightness appropriately for shooting outdoors.

Note

- The [Sunny Weather] setting is too bright for shooting indoors. Set [Monitor Brightness] to [Manual] for indoor shooting.

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Viewfinder Bright.

When using an electronic viewfinder, this product adjusts the brightness of the electronic viewfinder according to the surrounding environment.

1 MENU →  (Setup) → [Viewfinder Bright.] → desired setting.

Menu item details

Auto:

Adjusts the brightness automatically.

Manual:

Selects the brightness of the electronic viewfinder within the range of -2 to +2.

Interchangeable Lens Digital Camera
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Finder Color Temp.

Adjusts the color temperature of the electronic viewfinder.

1 MENU →  (Setup) → [Finder Color Temp.] → desired setting.



Menu item details

-2 to +2:

When you select “-,” the viewfinder screen changes to a warmer color, and when you select “+,” it changes to a colder color.

Finder Frame Rate (still image)

Display the subject's movements more smoothly by adjusting the frame rate of the viewfinder during still image shooting. This function is convenient when shooting a fast-moving subject.

- 1 MENU →  2 (Camera Settings2) → [ Finder Frame Rate] → desired setting.
 - This function can be assigned to button of your choice using [Custom Key(Shoot.)].

Menu item details




High:

Displays the movements of the subject more smoothly on the viewfinder.

Standard:

Displays the subject at a normal frame rate on the viewfinder.

Note


- When [ Finder Frame Rate] is set to [High], the resolution of the viewfinder is lowered.
- [ Finder Frame Rate] is locked to [Standard] in the following situations:
 - During playback
 - During HDMI connection
 - During continuous shooting with [ Shutter Type] set to [Auto] or [Electronic Shut.].

Related Topic


- [Custom Key\(Shoot.\)](#)/[Custom Key\(PB\)](#)

Bright Monitoring

Allows you to adjust the composition when shooting in dark environments. By extending the exposure time, you can check the composition on the viewfinder/monitor even in dark locations such as under the night sky.

- 1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → assign the [Bright Monitoring] function to the desired key.
- 2 Press the key to which you assigned the [Bright Monitoring] function, then shoot an image.
 - The brightness due to [Bright Monitoring] will continue after shooting.
 - To return the monitor brightness to normal, press the key to which you assigned the [Bright Monitoring] function once again.

Note


- During [Bright Monitoring], [Live View Display] will automatically switch to [Setting Effect OFF], and setting values such as exposure compensation will not be reflected in the live view display. It is recommended that you use [Bright Monitoring] only in dark locations.
- [Bright Monitoring] will be automatically cancelled in the following situations.
 - When the camera is turned off.
 - When the shooting mode is changed from P/A/S/M to a mode that is not P/A/S/M.
 - When the focus mode is set to other than manual focus.
 - When [ MF Assist] is executed.
 - When [Focus Magnifier] is selected.
 - When [Focus Settings] is selected.
- During [Bright Monitoring], the shutter speed may be slower than normal while shooting in dark locations. Also, because the measured brightness range is expanded, the exposure may change.

Related Topic

- [Live View Display](#)

Format

When you use a memory card with this camera for the first time, we recommend that you format the card using the camera for stable performance of the memory card. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save valuable data on a computer, etc.


- 1 MENU →  (Setup) → [Format] → desired memory card slot.

Note

- Formatting permanently erases all data including protected images and registered settings (from M1 to M4).
- The access lamp lights up during formatting. Do not remove the memory card while the access lamp is lit up.
- Format the memory card on this camera. If you format the memory card on the computer, the memory card may not be usable depending on the format type.
- It may take a few minutes to complete formatting, depending on the memory card.
- You cannot format the memory card if the remaining battery charge is less than 1%.

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File Number

Selects how to assign file numbers to recorded still images and MP4 movies recorded with [ File Format] set to [MP4].

1 MENU →  (Setup) → [File Number] → desired setting.

Menu item details

Series:

The product will assign numbers to files sequentially up to "9999" without resetting.

Reset:


The product resets numbers when a file is recorded in a new folder and assigns numbers to files starting with "0001".
(When the recording folder contains a file, a number one higher than the largest number is assigned.)

Hint

- The setting for [File Number] will be applied to both slot 1 and slot 2.
- Even if you change the setting of the recording destination, the file numbers will be sequential across the two memory cards in each slot by setting [File Number] to [Series].

Set File Name

You can specify the first three characters of the file name for images you shoot.

- 1 MENU →  (Setup) → [Set File Name].
- 2 Select the entry field for the file name to display a keyboard on the screen, and then enter three characters of your choice.
 - The setting for [Set File Name] will be applied to both slot 1 and slot 2.

Note

- Only capital letters, numbers, and underscores can be entered. However, an underscore cannot be used as the first character.
- The three characters of the file name you specify using [Set File Name] will only be applied to images you shoot after changing the setting.

Related Topic

- [How to use the keyboard](#)

Interchangeable Lens Digital Camera
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Display Media Info.

Displays the recordable time of movies for the inserted memory card. Also displays the number of recordable still images for the inserted memory card.

- 1 MENU →  (Setup) → [Display Media Info.] → desired memory card slot.

Recording Mode


You can select the method for recording an image, such as recording the same image simultaneously to two memory cards or recording different types of images to two memory cards. (If you want to record a movie to a memory card in different formats, use [Dual Video REC].)

- 1 MENU →  (Setup) → [Recording Mode] → desired setting.

Menu item details

Standard:



Records an image to a memory card in the memory card slot that you select in [Select Rec. Media].

Simult. ():

Records a still image to both memory cards and records a movie to a memory card in the memory card slot that you select in [Select Rec. Media].

Simult. ():

Records a still image to a memory card in the memory card slot that you select in [Select Rec. Media], and records a movie to both memory cards.

Simult. ( / ):

Records a still image and a movie to both memory cards.





Sort(JPEG/RAW):

Records an image in JPEG format to a memory card in the memory card slot that you select in [Select Rec. Media], and records an image in RAW format to the other memory card.

Sort( / ):

Records a still image to a memory card in the memory card slot that you select in [Select Rec. Media], and records a movie to the other memory card.

Note

- When [Recording Mode] is set to [Simult. ()] or [Simult. ( / )], [Dual Video REC] is temporarily set to [Off].
- When [Recording Mode] is set to [Sort(JPEG/RAW)], [ Quality] is temporarily set to [RAW & JPEG].

Related Topic

- [Memory cards that can be used](#)
- [Selecting which memory card to record to \(Select Rec. Media\)](#)
- [Dual Video REC](#)

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Select REC Folder

If [Folder Name] is set to [Standard Form] and there are 2 folders or more, you can select the folder on the memory card to which images are to be recorded.

1 MENU →  (Setup) → [Select REC Folder] → desired folder.

Note


- You cannot select the folder when [Folder Name] is set to [Date Form].
- If [Recording Mode] is set to other than [Standard], you may only select the common folder on the both memory cards. If there is no common folder, you can make one using [New Folder].

Related Topic

- [Folder Name](#)

Interchangeable Lens Digital Camera
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New Folder

Creates a new folder on the memory card for recording still images and MP4 movies recorded with [ File Format] set to [MP4]. A new folder is created with a folder number one greater than the largest folder number currently used. Images are recorded in the newly created folder. A folder for still images and a folder for MP4 movies that have the same number are created at the same time.

1 MENU →  (Setup) → [New Folder].

Note

- When you insert a memory card that was used with other equipment into this product and shoot images, a new folder may be automatically created.
- Up to 4,000 images in total can be stored in one folder. When the folder capacity is exceeded, a new folder may be automatically created.
- If [Recording Mode] is set to other than [Standard], a new folder is created with a folder number one greater than the largest folder number currently used on both memory cards inserted in the memory card slots.
- If [Recording Mode] is set to other than [Standard] and an image is shot, a new folder may be automatically created.

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Folder Name

Still images are recorded in a folder that is automatically created inside the DCIM folder on the memory card. You can change the way folder names are assigned.

1 MENU →  (Setup) → [Folder Name] → desired setting.

Menu item details

Standard Form:

The folder name form is as follows: folder number + MSDCF.

Example: 100MSDCF

Date Form:

The folder name form is as follows: folder number + Y (the last digit)/MM/DD.

Example: 10070405(Folder number: 100, date: 04/05/2017)

Note

- You cannot change the [Folder Name] settings for movies.

Interchangeable Lens Digital Camera
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Recover Image DB

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

- 1 MENU →  (Setup) → [Recover Image DB] → desired memory card slot → [Enter].


Note

- Use a sufficiently charged battery pack. Low battery power during repairing can cause damage to data.

Interchangeable Lens Digital Camera
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Audio signals

Selects whether the product produces a sound or not.

1 MENU →  2 (Camera Settings2) → [Audio signals] → desired setting.

Menu item details

On:all:

Sounds are produced for example when the focus is achieved by pressing the shutter button halfway down.

On:other than e-shut:

Sounds are produced when focusing by pressing the shutter button halfway down, etc. The electronic shutter does not produce any sounds.

On:e-shutter only:

Only the electronic shutter produces sounds. Sounds are not produced when focusing by pressing the shutter button halfway down, etc.

Off:

Sounds are not produced.

Note

- If [Focus Mode] is set to [Continuous AF], the camera will not beep when it focuses on a subject.

Interchangeable Lens Digital Camera
ILCE-9 α9

Pwr Save Start Time

Sets time intervals to automatically switch to power save mode when you are not performing operations to prevent wearing down the battery pack. To return to shooting mode, perform an operation such as pressing the shutter button halfway down.

- 1 MENU →  (Setup) → [Pwr Save Start Time] → desired setting.

Menu item details

30 Min/5 Min/2 Min/1 Min/10 Sec

Note

- Turn off the product when you do not use it for a long time.
- The power save function is not activated when power is being supplied via USB, when playing back slideshows, when recording movies, or when connected to a computer or TV.

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Auto Pwr OFF Temp.

Sets the temperature of the camera at which the camera turns off automatically during shooting. When it is set to [High], you can continue shooting even when the temperature of the camera gets hotter than normal.

1 MENU →  (Setup) → [Auto Pwr OFF Temp.] → desired setting.

Menu item details

Standard:

Sets the standard temperature for the camera to turn off.

High:

Sets the temperature at which the camera turns off to higher than [Standard].

Notes when [Auto Pwr OFF Temp.] is set to [High]

- Do not shoot while holding the camera in your hand. Use a tripod.
- Using the camera while holding it in your hand for a long period of time may cause low-temperature burns.

Continuous recording time for movies when [Auto Pwr OFF Temp.] is set to [High]

The duration of time available for continuous movie recording is as follows when the camera starts recording with the default settings after the power has been turned off for a while. The following values indicate the continuous time from when the camera starts recording until the camera stops recording.

Ambient temperature: 20°C (68°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

Ambient temperature: 30°C (86°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

Ambient temperature: 40°C (104°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

HD: XAVC S HD (60p 50M/50p 50M, not connected via Wi-Fi)

4K: XAVC S 4K (24p 60M/25p 60M, not connected via Wi-Fi)

Note

- Even if [Auto Pwr OFF Temp.] is set to [High], depending on the conditions or the temperature of the camera, the recordable time for movies may not change.

Related Topic

- [Recordable movie times](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Remote Ctrl

You can operate this product and shoot images using the SHUTTER button, 2SEC button (2 second delay shutter), and START/STOP button (or Movie button (RMT-DSLR2 only)) on the Wireless Remote Commander RMT-DSLR1 (sold separately) and RMT-DSLR2 (sold separately). Refer also to the operating instructions for the Wireless Remote Commander.

1 MENU →  (Setup) → [Remote Ctrl] → desired setting.

Menu item details

On:

Allows remote commander operation.

Off:

Does not allow remote commander operation.


Note

- The lens or lens hood may block the remote sensor that receive the signals. Use the remote commander in the position from which the signal can reach the product.
- When [Remote Ctrl] is set to [On], the product does not switch to power save mode. Set [Off] after using a remote commander.



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NTSC/PAL Selector

Plays back movies recorded with the product on a NTSC/PAL system TV.

1 MENU →  (Setup) → [NTSC/PAL Selector] → [Enter]


Note

- If you insert a memory card that has previously been formatted with a different video system, a message telling you that you must reformat the card will appear.
If you want to record using another system, re-format the memory card or use another memory card.
- When you perform [NTSC/PAL Selector], and the setting is changed from the default one, a message "Running on NTSC." or "Running on PAL." will appear on the start-up screen.
- When [NTSC/PAL Selector] is set to PAL, the viewfinder or monitor of the camera or the screen of an HDMI-connected device may black out for an instant in the following situations. This is not a malfunction.
 - When you start or stop recording movies while the shooting mode is set to a mode other than  (Movie) or **S&Q**.
 - When you change the shooting mode from  (Movie) or **S&Q** to another mode.
 - When you play back a movie for the first time after switching to the playback mode.

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HDMI Settings: HDMI Resolution

When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Resolution] → desired setting.

Menu item details

Auto:

The product automatically recognizes an HD TV and sets the output resolution.

2160p/1080p:

Outputs signals in 2160p/1080p.

1080p:

Outputs signals in HD picture quality (1080p).

1080i:


Outputs signals in HD picture quality (1080i).


Note



- If the images are not displayed properly using the [Auto] setting, select either [1080i], [1080p] or [2160p/1080p], based on which TV is to be connected.

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HDMI Settings: 24p/60p Output (movie) (Only for 1080 60i compatible models)

Set 1080/24p or 1080/60p as the HDMI output format when [ Record Setting] is set to [24p 24M(FX)], [24p 17M(FH)] or [24p 50M].

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Resolution] → [1080p] or [2160p/1080p].

2 MENU →  (Setup) → [HDMI Settings] → [ 24p/60p Output] → desired setting.

Menu item details


60p:

Movies are output as 60p.

24p:

Movies are output as 24p.

Note

- Steps 1 and 2 can be set in either order.
- When [ Record Setting] is set to other than [24p 24M(FX)], [24p 17M(FH)], or [24p 50M], this setting is canceled, and HDMI video is output according to the [HDMI Resolution] settings.

Related Topic

- [Record Setting \(movie\)](#)

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HDMI Settings: HDMI Info. Display

Selects whether to display the shooting information when this product and the TV are connected using an HDMI cable (sold separately).

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Info. Display] → desired setting.

Menu item details

On:

Displays the shooting information on the TV.

The recorded image and the shooting information are displayed on the TV, while nothing is displayed on the camera's monitor.

Off:

Does not display the shooting information on the TV.

Only the recorded image is displayed on the TV, while the recorded image and the shooting information are displayed on the camera's monitor.


Note

- When this product is connected to a 4K-compatible TV, [Off] is selected automatically.

HDMI Settings: TC Output (movie)

Sets whether or not to layer the TC (time code) information on the output signal via the HDMI terminal when outputting the signal to other professional-use devices.

This function layers the time code information on the HDMI output signal. The product sends the time code information as digital data, not as an image displayed on the screen. The connected device can then refer to the digital data to recognize the time data.

1 MENU →  (Setup) → [HDMI Settings] → [ TC Output] → desired setting.

Menu item details



On:

Time code is output to other devices.

Off:



Time code is not output to other devices.

Note

- When [ TC Output] is set to [On], the image may not be output properly to the TV or recording device. In such cases, set [ TC Output] to [Off].


HDMI Settings: REC Control (movie)


If you connect the camera to an external recorder/player, you can remotely command the recorder/player to start/stop recording using the camera.

- 1 MENU →  (Setup) → [HDMI Settings] → [ REC Control] → desired setting.

Menu item details

On:







 **STBY** The camera can send a recording command to an external recorder/player.

 **REC** The camera is sending a recording command to an external recorder/player.

Off:


The camera is not able to send a command to an external recorder/player to start/stop recording.

Note

- Available for external recorders/players compatible with [ REC Control].
- When you use the [ REC Control] function, set the shooting mode to  (Movie).
- When [ TC Output] is set to [Off], you cannot use the [ REC Control] function.
- Even when  is displayed, the external recorder/player may not work properly depending on the settings or status of the recorder/player. Check if the external recorder/player works properly before use.

HDMI Settings: CTRL FOR HDMI

When connecting this product to a “BRAVIA” Sync-compatible TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

- 1 MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → desired setting.
- 2 Connect this product to a “BRAVIA” Sync-compatible TV.
The input of the TV is switched automatically and images on this product are displayed on the TV screen.
- 3 Press the SYNC MENU button of the TV’s remote control.
- 4 Operate this product using the TV’s remote control.

Menu item details


On:

You can operate this product with a TV’s remote control.

Off:

You cannot operate this product with a TV’s remote control.

Note

- If you connect this product to a TV using an HDMI cable, available menu items are limited.
- [CTRL FOR HDMI] is available only with a “BRAVIA” Sync-compatible TV. Also, the SYNC MENU operation differs depending on the TV you are using. For details, refer to the operating instructions supplied with the TV.
- If the product performs unwanted operations in response to the TV remote control when the product is connected to another manufacturer’s TV using an HDMI connection, select MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → [Off].

USB Connection

Selects the USB connection method when this product is connected to a computer, etc.

- 1 MENU →  (Setup) → [USB Connection] → desired setting.

Menu item details

Auto:

Establishes a Mass Storage or MTP connection automatically, depending on the computer or other USB devices to be connected. Windows 7, Windows 8.1, or Windows 10 computers are connected in MTP, and their unique functions are enabled for use.

Mass Storage:

Establishes a Mass Storage connection between this product, a computer, and other USB devices.

MTP:

Establishes an MTP connection between this product, a computer, and other USB devices. Windows 7, Windows 8.1, or Windows 10 computers are connected in MTP, and their unique functions are enabled for use.

- The memory card in memory card slot 1 is the connection target.

PC Remote:

Uses “Remote Camera Control” to control this product from the computer, including such functions as shooting and storing images on the computer.

Note

- It may take some time to make the connection between this product and a computer when [USB Connection] is set to [Auto].

Related Topic

- [PC Remote Settings: Still Img. Save Dest.](#)
- [PC Remote Settings: RAW+J PC Save Img](#)

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USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

1 MENU →  (Setup) → [USB LUN Setting] → desired setting.

Menu item details

Multi:

Normally, use [Multi].

Single:

Set [USB LUN Setting] to [Single] only if you cannot make a connection.

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USB Power Supply

Sets whether to supply power via the micro USB cable when the product is connected to a computer or an USB device.

1 MENU →  (Setup) → [USB Power Supply] → desired setting.

Menu item details

On:
Power is supplied to the product via a micro USB cable when the product is connected to a computer, etc.

Off:
Power is not supplied to the product via a micro USB cable when the product is connected to a computer, etc. If you use the supplied AC Adaptor, power will be supplied even when [Off] is selected.

Note

- Insert the battery pack into the product to supply power via USB cable.

Interchangeable Lens Digital Camera
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PC Remote Settings: Still Img. Save Dest.

Sets whether to save still images stored in both the camera and the computer during PC Remote shooting. This setting is useful when you want to check recorded images on the camera without leaving the camera.

* PC Remote: Uses "Remote Camera Control" to control this product from the computer, including such functions as shooting and storing images on the computer.

1 MENU →  (Setup) → [PC Remote Settings] → [Still Img. Save Dest.] → desired setting.

Menu item details

PC Only:

Saves still images only on the computer.

PC+Camera:

Saves still images on the computer and the camera.

Note

- During PC Remote shooting, you cannot change settings for [Still Img. Save Dest.]. Adjust the settings before you start shooting.
- If you insert a memory card that is not recordable, you cannot shoot still images even if you select [PC+Camera].
- If you select [PC+Camera] and you have not inserted a memory card into the camera, you cannot release the shutter even if [Release w/o Card] is set to [Enable].
- During PC Remote shooting, [Recording Mode] is locked to [Standard] and cannot be changed.
- While you are playing back still images on the camera, you cannot shoot using PC Remote.

Related Topic

- [USB Connection](#)
- [Release w/o Card](#)
- [PC Remote Settings: RAW+J PC Save Img](#)

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PC Remote Settings: RAW+J PC Save Img

Selects the file type for images to be transferred to the computer in PC Remote shooting.

When shooting still images using PC Remote, the application on the computer does not display the image until the image has been completely transferred. When performing RAW+JPEG shooting, you can accelerate the display processing speed by transferring only JPEG images instead of transferring both RAW and JPEG images.

* PC Remote: Uses "Remote Camera Control" to control this product from the computer, including such functions as shooting and storing images on the computer.

① MENU →  (Setup) → [PC Remote Settings] → [RAW+J PC Save Img] → desired setting.

Menu item details

RAW & JPEG:

Transfers both RAW and JPEG files to the computer.


JPEG Only:

Transfers only JPEG files to the computer.

RAW Only:

Transfers only RAW files to the computer.

Note

- [RAW+J PC Save Img] can be set only when [ Quality] is set to [RAW & JPEG].
- During PC Remote shooting, [Recording Mode] is locked to [Standard] and cannot be changed.

Related Topic

- [USB Connection](#)
- [Quality \(still image\)](#)
- [PC Remote Settings: Still Img. Save Dest.](#)

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Language

Selects the language to be used in the menu items, warnings and messages.

1 MENU →  (Setup) → [ Language] → desired language.

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Date/Time Setup

The Clock Set screen is displayed automatically when you turn on this product for the first time or when the internal rechargeable backup battery has fully discharged. Select this menu when setting the date and time after the first time.

1 MENU →  (Setup) → [Date/Time Setup] → desired setting.

Menu item details

Daylight Savings:

Selects Daylight Savings [On]/[Off].

Date/Time:

Sets the date and time.

Date Format:

Selects the date and time display format.


Hint

- To charge the internal rechargeable backup battery, insert a charged battery pack, and leave the product for 24 hours or more with the power off.
- If the clock resets every time the battery is charged, the internal rechargeable backup battery may be worn out. Consult your service facility.

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Area Setting

Sets the area where you are using the product.

1 MENU →  (Setup) → [Area Setting] → desired area.

Copyright Info


Writes copyright information onto the still images.

- 1 MENU →  (Setup) → [Copyright Info] → desired setting.
- 2 When you select [Set Photographer] or [Set Copyright], a keyboard appears on the screen. Enter your desired name.

Menu item details

Write Copyright Info:

Sets whether to write copyright information. ([On]/[Off])

- If you select [On], an  icon will appear on the shooting screen.

Set Photographer:

Sets the photographer name.


Set Copyright:

Sets the copyright holder name.

Disp. Copyright Info:

Displays the current copyright information.

Note

- You can only enter alphanumeric characters and symbols for [Set Photographer] and [Set Copyright]. You can enter up to 46 letters.
- A  icon appears during the playback of images with copyright information.
- In order to prevent unauthorized use of [Copyright Info], be sure to clear the [Set Photographer] and [Set Copyright] columns before lending out or handing over your camera.
- Sony is not liable for problems or damages resulting from use of [Copyright Info].

Related Topic

- [How to use the keyboard](#)


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Version

Displays the version of this product's software. Check the version when updates for this product's software are released, etc.

Also displays the version of the lens if a lens compatible with firmware updates is attached.

The version of the Mount Adaptor is displayed in the lens area if a Mount Adaptor compatible with firmware updates is attached.

① MENU →  (Setup) → [Version].


Note

- Updating can be performed only when the battery level is  (3 remaining battery bars) or more. Use a sufficiently charged battery pack.

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Certification Logo (For some models only)

Displays some of the certification logos for this product.

1 MENU →  (Setup) → [Certification Logo].

Demo Mode

The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time. Normally select [Off].

1 MENU →  (Setup) → [Demo Mode] → desired setting.

Menu item details

On:

The movie playback demonstration starts automatically if the product is not operated for about one minute. Only protected AVCHD movies can be played back.

Set the view mode to [AVCHD View], and protect the movie file with the oldest recorded date and time.

Off:

Does not show the demonstration.

Note

- You can set this item only when the product is powered by the AC Adaptor (supplied).
- When there is no protected AVCHD movies on the memory card, you cannot select [On].
- [Demo Mode] always displays movies on the memory card in memory card slot 1.

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Setting Reset

Resets the product to the default settings. Even if you perform [Setting Reset], the recorded images are retained.

1 MENU →  (Setup) → [Setting Reset] → desired setting.

Menu item details

Camera Settings Reset:

Initializes the main shooting settings to the default settings.

Initialize:

Initializes all the settings to the default settings.

Note

- Be sure not to eject the battery pack while resetting.
- The value set with [AF Micro Adj.] will not be reset even when [Camera Settings Reset] or [Initialize] is performed.

Related Topic

- [AF Micro Adj.](#)
- [List of default setting values](#)

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PlayMemories Mobile

Using the smartphone application PlayMemories Mobile, you can shoot an image while controlling the camera using a smartphone or transfer the images recorded on the camera to the smartphone. Download and install the application PlayMemories Mobile from your smartphone's application store. If PlayMemories Mobile is already installed on your smartphone, be sure to update it to the latest version.

For details on PlayMemories Mobile, refer to the support page (<http://www.sony.net/pmm/>).


Note

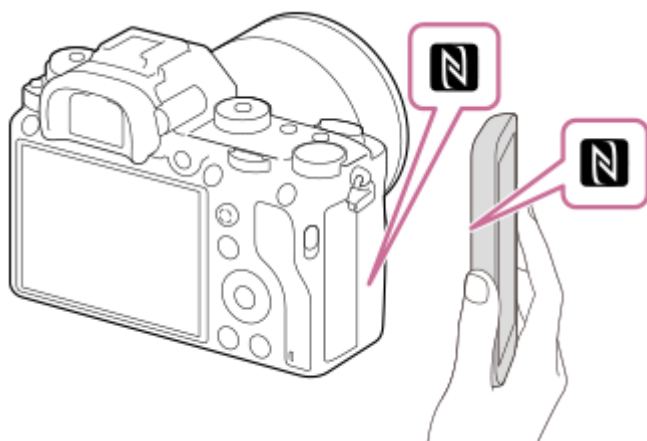
- Depending on future version upgrades, the operational procedures or screen displays are subject to change without notice.

Controlling the camera using an Android smartphone (NFC One-touch remote)

You can connect this product to an NFC-enabled Android smartphone by touching them together and then operate the product using the smartphone.

Set [Ctrl w/ Smartphone] to [On] beforehand by selecting MENU →  (Network) → [Ctrl w/ Smartphone].

- 1 Activate the NFC function of the smartphone.
- 2 Switch this product to shooting mode.
 - The NFC function is available only when the  (N mark) is displayed on the screen.
- 3 Touch the smartphone to the product.



The smartphone and the product are connected, and PlayMemories Mobile launches.

- You can shoot an image by remote control while checking the composition of the image on the smartphone screen.
- Touch the smartphone to the product for 1-2 seconds until PlayMemories Mobile launches.

About “NFC”

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a touch on the designated touch-point.

- NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

Note

- If you cannot make a connection, do as the following:
 - Launch PlayMemories Mobile on your smartphone, and then move the smartphone slowly toward the  (N mark) of this product.
 - If the smartphone is in a case, remove it.
 - If the product is in a case, remove it.
 - Check whether the NFC function is activated on your smartphone.
- Radio wave interference may occur as Bluetooth communications and Wi-Fi communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone. If you do this, the location information interlocking function is not available.


- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].
- If this product and the smartphone are connected when the product is in playback mode, the displayed image is sent to the smartphone.

Related Topic

- [PlayMemories Mobile](#)
- [Airplane Mode](#)

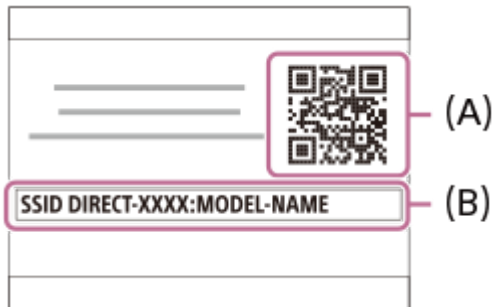
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Controlling the camera using an Android smartphone (QR code)

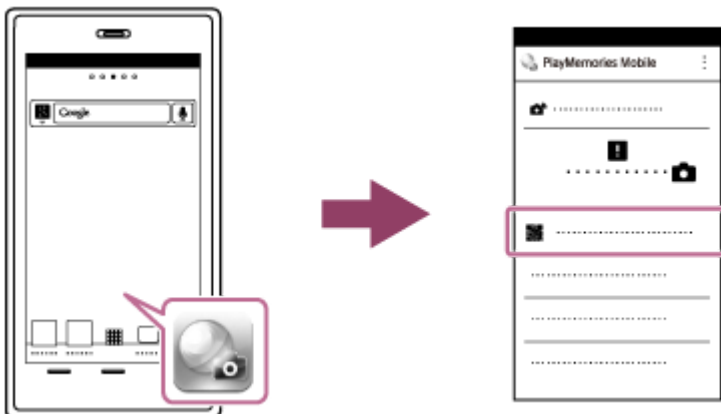
You can control this product using your smartphone by connecting your smartphone to the camera using the QR code. Set [Ctrl w/ Smartphone] to [On] beforehand by selecting MENU →  (Network) → [Ctrl w/ Smartphone].

- 1 MENU →  (Network) → [Ctrl w/ Smartphone] → [ Connection Info.].

QR code (A) and the SSID (B) are displayed on the monitor of this product.



- 2 Launch PlayMemories Mobile on your smartphone and select [Scan QR Code of the Camera].



- 3 Select [OK] on the smartphone screen.

- When a message is displayed, select [OK] again.



- 4 Read the QR code displayed on the monitor of this product with the smartphone.

Once the QR code has been read, a message [Connect with the camera?] will be displayed on the smartphone screen.

5 Select [OK] on the smartphone screen.

The smartphone is connected to the product.

- You can now shoot images remotely while checking the composition on the smartphone screen.

Hint

- Once the QR code has been read, this product's SSID (DIRECT-xxxx) and password are registered to the smartphone. This enables you to easily connect the smartphone to the product via Wi-Fi at a later date by selecting the SSID. (Set [Ctrl w/ Smartphone] to [On] in advance.)

Note

- Radio wave interference may occur as Bluetooth communications and Wi-Fi communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone. If you do this, the location information interlocking function is not available.
- If you cannot connect your smartphone to this product using the [One-touch(NFC)] function or QR code, use the SSID and password.

Related Topic

- [PlayMemories Mobile](#)
- [Controlling the camera using an Android smartphone \(SSID\)](#)

Controlling the camera using an Android smartphone (SSID)

You can control this product using your smartphone by connecting your smartphone to the camera using the SSID and password.

Set [Ctrl w/ Smartphone] to [On] beforehand by selecting MENU →  (Network) → [Ctrl w/ Smartphone].

- 1 MENU →  (Network) → [Ctrl w/ Smartphone] → [ Connection Info.].

QR code is displayed on the monitor of this product.

- 2 Press the  (Delete) button of this product.

This product's SSID and password are displayed on the monitor of this product.



- 3 Launch PlayMemories Mobile on your smartphone.

- 4 Select the model name of this product (DIRECT-xxxx: xxxx).



- 5 Input the password that is displayed on this product.



The smartphone is connected to the product.

- You can now shoot images remotely while checking the composition on the smartphone screen.


Note

- Radio wave interference may occur as Bluetooth communications and Wi-Fi communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone. If you do this, the location information interlocking function is not available.

Related Topic

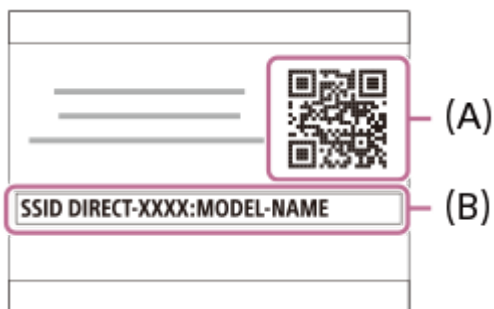
- [PlayMemories Mobile](#)

Controlling the camera using an iPhone or iPad (QR code)

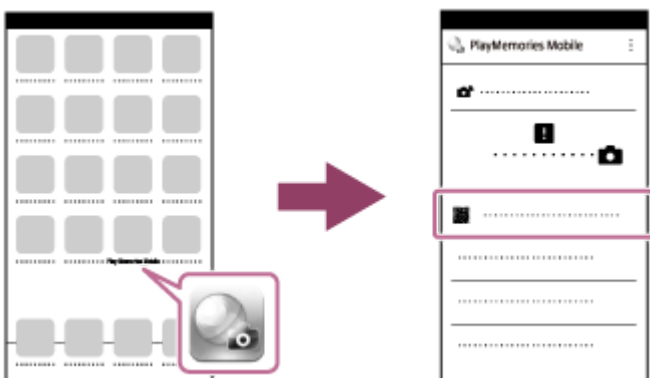
You can connect an iPhone or iPad to the camera using the QR code and operate the camera using the iPhone or iPad. Set [Ctrl w/ Smartphone] to [On] beforehand by selecting MENU →  (Network) → [Ctrl w/ Smartphone].

- 1 MENU →  (Network) → [Ctrl w/ Smartphone] → [ Connection Info.].

QR code (A) and the SSID (B) are displayed on the monitor of this product.



- 2 Launch PlayMemories Mobile on your iPhone or iPad and select [Scan QR Code of the Camera].



- 3 Select [OK] on the iPhone or iPad screen.

- When a message is displayed, select [OK] again.



- 4 Read the QR code displayed on the monitor of this product with the iPhone or iPad.

- 5 Install the profile (setting information) by following the instructions shown on the iPhone or iPad screen and select [OK].

The profile will be installed to the iPhone or iPad.

- If you have activated the passcode lock function for your iPhone or iPad, you will need to enter the passcode. Enter the passcode that you set for your iPhone or iPad.

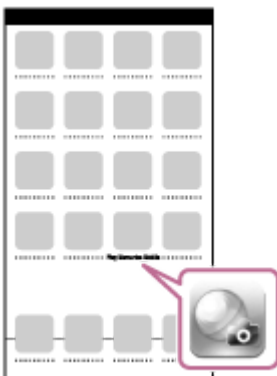


- 6 Select [Settings] on the "Home" screen → [Wi-Fi] → the SSID for this product on the iPhone or iPad.

The iPhone or iPad will connect to the product.



- 7 Return to the "Home" screen of the iPhone or iPad and launch PlayMemories Mobile.



- You can now shoot images remotely while checking the composition on the screen of your iPhone or iPad.

Hint

- Once the QR code has been read, this product's SSID (DIRECT-xxxx) and password are registered to the iPhone or iPad. This enables you to easily connect the iPhone or iPad to the product via Wi-Fi at a later date by selecting the SSID. (Set [Ctrl w/ Smartphone] to [On] in advance.)

Note

- Radio wave interference may occur as Bluetooth communications and Wi-Fi communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone. If you do this, the location information interlocking function is not available.
- If you cannot connect your iPhone or iPad to this product using the QR code, use the SSID and password.

Related Topic


- [PlayMemories Mobile](#)
- [Controlling the camera using an iPhone or iPad \(SSID\)](#)

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Controlling the camera using an iPhone or iPad (SSID)

You can control the camera using an iPhone or iPad by connecting the iPhone or iPad to the camera using the SSID and password.

MENU →  (Network) → [Ctrl w/ Smartphone] → set [Ctrl w/ Smartphone] to [On] in advance.

- 1 MENU →  (Network) → [Ctrl w/ Smartphone] → [ Connection Info.].

QR code is displayed on the monitor of this product.

- 2 Press the  (Delete) button of this product.

This product's SSID and password are displayed on the monitor of this product.



- 3 Select the model name of this product (DIRECT-xxxx: xxxx) on the Wi-Fi setting screen of your iPhone or iPad.



- 4 Input the password that is displayed on this product.



The iPhone or iPad is connected to the product.

- 5 Confirm that your iPhone or iPad was connected to the "SSID" shown on this product.



- 6 Return to the "Home" screen of the iPhone or iPad and launch PlayMemories Mobile.



- You can now shoot images remotely while checking the composition on the screen of your iPhone or iPad.

Note



- Radio wave interference may occur as Bluetooth communications and Wi-Fi communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone. If you do this, the location information interlocking function is not available.

Related Topic

- [PlayMemories Mobile](#)

Send to Smartphone

You can transfer still images/movies to a smartphone and view them. The application PlayMemories Mobile must be installed on your smartphone.

- 1 MENU →  (Network) → [Send to Smartphone] → desired setting.
 - If you press the  (Send to Smartphone) button in playback mode, the setting screen for [Send to Smartphone] will appear.
- 2 If the product is ready for the transfer, the information screen appears on the product. Connect the smartphone and the product using that information.
 - The setting method for connecting the smartphone and the product varies depending on the smartphone.



Menu item details

Select on This Device:

Selects an image on the product to be transferred to the smartphone.

(1) Select from among [This Image], [All Images on This Date] or [Multiple Images].


- The options displayed may differ depending on the View Mode selected on the camera.


(2) If you select [Multiple Images], select the desired images using the center of the control wheel, then press MENU → [Enter].

Select on Smartphone:

Displays all images recorded on the product's memory card on the smartphone.

Note


- You can only transfer images that are saved on the camera's memory card.
- You can only transfer images that are saved on the memory card in the memory card slot being played back. To change which memory card slot is being played back, select MENU →  (Playback) → [Select PB Media] → the desired slot.
- You can select an image size to be sent to the smartphone from [Original], [2M] or [VGA]. To change the image size, refer to the following steps.
 - For Android smartphone
Start PlayMemories Mobile, and change the image size by [Settings] → [Copy Image Size].
 - For iPhone/iPad
Select PlayMemories Mobile in the setting menu, and change the image size by [Copy Image Size].
- Some images may not be displayed on the smartphone depending on the recording format.
- RAW images are converted to JPEG format when they are sent.

- You cannot send XAVC S or AVCHD format movies.
- This product shares the connection information for [Send to Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect to the product, reset the connection information by following these steps. MENU →  (Network) → [Wi-Fi Settings] → [SSID/PW Reset]. After resetting the connection information, you must register the smartphone again.
- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].

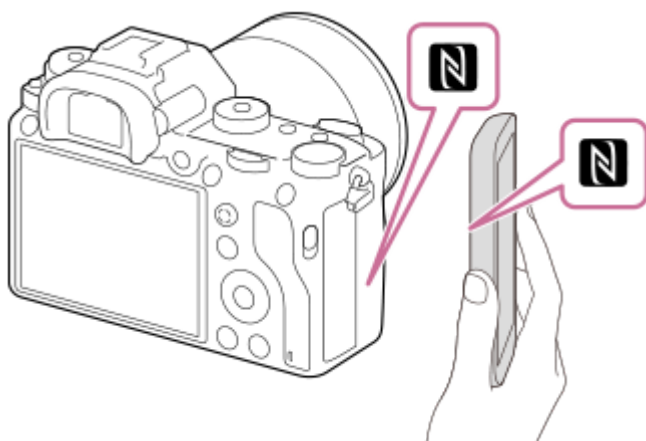
Related Topic

- [PlayMemories Mobile](#)
- [Controlling the camera using an Android smartphone \(NFC One-touch remote\)](#)
- [Controlling the camera using an Android smartphone \(QR code\)](#)
- [Controlling the camera using an Android smartphone \(SSID\)](#)
- [Controlling the camera using an iPhone or iPad \(QR code\)](#)
- [Controlling the camera using an iPhone or iPad \(SSID\)](#)
- [Sending images to an Android smartphone \(NFC One-touch Sharing\)](#)
- [Airplane Mode](#)



Sending images to an Android smartphone (NFC One-touch Sharing)

With just one touch, you can connect this product and an NFC-enabled Android smartphone, and send an image displayed on the product screen directly to the smartphone. For movies, you can only transfer MP4 movies recorded with [ File Format] set to [MP4].

- 1 Activate the NFC function of the smartphone.
- 2 Display a single image on the product.
- 3 Touch the smartphone to the product.



The product and the smartphone are connected, and PlayMemories Mobile automatically launches on the smartphone, and then the displayed image is sent to the smartphone.


- Before you touch the smartphone, cancel the sleep and lock-screen functions of the smartphone.
- The NFC function is available only when the  (N mark) is displayed on the product.
- Touch the smartphone to the product for 1-2 seconds until PlayMemories Mobile launches.
- To transfer two or more images, select MENU →  (Network) → [Send to Smartphone] to select images. After the connection enabled screen appears, use NFC to connect the product and the smartphone.


About “NFC”

NFC is a technology that enables short-range wireless communication between various devices, such as mobile phones or IC tags, etc. NFC makes data communication simpler with just a touch on the designated touch-point.

- NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

Note

- You can only transfer images that are saved on the memory card in the memory card slot being played back. To change the memory card slot to be played back, select MENU →  (Playback) → [Select PB Media] → the desired slot.
- You can select an image size to be sent to the smartphone from [Original], [2M] or [VGA]. To change the image size, refer to the following steps.
 - Start PlayMemories Mobile, and change the image size by [Settings] → [Copy Image Size].
- RAW images are converted to JPEG format when they are sent.

- If the Image Index is displayed on the product, you cannot transfer images using the NFC function.
- If you cannot make a connection, do as the following:
 - Launch PlayMemories Mobile on your smartphone, and then move the smartphone slowly toward the  (N mark) of this product.
 - If the smartphone is in a case, remove it.
 - If the product is in a case, remove it.
 - Check whether the NFC function is activated on your smartphone.
- When [Airplane Mode] is set to [On], you cannot connect the product and the smartphone. Set [Airplane Mode] to [Off].
- You cannot send AVCHD format movies.
- You cannot send XAVC S format movies.


Related Topic

- [PlayMemories Mobile](#)
- [Send to Smartphone](#)
- [Airplane Mode](#)

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Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation. Before starting this operation, install PlayMemories Home on your computer and register the access point on the product.

- 1 Start your computer.
- 2 MENU →  (Network) → [Send to Computer] → the desired memory card slot.

Note

- Depending on the application settings of your computer, the product will turn off after saving the images to your computer.
- You can transfer images from the product to only one computer at a time.
- If you want to transfer images to another computer, connect the product and the computer via a USB connection and follow the instructions in PlayMemories Home.

Related Topic

- [Installing PlayMemories Home](#)
- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)

Interchangeable Lens Digital Camera
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FTP Transfer Func.

You can set up image transferring using an FTP server or transfer images to the FTP server. Basic knowledge of FTP servers is required.

For details, refer to the “FTP Help Guide.”

http://rd1.sony.net/help/di/ftp/h_zz/

① MENU →  (Network) → [FTP Transfer Func.] → desired setting.

Menu item details

FTP Transfer:

Connects the camera to the network, and transfers images to the FTP server.

Display FTP Result:

Displays the results of the most recent FTP transfer.

Select FTP Server:

Selects the destination FTP server.

FTP Server 1/FTP Server 2/FTP Server 3:


Sets up FTP Servers 1 – 3.

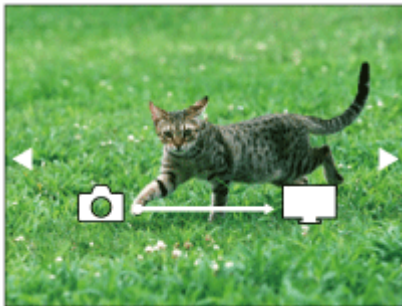
Related Topic

- [Importing root certification to the camera \(Imp Root Certificate\)](#)

View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable. For some TVs, you may need to perform operations on the TV. For details, refer to the operating instructions supplied with the TV.

- 1 MENU →  (Network) → [View on TV] → desired device to be connected.
- 2 When you want to play back images using slideshow, press the center of the control wheel.



- To display the next/previous image manually, press the right/left sides of the control wheel.
- To change the device to be connected, press the down side of the control wheel, then select [Device list].

Slideshow settings

You can change the slideshow settings by pressing the down side of the control wheel.

Playback Selection:

Selects the group of images to be shown.

Folder View(Still):

Selects from [All] and [All in Folder].

Date View:

Selects from [All] and [All in Date Rng.].

Interval:

Selects from [Short] and [Long].

Effects*:


Selects from [On] and [Off].

Playback Image Size:

Selects from [HD] and [4K].

* The settings are effective only for BRAVIA TV which is compatible with the functions.

Note

- You can only transfer images that are saved on the memory card in the memory card slot being played back. To change the memory card slot to be played back, select MENU →  (Playback) → [Select PB Media] → the desired slot.
- You can use this function on a TV that supports DLNA renderer.
- You can view images on a Wi-Fi Direct-enabled TV or network-enabled TV (including wired network-enabled TVs).
- If you connect TV and this product and do not use Wi-Fi Direct, you need to register your access point first.
- Displaying the images on the TV may take time.
- Movies cannot be shown on a TV via Wi-Fi. Use an HDMI cable (sold separately).

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)

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Interchangeable Lens Digital Camera
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Recording location information to captured images (Loc. Info. Link Set.)

You can use the application PlayMemories Mobile to obtain location information from a smartphone that is connected with your camera using Bluetooth communication. You can record the obtained location information when shooting images.


Preparation in advance










To use the location information linking function of the camera, the application PlayMemories Mobile is required. If “Location Information Linkage” is not displayed on the top page of PlayMemories Mobile, you need to perform the following steps beforehand.




1. Install PlayMemories Mobile on your smartphone.
 - You can install PlayMemories Mobile from the application store of your smartphone. If you have already installed the application, update it to the latest version.
2. Transfer a pre-recorded image to your smartphone using the [Send to Smartphone] function of the camera.
 - After you transfer an image recorded using the camera to your smartphone, “Location Information Linkage” will appear on the top page of PlayMemories Mobile.


Operating procedure

: Operations performed on the smartphone

: Operations performed on the camera

1. : Confirm that the Bluetooth function of your smartphone is activated.
 - Do not perform the Bluetooth pairing operation on the smartphone setting screen. In steps 2 to 7, the pairing operation is performed using the camera and the application PlayMemories Mobile.
 - If you accidentally perform the pairing operation on the smartphone setting screen in step 1, cancel the pairing and then perform the pairing operation by following Steps 2 through 7 using the camera and the application PlayMemories Mobile.
2. : On the camera, select MENU →  (Network) → [Bluetooth Settings] → [Bluetooth Function] → [On].
3. : On the camera, select MENU →  (Network) → [Bluetooth Settings] → [Pairing].
4. : Launch PlayMemories Mobile on your smartphone and tap “Location Information Linkage.”
 - If “Location Information Linkage” is not displayed, follow the steps in “Preparation in advance” above.
5. : Activate [Location Information Linkage] on the [Location Information Linkage] setting screen of PlayMemories Mobile.
6. : Follow the instructions on the [Location Information Linkage] setting screen of PlayMemories Mobile, and then select your camera from the list.
7. : Select [OK] when a message is displayed on the monitor of the camera.
 - Pairing of the camera and PlayMemories Mobile is complete.

8.  : On the camera, select MENU →  (Network) → [ Loc. Info. Link Set.] → [Location Info. Link] → [On].

-  (obtaining location information icon) will be displayed on the monitor of the camera. Location information obtained by your smartphone using GPS, etc., will be recorded when shooting images.

Menu item details

Location Info. Link:

Sets whether to obtain the location information by linking with a smartphone.

Auto Time Correct.:

Sets whether to automatically correct the date setting of the camera using information from a linked smartphone.


Auto Area Adjust.:


Sets whether to automatically correct the area setting of the camera using information from a linked smartphone.

Icons displayed when obtaining the location information

 (Obtaining location information): The camera is obtaining the location information.

 (Location information cannot be obtained): The camera cannot obtain the location information.

 (Bluetooth connection available): Bluetooth connection with the smartphone is established.

 (Bluetooth connection unavailable): Bluetooth connection with the smartphone is not established.

Hint

- Location information can be linked when PlayMemories Mobile is running on your smartphone even if the smartphone monitor is off.
- When PlayMemories Mobile is not operating, such as when the smartphone is restarted, launch PlayMemories Mobile to resume location information linking.
- In the application PlayMemories Home, you can view images on a map by importing images with location information to your computer. For details, refer to Help for PlayMemories Home.
- If the location information linking function does not work properly, see the following notes and perform pairing again.
 - Confirm that the Bluetooth function of your smartphone is activated.
 - Confirm that the camera is not connected with other devices using the Bluetooth function.
 - Confirm that [Airplane Mode] for the camera is set to [Off].
 - Delete the pairing information for the camera registered in PlayMemories Mobile.
 - Execute [Reset Network Set.] of the camera.
- For more detailed video instructions, refer to the following support page.
<http://www.sony.net/pmm/btg/>

Note

- When you initialize the camera, the pairing information is also deleted. To perform pairing again, delete the pairing information for the camera registered in PlayMemories Mobile before trying again.
- The location information will not be recorded when it cannot be obtained, such as when the Bluetooth connection is disconnected.
- The camera can be paired with up to 15 Bluetooth devices, but can link the location information with that of only one smartphone. If you want to link the location information with that of a different smartphone, turn off [Location Information Linkage] in PlayMemories Mobile on the smartphone that is currently linked.
- If the Bluetooth connection is unstable, remove any obstacles, such as people or metal objects from between the camera and the paired smartphone.
- When pairing the camera and your smartphone, be sure to use the [Location Information Linkage] menu on PlayMemories Mobile.

Supported smartphones

- Android smartphones: Android 5.0 or later and compatible with Bluetooth 4.0 or later*
- iPhone/iPad: iPhone 4S or later/iPad 3rd generation or later

* As of April 2017. For the latest information, refer to the support site.

* For the Bluetooth version, refer to the website for your smartphone.

Related Topic

- [PlayMemories Home](#)
- [PlayMemories Mobile](#)
- [Send to Smartphone](#)
- [Bluetooth Settings](#)

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ILCE-9 α9

Airplane Mode

When you board an airplane, etc., you can temporarily disable all the wireless-related functions including Wi-Fi.


1 MENU →  (Network) → [Airplane Mode] → desired setting.

If you set [Airplane Mode] to [On], an airplane mark will be displayed on the screen.

Interchangeable Lens Digital Camera
ILCE-9 α9

Wi-Fi Settings: WPS Push

If your access point has a Wi-Fi Protected Setup (WPS) button, you can register the access point to this product easily.

- 1 MENU →  (Network) → [Wi-Fi Settings] → [WPS Push].
- 2 Push the Wi-Fi Protected Setup (WPS) button on the access point to connect.

Note

- [WPS Push] works only if the security setting of your access point is set to WPA or WPA2 and your access point supports the Wi-Fi Protected Setup (WPS) button method. If the security setting is set to WEP or your access point does not support the Wi-Fi Protected Setup (WPS) button method, perform [Access Point Set.].
- For details about the available functions and settings of your access point, see the access point operating instructions or contact the administrator of the access point.
- A connection may not be possible or the communication distance may be shorter depending on the surrounding conditions, such as the type of wall material and the presence of obstructions or radio waves between the product and access point. In this case, change the location of the product or move the product closer to the access point.

Related Topic

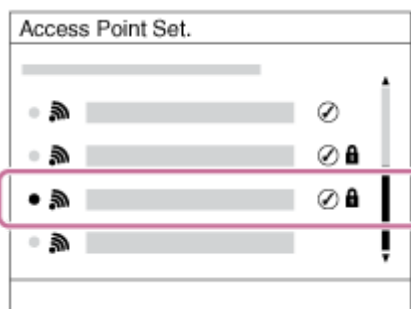
- [Wi-Fi Settings: Access Point Set.](#)

Wi-Fi Settings: Access Point Set.

You can register your access point manually. Before starting the procedure, check the SSID name of the access point, security system, and password. The password may be preset in some devices. For details, see the access point operating instructions, or consult the access point administrator.

1 MENU →  (Network) → [Wi-Fi Settings] → [Access Point Set.].

2 Select the access point you want to register.

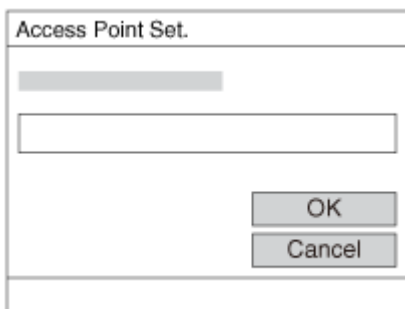


When the desired access point is displayed on the screen: Select the desired access point.

When the desired access point is not displayed on the screen: Select [Manual Setting] and set the access point.

- If you select [Manual Setting], input the SSID name of the access point, then select the security system.

3 Input the password, and select [OK].



- Access points without the  mark do not require a password.

4 Select [OK].

Other setting items

Depending on the status or the setting method of your access point, you may want to set more items.

WPS PIN:

Displays the PIN code you enter into the connected device.

Priority Connection:

Select [On] or [Off].

IP Address Setting:

Select [Auto] or [Manual].

IP Address:

If you are entering the IP address manually, enter the set address.

Subnet Mask/Default Gateway/Primary DNS Server/Second DNS Server:

If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.

Note

- To give the registered access point priority in the future, set [Priority Connection] to [On].

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [How to use the keyboard](#)

Interchangeable Lens Digital Camera
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Wi-Fi Settings: Disp MAC Address

Displays the MAC address of this product.

1 MENU →  (Network) → [Wi-Fi Settings] → [Disp MAC Address].

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Wi-Fi Settings: SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [ Connection Info.] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

1 MENU →  (Network) → [Wi-Fi Settings] → [SSID/PW Reset] → [OK].

Note

- If you connect this product to a smartphone after resetting the connection information, you must make the settings for the smartphone again.

Related Topic

- [Send to Smartphone](#)
- [Ctrl w/ Smartphone](#)

Interchangeable Lens Digital Camera
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Wired LAN Setting

Configures a wired LAN.

1 MENU →  (Network) → [Wired LAN Setting] → desired setting.

Menu item details

IP Address Setting:

Sets whether to configure the IP address for the wired LAN automatically or manually.

IP Address:

If you are entering the IP address manually, enter the fixed address.

Subnet Mask/Default Gateway/Primary DNS Server/Second DNS Server:

If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.


Related Topic

- [How to use the keyboard](#)

Interchangeable Lens Digital Camera
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Edit Device Name

You can change the device name for the Wi-Fi Direct or Bluetooth connection.

- 1 MENU →  (Network) → [Edit Device Name].
 - 2 Select the input box, then input the device name→[OK].
-

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)
- [How to use the keyboard](#)


Interchangeable Lens Digital Camera
ILCE-9 α9

Importing root certification to the camera (Imp Root Certificate)

Imports a root certificate needed to verify a server from a memory card. Use this function for encrypted communications during FTP transfer.

For details, refer to the “FTP Help Guide.”


http://rd1.sony.net/help/di/ftp/h_zz/

① MENU →  (Network) → [Imp Root Certificate].

Interchangeable Lens Digital Camera
ILCE-9 α9

Reset Network Set.

Resets all the network settings to default settings.

1 MENU →  (Network) → [Reset Network Set.] → [OK].

Interchangeable Lens Digital Camera
ILCE-9 α9

Recommended computer environment

You can confirm the operating computer environment of the software from the following URL:

<http://www.sony.net/pcenv/>

Interchangeable Lens Digital Camera
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Software for Mac computers

For details on software for Mac computers, access the following URL:

<http://www.sony.co.jp/imsoft/Mac/>

Note

- The software that can be used varies depending on the region.

Interchangeable Lens Digital Camera
ILCE-9 α9

PlayMemories Home

With PlayMemories Home, you can do the following:

- You can import images shot with this product to your computer.
- You can play back the images imported to your computer.
- You can share your images using PlayMemories Online.
- You can edit movies such as by cutting or merging.
- You can add various effects such as BGM and subtitles to movies.
- You can change the playback speed of movies and slow-motion movies.

Also for Windows, you can do the following:

- You can organize images on the computer on a calendar by shooting date to view them.
- You can edit and correct images, such as by trimming and resizing.
- You can create a disc from movies imported to a computer.
Blu-ray discs or AVCHD discs can be created from XAVC S-format movies.
- You can upload images to a network service. (An Internet connection is required.)
- You can import images recorded with location information to a computer and view them on a map.
- For other details, please refer to the Help of PlayMemories Home.

Related Topic

- [Installing PlayMemories Home](#)

Installing PlayMemories Home

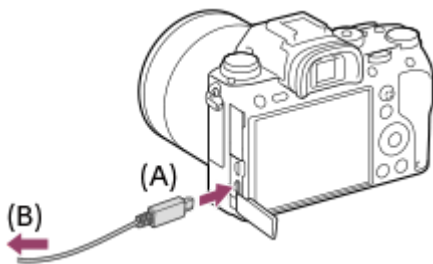
- 1 Using your computer's Internet browser, go to the URL below and download PlayMemories Home by following the on-screen instructions.

<http://www.sony.net/pm/>

- An Internet connection is required.
- For detailed instructions, visit the PlayMemories Home support page (English only).
<http://www.sony.co.jp/pmh-se/>

- 2 Connect the product to your computer using the micro USB cable (supplied), then turn the product on.

- New functions may be added to PlayMemories Home. Even if PlayMemories Home has already been installed on your computer, connect this product and your computer again.
- Do not remove the micro USB cable (supplied) from the camera while the camera is in operation or the access screen is displayed. Doing so may damage the data.




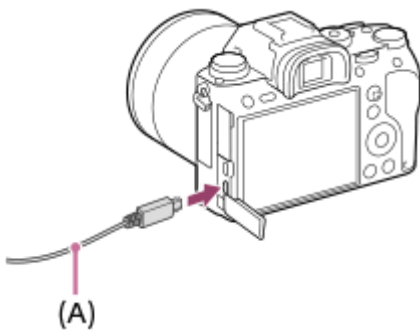
A: To the Multi/Micro USB Terminal
B: To the USB jack of the computer

Note

- Log on as Administrator.
- It may be necessary to restart your computer. When the restart confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on your computer's system environment.

Connecting to a computer

- 1 Insert a fully charged battery pack into the camera.
- 2 Turn on the camera and the computer.
- 3 Check that [USB Connection] under  (Setup) is set to [Mass Storage].
- 4 Connect the camera to the computer using the micro USB cable (supplied) (A).



- When you connect the camera to the computer for the first time, the procedure for recognizing the camera may start automatically on the computer. Wait until the procedure is finished.
- If you connect the product to your computer using the micro USB cable when [USB Power Supply] is set to [On], power is supplied from your computer. (Default setting: [On])

Related Topic

- [USB Connection](#)
- [USB LUN Setting](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Importing images to the computer without using PlayMemories Home

PlayMemories Home allows you to easily import images. For details on PlayMemories Home functions, see the Help of PlayMemories Home.

Importing images to the computer without using PlayMemories Home (For Windows)

When the AutoPlay Wizard appears after making a USB connection between this product and a computer, click [Open folder to view files] → [OK] → [DCIM] or [MP_ROOT]. Then copy the desired images to the computer.

Importing images to the computer without using PlayMemories Home (For Mac)

Connect the product to your Mac computer. Double-click the newly recognized icon on the desktop → the folder in which the image you want to import is stored. Then drag and drop the image file on to the hard disk icon.

Note

- For operations such as importing XAVC S movies or AVCHD movies to the computer, use PlayMemories Home.
- Do not edit or otherwise process AVCHD or XAVC S movie files/folders from the connected computer. Movie files may be damaged or become unplayable. Do not delete or copy AVCHD movies or XAVC S movies on the memory card from the computer. Sony is not held liable for consequences resulting from such operations via the computer.

Disconnecting the camera from the computer

Perform steps 1 and 2 below before performing the following operations:

- Disconnecting the micro USB cable.
- Removing a memory card.
- Turning off the product.

1 Click  (Safely Remove Hardware and Eject Media) in the taskbar.

2 Click the displayed message.

Note

- On Mac computers, drag and drop the memory card icon or the drive icon into the “Trash” icon. The camera will be disconnected from the computer.
- On Windows 7/Windows 8 computers, the disconnection icon may not appear. In that case, you can skip the steps above.
- Do not remove the micro USB cable from the camera while the access lamp is lit. The data may be damaged.

Interchangeable Lens Digital Camera
ILCE-9 α9

Image Data Converter

With Image Data Converter, you can do the following:

- You can develop and edit images recorded in RAW format with various corrections, such as tone curve and sharpness.
 - You can adjust images with white balance, exposure, and [Creative Style], etc.
 - You can save the still images displayed and edited on a computer.
You can either save the still image as RAW format or save it in the general file format.
 - You can display and compare the RAW images and JPEG images recorded by this product.
 - You can rank images in five grades.
 - You can apply color labels.
-

Related Topic

- [Installing Image Data Converter](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Installing Image Data Converter

1 Download and install the software by accessing the following URL.

Windows

<http://www.sony.co.jp/imsoft/Win/>

Mac

<http://www.sony.co.jp/imsoft/Mac/>

Note


- Log on as Administrator.

Interchangeable Lens Digital Camera
ILCE-9 α9

Remote Camera Control

When using Remote Camera Control, the following operations are available on your computer.

- Changing this product's settings and shooting.
- Recording images directly to the computer.
- Performing interval timer shooting.

Use these functions after selecting MENU →  (Setup) → [USB Connection] → [PC Remote]. For details on how to use Remote Camera Control, refer to the Help.

Related Topic

- [Installing Remote Camera Control](#)
- [USB Connection](#)
- [PC Remote Settings: Still Img. Save Dest.](#)
- [PC Remote Settings: RAW+J PC Save Img](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Installing Remote Camera Control

Download and install the software by accessing the following URL:

Windows:

<http://www.sony.co.jp/imsoft/Win/>

Mac:

<http://www.sony.co.jp/imsoft/Mac/>

Interchangeable Lens Digital Camera
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Selecting a disc to be created

You can create a disc that can be played back on other devices from a movie recorded on this camera. What devices can play back the disc depends on the disc type. Select a disc type suitable for the playback devices you will be using.

Depending on the movie type, the movie format may be converted when creating a disc.



High-definition image quality (HD) (Blu-ray Disc)

High-definition image quality (HD) movies can be recorded on a Blu-ray Disc, creating a high-definition image quality (HD) disc.

A Blu-ray Disc enables you to record longer-duration high-definition image quality (HD) movies than DVD discs.

Writable movie formats: XAVC S, AVCHD, MP4 (AVC)

Players: Blu-ray Disc playback devices (Sony Blu-ray Disc players, PlayStation 3, etc.)



High-definition image quality (HD) (AVCHD recording disc)

High-definition image quality (HD) movies can be recorded on DVD media such as DVD-R discs, creating a high-definition image quality (HD) disc.

Writable movie formats: XAVC S, AVCHD, MP4 (AVC)

Players: AVCHD format playback devices (Sony Blu-ray Disc players, PlayStation 3, etc.)

You cannot play these kinds of discs on ordinary DVD players.



Standard definition image quality (STD)

Standard definition image quality (STD) movies converted from high-definition image quality (HD) movies can be recorded on DVD media such as DVD-R discs, creating a standard image quality (STD) disc.

Writable movie formats: AVCHD

Players: Ordinary DVD playback devices (DVD players, computers that can play back DVD discs, etc.)

Hint

- You can use the following types of 12 cm discs with PlayMemories Home.
BD-R/DVD-R/DVD+R/DVD+R DL: Non-rewritable
BD-RE/DVD-RW/DVD+RW: Rewritable
Additional recording is not possible.
- Always maintain your "PlayStation 3" to use the latest version of the "PlayStation 3" system software.

Note

- 4K movies cannot be recorded on a disc in 4K image quality.

Related Topic

- [Creating Blu-ray Discs from high-definition image quality movies](#)
- [Creating DVD discs \(AVCHD recording discs\) from high-definition image quality movies](#)

- [Creating DVD discs from standard image quality movies](#)

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Creating Blu-ray Discs from high-definition image quality movies

You can create Blu-ray Discs that can be played back on Blu-ray Disc playback devices (such as Sony Blu-ray Disc players or the PlayStation 3, etc.).

A. How to create using a computer

With a Windows computer, you can copy movies imported to the computer and create Blu-ray Discs using PlayMemories Home.

Your computer must be able to create Blu-ray Discs.

When you create a Blu-ray Disc for the first time, connect your camera to the computer using a USB cable. The necessary software is automatically added to your computer. (An Internet connection is needed.)


For details on how to create a disc using PlayMemories Home, refer to the Help guide for PlayMemories Home.

B. How to create using a device other than a computer

You can also create Blu-ray Discs using a Blu-ray recorder, etc.

For details, refer to the device's operating instructions.

Note

- When creating Blu-ray discs using PlayMemories Home from movies recorded in the XAVC S or MP4 movie formats, the image quality is converted to 1920×1080 (60i/50i) and it is not possible to create discs with the original image quality. To record movies with the original image quality, copy movies to a computer or an external medium.
- To create a Blu-ray Disc from movies recorded in the AVCHD movie format with [ Record Setting] set to [60p 28M(PS)]/[50p 28M(PS)], you need to use a device that is compliant with AVCHD format Ver. 2.0. The created Blu-ray Disc can be played back only on a device that is compliant with AVCHD format Ver. 2.0.

Related Topic

- [Selecting a disc to be created](#)
- [Creating DVD discs \(AVCHD recording discs\) from high-definition image quality movies](#)
- [Creating DVD discs from standard image quality movies](#)

Creating DVD discs (AVCHD recording discs) from high-definition image quality movies

You can create DVD discs (AVCHD recording discs) that can be played back on AVCHD-compatible playback devices (such as Sony Blu-ray Disc players or the PlayStation 3, etc.).

A. How to create using a computer

With a Windows computer, you can copy movies imported to the computer and create DVD discs (AVCHD recording discs) using PlayMemories Home.

Your computer must be able to create DVD discs (AVCHD recording discs).

When you create a DVD disc for the first time, connect your camera to the computer using a USB cable. The necessary software is automatically added to your computer. (An Internet connection is needed.)

For details on how to create a disc using PlayMemories Home, refer to the Help guide for PlayMemories Home.

B. How to create using a device other than a computer

You can also create DVD discs (AVCHD recording discs) using a Blu-ray recorder, etc.

For details, refer to the device's operating instructions.

Note

- When creating DVD discs (AVCHD recording discs) using PlayMemories Home from movies recorded in the XAVC S or MP4 movie formats, the image quality is converted to 1920×1080 (60i/50i) and it is not possible to create discs with the original image quality.
To record movies with the original image quality, copy movies to a computer or an external medium.
- When creating AVCHD recording discs using PlayMemories Home from movies recorded in the AVCHD movie format with [Record Setting] set to [60p 28M(PS)]/[50p 28M(PS)], [60i 24M(FX)]/[50i 24M(FX)] or [24p 24M(FX)]/[25p 24M(FX)], the image quality is converted and it is not possible to create discs with the original image quality.
This conversion can take a long time. To record movies with the original image quality, use a Blu-ray Disc.

Related Topic

- [Selecting a disc to be created](#)
- [Creating Blu-ray Discs from high-definition image quality movies](#)
- [Creating DVD discs from standard image quality movies](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Creating DVD discs from standard image quality movies

You can create DVD discs that can be played back on ordinary DVD playback devices (DVD players, computers that can play back DVD discs, etc.).

A. How to create using a computer

With a Windows computer, you can copy movies imported to the computer and create DVD disc using PlayMemories Home.

Your computer must be able to create DVD discs.

When you create a DVD disc for the first time, connect your camera to the computer using a USB cable. Install the dedicated add-on software following the on-screen instructions. (An internet connection is needed.)

For details on how to create a disc using PlayMemories Home, refer to the Help for PlayMemories Home.

B. How to create using a device other than a computer

You can also create DVD discs using a Blu-ray recorder, HDD recorder, etc.

For details, refer to the device's operating instructions.

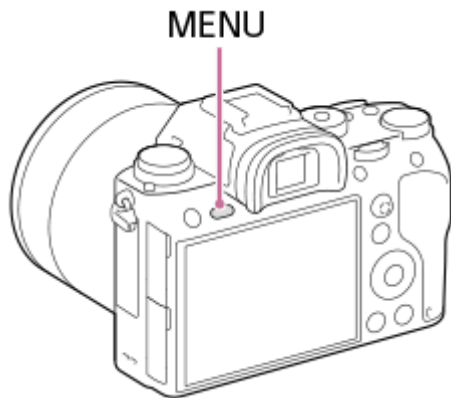
Related Topic

- [Selecting a disc to be created](#)
- [Creating Blu-ray Discs from high-definition image quality movies](#)
- [Creating DVD discs \(AVCHD recording discs\) from high-definition image quality movies](#)

Using MENU items

You can change settings related to all the camera operations including shooting, playback, and operating method. You can also execute camera functions from the MENU.

- 1 Press the MENU button to display the menu screen.



- 2 Select the desired setting you want to adjust using the top/bottom/left/right sides of the control wheel or by turning the control wheel, and then press the center of the control wheel.
 - Select an icon at the top of the screen and press the left/right side of the control wheel to move to another MENU item.



- 3 Select the desired setting value, and press the center to confirm your selection.

Related Topic

- [Add Item](#)

Interchangeable Lens Digital Camera
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Quality (still image)

1 MENU →  1 (Camera Settings1) → [ Quality] → desired setting.

Menu item details

RAW:

File format: RAW

Digital processing is not performed on this file format. Select this format to process images on a computer for professional purposes.

- The image size is fixed to the maximum size. The image size is not displayed on the screen.

RAW & JPEG:

File format: RAW + JPEG

A RAW image and a JPEG image are created at the same time. This is suitable when you need 2 image files, a JPEG for viewing, and a RAW for editing. The JPEG image quality is set to [Fine].

Extra fine:

File format: JPEG

The image is compressed in the JPEG format and recorded using a higher quality than with [Fine].

Fine:

File format: JPEG



The image is compressed in the JPEG format when recorded.

Standard:

File format: JPEG

The image is compressed in the JPEG format when recorded. Since the compression rate of [Standard] is higher than that of [Fine], the file size of [Standard] is smaller than that of [Fine]. This will allow more files to be recorded on one memory card, but the image quality will be lower.

About RAW images

- To open a RAW image file recorded with this camera, the software Image Data Converter is needed. With Image Data Converter, you can open a RAW image file, then convert it into a popular image format such as JPEG or TIFF, or readjust the white balance, saturation or contrast of the image.
- You cannot apply [Auto HDR] or [Picture Effect] functions with RAW images.
- RAW images recorded with this camera have a resolution of 14 bits per pixel. However, resolution may be limited to 12 bits in the following shooting modes:
 - [ Long Exposure NR]
 - [BULB]
 - Continuous shooting
- You can set whether RAW images are compressed or uncompressed using [ RAW File Type].

Note



- If you do not intend to edit the images on your computer, we recommend that you record in JPEG format.
- You cannot add DPOF (print order) registration marks to RAW images.

Related Topic

- [RAW File Type \(still image\)](#)

RAW File Type (still image)

Selects the file type for RAW images.


- 1 MENU →  1 (Camera Settings1) → [ RAW File Type] → desired setting.

Menu item details

Compressed:

Records images in compressed RAW format.

Uncompressed:

Records images in uncompressed RAW format. When [Uncompressed] is selected for [ RAW File Type], the file size of the image will be larger than if it were recorded in compressed RAW format.

Note








- When [Uncompressed] is selected for [ RAW File Type], the icon on the screen switches to  .  is also displayed while an image shot in uncompressed RAW format is played back.

Image Size (still image)



The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

- 1 MENU →  1 (Camera Settings 1) → [ Image Size] → desired setting.

Menu item details

When [ Aspect Ratio] is set to [3:2]		When [ Aspect Ratio] is set to [16:9]	
L: 24M	6000×4000 pixels	L: 20M	6000×3376 pixels
M: 10M	3936×2624 pixels	M: 8.7M	3936×2216 pixels
S: 6.0M	3008×2000 pixels	S: 5.1M	3008×1688 pixels

When [APS-C/Super 35mm] is set to [On]

When [ Aspect Ratio] is set to [3:2]		When [ Aspect Ratio] is set to [16:9]	
L: 10M	3936×2624 pixels	L: 8.7M	3936×2216 pixels
M: 6.0M	3008×2000 pixels	M: 5.1M	3008×1688 pixels
S: 2.6M	1968×1312 pixels	S: 2.2M	1968×1112 pixels

Note



- When [ Quality] is set to [RAW] or [RAW & JPEG], the image size for RAW images corresponds to “L.”

Related Topic

- [Aspect Ratio \(still image\)](#)

Interchangeable Lens Digital Camera
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Aspect Ratio (still image)

① MENU →  1 (Camera Settings1) → [ Aspect Ratio] → desired setting.

Menu item details

3:2:

Suitable for standard prints.


16:9:

For viewing on a high-definition TV.

Interchangeable Lens Digital Camera
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APS-C/Super 35mm

Sets whether to record in APS-C-equivalent size for still images and in Super 35mm-equivalent size for movies. If you select [On] or [Auto], you can use an APS-C size dedicated lens on this product.

1 MENU →  1 (Camera Settings1) → [APS-C/Super 35mm] → desired setting.

Menu item details

On:

Records in either APS-C-equivalent size or Super 35mm-equivalent size.

Auto:

Automatically sets the capture range depending on the lens.

Off:



Always captures 35mm full-size image sensor pictures.

Note

- When you attach an APS-C compatible lens and set [APS-C/Super 35mm] to [Off], shooting may fail.
- When you set [APS-C/Super 35mm] to [On], the angle of view will be the same as when shooting with an APS-C size image sensor.

Long Exposure NR (still image)

When you set the shutter speed to 1 second(s) or longer (long exposure shooting), noise reduction is turned on for the duration that the shutter is open. With the function turned on, the grainy noise typical of long exposures is reduced.

1 MENU →  1 (Camera Settings 1) → [ Long Exposure NR] → desired setting.

Menu item details





On:

Activates noise reduction for the same duration that the shutter is open. When noise reduction is in progress, a message appears and you cannot take another picture. Select this to prioritize the image quality.

Off:

Does not activate noise reduction. Select this to prioritize the timing of shooting.



Note

- [ Long Exposure NR] is not available when [ Shutter Type] is set to [Electronic Shut.].
- Noise reduction may not be activated even if [ Long Exposure NR] is set to [On] in the following situations:
 - [Drive Mode] is set to [Cont. Shooting] or [Cont. Bracket].
- [ Long Exposure NR] cannot be set to [Off] in the following shooting modes:
 - [Intelligent Auto]
- Depending on the shooting conditions, the camera may not perform noise reduction, even if the shutter speed is 1 second(s) or longer.

Interchangeable Lens Digital Camera
ILCE-9 α9

High ISO NR (still image)

When shooting with high ISO sensitivity, the product reduces noise that becomes more noticeable when the product sensitivity is high.

1 MENU →  1 (Camera Settings 1) → [ High ISO NR] → desired setting.

Menu item details

Normal:

Activates high ISO noise reduction normally.





Low:

Activates high ISO noise reduction moderately.

Off:



Does not activate high ISO noise reduction. Select this to prioritize the timing of shooting.

Note

- [ High ISO NR] is not available in the following shooting modes:
 - [Intelligent Auto]
- When [ Quality] is set to [RAW], this function is not available.
- [ High ISO NR] does not work for RAW images when the [ Quality] is [RAW & JPEG].

Color Space (still image)

The way colors are represented using combinations of numbers or the range of color reproduction is called “color space.” You can change the color space depending on the purpose of the image.

1 MENU →  1(Camera Settings1) → [ Color Space] → desired setting.

Menu item details

sRGB:

This is the standard color space of the digital camera. Use [sRGB] in normal shooting, such as when you intend to print out the images without any modification.

AdobeRGB:

This color space has a wide range of color reproduction. When a large part of the subject is vivid green or red, Adobe RGB is effective. The file name of the recorded image starts with “_.”


Note

- [AdobeRGB] is for applications or printers that support color management and DCF2.0 option color space. Images may not be printed or viewed in the correct colors if you use applications or printers that do not support Adobe RGB.
- When displaying images that were recorded with [AdobeRGB] on non-Adobe RGB-compliant devices, the images will be displayed with low saturation.

Interchangeable Lens Digital Camera
ILCE-9 α9

Lens Comp.: Shading Comp.

Compensates for the shaded corners of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Shading Comp.] → desired setting.

Menu item details

Auto:

Compensates for darker corners of the screen automatically.

Off:

Does not compensate for darker corners of the screen.

Note

- This function is only available when using an automatic compensation compliant lens.
- The amount of light around the edges may not be corrected, depending on the lens type.

Interchangeable Lens Digital Camera
ILCE-9 α9

Lens Comp.: Chro. Aber. Comp.

Reduces the color deviation at the corners of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Chro. Aber. Comp.] → desired setting.

Menu item details

Auto:

Reduces the color deviation automatically.

Off:

Does not compensate for the color deviation.

Note

- This function is only available when using an automatic compensation compliant lens.

Lens Comp.: Distortion Comp.

Compensates for the distortion of the screen, caused by certain lens characteristics.

1 MENU →  1 (Camera Settings1) → [Lens Comp.] → [Distortion Comp.] → desired setting.

Menu item details

Auto:

Compensates for distortion of the screen automatically.

Off:

Does not compensate for distortion of the screen.


Note

- This function is only available when using an automatic compensation compliant lens.
- Depending on the attached lens, [Distortion Comp.] is fixed to [Auto], and you cannot select [Off].

Interchangeable Lens Digital Camera
ILCE-9 α9

Self-timer Type

When shooting with the self-timer, sets how many images are recorded and how many seconds elapse from when you press the shutter button until when the shutter is released.

- 1 MENU →  1 (Camera Settings1) → [Self-timer Type] → desired setting.
 - The setting screen for [Self-timer Type] can be displayed by pressing the Fn button.

Menu item details

Self-timer(Single):

Shoots one image using the self-timer (10 seconds / 5 seconds / 2 seconds).

Self-timer(Cont):

Shoots images continuously using the self-timer (3 images after 10 seconds / 5 images after 10 seconds / 3 images after 5 seconds / 5 images after 5 seconds / 3 images after 2 seconds / 5 images after 2 seconds).


Related Topic

- [Self-timer](#)
- [Self-timer\(Cont\)](#)

Interchangeable Lens Digital Camera
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Bracket Settings

You can set the type of bracket or the self-timer in bracket shooting mode, and the shooting order for exposure bracketing or white balance bracketing.

- 1 Select **BRK** (Bracket) by turning the drive mode dial.
 - Turn the drive mode dial while holding down the drive mode dial lock release button.
- 2 MENU →  1 (Camera Settings1) → [Bracket Settings] → desired setting.

Menu item details

Bracket Type:

Sets the type of bracket shooting.

(Cont. Bracket/Single Bracket/WB bracket/DRO Bracket)

Selftimer during Brkt:

Sets whether to use the self-timer during bracket shooting. Also sets the number of seconds until the shutter is released if using the self-timer.

(OFF/2 Sec/5 Sec/10 Sec)

Bracket order:

Sets the order of exposure bracketing and white balance bracketing.



(0→→+/-→0→+)




Related Topic

- [Cont. Bracket](#)
- [Single Bracket](#)
- [WB bracket](#)
- [DRO Bracket](#)


Interchangeable Lens Digital Camera
ILCE-9 α9

Recall (Camera Settings1/Camera Settings2)



Allows you to shoot an image after recalling often-used modes or camera settings registered with [1/2 Memory] in advance.

- 1 Set the mode dial to 1, 2, or 3 (Memory recall).
- 2 Press the center of the control wheel to confirm.
 - You can also recall registered modes or settings by selecting MENU → 1 (Camera Settings 1) → [1/2 Recall].

Hint

- To recall settings registered to the memory card, set the mode dial to 1, 2 or 3, then select the desired number by pressing the left/right side of the control wheel.
- If you recall settings registered to the memory card, the settings are recalled from the memory card in the slot specified in [Select Rec. Media]. You can confirm the memory card slot by selecting MENU →  (Setup) → [Select Rec. Media].
- Settings registered to a memory card using another camera of the same model name can be recalled with this camera.

Note

- If you set [1/2 Recall] after completing the shooting settings, the registered settings are given priority and the original settings may become invalid. Check the indicators on the screen before shooting.




Related Topic

- [Memory \(Camera Settings1/Camera Settings2\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Memory (Camera Settings1/Camera Settings2)

Allows you to register up to 3 often-used modes or product settings to the product and up to 4 (M1 through M4) to the memory card. You can recall the settings using just the mode dial.

- 1 Set the product to the setting you want to register.
- 2 MENU →  1(Camera Settings1) → [ 1/  2 Memory] → desired number.
- 3 Press the center of the control wheel to confirm.

Items that can be registered

- You can register various functions for shooting. The items that can actually be registered are displayed on the menu of the camera.
- Aperture (F number)
- Shutter speed

To change registered settings

Change the setting to the desired one and re-register the setting to the same mode number.

Note



- M1 through M4 can be selected only when a memory card is inserted into the product.
- When registering the settings on a memory card, only a memory card that has been selected using [Select Rec. Media] can be used.
- Program Shift cannot be registered.
- For some functions, the position of the dial and the setting actually used for shooting may not match. If this happens, shoot images by referring to the information displayed on the monitor.

Related Topic

- [Recall \(Camera Settings1/Camera Settings2\)](#)

Registering shooting settings to a custom key (Reg Cust Shoot Set)


You can register shooting settings (such as exposure, focus setting, drive mode, etc.) to a custom key in advance and temporarily recall them while holding down the key. Simply press the custom key to switch the settings quickly and release the key to go back to the original settings. This function is useful when recording active scenes such as sports.

- 1 MENU →  1 (Camera Settings1) → [Reg Cust Shoot Set] → Select a registration number from [Recall Custom hold 1] to [Recall Custom hold 3].
The setting screen for the selected number will be displayed.
- 2 Using the top/bottom/left/right side of the control wheel, select the check boxes for the functions that you want to recall with one of the registration numbers and press the center to check each box.
A  mark will be displayed in the boxes for the functions.
 - To cancel a selection, press the center again.
- 3 Select the function that you want to adjust using the top/bottom/left/right side of the control wheel, and press the center to adjust the function to the desired setting.
 - Select [Import Current Setting] to register the current settings of the camera to the registration number that you chose.
- 4 Select [Register].

Items that can be registered

- You can register various functions for shooting. The items that can actually be registered are displayed on the menu of the camera.
- Exposure
- Focus setting
- Drive mode (other than self-timer)

To recall registered settings

1. MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → Select the desired key and then select one of the registration numbers from [Recall Custom hold 1] to [Recall Custom hold 3].
2. On the shooting screen, press the shutter button while holding down the key to which you assigned one of the registration numbers.
The registered settings are activated while you are holding down the custom key.

Hint

- You can change the settings for [Reg Cust Shoot Set] after assigning one of the registration numbers to the custom key using [Custom Key(Shoot.)].

Note

- The registration numbers [Recall Custom hold 1] through [Recall Custom hold 3] are available only when the shooting mode is set to P/A/S/M.
- Depending on the attached lens and the status of the camera when the registered setting recall is executed, the registered settings may not take effect.

Related Topic


- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

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Priority Set in AF-S

Sets whether to release the shutter even if the subject is not in focus when [Focus Mode] is set to [Single-shot AF] or [DMF] and the subject is remaining still.

1 MENU →  1(Camera Settings1) → [Priority Set in AF-S] → desired setting.

Menu item details

AF:

Prioritizes focusing. The shutter will not be released until the subject is in focus.

Release:

Prioritizes the shutter's release. The shutter will be released even if the subject is out of focus.

Balanced Emphasis:

Shoots with a balanced emphasis on both focusing and shutter release.


Related Topic

- [Focus Mode](#)
- [Priority Set in AF-C](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Priority Set in AF-C

Sets whether to release the shutter even if the subject is not in focus when the continuous AF is activated and the subject is in motion.

1 MENU →  1(Camera Settings1) → [Priority Set in AF-C] → desired setting.

Menu item details

AF:

Prioritizes focusing. The shutter will not be released until the subject is in focus.

Release:

Prioritizes the shutter's release. The shutter will be released even if the subject is out of focus.

Balanced Emphasis:


Shoots with a balanced emphasis on both focusing and shutter release.

Related Topic

- [Focus Mode](#)
- [Priority Set in AF-S](#)

Focus Area

Selects the focusing area. Use this function when it is difficult to focus properly in the auto focus mode.

1 MENU →  1 (Camera Settings1) → [Focus Area] → desired setting.

Menu item details

 Wide :

Focuses on a subject covering the whole range of the screen automatically. When you press the shutter button halfway down in the still image shooting mode, a green frame is displayed around the area that is in focus.

 Zone :

Select a zone on the monitor on which to focus, and the product will automatically select a focus area.

 Center :

Focuses automatically on a subject in the center of the image. Use together with the focus-lock function to create the composition you want.

 Flexible Spot :

Allows you to move the focusing frame to a desired point on the screen and focus on an extremely small subject in a narrow area.

 Expand Flexible Spot :

If the product cannot focus on a single selected point, it uses focus points around the flexible spot as a secondary priority area for focusing.

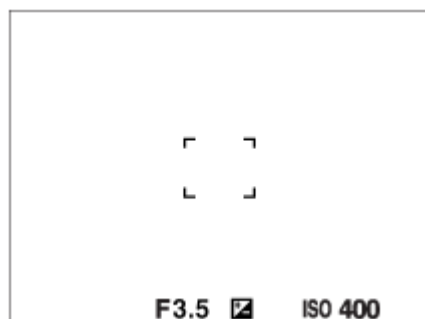
     Lock-on AF :

When the shutter button is pressed and held halfway down, the product tracks the subject within the selected autofocus area. This setting is available only when the [Focus Mode] is set to [Continuous AF]. Point the cursor at [Lock-on AF] on the [Focus Area] setting screen, and then select the desired area to start tracking using the left/right sides of the control wheel. You can also move the tracking start area to the desired point by designating the area as a zone, flexible spot or expand flexible spot.

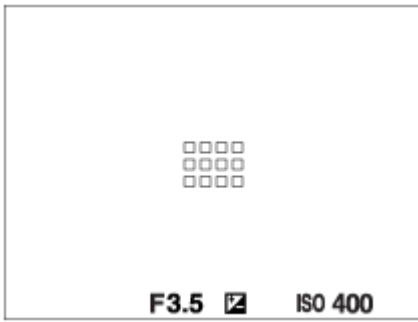
Examples of the focusing frame display

The focusing frame differs as follows depending on the shooting mode.

When focusing with the phase detection AF or contrast AF

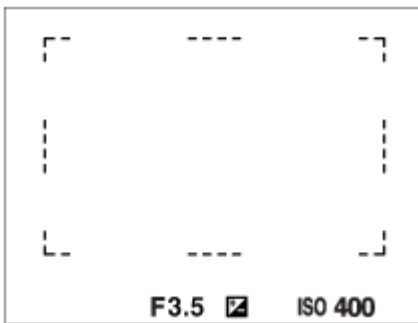


When focusing with the phase detection AF



- When you attach an A-mount lens with a Mount Adaptor (LA-EA1 or LA-EA3) (sold separately) and [AF System] is set to [Phase Detection AF], the focusing frame for “When focusing with the phase detection AF” may be displayed.

When focus is achieved automatically based on the whole range of the monitor



- When you use a zoom function other than the optical zoom, the [Focus Area] setting is disabled and the focusing frame is shown by the dotted line. The AF operates with priority on and around the center area.


To move the focus area

- You can move the focus area in [Flexible Spot], [Expand Flexible Spot], or [Zone] by operating the multi-selector. If you assign [Focus Standard] to the center of the multi-selector beforehand, you can move the focusing frame back to the center of the monitor by pressing the center of the multi-selector.
- You can move the focusing frame quickly by touching and dragging it on the monitor. Set [Touch Operation] to [On] beforehand.

Hint

- In the default settings, [Focus Area] is assigned to the C2 button.

Note

- [Focus Area] is locked to [Wide] in the following situations:
 - [Intelligent Auto]
- The focus area may not light up during continuous shooting or when the shutter button is pressed all the way down at once.
- When the mode dial is set to  (Movie) or **S&Q** or during movie shooting, [Lock-on AF] cannot be selected as the [Focus Area].


Related Topic

- [Touch Operation](#)
- [Adjusting the focus area settings to the camera's orientation \(horizontal/vertical\) \(Sw. V/H AF Area\)](#)
- [Registering the current focus area \(AF Area Regist.\)](#)



Focus Settings

Configures the focus functions using the front dial/rear dial or the control wheel.

- 1 MENU →  1 (Camera Settings1) → [Focus Settings].
- 2 Perform settings using the front/rear dial or control wheel.

When the focus mode is set to auto focus or Direct Manual Focus

You can adjust the focus area settings and the position of the focusing frame. The focusing frame can be moved only when the [Focus Area] is set to the following:

- [Zone]
- [Flexible Spot]
- [Expand Flexible Spot]

Front dial: Moves the focusing frame up/down.

Rear dial: Moves the focusing frame right/left.

Control wheel: Selects the focus area.

When the focus mode is set to Manual Focus

You can set the area to be magnified when focusing manually.

Front dial: Moves the area to be magnified up/down.



Rear dial: Moves the area to be magnified right/left.

Control wheel: Moves the area to be magnified up/down.

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ILCE-9 α9

Adjusting the focus area settings to the camera's orientation (horizontal/vertical) (Sw. V/H AF Area)

You can set whether to switch the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical). This function is useful when shooting scenes for which you have to change the camera position frequently, such as portraits or sports scenes.

1 MENU →  1 (Camera Settings 1) →  Sw. V/H AF Area → desired setting.

Menu item details

Off:

Does not switch the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical).

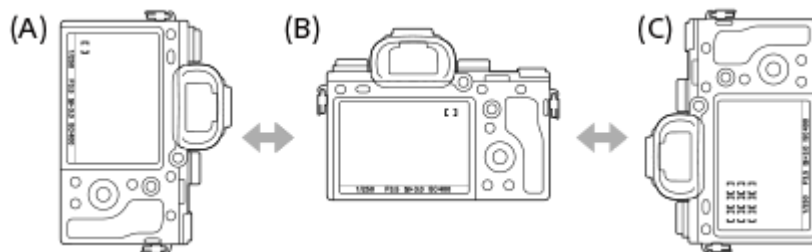
AF Point Only:

Switches the position of the focusing frame according to the orientation of the camera (horizontal/vertical). The [Focus Area] is fixed.

AF Point + AF Area:

Switches both the [Focus Area] and the position of the focusing frame according to the orientation of the camera (horizontal/vertical).



An example when [AF Point + AF Area] is selected



- (A) Vertical: [Flexible Spot] (Upper left corner)
- (B) Horizontal:[Flexible Spot] (Upper right corner)
- (C) Vertical:[Zone] (Lower left corner)

- Three camera orientations are detected: horizontal, vertical with the side of the shutter button facing up, and vertical with the side of the shutter button facing down.

Note

- If the setting for  Sw. V/H AF Area is changed, the focus settings for each camera orientation will not be retained.
- The [Focus Area] and the position of the focusing frame will not change even when  Sw. V/H AF Area is set to [AF Point + AF Area] or [AF Point Only] in the following situations:
 - When the shooting mode is set to [Intelligent Auto], [Movie], or [S&Q Motion]
 - While the shutter button is pressed halfway down
 - During movie shooting
 - While using the digital zoom function
 - While the auto-focusing is activated
 - When [Focus Settings] are activated
 - During continuous shooting
 - During the countdown for the self-timer
 - When [Focus Magnifier] is activated

- When you shoot images right after the power is turned on and the camera is vertical, the first shot is taken with the horizontal focus setting or with the last focus setting.
- The orientation of the camera cannot be detected when the lens is facing up or down.

Related Topic



- [Focus Area](#)

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AF Illuminator (still image)

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. In the time between pressing the shutter button halfway down and locking the focus, the red AF illuminator lights up to allow the camera to focus easily.

1 MENU →  1 (Camera Settings1) →  AF Illuminator] → desired setting.

Menu item details


Auto:

The AF illuminator lights up automatically in dark surroundings.

Off:


Does not use the AF illuminator.

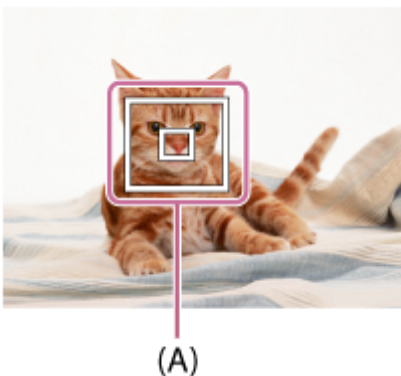
Note

- You cannot use [ AF Illuminator] in the following situations:
 - When the shooting mode is [Movie] or [S&Q Motion].
 - When the focus mode is set to [Continuous AF].
 - When [Focus Magnifier] is activated.
 - When a Mount Adaptor is attached.
- The AF illuminator emits a very bright light. Although there is no health hazard, do not look directly into the AF illuminator at close range.

Center Lock-on AF

When you press the center of the control wheel, the camera detects the subject positioned in the center of the screen and continues to track the subject.

- 1 MENU →  1 (Camera Settings 1) → [Center Lock-on AF] → [On].
- 2 Align the target frame (A) over the subject and press the center of the control wheel.
 - Press the center again to stop tracking.





- 3 Press the shutter button fully down to shoot the image.

Hint

- If you assign the [Focus Standard] function to the desired key using [Custom Key(Shoot.)], you can activate [Center Lock-on AF] by pressing the key when [Center Lock-on AF] is set to [On] and [Focus Area] is set to [Wide] or [Center]. You can also detect the subject again by pressing the key to which [Focus Standard] is assigned.
- You can select the subject to be tracked by touch operation when shooting using the monitor. Set [Touch Operation] to [On].



Note

- The [Center Lock-on AF] function may not function very well in the following situations:
 - The subject is moving too quickly.
 - The subject is too small, or too large.
 - The contrast between the subject and the background is poor.
 - It is dark.
 - The ambient light changes.
- Lock-on AF does not work in the following situations:
 - When shooting in Manual Focus mode.
 - When using the digital zoom
 - When [ Record Setting] is set to [120p]/[100p].
 - When [ Frame Rate] is set to [120fps]/[100fps].

Interchangeable Lens Digital Camera
ILCE-9 α9

AF Track Sens (still image)

You can select the AF track sensitivity when the subject goes out of focus in still image mode.

① MENU →  1 (Camera Settings1) → [ AF Track Sens] → desired setting.

Menu item details

5(Responsive) / 4 / 3(Standard) / 2 / 1(Locked on):



Select [5(Responsive)] to focus responsively on subjects at different distances.

Select [1(Locked on)] to keep the focus on a specific subject when other things are crossing in front of the subject.

Interchangeable Lens Digital Camera
ILCE-9 α9

AF System (still image)

Sets the focus detection system (Phase Detection AF/Contrast AF) when you attach an A-mount lens using an LA-EA1/LA-EA3 Mount Adaptor (sold separately).

1 MENU →  1 (Camera Settings 1) → [ AF System] → desired setting.

Menu item details




Phase Detection AF:

Focuses with Phase Detection AF. The focusing speed is very fast.

Contrast AF:

Always focuses with Contrast AF. The focusing speed is slower. Use when you cannot focus with [Phase Detection AF].



Note

- When [ AF System] is set to [Contrast AF], [Continuous AF] under [Focus Mode] is unavailable.
- The following functions are unavailable when [ AF System] is set to [Phase Detection AF]:
 - [Zone], [Expand Flexible Spot], and [Lock-on AF] in [Focus Area]
 - [Eye AF]
- When [ AF System] is set to [Phase Detection AF], [Priority Set in AF-S] will temporarily switch to [AF] even if it is set to [Balanced Emphasis].

Interchangeable Lens Digital Camera
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AF w/ shutter (still image)

Selects whether to focus automatically when you press the shutter button halfway down. Select [Off] to adjust the focus and the exposure separately.

- 1 MENU →  1 (Camera Settings1) → [ AF w/ shutter] → desired setting.

Menu item details

On:




The auto focus operates when you press the shutter button halfway down.

Off:

The auto focus does not operate even if you press the shutter button halfway down.

Useful method to micro-adjust the focus

When an A-mount lens is attached, activating the auto focus function with a button other than the shutter button lets you focus more precisely in combination with manual focusing.

1. Set [ AF w/ shutter] to [Off].
2. MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → assign the [Focus Magnifier] functions to the desired keys.
3. Set [ Eye-Start AF] to [Off] to avoid auto focusing when you look through the viewfinder.
4. Press the AF-ON button to focus.
5. Press the key to which the [Focus Magnifier] function is assigned, and then rotate the focus ring for micro-adjustments of the focus.
6. Press the shutter button fully down to shoot the image.



Related Topic

- [AF On](#)
- [Eye-Start AF \(still image\)](#)
- [Pre-AF \(still image\)](#)
- [Focus Magnifier](#)

Interchangeable Lens Digital Camera
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Pre-AF (still image)

The product automatically adjusts focus before you press the shutter button halfway down.

- 1 MENU →  1 (Camera Settings1) → [ Pre-AF] → desired setting.

Menu item details


On:

Adjusts focus before you press the shutter button halfway down.

Off:

Does not adjust focus before you press the shutter button halfway down.



Note

- [ Pre-AF] is available only when an E-mount lens is mounted.

Interchangeable Lens Digital Camera
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Eye-Start AF (still image)

Sets whether or not to use autofocus when you look through an Electronic Viewfinder.

1 MENU →  (Camera Settings1) → [ Eye-Start AF] → desired setting.

Menu item details


On:

Auto focusing starts when you look through the Electronic Viewfinder.

Off:

Auto focusing does not start when you look through the Electronic Viewfinder.

Hint

- [ Eye-Start AF] is available when an A-mount lens and a Mount Adaptor (LA-EA2, LA-EA4) (sold separately) are attached.

Interchangeable Lens Digital Camera
ILCE-9 α9

Registering the current focus area (AF Area Regist.)

You can move the focusing frame to a preassigned position temporarily using a custom key. This function is useful when shooting scenes in which the subject's movements are predictable; for example, sports scenes. With this function, you can switch the focus area quickly according to the situation.

How to register focus area

1. MENU → 1 (Camera Settings1) → [AF Area Regist.] → [On].
2. Set the focus area to the desired position and then hold down the Fn (Function) button.

How to call up the registered focus area

1. MENU → 2 (Camera Settings2) → [Custom Key(Shoot.)] → desired key, then select [Regist. AF Area hold].
2. Set the camera to the shooting mode, hold down the key to which [Regist. AF Area hold] has been assigned and then press the shutter button to shoot images.

Hint

- When a focusing frame is registered using [AF Area Regist.], the registered focusing frame flashes on the monitor.
- If you assign [Regist AF Area toggle] to a custom key, you can use the registered focusing frame without holding down the key.
- If [Reg. AF Area+AF On] is assigned to a custom key, auto focusing using the registered focusing frame is performed when the key is pressed.

Note

- A focus area cannot be registered in the following situations:
 - The mode dial is set to either (Movie) or **S&Q**
 - While [Touch Focus] is being performed
 - While using the digital zoom function
 - While [Lock-on AF] is being performed
 - While focusing
 - While performing focus lock
- You cannot call up the registered focus area in the following situations:
 - The mode dial is set to either **AUTO** (Auto Mode), (Movie) or **S&Q**
- When [AF Area Regist.] is set to [On], the [Lock Operation Parts] setting is locked to [Off].


Related Topic

- [Focus Area](#)
- [Custom Key\(Shoot.\)](#)/[Custom Key\(PB\)](#)

Interchangeable Lens Digital Camera
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Deleting a registered AF Area (Del. Reg. AF Area)

Deletes the focusing frame position that was registered using [ AF Area Regist.].

1 MENU →  1 (Camera Settings 1) → [ Del. Reg. AF Area].


Related Topic

- [Registering the current focus area \(AF Area Regist.\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

AF Area Auto Clear

Sets whether the focus area should be displayed all the time or should disappear automatically shortly after focus is achieved.

1 MENU →  1 (Camera Settings 1) → [AF Area Auto Clear] → desired setting.

Menu item details

On:

The focus area disappears automatically shortly after focus is achieved.


Off:

The focus area is displayed all the time.

Interchangeable Lens Digital Camera
ILCE-9 α9

Disp. cont. AF area

You can set whether or not to display the area that is in focus when [Focus Area] is set to [Wide] or [Zone], in [Continuous AF] mode.

1 MENU →  1 (Camera Settings 1) → [Disp. cont. AF area] → desired setting.

Menu item details


On:

Displays the focus area that is in focus.

Off:

Does not display the focus area that is in focus.


Note

- When [Focus Area] is set to one of the following, the focusing frames in the area that is in focus turn green:
 - [Center]
 - [Flexible Spot]
 - [Expand Flexible Spot]
- When an A-mount lens and a Mount Adaptor (LA-EA1/LA-EA3) (sold separately) are mounted on the camera and [ AF System] is set to [Phase Detection AF], [Disp. cont. AF area] is always turned on regardless of the [Focus Area] settings.

AF Micro Adj.

Allows you to adjust the auto-focusing position and register an adjusted value for each lens when using A-mount lenses with an LA-EA2 or LA-EA4 Mount Adaptor (sold separately).

Use this function only when adjustments are needed. Note that the auto focus function may not be performed at a proper position when using this adjustment.

- 1 MENU →  1 (Camera Settings1) → [AF Micro Adj.].
- 2 Select [AF Adjustment Set.] → [On].
- 3 [amount] → desired value.
 - The larger the value you select, the farther the autofocused position will be from the product. The smaller the value you select, the closer the autofocused position will be to the product.

Hint

- It is recommended that you adjust the position under actual shooting conditions. Set [Focus Area] to [Flexible Spot] and use a bright subject with high contrast when you adjust.

Note

- When you attach a lens for which you have already registered a value, the registered value appears on the screen. [±0] appears for lenses for which a value has not yet been registered.
- If [-] is displayed as the value, then a total of 30 lenses have been registered and no new lens can be registered. To register a new lens, attach a lens for which the registration can be erased, and set its value to [±0], or reset the values of all the lenses using [Clear].
- The [AF Micro Adj.] supports Sony, Minolta, or Konica-Minolta lenses. If you perform [AF Micro Adj.] with lenses other than the supported lenses, the registered settings for the supported lenses may be affected. Do not perform [AF Micro Adj.] with an unsupported lens.
- You cannot set [AF Micro Adj.] individually for a Sony, Minolta, and Konica-Minolta lens of the same specification.

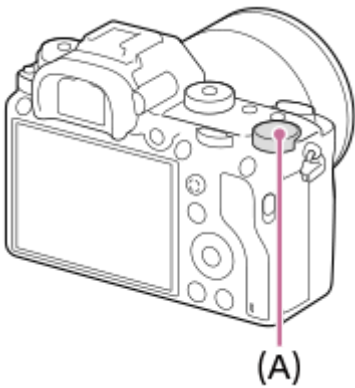
Interchangeable Lens Digital Camera
ILCE-9 α9

Exposure Comp.

Normally, exposure is set automatically (auto exposure). Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation).

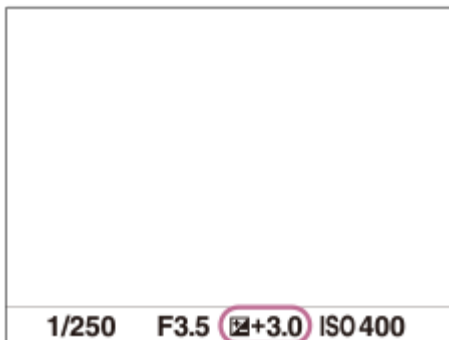
1 Turn the exposure compensation dial (A).

- + (over) side:
Images become brighter.
- (under) side:
Images become darker.

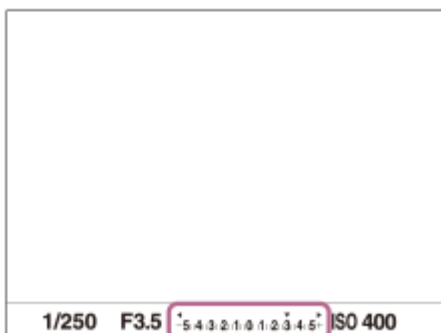


- You can adjust the exposure compensation value within the range of -3.0 EV to +3.0 EV.
- You can confirm the exposure compensation value that you set on the shooting screen.

Monitor




Viewfinder



To set the exposure compensation using the MENU

You can adjust the exposure compensation within a range of -5.0 EV to +5.0 EV when the exposure compensation dial is set to "0."

MENU →  1 (Camera Settings1) → [Exposure Comp.] → desired setting.

Note

- You cannot perform the exposure compensation in the following shooting modes:
 - [Intelligent Auto]
- When using [Manual Exposure], you can perform the exposure compensation only when [ISO] is set to [ISO AUTO].
- The settings of the exposure compensation dial will be prioritized over [Exposure Comp.] or [Dial Ev Comp] in MENU.
- Only a value between -3.0 EV and +3.0 EV with the equivalent image brightness appears on the screen when shooting. If you set an exposure compensation value outside this range, the image brightness on the screen will not be affected, but the value will be reflected in the recorded image.
- You can adjust the exposure compensation value within the range of -2.0 EV to +2.0 EV for movies.
- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, you may not be able to get a satisfactory effect.
- When you set the exposure compensation dial to "0" from a setting other than "0," the exposure value switches to "0" regardless of the [Exposure Comp.] setting.


Related Topic

- [Exposure step](#)
- [Dial Ev Comp](#)
- [Exp.comp.set](#)
- [Cont. Bracket](#)
- [Single Bracket](#)
- [Zebra](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Reset EV Comp.

Sets whether to maintain the exposure value set using [Exposure Comp.] when you turn off the power when the exposure compensation dial position is set to "0."

1 MENU →  1 (Camera Settings1) → [Reset EV Comp.] → desired setting.

Menu item details

Maintain:

Maintains the settings.


Reset:

Resets the settings.

ISO

Sensitivity to light is expressed by the ISO number (recommended exposure index). The larger the number, the higher the sensitivity.

1 ISO (ISO) on the control wheel → select desired setting.

- You can also select MENU →  1 (Camera Settings1) → [ISO].
- You can change the value by 1/3 EV steps by turning the front dial as well as by turning the control wheel. You can change the value by 1 EV steps by turning the rear dial.

Menu item details

ISO AUTO:

Sets the ISO sensitivity automatically.



ISO 50 – ISO 204800:

Sets the ISO sensitivity manually. Selecting a larger number increases the ISO sensitivity.

Hint

- You can change the range of ISO sensitivity that is set automatically in [ISO AUTO] mode. Select [ISO AUTO] and press the right side of the control wheel, and set the desired values for [ISO AUTO Maximum] and [ISO AUTO Minimum].

Note


- [ISO AUTO] is selected when using the following functions:
 - [Intelligent Auto]
- When the ISO sensitivity is set to a value lower than ISO 100, the range for recordable subject brightness (dynamic range) may decrease.
- The higher the ISO value, the more noise will appear on the images.
- The available ISO settings will differ depending on whether you are shooting still images, shooting movies, or shooting slow-motion/quick-motion movies.
- ISO values between 50 and 25600 are available in the following situations:
 - [ Shutter Type] is set to [Electronic Shut.].
 - [ Shutter Type] is set to [Auto] and [Drive Mode] is set to [Cont. Shooting].
- When shooting movies, ISO values between 100 and 102400 are available. If the ISO value is set to a value larger than 102400, the setting is automatically switched to 102400. When you finish recording the movie, the ISO value returns to the original setting.
- When shooting movies, ISO values between 100 and 102400 are available. If the ISO value is set to a value smaller than 100, the setting is automatically switched to 100. When you finish recording the movie, the ISO value returns to the original setting.
- When you select [ISO AUTO] with the shooting mode set to [P], [A], [S] or [M], the ISO sensitivity will be automatically adjusted within the set range.

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ISO AUTO Min. SS

If you select [ISO AUTO] when the shooting mode is P (Program Auto) or A (Aperture Priority), you can set the shutter speed at which the ISO sensitivity starts changing.

This function is effective for shooting moving subjects. You can minimize subject blurring while also preventing camera shake.

1 MENU →  1 (Camera Settings1) → [ISO AUTO Min. SS] → desired setting.

Menu item details

FASTER (Faster)/FAST (Fast):

The ISO sensitivity will start to change at shutter speeds faster than [Standard], so you can prevent camera shake and subject blurring.

STD (Standard):

The camera automatically sets the shutter speed based on the focal length of the lens.

SLOW (Slow)/SLOWER (Slower):

The ISO sensitivity will start to change at shutter speeds slower than [Standard], so you can shoot images with less noise.


1/16000 — 30":

The ISO sensitivity starts to change at the shutter speed you have set.

Hint

- The difference in shutter speed at which ISO sensitivity starts to change between [Faster], [Fast], [Standard], [Slow], and [Slower] is 1 EV.

Note


- If the exposure is insufficient even when the ISO sensitivity is set to [ISO AUTO Maximum] in [ISO AUTO], in order to shoot with an appropriate exposure, the shutter speed will be slower than the speed set in [ISO AUTO Min. SS].
- In the following situations, the shutter speed may not function as set:
 - When the maximum shutter speed has changed based on the [ Shutter Type] setting.
 - When using the flash to shoot bright scenes. (The maximum shutter speed is limited to the flash-syncing speed of 1/250 second.)
 - When using the flash to shoot dark scenes with the [Flash Mode] set to [Fill-flash] or [Wireless]. (The minimum shutter speed is limited to the speed automatically determined by the camera.)

Related Topic


- [Program Auto](#)
- [Aperture Priority](#)
- [ISO](#)

Metering Mode

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

1 MENU →  (Camera Settings1) → [Metering Mode] → desired setting.

Menu item details

 Multi:

Measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen (Multi-pattern metering).

 Center:

Measures the average brightness of the entire screen, while emphasizing the central area of the screen (Center-weighted metering).

 Spot:

Measures only the central area (Spot metering). This mode is suitable for measuring light on a specified part of the entire screen. The size of the metering circle can be selected from [Spot: Standard] and [Spot: Large]. The position of the metering circle depends the setting for [Spot Metering Point].

 Entire Screen Avg.:

Measures the average brightness of the entire screen. The exposure will be stable even if the composition or the position of the subject changes.

 Highlight:

Measures the brightness while emphasizing the highlighted area on the screen. This mode is suitable for shooting the subject while avoiding overexposure.

Hint

- When [Spot] is selected and [Focus Area] is set to either [Flexible Spot] or [Expand Flexible Spot] while [Spot Metering Point] is set to [Focus Point Link], the spot metering point can be coordinated with the focus area.
- When [Metering Mode] is set to [Highlight] and the [D-Range Opt.] or [Auto HDR] function is activated, the brightness and the contrast will be corrected automatically by dividing the image into small areas and analyzing the contrast of light and shadow. Make settings based on the shooting circumstances.

Note

- [Metering Mode] is locked to [Multi] in the following shooting modes:
 - [Intelligent Auto]
 - Other zoom functions than the optical zoom
- In [Highlight] mode, the subject may be dark if a brighter part exists on the screen.


Related Topic

- [AE lock](#)
- [Spot Metering Point](#)
- [D-Range Opt. \(DRO\)](#)
- [Auto HDR](#)



Spot Metering Point

Sets whether to coordinate the spot metering position with the focus area when [Focus Area] is set to [Flexible Spot] or [Expand Flexible Spot].

1 MENU →  1 (Camera Settings 1) → [Spot Metering Point] → desired setting.

Menu item details

Center:

The spot metering position does not coordinate with the focus area, but always meters brightness at the center.

Focus Point Link:

The spot metering position coordinates with the focus area.

Note

- When [Focus Area] is set to other than [Flexible Spot] or [Expand Flexible Spot], the spot metering position is locked to the center.
- When [Focus Area] is set to [Lock-on AF: Flexible Spot] or [Lock-on AF:Expand Flexible Spot], the spot metering position coordinates to the Lock-on AF start position, but does not coordinate with the tracking of the subject.


Related Topic

- [Focus Area](#)
- [Metering Mode](#)

Interchangeable Lens Digital Camera
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Exposure step

You can adjust the setting increment for the shutter speed, aperture, and exposure compensation values.

1 MENU →  1 (Camera Settings1) → [Exposure step] → desired setting.

Menu item details

0.3EV/0.5EV



Note

- Even if you set [Exposure step] to [0.5EV], the exposure value adjusted using the exposure compensation dial changes in steps of 0.3EV.

Interchangeable Lens Digital Camera
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AEL w/ shutter (still image)

Sets whether to fix the exposure when you press the shutter button halfway down.
Select [Off] to adjust the focus and the exposure separately.

1 MENU →  1 (Camera Settings1) → [ AEL w/ shutter] → desired setting.

Menu item details

Auto:

Fixes the exposure after adjusting the focus automatically when you press the shutter button halfway down when [Focus Mode] is set to [Single-shot AF].

On:

Fixes the exposure when you press the shutter button halfway down.

Off:

Does not fix the exposure when you press the shutter button halfway down. Use this mode when you want to adjust focus and exposure separately.


The product keeps adjusting the exposure while shooting in [Cont. Shooting] mode.

Note


- Operation using the AEL button is prioritized over the [ AEL w/ shutter] settings.

Exposure Std. Adjust

Adjusts this camera's standard for the correct exposure value for each metering mode.


- 1 MENU →  1 (Camera Settings1) → [Exposure Std. Adjust] → desired metering mode.
- 2 Select the desired value as the metering standard.
 - You can set a value from -1 EV to +1 EV in 1/6 EV increments.

Metering Mode

The set standard value will be applied when you select the corresponding metering mode in MENU →  1 (Camera Settings1) → [Metering Mode].

 Multi/  Center/  Spot/  Entire Screen Avg./  Highlight

Note

- The exposure compensation will not be affected when [Exposure Std. Adjust] is changed.
- The exposure value will be locked according to the value set for [ Spot] during using spot AEL.
- The standard value for M.M (Metered Manual) will be changed according to the value set in [Exposure Std. Adjust].
- The value set in [Exposure Std. Adjust] is recorded in Exif data separately from the exposure compensation value. The amount of exposure standard value will not be added to the exposure compensation value.
- If you set [Exposure Std. Adjust] during bracketing shooting, the number of shots for the bracketing will be reset.

Related Topic

- [Metering Mode](#)

Flash Mode


You can set the flash mode.

1 MENU →  1 (Camera Settings1) → [Flash Mode] → desired setting.


Menu item details

 Flash Off:

The flash does not operate.

 Autoflash:


The flash works in dark environments or when shooting towards bright light.

 Fill-flash:

The flash works every time you trigger the shutter.

 Slow Sync.:

The flash works every time you trigger the shutter. Slow sync shooting allows you to shoot a clear image of both the subject and the background by slowing the shutter speed.

 Rear Sync.:

The flash works right before the exposure is completed every time you trigger the shutter. Rear sync shooting allows you to shoot a natural image of the trail of a moving subject such as a moving car or a walking person.

 Wireless:

Using a wireless flash creates a shading effect that gives the subject a more 3D appearance than when using an attached flash.

This mode is effective when you attach a remote control-compatible external flash (sold separately) to the product, and shoot with a wireless flash (sold separately), placed away from the product.

Note

- The default setting depends on the shooting mode.
- Some [Flash Mode] settings are not available, depending on the shooting mode.


Related Topic

- [Using flash \(sold separately\)](#)
- [Wireless flash shooting](#)

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Flash Comp.

Adjusts the amount of flash light in a range of -3.0 EV to +3.0 EV. Flash compensation changes the amount of flash light only. Exposure compensation changes the amount of flash light along with the change of the shutter speed and aperture.

1 MENU →  1 (Camera Settings1) → [Flash Comp.] → desired setting.

- Selecting higher values (+ side) makes the flash level higher, and lower values (- side) makes the flash level lower.

Note

- [Flash Comp.] does not work when the shooting mode is set to the following modes:
 - [Intelligent Auto]
- The higher flash effect (+ side) may not be visible due to the limited amount of flash light available, if the subject is outside the maximum range of the flash. If the subject is very close, the lower flash effect (- side) may not be visible.
- If you attach an ND filter to the lens or attach a diffuser or a color filter to the flash, the appropriate exposure may not be achieved and images may turn out dark. In this case, adjust [Flash Comp.] to the desired value.


Related Topic

- [Using flash \(sold separately\)](#)

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Exp.comp.set

Sets whether to apply the exposure compensation value to control both flash light and ambient light, or just ambient light.

1 MENU →  1(Camera Settings1) → [Exp.comp.set] → desired setting.

Menu item details

Ambient&flash:

Applies the exposure compensation value to control both flash light and ambient light.

Ambient only:

Applies the exposure compensation value to control ambient light only.


Related Topic

- [Flash Comp.](#)

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Red Eye Reduction

When using the flash, it is fired two or more times before shooting to reduce the red-eye phenomenon.

1 MENU →  1 (Camera Settings1) → [Red Eye Reduction] → desired setting.

Menu item details

On:

The flash is always fired to reduce the red-eye phenomenon.

Off:

Does not use Red Eye Reduction.

Note

- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or whether the subject looks at the pre-strobe or not.

White Balance

Corrects the tone effect of the ambient light condition to record a neutral white subject in white. Use this function when the color tones of the image did not come out as you expected, or when you want to change the color tones on purpose for photographic expression.

1 MENU → 1 (Camera Settings 1) → [White Balance] → desired setting.

Menu item details

AWB **AWB** Auto/ Daylight/ Shade/ Cloudy/ Incandescent/ -1 Fluor.: Warm White/ 0 Fluor.: Cool White/ +1 Fluor.: Day White/ +2 Fluor.: Daylight/ Flash/ Underwater Auto: When you select a light source that illuminates the subject, the product adjusts the color tones to suit to the selected light source (preset white balance). When you select [Auto], the product automatically detects the light source and adjusts the color tones.

C.Temp./Filter:

Adjusts the color tones depending on the light source. Achieves the effect of CC (Color Compensation) filters for photography.

Custom 1/Custom 2/Custom 3:

Uses the white balance setting saved in [Custom Setup].

SET Custom Setup:

Memorizes the basic white color under the light conditions for the shooting environment.

Select a memorized custom white balance number.

Hint

- You can display the fine adjustment screen and perform fine adjustments of the color tones as required by pressing the right side of the control wheel.
- If the color tones do not come out as you expected in the selected settings, perform [WB bracket] shooting.
- **AWB** or **AWB** is displayed only when [Priority Set in AWB] is set to [Ambience] or [White].

Note

- [White Balance] is fixed to [Auto] in the following shooting modes:
 - [Intelligent Auto]
- If you use a mercury lamp or a sodium lamp as a light source, the accurate white balance will not be obtained because of the characteristics of the light. It is recommended to shoot images using a flash or select [Custom Setup].


Related Topic

- [Capturing a basic white color in \[Custom Setup\] mode](#)
- [Priority Set in AWB](#)
- [WB bracket](#)

Interchangeable Lens Digital Camera
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Priority Set in AWB

Selects which tone to prioritize when shooting under lighting conditions such as incandescent light when [White Balance] is set to [Auto].

1 MENU →  1 (Camera Settings 1) → [Priority Set in AWB] → desired setting.

Menu item details

AWB
STD Standard:

Shoots with standard auto white balance. The camera automatically adjusts the color tones.

AWB
Ambi Ambience:

Prioritizes the color tone of the light source. This is suitable when you want to produce a warm atmosphere.

AWB
White White:


Prioritizes a reproduction of white color when the color temperature of the light source is low.

Related Topic

- [White Balance](#)

D-Range Opt. (DRO)


By dividing the image into small areas, the product analyzes the contrast of light and shadow between the subject and the background, and creates an image with the optimal brightness and gradation.

- 1 MENU →  1 (Camera Settings 1) → [DRO/Auto HDR] → [D-Range Opt.].
- 2 Select the desired setting using the left/right sides of the control wheel.

Menu item details



 D-Range Optimizer: Auto:

Corrects the brightness automatically.

 D-Range Optimizer: Lv1 — D-Range Optimizer: Lv5:

Optimizes the gradation of a recorded image for each divided area. Select the optimization level from Lv1 (weak) to Lv5 (strong).

Note

- In the following situations, [D-Range Opt.] is fixed to [Off]:
 - When [Picture Effect] is set to other than [Off]
- When [ Record Setting] is set to [120p 100M], [100p 100M], [120p 60M], or [100p 60M], or when [ Frame Rate] is set to [120fps]/[100fps], [DRO/Auto HDR] switches to [Off].
- When shooting with [D-Range Opt.], the image may be noisy. Select the proper level by checking the recorded image, especially when you enhance the effect.


Auto HDR

Shoots three images using different exposures and combines the images with correct exposure, the bright parts of an underexposed image, and the dark parts of an overexposed image to create images with a greater range of gradation (High Dynamic Range). One image with proper exposure and one overlaid image are recorded.

1 MENU →  1 (Camera Settings 1) → [DRO/Auto HDR] → [Auto HDR].

2 Select the desired setting using the left/right sides of the control wheel.

Menu item details

 Auto HDR: Exposure Diff. Auto:
Corrects the brightness automatically.

 Auto HDR: Exposure Diff. 1.0EV — Auto HDR: Exposure Diff. 6.0EV:




Sets the exposure difference, based on the contrast of the subject. Select the optimization level from 1.0EV (weak) to 6.0EV (strong).

For example, if you set the exposure value to 2.0 EV, three images will be composed with the following exposure levels: -1.0 EV, correct exposure and +1.0 EV.

Hint

- The shutter is released three times for one shot. Be careful about the following:
 - Use this function when the subject is motionless or does not flash light.
 - Do not change the composition before shooting.

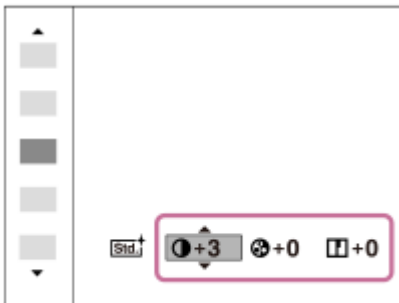
Note

- This function is not available when the [ Quality] is [RAW] or [RAW & JPEG].
- [Auto HDR] is not available in the following shooting modes:
 - [Intelligent Auto]
- [Auto HDR] is not available in the following situations:
 - When [Picture Effect] is set to other than [Off].
- You cannot start the next shot until the capture process is completed after you shoot.
- You may not obtain the desired effect depending on the luminance difference of a subject and the shooting conditions.
- When the flash is used, this function has little effect.
- When the contrast of the scene is low or when product shake or subject blur occurs, you may not obtain good HDR images.
  will be displayed over the recorded image to inform you when the camera detects image blurring. Change the composition or re-shoot the image carefully to avoid image blur, as needed.

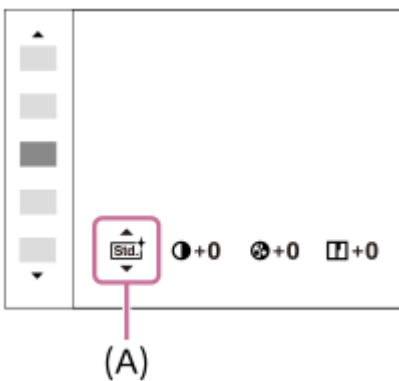
Creative Style

Allows you to set the desired image processing and finely adjust contrast, saturation and sharpness for each image style.

- 1 MENU → 1 (Camera Settings1) → [Creative Style].
- 2 Select the desired style or [Style Box] using the top/bottom sides of the control wheel.
- 3 To adjust (Contrast), (Saturation) and (Sharpness), select the desired item using the right/left sides, and then select the value using the top/bottom sides.



- 4 When selecting [Style Box], move to the right side using the right side of the control wheel, and then select the desired style.
 - You can call up the same style with slightly different settings.



(A): Displayed only when Style Box is selected

Menu item details

Standard:

For shooting various scenes with rich gradation and beautiful colors.

Vivid:

The saturation and contrast are heightened for shooting striking images of colorful scenes and subjects such as flowers, spring greenery, blue sky, or ocean views.

Neutral:

The saturation and sharpness are lowered for shooting images in subdued tones. This is also suitable for capturing image material to be modified with a computer.

 Clear:

For shooting images in clear tones with limpid colors in highlight, suitable for capturing radiant light.

 Deep:


For shooting images with deep and dense colors, suitable for capturing the solid presence of the subject.

 Light:


For shooting images with bright and simple colors, suitable for capturing a refreshingly light ambience.

 Portrait:

For capturing skin in a soft tone, ideally suited for shooting portraits.

 Landscape:

The saturation, contrast, and sharpness are heightened for shooting vivid and crisp scenery. Distant landscapes also stand out more.

 Sunset:

For shooting the beautiful red of the setting sun.

 Night Scene:

The contrast is lowered for reproducing night scenes.

 Autumn leaves:

For shooting autumn scenes, vividly highlighting the reds and yellows of changing leaves.


 Black & White:

For shooting images in black and white monotone.

 Sepia:

For shooting images in sepia monotone.

 Registering preferred settings (Style Box):

Select the six style box (the boxes with numbers on the left side ()) to register preferred settings. Then select the desired settings using the right button.

You can call up the same style with slightly different settings.


To set [Contrast], [Saturation] and [Sharpness]

[Contrast], [Saturation], and [Sharpness] can be adjusted for each image style preset such as [Standard] and [Landscape], and for each [Style Box] to which you can register preferred settings.

Select an item to be set by pressing the right/left sides of the control wheel, then set the value using the top/bottom sides of the control wheel.

 Contrast:

The higher the value selected, the more the difference of light and shadow is accentuated, and the bigger the effect on the image.

 Saturation:

The higher the value selected, the more vivid the color. When a lower value is selected, the color of the image is restrained and subdued.

 Sharpness:

Adjusts the sharpness. The higher the value selected, the more the contours are accentuated, and the lower the value selected, the more the contours are softened.


Note

- [Creative Style] is fixed to [Standard] in the following situations:
 - [Intelligent Auto]
 - [Picture Effect] is set to other than [Off].
- When this function is set to [Black & White] or [Sepia], [Saturation] cannot be adjusted.

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Picture Effect

Select the desired effect filter to achieve more impressive and artistic images.

1 MENU →  1 (Camera Settings1) → [Picture Effect] → desired setting.

Menu item details

 Off:


Disables the [Picture Effect] function.

 Toy Camera:

Creates a soft image with shaded corners and reduced sharpness.

 Pop Color:


Creates a vivid look by emphasizing color tones.

 Posterization:


Creates a high contrast, abstract look by heavily emphasizing primary colors, or in black and white.

 Retro Photo:

Creates the look of an aged photo with sepia color tones and faded contrast.

 Soft High-key:

Creates an image with the indicated atmosphere: bright, transparent, ethereal, tender, soft.

 Partial Color:

Creates an image which retains a specific color, but converts others to black and white.

 High Contrast Mono.:

Creates a high-contrast image in black and white.

 Rich-tone Mono.:


Creates an image in black and white with rich gradation and reproduction of details.


Hint

- You can perform detailed settings for some items using the left/right sides of the control wheel.

Note

- When you use a zoom function other than the optical zoom, setting the zoom scale larger makes [Toy Camera] less effective.
- When [Partial Color] is selected, images may not retain the selected color, depending on the subject or shooting conditions.
- You cannot check the following effects on the shooting screen, because the product processes the image after the shot. Also, you cannot shoot another image until image processing is finished. You cannot use these effects with movies.
 - [Rich-tone Mono.]
- In the case of [Rich-tone Mono.], the shutter is released three times for one shot. Be careful about the following:
 - Use this function when the subject is motionless or does not flash light.
 - Do not change the composition during shooting.










When the contrast of the scene is low or when significant camera-shake or subject blur has occurred, you may not be able to obtain good HDR images. If the product detects such a situation,  appear on the recorded image to inform you of this situation. Change the composition or re-shoot the image carefully to avoid image blur, as needed.

- This function is not available in the following shooting modes:
 - [Intelligent Auto]
- When [ Quality] is set to [RAW] or [RAW & JPEG], this function is not available.

Focus Magnifier

You can check the focus by enlarging the image before shooting.

Unlike with [ MF Assist], you can magnify the image without operating the focus ring.


- 1 MENU →  (Camera Settings 1) → [Focus Magnifier].
- 2 Press the center of the multi-selector to enlarge the image and select the area you want to enlarge by pressing the multi-selector up/down/left/right.
 - Each time you press the center, the magnification scale will change.
 - You can set the initial magnification by selecting MENU →  (Camera Settings 1) → [ Initial Focus Mag.].
- 3 Confirm the focus.
 - Press the  (Delete) button to bring the magnified position into the center of an image.
 - When the focus mode is [Manual Focus], you can adjust the focus while an image is magnified. If [ AF in Focus Mag.] is set to [Off], the [Focus Magnifier] function is canceled when the shutter button is pressed halfway down.
 - When the shutter button is pressed halfway down while an image is magnified during the auto-focusing, different functions are performed depending on the [ AF in Focus Mag.] setting.
 - When [ AF in Focus Mag.] is set to [On]: Auto-focusing is performed again.
 - When [ AF in Focus Mag.] is set to [Off]: The [Focus Magnifier] function is canceled.
 - You can set how long the image is to be shown magnified by selecting MENU →  (Camera Settings 1) → [Focus Magnif. Time].
- 4 Press the shutter button fully down to shoot the image.

To use the focus magnifier function by touch operation

You can magnify the image and adjust the focus by touching the monitor. Set [Touch Operation] to [On] beforehand.

When the focus mode is [Manual Focus], you can perform [Focus Magnifier] by double-tapping the area to focus on.

Hint

- While using the focus magnifier function, you can move the magnified area by dragging it on the touch panel.
- To exit the focus magnifier function, double-tap the monitor again. When [ AF in Focus Mag.] is set to [Off], the focus magnifier function is ended by pressing the shutter button halfway down.

Related Topic


- [MF Assist \(still image\)](#)
- [Focus Magnif. Time](#)
- [Initial Focus Mag. \(still image\)](#)
- [AF in Focus Mag. \(still image\)](#)


- Custom Key(Shoot.)/Custom Key(PB)
- Touch Operation

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Focus Magnif. Time

Set the duration for which an image is to be magnified using the [ MF Assist] or [Focus Magnifier] function.

1 MENU →  1 (Camera Settings1) → [Focus Magnif. Time] → desired setting.

Menu item details

2 Sec:

Magnifies the images for 2 seconds.

5 Sec:

Magnifies the images for 5 seconds.

No Limit:

Magnifies the images until you press the shutter button.



Related Topic

- [Focus Magnifier](#)
- [MF Assist \(still image\)](#)

Interchangeable Lens Digital Camera
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Initial Focus Mag. (still image)

Sets the initial magnification scale when using [Focus Magnifier]. Select a setting that will help you frame your shot.

1 MENU →  1 (Camera Settings1) → [ Initial Focus Mag.] → desired setting.

Menu item details

Full-frame shooting

x1.0:

Displays the image with the same magnification as the shooting screen.

x4.7:

Displays a 4.7-times enlarged image.

APS-C/Super 35mm size shooting

x1.0:




Displays the image with the same magnification as the shooting screen.

x3.1:

Displays a 3.1-times enlarged image.

AF in Focus Mag. (still image)




You can focus on the subject more accurately using auto-focus by magnifying the area where you want to focus. While the magnified image is displayed, you can focus on a smaller area than the flexible spot.

- 1 MENU →  1 (Camera Settings1) → [ AF in Focus Mag.] → [On].
- 2 MENU →  1 (Camera Settings1) → [Focus Magnifier].
- 3 Magnify the image by pressing the center of the multi-selector, and then adjust the position by pressing the multi-selector up/down/left/right.
 - The magnification scale changes each time you press the center.
- 4 Press the shutter button halfway down to focus.
 - The focus will be achieved at point of **+** in the center of the screen.
- 5 Press the shutter button all the way down to shoot.
 - The camera exits the magnified display after shooting.

Hint

- Use of a tripod is recommended to accurately identify the location you want to magnify.
- You can check the auto-focusing result by magnifying the displayed image. If you want to readjust the focus position, adjust the focus area on the magnified screen and then press the shutter button halfway down.

Note

- If you enlarge an area at the edge of the screen, the camera may not be able to focus.
- The exposure and white balance cannot be adjusted while the displayed image is being magnified.
- [ AF in Focus Mag.] is unavailable in the following situations:
 - During movie shooting
 - When [Focus Mode] is set to [Continuous AF].
 - When using a Mount Adaptor (sold separately).
- While the displayed image is being magnified, the following functions are unavailable:
 - [Eye AF]
 - [Center Lock-on AF]
 - [ Eye-Start AF]
 - [ Pre-AF]
 - [Face Detection]

Related Topic

- [Focus Magnifier](#)

- Custom Key(Shoot.)/Custom Key(PB)

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MF Assist (still image)



Enlarges the image on the screen automatically to make manual focusing easier. This works in Manual Focus or Direct Manual Focus shooting.

- 1 MENU →  1 (Camera Settings1) → [ MF Assist] → [On].
- 2 Turn the focus ring to adjust the focus.
 - The image is enlarged. You can magnify images further by pressing the center of the control wheel.

Hint

- You can set how long the image is to be shown magnified by selecting MENU →  1 (Camera Settings1) → [Focus Magnif. Time].

Note


- You cannot use [ MF Assist] when shooting movies. Use the [Focus Magnifier] function instead.
- [ MF Assist] is not available when a Mount Adaptor is attached. Use the [Focus Magnifier] function instead.

Related Topic

- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Focus Magnif. Time](#)

Peaking Level

Enhances the outline of in-focus ranges using a specific color in Manual Focus or Direct Manual Focus shooting.

1 MENU →  1 (Camera Settings1) → [Peaking Level] → desired setting.

Menu item details

High:

Sets the peaking level to high.

Mid:

Sets the peaking level to middle.

Low:

Sets the peaking level to low.

Off:

Does not use the peaking function.

Note

- Since the product recognizes sharp areas as in focus, the effect of peaking differs, depending on the subject and lens.
- The outline of in-focus ranges is not enhanced on devices connected via HDMI.


Related Topic

- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Peaking Color](#)

Interchangeable Lens Digital Camera
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Peaking Color

Sets the color used for the peaking function in Manual Focus or Direct Manual Focus shooting.

1 MENU →  1 (Camera Settings1) → [Peaking Color] → desired setting.

Menu item details

Red:

Enhances outlines in red.

Yellow:

Enhances outlines in yellow.

White:


Enhances outlines in white.

Related Topic

- [Manual Focus](#)
- [Direct manual focus \(DMF\)](#)
- [Peaking Level](#)

Face Detection

Detects the faces of your subjects and adjusts the focus, exposure, flash settings and performs image processing automatically.

1 MENU →  1 (Camera Settings1) → [Face Detection] → desired setting.

Menu item details

Off:

Does not use the [Face Detection] function.

On (Regist. Faces):

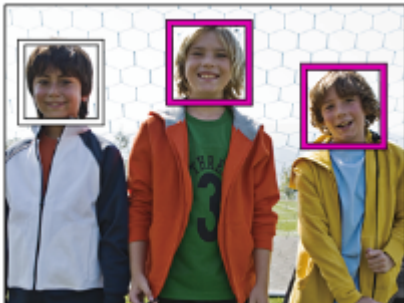
Detects the registered face with higher priority using [Face Registration].

On:

Detects a face without giving higher priority to the registered face.

Face Detection frame

- When the product detects a face, the gray face detection frame appears. When the product determines that autofocus is enabled, the face detection frame turns white. When you press the shutter button halfway down, the frame turns green.
- In case you have registered the priority order for each face using [Face Registration], the product automatically selects the first prioritized face and the face detection frame over that face turns white. The face detection frames of other registered faces turn reddish-purple.




Note

- You cannot use the Face Detection function with the following functions:
 - Other zoom functions than the optical zoom
 - [Picture Effect] is set to [Posterization].
 - When using the [Focus Magnifier] function.
 - [Record Setting] is set to [120p]/[100p].
 - [S&Q Frame Rate] is set to [120fps]/[100fps].
- Up to 8 faces of your subjects can be detected.
- The product may not detect faces at all or may accidentally detect other objects as faces in some conditions.

Face Registration (New Registration)

If you register faces in advance, the product can detect the registered face as a priority when [Face Detection] is set to [On (Regist. Faces)].

- 1 MENU →  1(Camera Settings1) → [Face Registration] → [New Registration].
- 2 Align the guide frame with the face to be registered, and press the shutter button.
- 3 When a confirmation message appears, select [Enter].

Note

- Up to eight faces can be registered.
- Shoot the face from the front in a brightly lit place. The face may not be registered correctly if it is obscured by a hat, a mask, sunglasses, etc.


Related Topic

- [Face Detection](#)

Interchangeable Lens Digital Camera
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Face Registration (Order Exchanging)

When multiple faces are registered to be given priority, the face registered first will be given priority. You can change the priority order.

- 1 MENU →  1 (Camera Settings 1) → [Face Registration] → [Order Exchanging].
 - 2 Select a face to change the order of priority.
 - 3 Select the destination.
-

Related Topic

- [Face Detection](#)

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Face Registration (Delete)

Deletes a registered face.

1 MENU →  1 (Camera Settings1) → [Face Registration] → [Delete].

If you select [Delete All], you can delete all registered faces.




Note

- Even if you execute [Delete], the data for registered face will remain in the product. To delete the data for registered faces from the product, select [Delete All].

Interchangeable Lens Digital Camera
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Movie: Exposure Mode

You can set the exposure mode for movie shooting.

- 1 Set the mode dial to  (Movie).
- 2 MENU →  (Camera Settings2) → [ Exposure Mode] → desired setting.
- 3 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

Program Auto:

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

Aperture Priority:

Allows you to shoot after adjusting the aperture value manually.

Shutter Priority:

Allows you to shoot after adjusting the shutter speed manually.

Manual Exposure:

Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

S&Q Motion: Exposure Mode

You can select the exposure mode for slow-motion/quick-motion shooting. You can change the setting and playback speed for slow-motion/quick-motion shooting with [**S&Q** S&Q Settings].

- 1 Set the mode dial to **S&Q** (S&Q Motion).
- 2 MENU →  (Camera Settings2) → [**S&Q** Exposure Mode] → desired setting.
- 3 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

S&Q P Program Auto:

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

S&Q A Aperture Priority:

Allows you to shoot after adjusting the aperture value manually.

S&Q S Shutter Priority:

Allows you to shoot after adjusting the shutter speed manually.

S&Q M Manual Exposure:

Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.



Related Topic

- [S&Q Settings](#)

Interchangeable Lens Digital Camera
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File Format (movie)

Selects the movie file format.




1 MENU →  2 (Camera Settings2) → [ File Format] → desired setting.

Menu item details

XAVC S 4K:

Records 4K movies in the XAVC S format. This format supports a high bit rate.


Audio: LPCM

- One of the following kinds of memory card is needed to record movies with [ File Format] set to [XAVC S 4K]:
 - Memory Stick PRO-HG Duo
 - Movies cannot be recorded in 100 Mbps or more.
 - SDHC / SDXC / microSDHC / microSDXC memory card (SD Speed Class 10, or UHS Speed Class U1 or faster)
 - UHS Speed Class U3 is required to record at 100 Mbps or more.
- [HDMI Info. Display] temporarily switches to [Off] when [ File Format] is set to [XAVC S 4K].
- Images will not appear on the monitor of the camera if you record movies while the camera is connected to an HDMI device with [ File Format] set to [XAVC S 4K].

XAVC S HD:

Records HD movies in the XAVC S format. This format supports a high bit rate.

Audio: LPCM

- One of the following kinds of memory card is needed to record movies with [ File Format] set to [XAVC S HD]:
 - Memory Stick PRO-HG Duo
 - Movies cannot be recorded at 100 Mbps or more.
 - SDHC / SDXC / microSDHC / microSDXC memory card (SD Speed Class 10, or UHS Speed Class U1 or faster)
 - UHS Speed Class U3 is required to record at 100 Mbps or more.

AVCHD:

Records HD movies in the AVCHD format. This file format is suitable for high-definition TV.

Audio: Dolby Digital

MP4:


Records MP4 (AVC) movies. This format is suitable for playback on smartphones or tablets, web uploads, email attachments, etc.


Audio: AAC

Hint

- You can save images to a computer or copy them to a disc compatible with your playback device using the PlayMemories Home software.

Note

- When [ File Format] is set to [AVCHD], the file size of movies is limited to approx. 2 GB. If the movie file size reaches approx. 2 GB during recording, a new movie file will be created automatically.



- When [ File Format] is set to [MP4], the file size of movies is limited to approx. 4 GB. If the movie file size reaches approx. 4 GB during recording, recording will stop automatically.

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Record Setting (movie)

Selects the image size, frame rate, and image quality for movie recording. The higher the bit-rate, the higher the image quality.

1 MENU →  2 (Camera Settings2) → [ Record Setting] → desired setting.


Menu item details

When [ File Format] is set to [XAVC S 4K]

Records high-definition movies by converting them into the MP4 file format using the MPEG-4 AVC/H.264 codec.

Frame Rate	Bit-rate	
	60 Mbps	100 Mbps
30p/25p	30p 60M/25p 60M	30p 100M/25p 100M
24p	24p 60M*	24p 100M*

* Only when [NTSC/PAL Selector] is set to NTSC

When [ File Format] is set to [XAVC S HD]

Records high-definition movies by converting them into the MP4 file format using the MPEG-4 AVC/H.264 codec.

Frame Rate	Bit-rate		
	50 Mbps	60 Mbps	100 Mbps
120p/100p	—	120p 60M/100p 60M	120p 100M/100p 100M
60p/50p	60p 50M/50p 50M	—	—
30p/25p	30p 50M/25p 50M	—	—
24p	24p 50M*	—	—

* Only when [NTSC/PAL Selector] is set to NTSC

When [ File Format] is set to [AVCHD]

60i/50i: Movies are recorded at approximately 60 fields/sec (for 1080 60i-compatible devices) or 50 fields/sec (for 1080 50i-compatible devices), in interlaced mode with Dolby Digital audio and in the AVCHD format.

24p/25p: Movies are recorded at approximately 24 frames/sec (for 1080 60i-compatible devices) or 25 frames/sec (for 1080 50i-compatible devices), in progressive mode with Dolby Digital audio and in the AVCHD format.

60p/50p: Movies are recorded at approximately 60 frames/sec (for 1080 60i-compatible devices) or 50 frames/sec (for 1080 50i-compatible devices), in progressive mode with Dolby Digital audio and in the AVCHD format.

Frame Rate	Bit-rate		
	17 Mbps	24 Mbps	28 Mbps
60i/50i	60i 17M(FH)/50i 17M(FH)	60i 24M(FX)/50i 24M(FX)	—




Frame Rate	Bit-rate		
	17 Mbps	24 Mbps	28 Mbps
60p/50p	—	—	60p 28M(PS)/50p 28M(PS)
24p/25p	24p 17M(FH)/25p 17M(FH)	24p 24M(FX)/25p 24M(FX)	—

When [ File Format] is set to [MP4]

Movies are recorded in the MPEG-4 format, at approximately 60 frames/sec (for 1080 60i-compatible devices), approximately 50 frames/sec (for 1080 50i-compatible devices), approximately 30 frames/sec (for 1080 60i-compatible devices), or approximately 25 frames/sec (for 1080 50i-compatible devices), in progressive mode with AAC audio and in the MP4 format.

Frame Rate	Bit-rate		
	6 Mbps	16 Mbps	28 Mbps
60p/50p	—	—	1920x1080 60p 28M/1920x1080 50p 28M
30p/25p	1280x720 30p 6M/1280x720 25p 6M	1920x1080 30p 16M/1920x1080 25p 16M	—

Note



- Movies recorded with [60p 28M(PS)]/[50p 28M(PS)]/[60i 24M(FX)]/[50i 24M(FX)]/[24p 24M(FX)]/[25p 24M(FX)] as the [ Record Setting] are converted by PlayMemories Home in order to create an AVCHD recording disc. You cannot create a disc in the original image quality. The conversion can take a long time. If you want to keep the original image quality, store your movies on a Blu-ray Disc.
- To play back 60p/50p/24p/25p movies on a TV, the TV must be compatible with the 60p/50p/24p/25p format. If the TV is not compatible with the 60p/50p/24p/25p format, 60p/50p/24p/25p movies will be output as 60i/50i movies.
- [120p]/[100p] cannot be selected for the following settings.
 - [Intelligent Auto]
- In full-frame shooting, the angle of view will be narrower under the following conditions:
 - When [ File Format] is set to [XAVC S 4K] and [ Record Setting] is set to [30p]

Related Topic

- [APS-C/Super 35mm](#)
- [Angle of view during movie recording](#)

S&Q Settings

You can record a moment that cannot be captured by the naked eye (slow-motion recording), or record a long-term phenomenon into a compressed movie (quick-motion recording). For example, you can record an intense sports scene, the moment when a bird starts to fly, a blooming flower, and a changing view of clouds or a starry sky. Sound will not be recorded.

- 1 Set the mode dial to **S&Q** (S&Q Motion).
- 2 Select MENU →  (Camera Settings2) → [**S&Q** Exposure Mode] → and select the desired setting of slow-motion/quick-motion (**S&Q** Program Auto, **S&Q** Aperture Priority, **S&Q** Shutter Priority, or **S&Q** Manual Exposure).
- 3 Select MENU →  (Camera Settings2) → [**S&Q** S&Q Settings] and select the desired settings for [**S&Q** Record Setting] and [**S&Q** Frame Rate].
- 4 Press the MOVIE (movie) button to start recording.
 - Press the MOVIE button again to stop recording.

Menu item details

S&Q Record Setting:

Selects the frame rate of the movie.

S&Q Frame Rate:

Selects the shooting frame rate.

Playback speed

The playback speed will vary as below depending on the assigned [**S&Q** Record Setting] and [**S&Q** Frame Rate].
When [NTSC/PAL Selector] is set to NTSC

S&Q Frame Rate	S&Q Record Setting		
	24p	30p	60p
120fps	5 times slower	4 times slower	-
60fps	2.5 times slower	2 times slower	Normal playback speed
30fps	1.25 times slower	Normal playback speed	2 times quick
15fps	1.6 times quick	2 times quick	4 times quick
8fps	3 times quick	3.75 times quick	7.5 times quick
4fps	6 times quick	7.5 times quick	15 times quick
2fps	12 times quick	15 times quick	30 times quick
1fps	24 times quick	30 times quick	60 times quick

When [NTSC/PAL Selector] is set to PAL

S&Q Frame Rate	S&Q Record Setting	
	25p	50p
100fps	4 times slower	-
50fps	2 times slower	Normal playback speed
25fps	Normal playback speed	2 times quick
12fps	2.08 times quick	4.16 times quick
6fps	4.16 times quick	8.3 times quick
3fps	8.3 times quick	16.6 times quick
2fps	12.5 times quick	25 times quick
1fps	25 times quick	50 times quick

- When [S&Q Frame Rate] is set to [120fps]/[100fps], you cannot set [S&Q Record Setting] to [60p]/[50p].

Note


- In slow-motion recording, the shutter speed becomes faster and you may not be able to obtain the proper exposure. If this happens, decrease the aperture value or adjust the ISO sensitivity to a higher value.
- For an estimation of recordable time, refer to “Recordable movie times.”
- The bit-rate of a recorded movie varies depending on the settings for [S&Q Frame Rate] and [S&Q Record Setting].
- The movie will be recorded in XAVC S HD format.
- During slow-motion/quick-motion recording, the following functions are not available.
 - [Dual Video REC]
 - [TC Run] under [TC/UB Settings]
 - [TC Output] under [HDMI Settings]
 - [4K Output Sel.]

Related Topic

- [S&Q Motion: Exposure Mode](#)
- [Recordable movie times](#)

Dual Video REC

Allows you to simultaneously record an XAVC S movie and an MP4 movie, or an AVCHD movie and an MP4 movie. You can simultaneously record a movie in different movie formats onto a memory card. (To set the recording mode for 2 memory cards, such as simultaneous recording or sort recording, use [Recording Mode].)

1 MENU →  2 (Camera Settings2) → [Dual Video REC] → desired setting.

Menu item details







On:

An XAVC S movie and an MP4 movie, or an AVCHD movie and an MP4 movie, are recorded simultaneously.

Off:

The [Dual Video REC] function is not used.

Note

- When [Recording Mode] is set to [Simult. ()] or [Simult. (/ )], [Dual Video REC] will temporarily be set to [Off].
- When [ Record Setting] for an XAVC S movie is set to [60p]/[50p] or [120p]/[100p], [ Record Setting] for an AVCHD movie is set to [60p]/[50p], or [ File Format] is set to [MP4], [Dual Video REC] is set to [Off].
- If you select [Date View] in [View Mode] when playing back movies, XAVC S movies and MP4 movies, or AVCHD movies and MP4 movies are displayed side-by-side.



Related Topic

- [Record Setting \(movie\)](#)
- [Switching between still images and movies \(View Mode\)](#)
- [Recording Mode](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

AF drive speed (movie)

You can switch focusing speed when using autofocus in movie mode.

1 MENU →  2 (Camera Settings2) → [ AF drive speed] → desired setting.

Menu item details

Fast:

Sets the AF drive speed to fast. This mode is suitable for shooting active scenes, such as sports.

Normal:

Sets the AF drive speed to normal.



Slow:

Sets the AF drive speed to slow. With this mode, the focus switches smoothly when the subject to be focused is changed.

Interchangeable Lens Digital Camera
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AF Track Sens (movie)

You can set the AF sensitivity in movie mode.

1 MENU →  2 (Camera Settings2) → [ AF Track Sens] → desired setting.

Menu item details

Responsive:

Sets the AF sensitivity to high. This mode is useful when recording movies in which the subject is moving quickly.



Standard:

Sets the AF sensitivity to normal. This mode is useful when there are obstacles in front of the subject or in crowded places.

Interchangeable Lens Digital Camera
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Auto Slow Shut. (movie)

Sets whether or not to adjust the shutter speed automatically when recording movies if the subject is dark.




1 MENU →  2 (Camera Settings2) → [ Auto Slow Shut.] → desired setting.

Menu item details

On:
Uses Auto Slow Shutter. The shutter speed automatically slows when recording in dark locations. You can reduce noise in the movie by using a slow shutter speed when recording in dark locations.

Off:
Does not use Auto Slow Shutter. The recorded movie will be darker than when [On] is selected, but you can record movies with smoother motion and less object blur.


Note

- [ Auto Slow Shut.] does not function in the following situations:
 - During slow-motion/quick-motion shooting
 -  (Shutter Priority)
 -  (Manual Exposure)
 - When [ISO] is set to other than [ISO AUTO]

Interchangeable Lens Digital Camera
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Audio Recording

Sets whether to record sounds when shooting movies. Select [Off] to avoid recording the sounds of the lens and the camera operating.

1 MENU →  2 (Camera Settings2) → [Audio Recording] → desired setting.

Menu item details

On:


Records sound (stereo).

Off:

Does not record sound.

Audio Rec Level

You can adjust the audio recording level while checking the level meter.

- 1 MENU →  2 (Camera Settings2) → [Audio Rec Level].
- 2 Select the desired level using the right/left sides of the control wheel.

Menu item details

+:

Turns up the audio recording level.

-:

Turns down the audio recording level.


Reset:

Resets the audio recording level to the default setting.

Hint


- When you record audio movies with loud volumes, set [Audio Rec Level] to a lower sound level. Doing so enables you to record more realistic audio. When you record audio movies with lower volumes, set [Audio Rec Level] to a greater sound level to make the sound easier to hear.

Note

- Regardless of the [Audio Rec Level] settings, the limiter always operates.
- [Audio Rec Level] is available only when the shooting mode is set to movie mode.
- [Audio Rec Level] is unavailable during slow-motion/quick-motion shooting.
- The [Audio Rec Level] settings are applied for both the internal microphone and the  (microphone) terminal input.

Audio Level Display

Sets whether to display the audio level on the screen.

1 MENU →  2 (Camera Settings2) → [Audio Level Display] → desired setting.

Menu item details

On:

Displays the audio level.

Off:

Does not display the audio level.


Note

- The audio level is not displayed in the following situations:
 - When [Audio Recording] is set to [Off].
 - When DISP (Display Setting) is set to [No Disp. Info].
 - During slow-motion/quick-motion shooting
- The audio level is also displayed while shooting stand-by in movie recording mode.

Interchangeable Lens Digital Camera
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Audio Out Timing

You can set echo cancellation during audio monitoring and prevent undesirable deviations between video and audio during HDMI output.

1 MENU →  2 (Camera Settings2) → [Audio Out Timing] → desired setting.

Menu item details

Live:

Outputs audio without delay. Select this setting when audio deviation is a problem during audio monitoring.


Lip Sync:

Outputs audio and video in sync. Select this setting to prevent undesirable deviations between video and audio.

Interchangeable Lens Digital Camera
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Wind Noise Reduct.

Sets whether or not to reduce wind noise by cutting the low-range sound of the input audio from the built-in microphone.

1 MENU →  2 (Camera Settings2) → [Wind Noise Reduct.] → desired setting.

Menu item details

On:

Reduces wind noise.

Off:

Does not reduce wind noise.



Note

- Setting this item to [On] where wind is not blowing sufficiently hard may cause normal sound to be recorded with too low volume.
- When an external microphone (sold separately) is used, [Wind Noise Reduct.] does not function.

Interchangeable Lens Digital Camera
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Marker Display (movie)

Sets whether or not to display markers set using [ Marker Settings] on the monitor or the viewfinder while shooting movies.

1 MENU →  (Camera Settings2) → [ Marker Display] → desired setting.

Menu item details


On:

Markers are displayed. The markers are not recorded.

Off:

No marker is displayed.

Note

- The markers are displayed when the mode dial is set to  (Movie) or **S&Q**, or when shooting movies.
- You cannot display markers when using [Focus Magnifier].
- The markers are displayed on the monitor or viewfinder. (You cannot output the markers.)



Related Topic

- [Marker Settings \(movie\)](#)

Interchangeable Lens Digital Camera
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Marker Settings (movie)

Sets the markers to be displayed while shooting movies.

1 MENU →  2 (Camera Settings2) → [ Marker Settings] → desired setting.

Menu item details

Center:

Sets whether or not to display the center marker in the center of the shooting screen.

[Off]/[On]

Aspect:

Sets the aspect marker display.

[Off]/[4:3]/[13:9]/[14:9]/[15:9]/[1.66:1]/[1.85:1]/[2.35:1]

Safety Zone:

Sets the safety zone display. This becomes the standard range that can be received by a general household TV.

[Off]/[80%]/[90%]

Guideframe:

Sets whether or not to display the guide frame. You can verify whether the subject is level or perpendicular to the ground.

[Off]/[On]


Hint

- You can display several markers at the same time.
- Place the subject on the cross point of the [Guideframe] to make a balanced composition.

Interchangeable Lens Digital Camera
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Video Light Mode

Sets the illumination setting for the HVL-LBPC LED light (sold separately).

1 MENU →  2 (Camera Settings2) → [Video Light Mode] → desired setting.

Menu item details

Power Link:

The video light turns on/off in sync with the ON/OFF operation of this camera.

REC Link:

The video light turns on/off in sync with movie recording start/stop.

REC Link&STBY:


The video light turns on when movie recording starts and dims when not recording (STBY).

Auto:

The video light automatically turns on when it is dark.

Movie w/ shutter

You can start or stop recording movies by pressing the shutter button, which is bigger and easier to press than the MOVIE (Movie) button.

- 1 MENU →  2 (Camera Settings2) → [Movie w/ shutter] → desired setting.

Menu item details


On:

Enables movie recording using the shutter button when the shooting mode is set to [Movie] or [S&Q Motion].

Off:

Disables movie recording using the shutter button.

Hint

- When [Movie w/ shutter] is set to [On], you can still start or stop recording movies using the MOVIE button.
- When [Movie w/ shutter] is set to [On], you can use the shutter button to start or stop recording movies on an external recorder using [ REC Control].

Note

- When [Movie w/ shutter] is set to [On], you cannot focus by pressing the shutter button halfway down during movie recording.



Related Topic

- [Shooting movies](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Shutter Type (still image)

You can set whether to shoot with a mechanical shutter or an electronic shutter.

1 MENU →  2 (Camera Settings2) →  Shutter Type → desired setting.

Menu item details

Auto:

The shutter type is automatically switched based on the shooting conditions and shutter speed.


Mechanical Shut.:

Shoot with the mechanical shutter only.





Electronic Shut.:

Shoot with the electronic shutter only.

Hint

- In the following situations, set the [ Shutter Type] to [Auto] or [Electronic Shut.].
 - When shooting with a high-speed shutter in a bright environment such as outside in bright sunlight, the beach, or snowy mountains.
 - When you want to increase the speed of continuous shooting.

Note


- In rare cases, the shutter sound may be produced when the power is turned off even if the [ Shutter Type] is set to [Electronic Shut.]. However, this is not a malfunction.
- In the following situations, the mechanical shutter will be activated even if the [ Shutter Type] is set to [Electronic Shut.].
 - When capturing a basic white color in [Custom Setup] for [White Balance]
 - [Face Registration]
- The following functions are unavailable when the [ Shutter Type] is set to [Electronic Shut.].
 - Flash shooting
 -  Long Exposure NR
 - Bulb shooting


Related Topic

- [Using the electronic shutter](#)
- [Displaying the release timing \(Shoot. Timing Disp.\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

e-Front Curtain Shut.

The electronic front curtain shutter function shortens the time lag between when the shutter button is pressed and the shutter is released. You can use [e-Front Curtain Shut.] when [ Shutter Type] is set to [Mechanical Shut.].

1 MENU →  (Camera Settings2) → [e-Front Curtain Shut.] → desired setting.

Menu item details

On:

Uses the electronic front curtain shutter function.

Off:


Does not use the electronic front curtain shutter function.

Note

- When you shoot at high shutter speeds with a large-aperture lens attached, out-of-focus circle produced by the bokeh effect may get cut off because of the shutter mechanism. If this happens, set [e-Front Curtain Shut.] to [Off].
- When a lens made by another manufacturer (including a Minolta/Konica-Minolta lens) is used, set this function to [Off]. If you set this function to [On], the correct exposure will not be set or the image brightness will be uneven.
- When you shoot at high shutter speeds, the image brightness may become uneven depending on the shooting environment. In such cases, set [e-Front Curtain Shut.] to [Off].

Release w/o Lens

Sets whether or not the shutter can be released when no lens is attached.

1 MENU →  2 (Camera Settings2) → [Release w/o Lens] → desired setting.

Menu item details

Enable:

Releases the shutter when no lens is attached. Select [Enable] when attaching the product to an astronomical telescope, etc.

Disable:

Does not release the shutter when a lens is not attached.


Note

- Correct metering cannot be achieved when you use lenses that do not provide a lens contact, such as the lens of an astronomical telescope. In such cases, adjust the exposure manually by checking it on the recorded image.

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Release w/o Card

Sets whether the shutter can be released when no memory card has been inserted.

1 MENU →  2 (Camera Settings2) → [Release w/o Card] → desired setting.

Menu item details

Enable:

Releases the shutter even if no memory card has been inserted.

Disable:

Does not release the shutter when no memory card has been inserted.


Note

- When no memory card has been inserted, the images shot will not be saved.
- The default setting is [Enable]. It is recommended that you select [Disable] prior to actual shooting.

Interchangeable Lens Digital Camera
ILCE-9 α9

SteadyShot

Sets whether or not to use the SteadyShot function.

① MENU →  2 (Camera Settings2) → [SteadyShot] → desired setting.

Menu item details

On:

Uses [SteadyShot].


Off:

Does not use [SteadyShot].

We recommend that you set [Off] when using a tripod.

SteadyShot Settings

You can shoot with an appropriate SteadyShot setting for the attached lens.

- 1 MENU →  2 (Camera Settings2) → [SteadyShot] → [On].
- 2 [SteadyShot Settings] → [SteadyShot Adjust.] → desired setting.

Menu item details

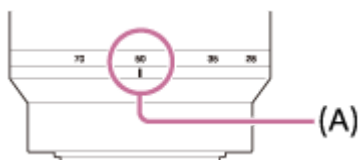
Auto:

Performs the SteadyShot function automatically according to the information obtained from the attached lens.



Manual:

Performs the SteadyShot function according to the focal-length set using [SteadyS. Focal Len.]. (8mm-1000mm)

- Check the focal-length index (A) and set the focal-length.



Note



- The SteadyShot function may not work optimally when the power has just been turned on, right after you point the camera towards a subject, or when the shutter button has been pressed all the way down without stopping halfway.
- When using a tripod, make sure to turn off the SteadyShot function because this can cause any malfunction when shooting.
- [SteadyShot Settings] will be unavailable when MENU →  2 (Camera Settings2) → [SteadyShot] is set to [Off].
- When the camera cannot obtain focal length information from the lens, the SteadyShot function does not work correctly. Set [SteadyShot Adjust.] to [Manual] and set [SteadyS. Focal Len.] to match the lens you are using. The current set value of the SteadyShot focal length will display to the side of .
- When using an SEL16F28 lens (sold separately) with a teleconverter, etc., set [SteadyShot Adjust.] to [Manual] and set the focal length.
- When you set [SteadyShot] to [On]/[Off], the SteadyShot settings of the camera and lens switch at the same time.
- If a lens equipped with a SteadyShot switch is attached, the settings can only be changed using that switch on the lens. You cannot switch the settings using the camera.

Related Topic


- [SteadyShot](#)

Clear Image Zoom/Digital Zoom (Zoom)

When you use a zoom function other than the optical zoom, you can exceed the zoom range of the optical zoom.

- 1 MENU → 2 (Camera Settings2) → [Zoom Setting] → [On:ClearImage Zoom] or [On:Digital Zoom].
- 2 When a power zoom lens is mounted, move the zoom lever or the zoom ring of the zoom lens to enlarge subjects.
 - When you exceed the zoom range of the optical zoom, the camera automatically switches to another zoom than the optical zoom.
- 3 When a lens other than a power zoom lens is mounted, select MENU → 2 (Camera Settings2) → [Zoom] → desired value.

Press the center of the control wheel to exit.

 - You can also assign the [Zoom] function to the desired button by selecting MENU → 2 (Camera Settings2) → [Custom Key(Shoot.)].


Related Topic

- [Zoom Setting](#)
- [The zoom features available with this product](#)
- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

Interchangeable Lens Digital Camera
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Zoom Setting

You can select the zoom setting of the product.

1 MENU →  2 (Camera Settings2) → [Zoom Setting] → desired setting.

Menu item details

Optical zoom only:

Limits the zoom range to the optical zoom. You can use the Smart Zoom function if you set [ Image Size] to [M] or [S].

On:ClearImage Zoom:

Select this setting to use Clear Image Zoom. Even if the zoom range exceeds the optical zoom, the product magnifies images within the range in which image quality does not deteriorate significantly.

On:Digital Zoom:

When the zoom range of the Clear Image Zoom is exceeded, the product magnifies images to the largest scale. However, the image quality will deteriorate.

Note

- Set [Optical zoom only] if you want to magnify images within the range in which image quality does not deteriorate.


Related Topic

- [The zoom features available with this product](#)
- [About zoom scale](#)

Interchangeable Lens Digital Camera
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Zoom Ring Rotate

Assigns zoom in (T) or zoom out (W) functions to the zoom ring rotation direction. Available only with power zoom lenses that support this function.

1 MENU →  2 (Camera Settings2) → [Zoom Ring Rotate] → desired setting.

Menu item details

Left(W)/Right(T):



Assigns zoom out (W) function to left-handed rotation and zoom-in (T) function to right-handed rotation.

Right(W)/Left(T):

Assigns zoom in (T) function to left-handed rotation and zoom-out (W) function to right-handed rotation.

DISP Button (Monitor/Finder)

Allows you to set the screen display modes that can be selected using DISP (Display Setting) in shooting mode.

- 1 MENU →  2 (Camera Settings2) → [DISP Button] → [Monitor] or [Finder] → desired setting → [Enter].
The items marked with  are available.

Menu item details

Graphic Display :

Shows basic shooting information. Graphically shows the shutter speed and aperture value.

Display All Info. :

Shows recording information.

No Disp. Info. :

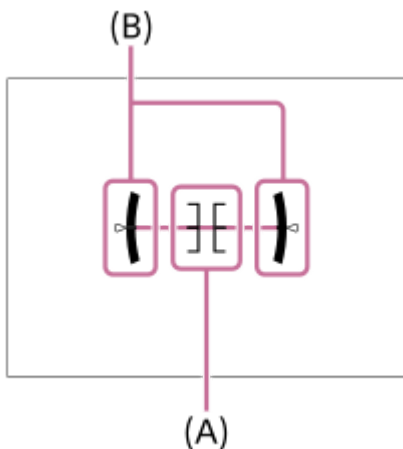
Does not show recording information.

Histogram :

Displays the luminance distribution graphically.

Level :

Indicates whether the product is level in both the front-back (A) and horizontal (B) directions. When the product is level in both directions, the indicator turns to green.



For viewfinder*:

Displays information suited for shooting with the viewfinder.

* This screen mode is available only in the setting for [Monitor].

Note


- If you tilt the product forward or backward by a large degree, the level error will be great.
- The product may have a margin of error of almost $\pm 1^\circ$ even when the inclination is corrected by the level.

Related Topic

- [Switching the screen display \(while shooting/during playback\)](#)

FINDER/MONITOR

Sets the method for switching the display between Electronic Viewfinder and the screen.

1 MENU →  2 (Camera Settings2) → [FINDER/MONITOR] → desired setting.

Menu item details

Auto:

When you look into the Electronic Viewfinder, the eye sensor reacts and the display is switched to the Electronic Viewfinder automatically.


Viewfinder(Manual):

The screen is turned off and the image is displayed only in the Electronic Viewfinder.

Monitor(Manual):

The Electronic Viewfinder is turned off and the image is always displayed on the screen.

Hint

- You can assign the [FINDER/MONITOR] function to your preferred key.
MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] → set [Finder/Monitor Sel.] to the preferred key.
- To turn off automatic switching of the display using the eye sensor, set [FINDER/MONITOR] to [Viewfinder(Manual)] or [Monitor(Manual)].

Note



- When the monitor is pulled out, the eye sensor of the camera will not detect your eye approaching even if [FINDER/MONITOR] is set to [Auto]. The image will continue to be displayed on the monitor.

Related Topic

- [Custom Key\(Shoot.\)/Custom Key\(PB\)](#)

Finder Frame Rate (still image)

Display the subject's movements more smoothly by adjusting the frame rate of the viewfinder during still image shooting. This function is convenient when shooting a fast-moving subject.

- 1 MENU →  2 (Camera Settings2) → [ Finder Frame Rate] → desired setting.
 - This function can be assigned to button of your choice using [Custom Key(Shoot.)].

Menu item details




High:

Displays the movements of the subject more smoothly on the viewfinder.

Standard:

Displays the subject at a normal frame rate on the viewfinder.

Note

- When [ Finder Frame Rate] is set to [High], the resolution of the viewfinder is lowered.
- [ Finder Frame Rate] is locked to [Standard] in the following situations:
 - During playback
 - During HDMI connection
 - During continuous shooting with [ Shutter Type] set to [Auto] or [Electronic Shut.].


Related Topic

- [Custom Key\(Shoot.\)](#)/[Custom Key\(PB\)](#)

Interchangeable Lens Digital Camera
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Zebra

The zebra pattern will appear over part of an image if the brightness level of that part meets the IRE level that you set. Use this zebra pattern as a guide to adjust the brightness.

1 MENU →  2 (Camera Settings2) → [Zebra] → desired setting.

Menu item details

Off:

Does not display the zebra pattern.

70/75/80/85/90/95/100/100+/Custom 1/Custom 2:

Adjusts the brightness level.

Hint

- You can register values to check the correct exposure or overexposure as well as the brightness level for [Zebra]. The settings for correct exposure confirmation and overexposure confirmation are registered to [Custom1] and [Custom2] respectively in the default settings.
- To check the correct exposure, set a standard value and the range for the brightness level. The zebra pattern will appear on areas that fall within the range you set.
- To check the overexposure, set a minimum value for the brightness level. The zebra pattern will appear over areas with a brightness level equal to or higher than the value you set.


Note

- The zebra pattern is not displayed on devices connected via HDMI.

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Grid Line

Sets whether the grid line is displayed or not. The grid line will help you to adjust the composition of images.

1 MENU →  2 (Camera Settings2) → [Grid Line] → desired setting.

Menu item details

Rule of 3rds Grid:

Place main subjects close to one of the grid lines that divide the image into thirds for a well-balanced composition.

Square Grid:

Square grids make it easier to confirm the horizontal level of your composition. This is suitable to determine the quality of the composition when shooting landscape, close-up, or duplicated images.

Diag. + Square Grid:

Place a subject on the diagonal line to express an uplifting and powerful feeling.


Off:

Does not display the grid line.

Interchangeable Lens Digital Camera
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Exposure Set. Guide

You can set whether to display a guide when you change the exposure.

① MENU →  2 (Camera Settings2) → [Exposure Set. Guide] → desired setting.

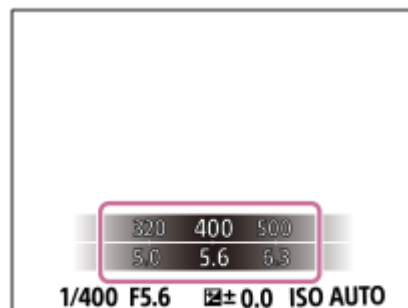
Menu item details

Off:

Does not display the guide.


On:

Displays the guide.



Live View Display

Sets whether or not to show images altered with effects of the exposure compensation, white balance, [Creative Style], or [Picture Effect] on the screen.

- 1 MENU →  2 (Camera Settings2) → [Live View Display] → desired setting.

Menu item details

Setting Effect ON:

Displays Live View in conditions close to what your picture will look like as a result of applying all your settings. This setting is useful when you want to shoot pictures while checking the results of the shot on the Live View screen.

Setting Effect OFF:

Displays Live View without the effects of exposure compensation, white balance, [Creative Style], or [Picture Effect]. When this setting is used, you can easily check the image composition.

Live View is always displayed with the appropriate brightness even in [Manual Exposure] mode.

When [Setting Effect OFF] is selected, the  icon is displayed on the Live View screen.

Note

- [Live View Display] cannot be set to [Setting Effect OFF] in the following shooting modes:
 - [Intelligent Auto]
 - [Movie]
 - [S&Q Motion]
- When [Live View Display] is set to [Setting Effect OFF], the brightness of the shot image will not be the same as that of the displayed Live View.
- Even if [Live View Display] is set to [Setting Effect OFF], when you use the electrical shutter, images will look as if your settings were applied.


Hint

- When you use a third-party flash, such as a studio flash, Live View Display may be dark for some shutter speed settings. When [Live View Display] is set to [Setting Effect OFF], Live View Display will be displayed brightly, so that you can easily check the composition.

Interchangeable Lens Digital Camera
ILCE-9 α9

Shoot. Start Disp.

Sets whether to let the screen black out when shooting the first image during blackout-free shooting.

1 MENU →  (Camera Settings2) → [Shoot. Start Disp.] → desired setting.

Menu item details

On:


The screen blacks out when shooting the first image during blackout-free shooting.

Off:

The screen does not black out when shooting the first image during blackout-free shooting.

Displaying the release timing (Shoot. Timing Disp.)

Sets the method for displaying the shutter release timing on the screen during blackout-free shooting.


1 MENU →  2 (Camera Settings2) → [Shoot. Timing Disp.] → desired setting.

Menu item details

On: Type1/On: Type2:

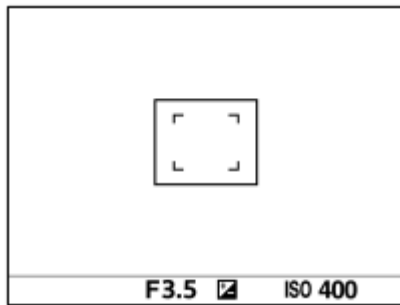
Displays a frame around the focusing frame.

On: Type3/On: Type4:

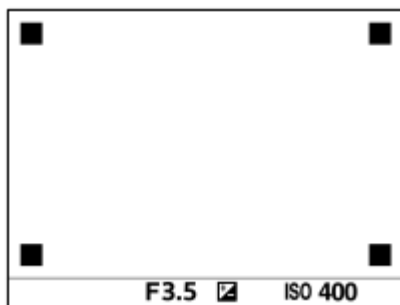
Displays  in the four corners of the screen.

Off:

Does not display the shutter release timing during blackout-free shooting.



[On: Type1]/[On: Type2] (Example)




[On: Type3]/[On: Type4]

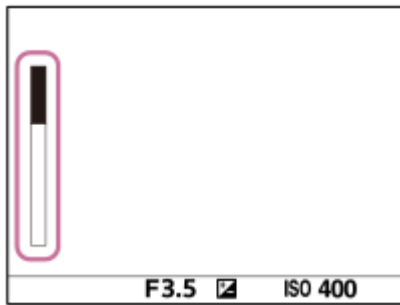
Related Topic

- [Using the electronic shutter](#)

Displaying continuous shooting remaining time indicator (Cont. Shoot. Length)

Sets whether to display an indicator of the remaining time for which continuous shooting can be performed at the same shooting speed.

1 MENU →  2 (Camera Settings2) → [Cont. Shoot. Length] → desired setting.



Menu item details

Always Display:

Always displays the indicator when the drive mode is set to [Cont. Shooting].

Shoot.-Only Display:

Displays the indicator only while continuous shooting is performed.

Not Displayed:

Does not display the indicator.

Hint

- When the internal camera memory for buffering is full, "SLOW" will be displayed and the continuous shooting speed will decrease.

Related Topic

- [Cont. Shooting](#)

Interchangeable Lens Digital Camera
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Auto Review

You can check the recorded image on the screen right after the shooting. You can also set the display time for Auto Review.

1 MENU →  2 (Camera Settings2) → [Auto Review] → desired setting.

Menu item details

10 Sec/5 Sec/2 Sec:

Displays the recorded image on the screen right after shooting for the selected duration of time. If you perform a magnifying operation during Auto Review, you can check that image using the magnified scale.

Off:

Does not display the Auto Review.

Note

- When you use a function that performs image processing, the image before processing may be displayed temporarily, followed by the image after processing.
- The DISP (Display Setting) settings are applied for the Auto Review display.


Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)

Custom Key(Shoot.)/Custom Key(PB)

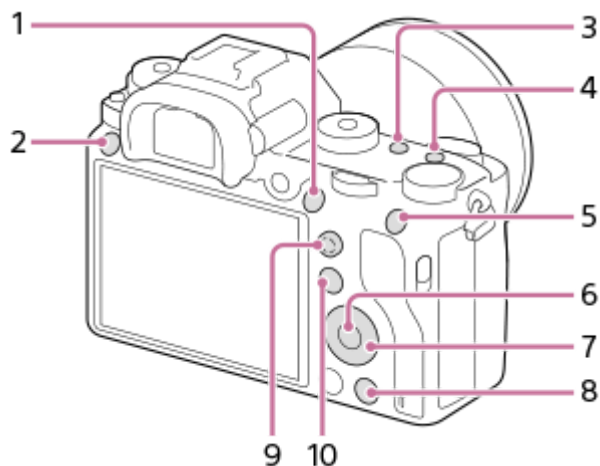
You can assign a desired function to a desired key.


Some functions are available only when they are assigned to a custom key. For example, if you assign [Eye AF] to [Center Button] for [Custom Key(Shoot.)], you can easily recall [Eye AF] simply by pressing the center of the control wheel while shooting.

1 MENU →  2 (Camera Settings2) → [Custom Key(Shoot.)] or [Custom Key(PB)].

2 Select the key to which you want to assign the function on the selection screen, and press the center of the control wheel.

- The keys that can be assigned functions are different for [Custom Key(Shoot.)] and [Custom Key(PB)].
- You can assign the desired functions to the following keys.



1. AF-ON Button
2. Custom Button 3
3. Custom Button 2
4. Custom Button 1
5. AEL Button
6. Center Button
7. Control Wheel/Down Button/Left Button/Right Button
8. Custom Button 4
9. Multi-Selector Center Btn
10. Fn/  Button

- You can also assign a shooting function to the focus hold button on the lens. However, some lenses do not have a focus hold button.

3 Select the function to be assigned.

- The functions that can be assigned differ depending on the keys.


- Using the multi-selector
- Focus Standard

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Function Menu Set.


You can assign the functions to be called up when you press the Fn (Function) button.

- 1 MENU →  (Camera Settings2) → [Function Menu Set.] → set a function to the desired location.
 - The functions that can be assigned are displayed on the setup item selection screen.

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Dial Setup



You can switch the functions of the front/rear dial.

1 MENU →  2 (Camera Settings2) → [Dial Setup] → desired setting.

Menu item details

 SS  F/no.:

The front dial is used to change the shutter speed and the rear dial to change the aperture value.

 F/no.  SS:

The front dial is used to change the aperture value and the rear dial to change the shutter speed.


Note

- The [Dial Setup] function is enabled when the shooting mode is set to "M."

Interchangeable Lens Digital Camera
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Dial Ev Comp

You can adjust the exposure using the front dial or rear dial when the exposure compensation dial is set to "0." You can adjust the exposure in a range of -5.0 EV to +5.0 EV.

- 1 Set the exposure compensation dial to "0."
- 2 MENU →  2 (Camera Settings2) → [Dial Ev Comp] → desired setting.

Menu item details

Off:

Does not enable exposure compensation with the front or rear dial.

 Front dial/  Rear dial:

Enables exposure compensation with the front or rear dial.

Note

- When the exposure compensation function is assigned to the front or rear dial, any function that had been assigned to that dial previously is re-assigned to another dial.
- The settings of the exposure compensation dial will be prioritized over [Exposure Comp.] in MENU or the exposure settings using the front or rear dial.


Related Topic

- [Exposure Comp.](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

MOVIE Button

Sets whether or not to activate the MOVIE (Movie) button.

1 MENU → 2 (Camera Settings2) → [MOVIE Button] → desired setting.

Menu item details

Always:


Starts movie recording when you press the MOVIE button in any mode.

Movie Mode Only:

Starts movie recording when you press the MOVIE button only if the shooting mode is set to [Movie] or [S&Q Motion] mode.

Lock Operation Parts

You can set whether the multi-selector, dials, and wheel can be locked by pressing and holding down the Fn (Function) button.

- 1 MENU →  2 (Camera Settings2) → [Lock Operation Parts] → desired setting.
 - To lock the operating parts, hold down the Fn (function) button until the message “Locked.” appears on the monitor.


Menu item details

- Off:**
Does not lock the multi-selector, front dial, rear dial, or control wheel even if you press and hold down the Fn (Function) button.
- Multi-Selector Only:**
Locks the multi-selector.
- Dial + Wheel:**
Locks the front dial, rear dial, and control wheel.
- All:**
Locks the multi-selector, front dial, rear dial, and control wheel.

Hint

- You can release the lock by holding the Fn (Function) button down again.

Note


- If you set [ AF Area Regist.] to [On], [Lock Operation Parts] will be fixed to [Off].

Related Topic

- [Registering the current focus area \(AF Area Regist.\)](#)

Audio signals

Selects whether the product produces a sound or not.

1 MENU →  2 (Camera Settings2) → [Audio signals] → desired setting.

Menu item details

On:all:

Sounds are produced for example when the focus is achieved by pressing the shutter button halfway down.

On:other than e-shut:

Sounds are produced when focusing by pressing the shutter button halfway down, etc. The electronic shutter does not produce any sounds.

On:e-shutter only:

Only the electronic shutter produces sounds. Sounds are not produced when focusing by pressing the shutter button halfway down, etc.

Off:



Sounds are not produced.

Note

- If [Focus Mode] is set to [Continuous AF], the camera will not beep when it focuses on a subject.

Send to Smartphone

You can transfer still images/movies to a smartphone and view them. The application PlayMemories Mobile must be installed on your smartphone.

- 1 MENU →  (Network) → [Send to Smartphone] → desired setting.
 - If you press the  (Send to Smartphone) button in playback mode, the setting screen for [Send to Smartphone] will appear.
- 2 If the product is ready for the transfer, the information screen appears on the product. Connect the smartphone and the product using that information.
 - The setting method for connecting the smartphone and the product varies depending on the smartphone.



Menu item details

Select on This Device:

Selects an image on the product to be transferred to the smartphone.

(1) Select from among [This Image], [All Images on This Date] or [Multiple Images].


- The options displayed may differ depending on the View Mode selected on the camera.


(2) If you select [Multiple Images], select the desired images using the center of the control wheel, then press MENU → [Enter].

Select on Smartphone:

Displays all images recorded on the product's memory card on the smartphone.

Note

- You can only transfer images that are saved on the camera's memory card.
- You can only transfer images that are saved on the memory card in the memory card slot being played back. To change which memory card slot is being played back, select MENU →  (Playback) → [Select PB Media] → the desired slot.
- You can select an image size to be sent to the smartphone from [Original], [2M] or [VGA]. To change the image size, refer to the following steps.
 - For Android smartphone
Start PlayMemories Mobile, and change the image size by [Settings] → [Copy Image Size].
 - For iPhone/iPad
Select PlayMemories Mobile in the setting menu, and change the image size by [Copy Image Size].
- Some images may not be displayed on the smartphone depending on the recording format.
- RAW images are converted to JPEG format when they are sent.

- You cannot send XAVC S or AVCHD format movies.
- This product shares the connection information for [Send to Smartphone] with a device that has permission to connect. If you want to change the device that is permitted to connect to the product, reset the connection information by following these steps. MENU →  (Network) → [Wi-Fi Settings] → [SSID/PW Reset]. After resetting the connection information, you must register the smartphone again.
- When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].


Related Topic

- [PlayMemories Mobile](#)
- [Controlling the camera using an Android smartphone \(NFC One-touch remote\)](#)
- [Controlling the camera using an Android smartphone \(QR code\)](#)
- [Controlling the camera using an Android smartphone \(SSID\)](#)
- [Controlling the camera using an iPhone or iPad \(QR code\)](#)
- [Controlling the camera using an iPhone or iPad \(SSID\)](#)
- [Sending images to an Android smartphone \(NFC One-touch Sharing\)](#)
- [Airplane Mode](#)

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Send to Computer

You can transfer images stored in the product to a computer connected to a wireless access point or wireless broadband router and easily make backup copies using this operation. Before starting this operation, install PlayMemories Home on your computer and register the access point on the product.

- 1 Start your computer.
- 2 MENU →  (Network) → [Send to Computer] → the desired memory card slot.

Note

- Depending on the application settings of your computer, the product will turn off after saving the images to your computer.
- You can transfer images from the product to only one computer at a time.
- If you want to transfer images to another computer, connect the product and the computer via a USB connection and follow the instructions in PlayMemories Home.

Related Topic

- [Installing PlayMemories Home](#)
- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

FTP Transfer Func.

You can set up image transferring using an FTP server or transfer images to the FTP server. Basic knowledge of FTP servers is required.

For details, refer to the “FTP Help Guide.”

http://rd1.sony.net/help/di/ftp/h_zz/

① MENU →  (Network) → [FTP Transfer Func.] → desired setting.

Menu item details

FTP Transfer:

Connects the camera to the network, and transfers images to the FTP server.

Display FTP Result:

Displays the results of the most recent FTP transfer.

Select FTP Server:

Selects the destination FTP server.

FTP Server 1/FTP Server 2/FTP Server 3:


Sets up FTP Servers 1 – 3.

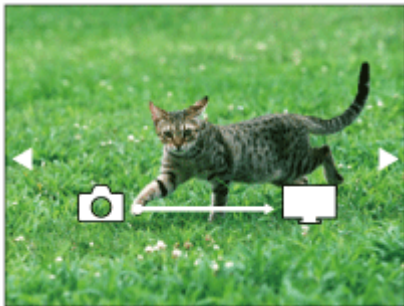
Related Topic

- [Importing root certification to the camera \(Imp Root Certificate\)](#)

View on TV

You can view images on a network-enabled TV by transferring them from the product without connecting the product and TV with a cable. For some TVs, you may need to perform operations on the TV. For details, refer to the operating instructions supplied with the TV.

- 1 MENU →  (Network) → [View on TV] → desired device to be connected.
- 2 When you want to play back images using slideshow, press the center of the control wheel.



- To display the next/previous image manually, press the right/left sides of the control wheel.
- To change the device to be connected, press the down side of the control wheel, then select [Device list].

Slideshow settings

You can change the slideshow settings by pressing the down side of the control wheel.

Playback Selection:

Selects the group of images to be shown.

Folder View(Still):

Selects from [All] and [All in Folder].

Date View:

Selects from [All] and [All in Date Rng.].

Interval:

Selects from [Short] and [Long].

Effects*:


Selects from [On] and [Off].

Playback Image Size:

Selects from [HD] and [4K].

* The settings are effective only for BRAVIA TV which is compatible with the functions.

Note

- You can only transfer images that are saved on the memory card in the memory card slot being played back. To change the memory card slot to be played back, select MENU →  (Playback) → [Select PB Media] → the desired slot.
- You can use this function on a TV that supports DLNA renderer.
- You can view images on a Wi-Fi Direct-enabled TV or network-enabled TV (including wired network-enabled TVs).
- If you connect TV and this product and do not use Wi-Fi Direct, you need to register your access point first.
- Displaying the images on the TV may take time.
- Movies cannot be shown on a TV via Wi-Fi. Use an HDMI cable (sold separately).

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)

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Ctrl w/ Smartphone

By connecting the camera to a smartphone using Wi-Fi, you can control the camera and shoot images using the smartphone, and you can transfer images shot with the camera to the smartphone.

1 MENU →  (Network) → [Ctrl w/ Smartphone] → desired setting.

Menu item details

Ctrl w/ Smartphone:

Sets whether to connect the camera and a smartphone using Wi-Fi. ([On]/[Off])

 Connection Info.:

Displays the QR code or SSID used to connect the camera to a smartphone.

Related Topic

- [Controlling the camera using an Android smartphone \(NFC One-touch remote\)](#)
- [Controlling the camera using an Android smartphone \(QR code\)](#)
- [Controlling the camera using an Android smartphone \(SSID\)](#)
- [Controlling the camera using an iPhone or iPad \(QR code\)](#)
- [Controlling the camera using an iPhone or iPad \(SSID\)](#)
- [Send to Smartphone](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Airplane Mode

When you board an airplane, etc., you can temporarily disable all the wireless-related functions including Wi-Fi.


1 MENU →  (Network) → [Airplane Mode] → desired setting.

If you set [Airplane Mode] to [On], an airplane mark will be displayed on the screen.

Interchangeable Lens Digital Camera
ILCE-9 α9

Wi-Fi Settings: WPS Push

If your access point has a Wi-Fi Protected Setup (WPS) button, you can register the access point to this product easily.

- 1 MENU →  (Network) → [Wi-Fi Settings] → [WPS Push].
- 2 Push the Wi-Fi Protected Setup (WPS) button on the access point to connect.

Note

- [WPS Push] works only if the security setting of your access point is set to WPA or WPA2 and your access point supports the Wi-Fi Protected Setup (WPS) button method. If the security setting is set to WEP or your access point does not support the Wi-Fi Protected Setup (WPS) button method, perform [Access Point Set.].
- For details about the available functions and settings of your access point, see the access point operating instructions or contact the administrator of the access point.
- A connection may not be possible or the communication distance may be shorter depending on the surrounding conditions, such as the type of wall material and the presence of obstructions or radio waves between the product and access point. In this case, change the location of the product or move the product closer to the access point.

Related Topic

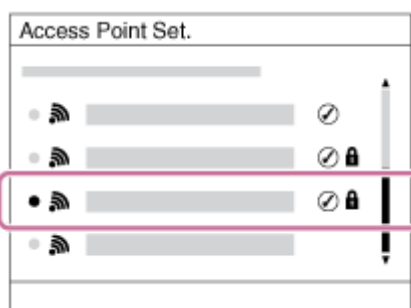
- [Wi-Fi Settings: Access Point Set.](#)

Wi-Fi Settings: Access Point Set.

You can register your access point manually. Before starting the procedure, check the SSID name of the access point, security system, and password. The password may be preset in some devices. For details, see the access point operating instructions, or consult the access point administrator.

1 MENU →  (Network) → [Wi-Fi Settings] → [Access Point Set.].

2 Select the access point you want to register.

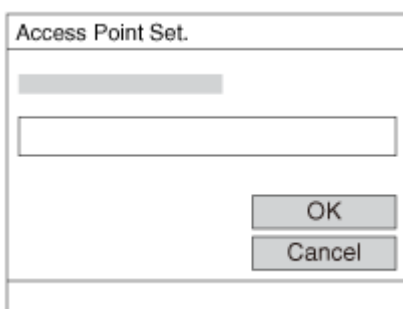


When the desired access point is displayed on the screen: Select the desired access point.

When the desired access point is not displayed on the screen: Select [Manual Setting] and set the access point.

- If you select [Manual Setting], input the SSID name of the access point, then select the security system.

3 Input the password, and select [OK].



- Access points without the  mark do not require a password.

4 Select [OK].

Other setting items

Depending on the status or the setting method of your access point, you may want to set more items.

WPS PIN:

Displays the PIN code you enter into the connected device.

Priority Connection:

Select [On] or [Off].

IP Address Setting:

Select [Auto] or [Manual].

IP Address:

If you are entering the IP address manually, enter the set address.

Subnet Mask/Default Gateway/Primary DNS Server/Second DNS Server:

If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.

Note

- To give the registered access point priority in the future, set [Priority Connection] to [On].

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [How to use the keyboard](#)

Interchangeable Lens Digital Camera
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Wi-Fi Settings: Disp MAC Address

Displays the MAC address of this product.

1 MENU →  (Network) → [Wi-Fi Settings] → [Disp MAC Address].

Interchangeable Lens Digital Camera
ILCE-9 α9

Wi-Fi Settings: SSID/PW Reset

This product shares the connection information for [Send to Smartphone] and [ Connection Info.] with a device that has permission to connect. If you want to change the device that is permitted to connect, reset the connection information.

1 MENU →  (Network) → [Wi-Fi Settings] → [SSID/PW Reset] → [OK].

Note

- If you connect this product to a smartphone after resetting the connection information, you must make the settings for the smartphone again.

Related Topic

- [Send to Smartphone](#)
- [Ctrl w/ Smartphone](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Bluetooth Settings

Controls the settings for connecting the camera to a smartphone via a Bluetooth connection. You need to pair the camera and smartphone before using the location information interlocking function.

If you want to pair the camera and smartphone in order to use the location information interlocking function, refer to “Loc. Info. Link Set..”

① MENU →  (Network) → [Bluetooth Settings] → desired setting.

Menu item details

Bluetooth Function (On/Off):

Sets whether to activate or not the Bluetooth function of the camera.

Pairing:

Displays the screen for pairing the camera and smartphone using PlayMemories Mobile.

Disp Device Address:

Displays the BD address of the camera.

Related Topic

- [Recording location information to captured images \(Loc. Info. Link Set.\)](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Recording location information to captured images (Loc. Info. Link Set.)

You can use the application PlayMemories Mobile to obtain location information from a smartphone that is connected with your camera using Bluetooth communication. You can record the obtained location information when shooting images.


Preparation in advance










To use the location information linking function of the camera, the application PlayMemories Mobile is required. If “Location Information Linkage” is not displayed on the top page of PlayMemories Mobile, you need to perform the following steps beforehand.




1. Install PlayMemories Mobile on your smartphone.
 - You can install PlayMemories Mobile from the application store of your smartphone. If you have already installed the application, update it to the latest version.
2. Transfer a pre-recorded image to your smartphone using the [Send to Smartphone] function of the camera.
 - After you transfer an image recorded using the camera to your smartphone, “Location Information Linkage” will appear on the top page of PlayMemories Mobile.


Operating procedure

: Operations performed on the smartphone

: Operations performed on the camera

1. : Confirm that the Bluetooth function of your smartphone is activated.
 - Do not perform the Bluetooth pairing operation on the smartphone setting screen. In steps 2 to 7, the pairing operation is performed using the camera and the application PlayMemories Mobile.
 - If you accidentally perform the pairing operation on the smartphone setting screen in step 1, cancel the pairing and then perform the pairing operation by following Steps 2 through 7 using the camera and the application PlayMemories Mobile.
2. : On the camera, select MENU →  (Network) → [Bluetooth Settings] → [Bluetooth Function] → [On].
3. : On the camera, select MENU →  (Network) → [Bluetooth Settings] → [Pairing].
4. : Launch PlayMemories Mobile on your smartphone and tap “Location Information Linkage.”
 - If “Location Information Linkage” is not displayed, follow the steps in “Preparation in advance” above.
5. : Activate [Location Information Linkage] on the [Location Information Linkage] setting screen of PlayMemories Mobile.
6. : Follow the instructions on the [Location Information Linkage] setting screen of PlayMemories Mobile, and then select your camera from the list.
7. : Select [OK] when a message is displayed on the monitor of the camera.
 - Pairing of the camera and PlayMemories Mobile is complete.

8.  : On the camera, select MENU →  (Network) → [ Loc. Info. Link Set.] → [Location Info. Link] → [On].

-  (obtaining location information icon) will be displayed on the monitor of the camera. Location information obtained by your smartphone using GPS, etc., will be recorded when shooting images.

Menu item details

Location Info. Link:

Sets whether to obtain the location information by linking with a smartphone.

Auto Time Correct.:

Sets whether to automatically correct the date setting of the camera using information from a linked smartphone.


Auto Area Adjust.:


Sets whether to automatically correct the area setting of the camera using information from a linked smartphone.

Icons displayed when obtaining the location information

 (Obtaining location information): The camera is obtaining the location information.

 (Location information cannot be obtained): The camera cannot obtain the location information.

 (Bluetooth connection available): Bluetooth connection with the smartphone is established.

 (Bluetooth connection unavailable): Bluetooth connection with the smartphone is not established.

Hint

- Location information can be linked when PlayMemories Mobile is running on your smartphone even if the smartphone monitor is off.
- When PlayMemories Mobile is not operating, such as when the smartphone is restarted, launch PlayMemories Mobile to resume location information linking.
- In the application PlayMemories Home, you can view images on a map by importing images with location information to your computer. For details, refer to Help for PlayMemories Home.
- If the location information linking function does not work properly, see the following notes and perform pairing again.
 - Confirm that the Bluetooth function of your smartphone is activated.
 - Confirm that the camera is not connected with other devices using the Bluetooth function.
 - Confirm that [Airplane Mode] for the camera is set to [Off].
 - Delete the pairing information for the camera registered in PlayMemories Mobile.
 - Execute [Reset Network Set.] of the camera.
- For more detailed video instructions, refer to the following support page.
<http://www.sony.net/pmm/btg/>

Note

- When you initialize the camera, the pairing information is also deleted. To perform pairing again, delete the pairing information for the camera registered in PlayMemories Mobile before trying again.
- The location information will not be recorded when it cannot be obtained, such as when the Bluetooth connection is disconnected.
- The camera can be paired with up to 15 Bluetooth devices, but can link the location information with that of only one smartphone. If you want to link the location information with that of a different smartphone, turn off [Location Information Linkage] in PlayMemories Mobile on the smartphone that is currently linked.
- If the Bluetooth connection is unstable, remove any obstacles, such as people or metal objects from between the camera and the paired smartphone.
- When pairing the camera and your smartphone, be sure to use the [Location Information Linkage] menu on PlayMemories Mobile.

Supported smartphones

- Android smartphones: Android 5.0 or later and compatible with Bluetooth 4.0 or later*
- iPhone/iPad: iPhone 4S or later/iPad 3rd generation or later

* As of April 2017. For the latest information, refer to the support site.

* For the Bluetooth version, refer to the website for your smartphone.

Related Topic

- [PlayMemories Home](#)
- [PlayMemories Mobile](#)
- [Send to Smartphone](#)
- [Bluetooth Settings](#)

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Interchangeable Lens Digital Camera
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Wired LAN Setting

Configures a wired LAN.

1 MENU →  (Network) → [Wired LAN Setting] → desired setting.

Menu item details

IP Address Setting:

Sets whether to configure the IP address for the wired LAN automatically or manually.

IP Address:

If you are entering the IP address manually, enter the fixed address.

Subnet Mask/Default Gateway/Primary DNS Server/Second DNS Server:

If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.


Related Topic

- [How to use the keyboard](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Edit Device Name

You can change the device name for the Wi-Fi Direct or Bluetooth connection.

- 1 MENU →  (Network) → [Edit Device Name].
 - 2 Select the input box, then input the device name→[OK].
-

Related Topic

- [Wi-Fi Settings: WPS Push](#)
- [Wi-Fi Settings: Access Point Set.](#)
- [How to use the keyboard](#)


Interchangeable Lens Digital Camera
ILCE-9 α9

Importing root certification to the camera (Imp Root Certificate)

Imports a root certificate needed to verify a server from a memory card. Use this function for encrypted communications during FTP transfer.

For details, refer to the “FTP Help Guide.”


http://rd1.sony.net/help/di/ftp/h_zz/

① MENU →  (Network) → [Imp Root Certificate].

Interchangeable Lens Digital Camera
ILCE-9 α9


Reset Network Set.

Resets all the network settings to default settings.

1 MENU →  (Network) → [Reset Network Set.] → [OK].

Deleting multiple selected images (Delete)



You can delete multiple selected images. Once you have deleted an image, you cannot restore it. Confirm the image to be deleted beforehand.

- 1 MENU →  (Playback) → [Delete] → desired setting.

Menu item details

Multiple Img.:

Deletes the selected images.

- (1) Select the images to be deleted, then press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again to remove the  mark.
- (2) To delete other images, repeat step (1).
- (3) MENU → [OK].


All in this Folder:

Deletes all images in the selected folder.

All with this date:

Deletes all images in the selected date range.

Hint

- Perform [Format] to delete all images, including protected images.
- To display the desired folder or date, select the desired folder or date during playback by performing the following procedure:
 (Image Index) button → select the bar on the left using the control wheel → select the desired folder or date using the top/bottom sides of the control wheel.

Note


- The protected images cannot be deleted.
- The menu items that can be selected differ depending on the [View Mode] setting.

Related Topic


- [Deleting a displayed image](#)
- [Format](#)

Switching between still images and movies (View Mode)

Sets the View Mode (image display method).

- 1 MENU →  (Playback) → [View Mode] → desired setting.


Menu item details

 Date View:

Displays the images by date.

 Folder View(Still):

Displays only still images.

 MP4 Folder View(MP4):


Displays only MP4-format movies.

 AVCHD AVCHD View:

Displays only AVCHD-format movies.

 XAVC S HD View:


Displays only XAVC S HD-format movies.

 XAVC S 4K View:


Displays only XAVC S 4K-format movies.

Playing back images on the image index screen (Image Index)

You can display multiple images at the same time in playback mode.

- 1 Press the  (Image Index) button while the image is being played back.
- 2 Select the image by pressing the top/bottom/right/left sides of the control wheel or turning the control wheel.

To change the number of images to be displayed

MENU →  (Playback) → [Image Index] → desired setting.

Menu item details

9 Images/25 Images

To return to single-image playback

Select the desired image and press the center of the control wheel.

To display a desired image quickly

Select the bar on the left of the image index screen using the control wheel, then press the top/bottom sides of the control wheel. While the bar is being selected, you can display the calendar screen or folder selection screen by pressing the center. In addition, you can switch View Mode by selecting an icon.

Related Topic

- [Switching between still images and movies \(View Mode\)](#)

Rotating recorded images automatically (Display Rotation)

Selects the orientation when playing back recorded images.

1 MENU →  (Playback) → [Display Rotation] → desired setting.

Menu item details

Auto:

When you rotate the camera, the displayed image rotates automatically by detecting the orientation of the camera.

Manual:

Images shot vertically are displayed vertically. If you have set the image orientation using the [Rotate] function, the image will be displayed accordingly.

Off:


Images are always displayed horizontally.

Related Topic

- [Rotating an image \(Rotate\)](#)

Selecting which memory card to play back (Select PB Media)

Selects the memory card slot to be played back.

1 MENU →  (Playback) → [Select PB Media] → desired slot.

Menu item details

Slot 1:

Selects the slot 1.

Slot 2:

Selects the slot 2.

Note

- No image is played back when no memory card is inserted in the selected slot. Select a slot into which a memory card has been inserted.
- When you select [Date View] in [View Mode], the camera only plays back images from a memory card selected using [Select PB Media].

Related Topic

- [Switching between still images and movies \(View Mode\)](#)
- [Selecting which memory card to record to \(Select Rec. Media\)](#)


Copying images from one memory card to another (Copy)

You can copy images from a memory card in a slot that is selected using [Select PB Media] to a memory card in another slot.

1 MENU →  (Playback) → [Copy].

All of the contents with a date or in a folder currently being played back will be copied to a memory card in another slot.

Hint

- You can select the type of images to be displayed by selecting MENU →  (Playback) → [View Mode].

Note


- It may take a long time when many images are to be copied. Use a sufficiently charged battery pack.
- XAVC S movies can only be copied to a memory card that supports XAVC S movies. A message will be displayed on the monitor of the camera when images cannot be copied.

Related Topic

- [Selecting which memory card to play back \(Select PB Media\)](#)
- [Switching between still images and movies \(View Mode\)](#)

Playing back images using slideshow (Slide Show)

Automatically plays back images continuously.

- 1 MENU →  (Playback) → [Slide Show] → desired setting.
- 2 Select [Enter].

Menu item details

Repeat:

Select [On], in which images are played back in a continuous loop, or [Off], in which the product exits the slideshow when all the images are played back once.

Interval:

Select the display interval for images from among [1 Sec], [3 Sec], [5 Sec], [10 Sec] or [30 Sec].

To quit the slideshow in the middle of playback

Press the MENU button to quit the slideshow. You cannot pause the slideshow.

Hint

- During playback, you can display the next/previous image by pressing the right/left side of the control wheel.
- You can activate a slideshow only when [View Mode] is set to [Date View] or [Folder View(Still)].

Rotating an image (Rotate)

Rotates a recorded still image counter-clockwise.

1 Display the image to be rotated, then select MENU →  (Playback) → [Rotate].

2 Press the center of the control wheel.

The image is rotated counter-clockwise. The image rotates as you press the center.


If you rotate the image once, the image remains rotated even after the product is turned off.

Note




- You cannot rotate the movies.
- You may not be able to rotate images shot using other products.
- When viewing rotated images on a computer, the images may be displayed in their original orientation depending on the software.

Enlarging an image being played back (Playback zoom)

Enlarges the image being played back. Use this function to check the focus of the image, etc.

- 1 Display the image you want to enlarge, and then press the  button.
 - Turn the control wheel to adjust the zoom scale.
By rotating the front/rear dial, you can switch to the previous or next image while keeping the same zoom scale.
 - The view will zoom in on the part of the image where the camera focused during shooting. If the focus location information cannot be obtained, the camera will zoom in on the center of the image.
- 2 Select the portion you want to enlarge by pressing the top/bottom/right/left sides of the control wheel.
- 3 Press the MENU button or the center of the control wheel to exit the playback zoom.

Hint

- You can also enlarge an image being played back using MENU.
- You can change the initial magnification and initial position of enlarged images by selecting MENU →  (Playback) → [ Enlarge Init. Mag.] or [ Enlarge Initial Pos.].
- You can also enlarge an image by double-tapping the monitor. In addition, you can drag and move the magnified position on the monitor. Set [Touch Operation] to [On] beforehand.

Note

- You cannot enlarge movies.

Related Topic

- [Touch Operation](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Enlarge Init. Mag.

Sets the initial magnification scale when playing back enlarged images.

1 MENU →  (Playback) → [ Enlarge Init. Mag.] → desired setting.

Menu item details

Standard. Mag.:

Displays an image with the standard magnification.

Previous Mag.:

Displays an image with the previous magnification. The previous magnification is stored even after exiting the playback zoom mode.



Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)
- [Enlarge Initial Pos.](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Enlarge Initial Pos.

Sets the initial position when enlarging an image in playback.

1 MENU →  (Playback) → [ Enlarge Initial Pos.] → desired setting.

Menu item details

Focused Position:

Enlarges the image from the point of focus during shooting.


Center:


Enlarges the image from the center of the screen.

Related Topic

- [Enlarging an image being played back \(Playback zoom\)](#)
- [Enlarge Init. Mag.](#)

Protecting images (Protect)



Protects recorded images against accidental erasure. The  mark is displayed on protected images.

1 MENU →  (Playback) → [Protect] → desired setting.

Menu item details

Multiple Img.:

Applies or cancels the protection of the selected multiple images.

(1) Select the image to be protected, then press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again to remove the  mark.

(2) To protect other images, repeat step (1).

(3) MENU → [OK].

All in this Folder:

Protects all images in the selected folder.

All with this date:

Protects all images in the selected date range.

Cancel All in this Folder:

Cancels the protection of all images in the selected folder.

Cancel All with this date:

Cancels the protection of all images in the selected date range.

Note

- The menu items that can be selected differ depending on the [View Mode] setting.

Interchangeable Lens Digital Camera
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Specifying images to be printed (Specify Printing)



You can specify in advance on the memory card which still images you want to print out later. The **DPOF** (print order) icon will appear on the specified images. DPOF refers to "Digital Print Order Format." DPOF setting will be retained after the image is printed. We recommend that you cancel this setting after printing.

1 MENU →  (Playback) → [Specify Printing] → desired setting.

Menu item details

Multiple Img.:

Selects images to order printing.

(1) Select an image and press the center of the control wheel. The  mark is displayed in the check box. To cancel the selection, press the center again and delete the  mark.

(2) Repeat step (1) to print other images. To select all the images from a certain date or in a certain folder, select the check box for the date or folder.

(3) MENU → [OK].

Cancel All:

Clears all DPOF marks.

Print Setting:

Sets whether to print the date on images registered with DPOF marks.



- The position or size of the date (inside or outside of the image) may differ depending on the printer.

Note

- You cannot add the DPOF mark to the following files:
 - RAW images
- The number of copies cannot be specified.
- Some printers do not support the date print function.

Photo Capture

Captures a chosen scene in a movie to save as a still image. First shoot a movie, then pause the movie during playback to capture decisive moments that tend to be missed when shooting still images, and save them as still images.

- 1 Display the movie that you want to capture as a still image.
 - 2 MENU →  (Playback) → [Photo Capture].
 - 3 Play back the movie and pause it.
 - 4 Find the desired scene using forward slow playback, reverse slow playback, displays the next frame, and displays the previous frame, and then stop the movie.
 - 5 Press  (Photo Capture) to capture the chosen scene.
The scene is saved as a still image.
-


Related Topic

- [Shooting movies](#)
- [Playing back movies](#)

Interchangeable Lens Digital Camera
ILCE-9 α9

Monitor Brightness

Adjust the brightness of the screen.

- 1 MENU →  (Setup) → [Monitor Brightness] → desired setting.

Menu item details

Manual:

Adjusts the brightness within the range of -2 to +2.

Sunny Weather:

Sets the brightness appropriately for shooting outdoors.

Note

- The [Sunny Weather] setting is too bright for shooting indoors. Set [Monitor Brightness] to [Manual] for indoor shooting.

Interchangeable Lens Digital Camera
ILCE-9 α9

Viewfinder Bright.

When using an electronic viewfinder, this product adjusts the brightness of the electronic viewfinder according to the surrounding environment.

① MENU →  (Setup) → [Viewfinder Bright.] → desired setting.

Menu item details

Auto:

Adjusts the brightness automatically.

Manual:

Selects the brightness of the electronic viewfinder within the range of -2 to +2.

Interchangeable Lens Digital Camera
ILCE-9 α9

Finder Color Temp.

Adjusts the color temperature of the electronic viewfinder.

1 MENU →  (Setup) → [Finder Color Temp.] → desired setting.

Menu item details

-2 to +2:

When you select “-,” the viewfinder screen changes to a warmer color, and when you select “+,” it changes to a colder color.

Interchangeable Lens Digital Camera
ILCE-9 α9

Volume Settings

Sets the sound volume for movie playback.

1 MENU →  (Setup) → [Volume Settings] → desired setting.

Adjusting the volume during playback

Press the bottom side of the control wheel while playing back movies to display the operation panel, then adjust the volume. You can adjust the volume while listening to the actual sound.

Interchangeable Lens Digital Camera
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Delete confirm.

You can set whether [Delete] or [Cancel] is selected as a default on the delete confirmation screen.

1 MENU →  (Setup) → [Delete confirm.] → desired setting.

Menu item details

"Delete" first:

[Delete] is selected as the default setting.

"Cancel" first:

[Cancel] is selected as the default setting.

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Pwr Save Start Time

Sets time intervals to automatically switch to power save mode when you are not performing operations to prevent wearing down the battery pack. To return to shooting mode, perform an operation such as pressing the shutter button halfway down.

1 MENU →  (Setup) → [Pwr Save Start Time] → desired setting.

Menu item details

30 Min/5 Min/2 Min/1 Min/10 Sec

Note

- Turn off the product when you do not use it for a long time.
- The power save function is not activated when power is being supplied via USB, when playing back slideshows, when recording movies, or when connected to a computer or TV.

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Auto Pwr OFF Temp.

Sets the temperature of the camera at which the camera turns off automatically during shooting. When it is set to [High], you can continue shooting even when the temperature of the camera gets hotter than normal.

1 MENU →  (Setup) → [Auto Pwr OFF Temp.] → desired setting.

Menu item details

Standard:

Sets the standard temperature for the camera to turn off.

High:

Sets the temperature at which the camera turns off to higher than [Standard].

Notes when [Auto Pwr OFF Temp.] is set to [High]

- Do not shoot while holding the camera in your hand. Use a tripod.
- Using the camera while holding it in your hand for a long period of time may cause low-temperature burns.

Continuous recording time for movies when [Auto Pwr OFF Temp.] is set to [High]

The duration of time available for continuous movie recording is as follows when the camera starts recording with the default settings after the power has been turned off for a while. The following values indicate the continuous time from when the camera starts recording until the camera stops recording.

Ambient temperature: 20°C (68°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

Ambient temperature: 30°C (86°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

Ambient temperature: 40°C (104°F)

Continuous recording time for movies (HD): Approx. 29 minutes

Continuous recording time for movies (4K): Approx. 29 minutes

HD: XAVC S HD (60p 50M/50p 50M, not connected via Wi-Fi)

4K: XAVC S 4K (24p 60M/25p 60M, not connected via Wi-Fi)

Note

- Even if [Auto Pwr OFF Temp.] is set to [High], depending on the conditions or the temperature of the camera, the recordable time for movies may not change.


Related Topic

- [Recordable movie times](#)



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NTSC/PAL Selector

Plays back movies recorded with the product on a NTSC/PAL system TV.


1 MENU →  (Setup) → [NTSC/PAL Selector] → [Enter]

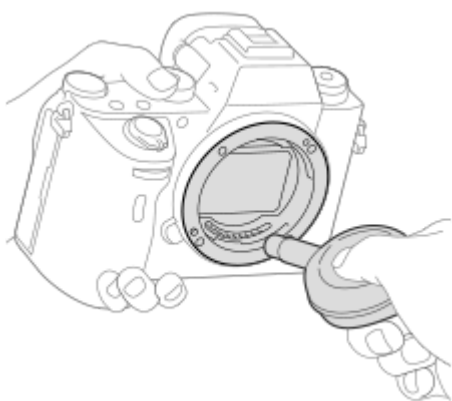
Note

- If you insert a memory card that has previously been formatted with a different video system, a message telling you that you must reformat the card will appear.
If you want to record using another system, re-format the memory card or use another memory card.
- When you perform [NTSC/PAL Selector], and the setting is changed from the default one, a message "Running on NTSC." or "Running on PAL." will appear on the start-up screen.
- When [NTSC/PAL Selector] is set to PAL, the viewfinder or monitor of the camera or the screen of an HDMI-connected device may black out for an instant in the following situations. This is not a malfunction.
 - When you start or stop recording movies while the shooting mode is set to a mode other than  (Movie) or **S&Q**.
 - When you change the shooting mode from  (Movie) or **S&Q** to another mode.
 - When you play back a movie for the first time after switching to the playback mode.

Cleaning Mode

If dust or debris gets inside the camera and adheres to the surface of the image sensor (the part that converts the light to an electric signal), it may appear as dark spots on the image, depending on the shooting environment. If this happens, follow the steps below to clean the image sensor.

- 1 Confirm that the battery has been charged sufficiently.
- 2 MENU →  (Setup) → [Cleaning Mode] → [Enter].
The image sensor vibrates a little to shake off the dust.
- 3 Turn off the product following the instructions on the screen.
- 4 Detach the lens.
- 5 Use the blower to clean the image sensor surface and the surrounding area.




- 6 Attach the lens.

Hint

- For how to check the amount of dust on the image sensor, and for further details on cleaning methods, please refer to the following URL.
<http://support.d-imaging.sony.co.jp/www/support/ilc/sensor/index.php>

Note

- Clean the image sensor quickly.
- A blower is not supplied with this product. Use a commercially available blower.
- Make sure that the remaining battery level is  (3 remaining battery icons) or more, before performing the cleaning. The use of AC adaptor (supplied) is recommended.
- Do not use a spray type blower as it may scatter water droplets inside the camera body.

- Do not put the tip of a blower into the cavity beyond the lens mount area, so that the tip of the blower does not touch the image sensor.
- Hold the camera slightly face downward so that the dust falls out.
- Do not subject the product to any shock during cleaning.
- When cleaning the image sensor with a blower, do not blow too hard. If you blow the sensor too hard, the inside of the product may be damaged.
- If the dust remains even after you cleaned the product as described, consult the service facility.

Related Topic

- [Troubleshooting](#)

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Touch Operation

Sets whether or not to activate touch operations on the monitor.

1 MENU →  (Setup) → [Touch Operation] → desired setting.

Menu item details

On:

Activates the touch operation.

Off:

Deactivates the touch operation.

Related Topic

- [Touch Focus](#)

Demo Mode

The [Demo Mode] function displays the movies recorded on the memory card automatically (demonstration), when the camera has not been operated for a certain time. Normally select [Off].

1 MENU →  (Setup) → [Demo Mode] → desired setting.

Menu item details

On:

The movie playback demonstration starts automatically if the product is not operated for about one minute. Only protected AVCHD movies can be played back.

Set the view mode to [AVCHD View], and protect the movie file with the oldest recorded date and time.

Off:

Does not show the demonstration.

Note

- You can set this item only when the product is powered by the AC Adaptor (supplied).
- When there is no protected AVCHD movies on the memory card, you cannot select [On].
- [Demo Mode] always displays movies on the memory card in memory card slot 1.

TC/UB Settings

The time code (TC) and the user bit (UB) information can be recorded as data attached to movies.

- 1 MENU →  (Setup) → [TC/UB Settings] → setting value you want to change.

Menu item details

TC/UB Disp. Setting:

Sets the display for the counter, time code, and user bit.

TC Preset:

Sets the time code.

UB Preset:

Sets the user bit.

TC Format:

Sets the recording method for the time code. (Only when [NTSC/PAL Selector] is set to NTSC.)

TC Run:

Sets the count up format for the time code.


TC Make:

Sets the recording format for the time code on the recording medium.



UB Time Rec:

Sets whether or not to record the time as a user bit.


How to set the time code (TC Preset)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Preset].
2. Turn the control wheel and select the first two digits.
 - The time code can be set between the following range.
When [60i] is selected: 00:00:00:00 to 23:59:59:29
 - * When [24p] is selected, you can select the last two digits of the time code in multiples of four from 0 to 23 frames.
When [50i] is selected: 00:00:00:00 to 23:59:59:24
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.



How to reset the time code

1. MENU →  (Setup) → [TC/UB Settings] → [TC Preset].
 2. Press the  (Delete) button to reset the time code (00:00:00:00).
- You can also reset the time code (00:00:00:00) using the RMT-VP1K remote commander (sold separately).

How to set the user bit (UB Preset)

1. MENU →  (Setup) → [TC/UB Settings] → [UB Preset].
2. Turn the control wheel and select the first two digits.
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.

How to reset the user bit

1. MENU →  (Setup) → [TC/UB Settings] → [UB Preset].
2. Press the  (Delete) button to reset the user bit (00 00 00 00).

How to select the recording method for the time code (TC Format^{*1})

1. MENU →  (Setup) → [TC/UB Settings] → [TC Format].

DF:

Records the time code in Drop Frame^{*2} format.

NDF:


Records the time code in Non-Drop Frame format.

*1 Only when [NTSC/PAL Selector] is set to NTSC.

*2 The time code is based on 30 frames per second. However, a gap between the actual time and the time code will occur during extended periods of recording as the frame frequency of the NTSC image signal is approximately 29.97 frames per second. Drop frame corrects this gap to make the time code and actual time equal. In drop frame, the first 2 frame numbers are removed every minute except for every tenth minute. The time code without this correction is called non-drop frame.

- The setting is fixed to [NDF] when recording in 4K/24p or 1080/24p.

How to select the count up format for the time code (TC Run)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Run].

Rec Run:

Sets the stepping mode for the time code to advance only while recording. The time code is recorded sequentially from the last time code of the previous recording.

Free Run:

Sets the stepping mode for the time code to advance anytime, regardless of the camera operation.

- The time code may not be recorded sequentially in the following situations even when the time code advances in [Rec Run] mode.
 - When the recording format is changed.
 - When the recording medium is removed.







How to select how the time code is recorded (TC Make)

1. MENU →  (Setup) → [TC/UB Settings] → [TC Make].

Preset:

Records the newly set time code on the recording medium.

Regenerate:

Reads the last time code for the previous recording from the recording medium and records the new time code consecutively from the last time code. The time code is read from the memory card in the slot 1 when [Recording Mode] is set to [Simult. ()] or [Simult. ( / )]. The time code is read from the memory card to which the movies will be recorded when [Recording Mode] is set to [Standard], [Simult. ()], [Sort(JPEG/RAW)] or [Sort( / )]. The time code advances in [Rec Run] mode regardless of the [TC Run] setting.

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Remote Ctrl

You can operate this product and shoot images using the SHUTTER button, 2SEC button (2 second delay shutter), and START/STOP button (or Movie button (RMT-DSLR2 only)) on the Wireless Remote Commander RMT-DSLR1 (sold separately) and RMT-DSLR2 (sold separately). Refer also to the operating instructions for the Wireless Remote Commander.

1 MENU →  (Setup) → [Remote Ctrl] → desired setting.

Menu item details

On:

Allows remote commander operation.

Off:

Does not allow remote commander operation.


Note

- The lens or lens hood may block the remote sensor that receive the signals. Use the remote commander in the position from which the signal can reach the product.
- When [Remote Ctrl] is set to [On], the product does not switch to power save mode. Set [Off] after using a remote commander.

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HDMI Settings: HDMI Resolution

When you connect the product to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select HDMI Resolution to output images to the TV.

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Resolution] → desired setting.

Menu item details

Auto:

The product automatically recognizes an HD TV and sets the output resolution.

2160p/1080p:

Outputs signals in 2160p/1080p.

1080p:

Outputs signals in HD picture quality (1080p).

1080i:


Outputs signals in HD picture quality (1080i).


Note


- If the images are not displayed properly using the [Auto] setting, select either [1080i], [1080p] or [2160p/1080p], based on which TV is to be connected.

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HDMI Settings: 24p/60p Output (movie) (Only for 1080 60i compatible models)

Set 1080/24p or 1080/60p as the HDMI output format when [ Record Setting] is set to [24p 24M(FX)], [24p 17M(FH)] or [24p 50M].

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Resolution] → [1080p] or [2160p/1080p].

2 MENU →  (Setup) → [HDMI Settings] → [ 24p/60p Output] → desired setting.

Menu item details


60p:

Movies are output as 60p.

24p:

Movies are output as 24p.

Note

- Steps 1 and 2 can be set in either order.
- When [ Record Setting] is set to other than [24p 24M(FX)], [24p 17M(FH)], or [24p 50M], this setting is canceled, and HDMI video is output according to the [HDMI Resolution] settings.

Related Topic

- [Record Setting \(movie\)](#)

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HDMI Settings: HDMI Info. Display

Selects whether to display the shooting information when this product and the TV are connected using an HDMI cable (sold separately).

1 MENU →  (Setup) → [HDMI Settings] → [HDMI Info. Display] → desired setting.

Menu item details

On:

Displays the shooting information on the TV.

The recorded image and the shooting information are displayed on the TV, while nothing is displayed on the camera's monitor.

Off:

Does not display the shooting information on the TV.

Only the recorded image is displayed on the TV, while the recorded image and the shooting information are displayed on the camera's monitor.

Note


- When this product is connected to a 4K-compatible TV, [Off] is selected automatically.

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HDMI Settings: TC Output (movie)

Sets whether or not to layer the TC (time code) information on the output signal via the HDMI terminal when outputting the signal to other professional-use devices.

This function layers the time code information on the HDMI output signal. The product sends the time code information as digital data, not as an image displayed on the screen. The connected device can then refer to the digital data to recognize the time data.

① MENU →  (Setup) → [HDMI Settings] → [ TC Output] → desired setting.

Menu item details



On:

Time code is output to other devices.

Off:

Time code is not output to other devices.



Note

- When [ TC Output] is set to [On], the image may not be output properly to the TV or recording device. In such cases, set [ TC Output] to [Off].

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HDMI Settings: REC Control (movie)


If you connect the camera to an external recorder/player, you can remotely command the recorder/player to start/stop recording using the camera.

- 1 MENU →  (Setup) → [HDMI Settings] → [ REC Control] → desired setting.

Menu item details

On:







 **STBY** The camera can send a recording command to an external recorder/player.

 **REC** The camera is sending a recording command to an external recorder/player.

Off:


The camera is not able to send a command to an external recorder/player to start/stop recording.

Note

- Available for external recorders/players compatible with [ REC Control].
- When you use the [ REC Control] function, set the shooting mode to  (Movie).
- When [ TC Output] is set to [Off], you cannot use the [ REC Control] function.
- Even when  **REC** is displayed, the external recorder/player may not work properly depending on the settings or status of the recorder/player. Check if the external recorder/player works properly before use.

HDMI Settings: CTRL FOR HDMI

When connecting this product to a “BRAVIA” Sync-compatible TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

- 1 MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → desired setting.
- 2 Connect this product to a “BRAVIA” Sync-compatible TV.
The input of the TV is switched automatically and images on this product are displayed on the TV screen.
- 3 Press the SYNC MENU button of the TV’s remote control.
- 4 Operate this product using the TV’s remote control.

Menu item details


On:

You can operate this product with a TV’s remote control.

Off:




You cannot operate this product with a TV’s remote control.

Note

- If you connect this product to a TV using an HDMI cable, available menu items are limited.
- [CTRL FOR HDMI] is available only with a “BRAVIA” Sync-compatible TV. Also, the SYNC MENU operation differs depending on the TV you are using. For details, refer to the operating instructions supplied with the TV.
- If the product performs unwanted operations in response to the TV remote control when the product is connected to another manufacturer’s TV using an HDMI connection, select MENU →  (Setup) → [HDMI Settings] → [CTRL FOR HDMI] → [Off].

4K Output Sel. (movie)

You can set how to record movies and perform HDMI output when your camera is connected to 4K-compatible external recording/playback devices, etc.

- 1 Turn the mode dial to  (movie).
- 2 Connect the camera to the desired device via an HDMI cable.
- 3 MENU →  (Setup) → [ 4K Output Sel.] → desired setting.

Menu item details

Memory Card+HDMI:

Simultaneously outputs to the external recording/playback device and records on the camera's memory card.

HDMI Only(30p):

Outputs a 4K movie in 30p to the external recording/playback device without recording on the camera's memory card.

HDMI Only(24p):


Outputs a 4K movie in 24p to the external recording/playback device without recording on the camera's memory card.

HDMI Only(25p)*:

Outputs a 4K movie in 25p to the external recording/playback device without recording on the camera's memory card.

* Only when [NTSC/PAL Selector] is set to PAL.

Note

- This item can be set only when the camera is in movie mode and connected to a 4K-compatible device.
- When [HDMI Only(30p)], [HDMI Only(24p)] or [HDMI Only(25p)] is set, [HDMI Info. Display] will temporarily be set to [Off].
- A 4K movie is not output to the connected 4K-compatible device during slow-motion/quick-motion shooting.
- When [HDMI Only(30p)], [HDMI Only(24p)] or [HDMI Only(25p)] is set, the counter does not move forward (the actual recording time is not counted) while the movie is being recorded on an external recording/playback device.
- When [ File Format] is set to [XAVC S 4K] and [Dual Video REC] is set to [On], the following functions are not available.
 - [Face Detection]
 - [Center Lock-on AF]

Related Topic

- [HDMI Settings: REC Control \(movie\)](#)
- [File Format \(movie\)](#)
- [Record Setting \(movie\)](#)
- [HDMI Settings: HDMI Info. Display](#)

USB Connection

Selects the USB connection method when this product is connected to a computer, etc.

- 1 MENU →  (Setup) → [USB Connection] → desired setting.

Menu item details

Auto:

Establishes a Mass Storage or MTP connection automatically, depending on the computer or other USB devices to be connected. Windows 7, Windows 8.1, or Windows 10 computers are connected in MTP, and their unique functions are enabled for use.

Mass Storage:

Establishes a Mass Storage connection between this product, a computer, and other USB devices.

MTP:

Establishes an MTP connection between this product, a computer, and other USB devices. Windows 7, Windows 8.1, or Windows 10 computers are connected in MTP, and their unique functions are enabled for use.

- The memory card in memory card slot 1 is the connection target.

PC Remote:

Uses “Remote Camera Control” to control this product from the computer, including such functions as shooting and storing images on the computer.

Note

- It may take some time to make the connection between this product and a computer when [USB Connection] is set to [Auto].

Related Topic

- [PC Remote Settings: Still Img. Save Dest.](#)
- [PC Remote Settings: RAW+J PC Save Img](#)

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USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

1 MENU →  (Setup) → [USB LUN Setting] → desired setting.

Menu item details

Multi:

Normally, use [Multi].

Single:

Set [USB LUN Setting] to [Single] only if you cannot make a connection.

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USB Power Supply

Sets whether to supply power via the micro USB cable when the product is connected to a computer or an USB device.

1 MENU →  (Setup) → [USB Power Supply] → desired setting.

Menu item details

On:
Power is supplied to the product via a micro USB cable when the product is connected to a computer, etc.

Off:
Power is not supplied to the product via a micro USB cable when the product is connected to a computer, etc. If you use the supplied AC Adaptor, power will be supplied even when [Off] is selected.

Note


- Insert the battery pack into the product to supply power via USB cable.

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PC Remote Settings: Still Img. Save Dest.

Sets whether to save still images stored in both the camera and the computer during PC Remote shooting. This setting is useful when you want to check recorded images on the camera without leaving the camera.

* PC Remote: Uses "Remote Camera Control" to control this product from the computer, including such functions as shooting and storing images on the computer.

1 MENU →  (Setup) → [PC Remote Settings] → [Still Img. Save Dest.] → desired setting.

Menu item details

PC Only:

Saves still images only on the computer.

PC+Camera:

Saves still images on the computer and the camera.

Note

- During PC Remote shooting, you cannot change settings for [Still Img. Save Dest.]. Adjust the settings before you start shooting.
- If you insert a memory card that is not recordable, you cannot shoot still images even if you select [PC+Camera].
- If you select [PC+Camera] and you have not inserted a memory card into the camera, you cannot release the shutter even if [Release w/o Card] is set to [Enable].
- During PC Remote shooting, [Recording Mode] is locked to [Standard] and cannot be changed.
- While you are playing back still images on the camera, you cannot shoot using PC Remote.

Related Topic

- [USB Connection](#)
- [Release w/o Card](#)
- [PC Remote Settings: RAW+J PC Save Img](#)

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PC Remote Settings: RAW+J PC Save Img

Selects the file type for images to be transferred to the computer in PC Remote shooting.

When shooting still images using PC Remote, the application on the computer does not display the image until the image has been completely transferred. When performing RAW+JPEG shooting, you can accelerate the display processing speed by transferring only JPEG images instead of transferring both RAW and JPEG images.

* PC Remote: Uses "Remote Camera Control" to control this product from the computer, including such functions as shooting and storing images on the computer.

1 MENU →  (Setup) → [PC Remote Settings] → [RAW+J PC Save Img] → desired setting.

Menu item details

RAW & JPEG:

Transfers both RAW and JPEG files to the computer.


JPEG Only:

Transfers only JPEG files to the computer.

RAW Only:

Transfers only RAW files to the computer.

Note

- [RAW+J PC Save Img] can be set only when [ Quality] is set to [RAW & JPEG].
- During PC Remote shooting, [Recording Mode] is locked to [Standard] and cannot be changed.

Related Topic

- [USB Connection](#)
- [Quality \(still image\)](#)
- [PC Remote Settings: Still Img. Save Dest.](#)

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Language

Selects the language to be used in the menu items, warnings and messages.

1 MENU →  (Setup) → [ Language] → desired language.

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Date/Time Setup

The Clock Set screen is displayed automatically when you turn on this product for the first time or when the internal rechargeable backup battery has fully discharged. Select this menu when setting the date and time after the first time.

1 MENU →  (Setup) → [Date/Time Setup] → desired setting.

Menu item details

Daylight Savings:

Selects Daylight Savings [On]/[Off].

Date/Time:

Sets the date and time.

Date Format:

Selects the date and time display format.


Hint

- To charge the internal rechargeable backup battery, insert a charged battery pack, and leave the product for 24 hours or more with the power off.
- If the clock resets every time the battery is charged, the internal rechargeable backup battery may be worn out. Consult your service facility.

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Area Setting


Sets the area where you are using the product.

1 MENU →  (Setup) → [Area Setting] → desired area.

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Copyright Info


Writes copyright information onto the still images.

- 1 MENU →  (Setup) → [Copyright Info] → desired setting.
- 2 When you select [Set Photographer] or [Set Copyright], a keyboard appears on the screen. Enter your desired name.

Menu item details

Write Copyright Info:

Sets whether to write copyright information. ([On]/[Off])

- If you select [On], an  icon will appear on the shooting screen.

Set Photographer:

Sets the photographer name.


Set Copyright:

Sets the copyright holder name.

Disp. Copyright Info:

Displays the current copyright information.

Note

- You can only enter alphanumeric characters and symbols for [Set Photographer] and [Set Copyright]. You can enter up to 46 letters.
- A  icon appears during the playback of images with copyright information.
- In order to prevent unauthorized use of [Copyright Info], be sure to clear the [Set Photographer] and [Set Copyright] columns before lending out or handing over your camera.
- Sony is not liable for problems or damages resulting from use of [Copyright Info].

Related Topic

- [How to use the keyboard](#)

Format

When you use a memory card with this camera for the first time, we recommend that you format the card using the camera for stable performance of the memory card. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save valuable data on a computer, etc.


- 1 MENU →  (Setup) → [Format] → desired memory card slot.

Note

- Formatting permanently erases all data including protected images and registered settings (from M1 to M4).
- The access lamp lights up during formatting. Do not remove the memory card while the access lamp is lit up.
- Format the memory card on this camera. If you format the memory card on the computer, the memory card may not be usable depending on the format type.
- It may take a few minutes to complete formatting, depending on the memory card.
- You cannot format the memory card if the remaining battery charge is less than 1%.

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File Number

Selects how to assign file numbers to recorded still images and MP4 movies recorded with [ File Format] set to [MP4].

1 MENU →  (Setup) → [File Number] → desired setting.

Menu item details

Series:

The product will assign numbers to files sequentially up to "9999" without resetting.

Reset:


The product resets numbers when a file is recorded in a new folder and assigns numbers to files starting with "0001".
(When the recording folder contains a file, a number one higher than the largest number is assigned.)

Hint

- The setting for [File Number] will be applied to both slot 1 and slot 2.
- Even if you change the setting of the recording destination, the file numbers will be sequential across the two memory cards in each slot by setting [File Number] to [Series].

Set File Name

You can specify the first three characters of the file name for images you shoot.

- 1 MENU →  (Setup) → [Set File Name].
- 2 Select the entry field for the file name to display a keyboard on the screen, and then enter three characters of your choice.
 - The setting for [Set File Name] will be applied to both slot 1 and slot 2.

Note

- Only capital letters, numbers, and underscores can be entered. However, an underscore cannot be used as the first character.
- The three characters of the file name you specify using [Set File Name] will only be applied to images you shoot after changing the setting.

Related Topic

- [How to use the keyboard](#)

Selecting which memory card to record to (Select Rec. Media)

Selects the memory card slot on which to record.

[Slot 1] is the default setting. If you do not intend to change the settings and will only use one memory card, use the slot 1.

1 MENU →  (Setup) → [Select Rec. Media] → desired setting.

Menu item details

Slot 1:

Selects media in the slot 1.

Slot 2:

Selects media in the slot 2.

Hint

- To record the same image on two memory cards at the same time or to sort recorded images onto two memory card slots by the image type (still image/movie), use [Recording Mode].

Note

- The slot 2 supports Memory Stick PRO Duo media and SD cards. The slot 1 supports SD cards only.

Related Topic

- [Recording Mode](#)
- [Memory cards that can be used](#)
- [Selecting which memory card to play back \(Select PB Media\)](#)

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Recording Mode


You can select the method for recording an image, such as recording the same image simultaneously to two memory cards or recording different types of images to two memory cards. (If you want to record a movie to a memory card in different formats, use [Dual Video REC].)

1 MENU →  (Setup) → [Recording Mode] → desired setting.

Menu item details

Standard:



Records an image to a memory card in the memory card slot that you select in [Select Rec. Media].

Simult. ():

Records a still image to both memory cards and records a movie to a memory card in the memory card slot that you select in [Select Rec. Media].

Simult. ():

Records a still image to a memory card in the memory card slot that you select in [Select Rec. Media], and records a movie to both memory cards.

Simult. ( / ):

Records a still image and a movie to both memory cards.





Sort(JPEG/RAW):

Records an image in JPEG format to a memory card in the memory card slot that you select in [Select Rec. Media], and records an image in RAW format to the other memory card.

Sort( / ):

Records a still image to a memory card in the memory card slot that you select in [Select Rec. Media], and records a movie to the other memory card.

Note

- When [Recording Mode] is set to [Simult. ()] or [Simult. ( / )], [Dual Video REC] is temporarily set to [Off].
- When [Recording Mode] is set to [Sort(JPEG/RAW)], [ Quality] is temporarily set to [RAW & JPEG].

Related Topic

- [Memory cards that can be used](#)
- [Selecting which memory card to record to \(Select Rec. Media\)](#)
- [Dual Video REC](#)

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Select REC Folder

If [Folder Name] is set to [Standard Form] and there are 2 folders or more, you can select the folder on the memory card to which images are to be recorded.

1 MENU →  (Setup) → [Select REC Folder] → desired folder.

Note


- You cannot select the folder when [Folder Name] is set to [Date Form].
- If [Recording Mode] is set to other than [Standard], you may only select the common folder on the both memory cards. If there is no common folder, you can make one using [New Folder].

Related Topic

- [Folder Name](#)

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New Folder

Creates a new folder on the memory card for recording still images and MP4 movies recorded with [ File Format] set to [MP4]. A new folder is created with a folder number one greater than the largest folder number currently used. Images are recorded in the newly created folder. A folder for still images and a folder for MP4 movies that have the same number are created at the same time.

1 MENU →  (Setup) → [New Folder].

Note

- When you insert a memory card that was used with other equipment into this product and shoot images, a new folder may be automatically created.
- Up to 4,000 images in total can be stored in one folder. When the folder capacity is exceeded, a new folder may be automatically created.
- If [Recording Mode] is set to other than [Standard], a new folder is created with a folder number one greater than the largest folder number currently used on both memory cards inserted in the memory card slots.
- If [Recording Mode] is set to other than [Standard] and an image is shot, a new folder may be automatically created.

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Folder Name

Still images are recorded in a folder that is automatically created inside the DCIM folder on the memory card. You can change the way folder names are assigned.

1 MENU →  (Setup) → [Folder Name] → desired setting.

Menu item details

Standard Form:

The folder name form is as follows: folder number + MSDCF.

Example: 100MSDCF

Date Form:

The folder name form is as follows: folder number + Y (the last digit)/MM/DD.

Example: 10070405 (Folder number: 100, date: 04/05/2017)

Note

- You cannot change the [Folder Name] settings for movies.

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Recover Image DB

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. If these problems happen, repair the file using [Recover Image DB].

- 1 MENU →  (Setup) → [Recover Image DB] → desired memory card slot → [Enter].


Note

- Use a sufficiently charged battery pack. Low battery power during repairing can cause damage to data.

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Display Media Info.

Displays the recordable time of movies for the inserted memory card. Also displays the number of recordable still images for the inserted memory card.

- 1 MENU →  (Setup) → [Display Media Info.] → desired memory card slot.


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Version

Displays the version of this product's software. Check the version when updates for this product's software are released, etc.

Also displays the version of the lens if a lens compatible with firmware updates is attached.

The version of the Mount Adaptor is displayed in the lens area if a Mount Adaptor compatible with firmware updates is attached.

① MENU →  (Setup) → [Version].


Note

- Updating can be performed only when the battery level is  (3 remaining battery bars) or more. Use a sufficiently charged battery pack.

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Certification Logo (For some models only)

Displays some of the certification logos for this product.

1 MENU →  (Setup) → [Certification Logo].

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Setting Reset

Resets the product to the default settings. Even if you perform [Setting Reset], the recorded images are retained.

1 MENU →  (Setup) → [Setting Reset] → desired setting.

Menu item details

Camera Settings Reset:

Initializes the main shooting settings to the default settings.

Initialize:

Initializes all the settings to the default settings.

Note

- Be sure not to eject the battery pack while resetting.
- The value set with [AF Micro Adj.] will not be reset even when [Camera Settings Reset] or [Initialize] is performed.

Related Topic

- [AF Micro Adj.](#)
- [List of default setting values](#)

Add Item


You can register the desired menu items to ★ (My Menu) under MENU.

- 1 MENU → ★ (My Menu) → [Add Item].
- 2 Select an item that you want to add to ★ (My Menu) using the top/bottom/left/right sides of the control wheel.
- 3 Select a destination using the top/bottom/left/right sides of the control wheel.

Hint

- You can add up to 30 items to ★ (My Menu).

Note

- You cannot add the following items to ★ (My Menu).
 - Any item under MENU →  (Playback)
 - [View on TV]

Related Topic

- [Sort Item](#)
- [Delete Item](#)
- [Using MENU items](#)

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Sort Item

You can rearrange the menu items added to ★ (My Menu) under MENU.

- 1 MENU → ★ (My Menu) → [Sort Item].
 - 2 Select an item that you want to move using the top/bottom/left/right sides of the control wheel.
 - 3 Select a destination using the top/bottom/left/right sides of the control wheel.
-

Related Topic

- [Add Item](#)

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Delete Item

You can delete menu items added to ★ (My Menu) of MENU.

- 1 MENU → ★ (My Menu) → [Delete Item].
- 2 Select an item that you want to delete using the top/bottom/left/right sides of the control wheel, and then press the center to delete the selected item.

Hint

- To delete all the items on a page, select MENU → ★ (My Menu) → [Delete Page].
- You can delete all the items added to ★ (My Menu) by selecting MENU → ★ (My Menu) → [Delete All].

Related Topic

- [Delete Page](#)
- [Delete All](#)
- [Add Item](#)

Interchangeable Lens Digital Camera
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Delete Page

You can delete all the menu items added to a page under ★ (My Menu) in MENU.

- 1 MENU → ★ (My Menu) → [Delete Page].
 - 2 Select an item that you want to delete using the left/right sides of the control wheel, and then press the center of the control wheel to delete the items.
-

Related Topic

- [Add Item](#)
- [Delete All](#)

Interchangeable Lens Digital Camera
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Delete All

You can delete all the menu items added to ★ (My Menu) in MENU.

- 1 MENU → ★ (My Menu) → [Delete All].
 - 2 Select [OK].
-

Related Topic

- [Add Item](#)
- [Delete Page](#)

Interchangeable Lens Digital Camera
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Precautions

Refer also to “Notes on using your camera” in the Instruction Manual (supplied) for this product.

Backing up memory cards

Data may be corrupted in the following cases. Be sure to back up the data for protection.

- When the memory card is removed, the USB cable is disconnected, or the product is turned off in the middle of a read or write operation.
- When the memory card is used in locations subject to static electricity or electrical noise.

Database file error

If you insert a memory card that does not contain an image database file into the product and turn on the power, the product automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the product until the process is completed.

If a database file error occurs, export all images to your computer using PlayMemories Home, and then format the memory card using this product.

Do not use/store the product in the following places

- In an extremely hot, cold or humid place
In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
Be careful not to let sand or dust get into the product. This may cause the product to malfunction, and in some cases this malfunction cannot be repaired.
- In places with high humidity
This may cause the lens to mold.

On storing

Always attach the lens front cap or body cap when you are not using the camera. To prevent dust or debris from getting inside the camera, remove dust from the body cap before attaching it to the camera.

Precaution on carrying

Do not carry the camera with the tripod attached. This may cause the tripod socket hole to break.

On operating temperatures

Your product is designed for use under the temperatures between 0°C and 40°C (32 °F and 104 °F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

- If the product is brought directly from a cold to a warm location, moisture may condense inside or outside the product. This moisture condensation may cause a malfunction of the product.

- To prevent moisture condensation when you bring the product directly from a cold to a warm location, first put it in a plastic bag and seal it to prevent air from entering. Wait for about an hour until the temperature of the product has reached the ambient temperature.
- If moisture condensation occurs, turn off the product and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

On image data compatibility

This product conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).

- Playback of images recorded with your product on other equipment and playback of images recorded or edited with other equipment on your product are not guaranteed.

Notes on playing movies on other devices

- XAVC S movies can be played back only on XAVC S-supported devices.
- Movies recorded with this camera may not be played back correctly on other devices. Also, movies recorded with other devices may not be played back correctly on this camera.

On the monitor, viewfinder and lens

- Do not press against the monitor. The monitor may be discolored and that may cause a malfunction.
- If the monitor has drops of water or other liquids on it, wipe it with a soft cloth. If the monitor stays wet, the surface of the monitor may change or deteriorate. This may cause a malfunction.
- If the subject is too close, the image may show any dust or fingerprints on the lens. Wipe the lens with a soft cloth, etc.
- Make sure not to bump the lens or subject it to force.
- Do not carry the camera by the monitor.
- When using the power zoom lens, be careful not to get your fingers or any other objects caught in the lens.
- Magnets are attached to the camera body and the back of the monitor. Do not insert any magnetically recorded media, such as floppy disks or credit cards between them.

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On cleaning

Cleaning the lens

- Do not use a cleaning solution containing organic solvents, such as thinner, or benzene.
- When cleaning the lens surface, remove dust with a commercially available blower. In case of dust that sticks to the surface, wipe it off with a soft cloth or tissue paper slightly moistened with lens cleaning solution. Wipe in a spiral pattern from the center to the outside. Do not spray lens cleaning solution directly onto the lens surface.

Cleaning the camera body

Do not touch the parts of the product inside the lens mount, such as a lens signal contact. To clean inside the lens mount, use a commercially available blower* to blow any dust off.

* Do not use a spray-type blower as doing so may cause a malfunction.

Cleaning the product surface

Clean the product surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:


- Do not expose the product to chemical products such as thinner, benzene, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the product with any of the above on your hand.
- Do not leave the product in contact with rubber or vinyl for a long time.

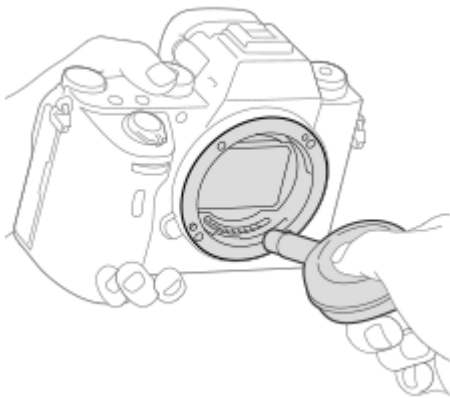
Cleaning the monitor

- If oil from your hand or hand cream, etc., remain on the monitor, the original coating may become easily removable. Wipe oil or hand cream off as soon as possible.
- If you wipe the monitor firmly using tissue paper, etc., the coating may be scratched.
- If the monitor becomes dirty with fingerprints or dust, gently remove the dust from the surface, and then clean the monitor using soft cloth, etc.

Cleaning Mode

If dust or debris gets inside the camera and adheres to the surface of the image sensor (the part that converts the light to an electric signal), it may appear as dark spots on the image, depending on the shooting environment. If this happens, follow the steps below to clean the image sensor.

- 1 Confirm that the battery has been charged sufficiently.
- 2 MENU →  (Setup) → [Cleaning Mode] → [Enter].
The image sensor vibrates a little to shake off the dust.
- 3 Turn off the product following the instructions on the screen.
- 4 Detach the lens.
- 5 Use the blower to clean the image sensor surface and the surrounding area.




- 6 Attach the lens.

Hint

- For how to check the amount of dust on the image sensor, and for further details on cleaning methods, please refer to the following URL.
<http://support.d-imaging.sony.co.jp/www/support/ilc/sensor/index.php>

Note

- Clean the image sensor quickly.
- A blower is not supplied with this product. Use a commercially available blower.
- Make sure that the remaining battery level is  (3 remaining battery icons) or more, before performing the cleaning. The use of AC adaptor (supplied) is recommended.
- Do not use a spray type blower as it may scatter water droplets inside the camera body.

- Do not put the tip of a blower into the cavity beyond the lens mount area, so that the tip of the blower does not touch the image sensor.
- Hold the camera slightly face downward so that the dust falls out.
- Do not subject the product to any shock during cleaning.
- When cleaning the image sensor with a blower, do not blow too hard. If you blow the sensor too hard, the inside of the product may be damaged.
- If the dust remains even after you cleaned the product as described, consult the service facility.

Related Topic

- [Troubleshooting](#)

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Number of recordable images

When you insert a memory card into the camera and set the ON/OFF (Power) switch to “ON,” the number of images that can be recorded (should you continue to shoot using the current settings) is displayed on the screen.

Note


- When “0” (the number of recordable images) flashes in orange, the memory card is full. Replace the memory card with another one, or delete images from the current memory card.
- When “NO CARD” flashes in orange, it means no memory card has been inserted. Insert a memory card.

The number of images that can be recorded on a memory card


The table below shows the approximate number of images that can be recorded on a memory card formatted with this camera. The values are defined using Sony standard memory cards for testing.


The values may vary depending on the shooting conditions and the type of memory card used.

[ Image Size]: [L: 24M]

[ Aspect Ratio] is set to [3:2]*

(Units: Images)

 Quality	8 GB	16 GB	32 GB	64 GB
Standard	1100	2300	4600	9200
Fine	790	1600	3200	6400
Extra fine	435	870	1750	3500
RAW & JPEG (Compressed RAW)	215	435	870	1750
RAW (Compressed RAW)	295	600	1200	2400
RAW & JPEG (Uncompressed RAW)	125	255	510	1000
RAW (Uncompressed RAW)	150	305	610	1200

* When [ Aspect Ratio] is set to other than [3:2], you can record more images than the numbers shown in the table above. (except when [RAW] is selected)

Note

- Even if the number of recordable images is higher than 9999 images, “9999” will appear.
- When an image shot with another product is played back on this camera, the image may not appear in its actual size.
- The numbers shown are when using a Sony memory card.

Recordable movie times



The table below shows the approximate total recording times using a memory card formatted with this camera. The values may vary depending on the shooting conditions and the type of memory card used.

The recording times for when [ File Format] is set to [XAVC S 4K], [XAVC S HD], and [AVCHD] are recording times when shooting with [Dual Video REC] set to [Off].

(h (hour), m (minute))

	8 GB	16 GB	32 GB	64 GB
XAVC S 4K 30p 100M/25p 100M	9 m	15 m	35 m	1 h 15 m
XAVC S 4K 30p 60M/25p 60M	15 m	30 m	1 h	2 h 5 m
XAVC S 4K 24p 100M*	9 m	15 m	35 m	1 h 15 m
XAVC S 4K 24p 60M*	15 m	30 m	1 h	2 h 5 m
XAVC S HD 120p 100M/100p 100M	9 m	15 m	35 m	1 h 15 m
XAVC S HD 120p 60M/100p 60M	15 m	30 m	1 h	2 h 5 m
XAVC S HD 60p 50M/50p 50M	15 m	35 m	1 h 15 m	2 h 35 m
XAVC S HD 30p 50M/25p 50M	15 m	35 m	1 h 15 m	2 h 35 m
XAVC S HD 24p 50M*	15 m	35 m	1 h 15 m	2 h 35 m
AVCHD 60i 24M(FX)/50i 24M(FX)	40 m	1 h 25 m	3 h	6 h
AVCHD 60i 17M(FH)/50i 17M(FH)	55 m	2 h	4 h 5 m	8 h 15 m
AVCHD 60p 28M(PS)/50p 28M(PS)	35 m	1 h 15 m	2 h 30 m	5 h 5 m
AVCHD 24p 24M(FX)/25p 24M(FX)	40 m	1 h 25 m	3 h	6 h
AVCHD 24p 17M(FH)/25p 17M(FH)	55 m	2 h	4 h 5 m	8 h 15 m
MP4 1920x1080 60p 28M/1920x1080 50p 28M	35 m	1 h 15 m	2 h 35 m	5 h 20 m
MP4 1920x1080 30p 16M/1920x1080 25p 16M	1 h	2 h	4 h 10 m	8 h 25 m
MP4 1280x720 30p 6M/1280x720 25p 6M	2 h 35 m	5 h 20 m	10 h 55 m	22 h

* Only when [NTSC/PAL Selector] is set to NTSC.

- Continuous shooting is possible for approximately 29 minutes (a product specification limit). The continuous recordable time may differ in the following situations:
 - When the file format is set to MP4 (28M): Approximately 20 minutes (limited by file size of 4 GB).
 - When shooting slow-motion/quick-motion movies: Recording will automatically stop when the recorded file reaches approximately 29 minutes (the played back movie reaches approximately 29 minutes). (Recording will automatically stop when the recorded file reaches approximately 15 minutes if [ Record Setting] is set to [60p/50p] and [ Frame Rate] is set to [30fps/25fps].)
- The times for slow-motion/quick-motion movies are playback times, not recording times.

Note

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.
- The times shown are recordable times using a Sony memory card.

Notes on continuous movie recording

- High-quality movie recording and high-speed continuous shooting require large amounts of power. Therefore, if you continue to shoot, the temperature inside the camera will rise, especially that of the image sensor. In such cases, the camera will turn off automatically because the surface of the camera is heated to a high temperature or the high temperature affects the quality of the images or the internal mechanism of the camera.
- The duration of time available for continuous movie recording when the camera records with the default settings after the power has been turned off for a while is as follows. The values indicate the continuous time from when the camera starts recording until the camera stops recording.

Ambient temperature: 20°C (68°F)

- Continuous recording time for movies (HD): Approx. 29 minutes
- Continuous recording time for movies (4K): Approx. 29 minutes

Ambient temperature: 30°C (86°F)

- Continuous recording time for movies (HD): Approx. 29 minutes
- Continuous recording time for movies (4K): Approx. 29 minutes




Ambient temperature: 40°C (104°F)

- Continuous recording time for movies (HD): Approx. 29 minutes
- Continuous recording time for movies (4K): Approx. 29 minutes

[Auto Pwr OFF Temp.]: [Standard]

HD: XAVC S HD (60p 50M/50p 50M, not connected via Wi-Fi)

4K: XAVC S 4K (24p 60M/25p 60M, not connected via Wi-Fi)

- The duration of time available for movie recording varies with the temperature, file format/record setting for movies, Wi-Fi network environment, or condition of the camera before you start recording. If you frequently recompose or shoot images after the power is turned on, the temperature inside the camera will rise and the recording time available will be shorter.
- If the  icon appears, the temperature of the camera has risen.
- If the camera stops movie recording due to a high temperature, leave it for some time with the power turned off. Start recording after the temperature inside the camera drops fully.
- If you observe the following points, you will be able to record movies for longer periods of time.
 - Keep the camera out of direct sunlight.
 - Turn the camera off when it is not being used.
- When [ File Format] is set to [AVCHD], the file size of movies is limited to approx. 2 GB. If the movie file size reaches approx. 2 GB during recording, a new movie file will be created automatically.
- When [ File Format] is set to [MP4], the file size of movies is limited to approx. 4 GB. If the movie file size reaches approx. 4 GB during recording, recording will stop automatically.

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Using the AC Adaptor/battery charger abroad

You can use the battery charger (supplied) and the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC and 50 Hz/60 Hz.

Depending on the country/region, a converting plug adaptor may be needed to connect to a wall outlet (wall socket). Consult a travel agency, etc., and prepare one in advance.

Note

- Do not use an electronic voltage transformer as doing so may cause a malfunction.

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AVCHD format

The AVCHD format was developed for high-definition digital video cameras when recording an HD (High-Definition) signal using high-efficiency compression coding technology. The MPEG-4 AVC/H.264 format is used to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data.

The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.

- As the AVCHD format uses compression coding technology, the picture may be unstable in scenes where the screen, angle of view, or brightness, etc. change drastically, but this is not a malfunction.

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List of default setting values



















The following are the default setting values.








To reset settings to the default values





Select MENU →  (Setup) → [Setting Reset] → [Camera Settings Reset] or [Initialize] → [OK].

The items that can be reset using [Camera Settings Reset] are limited. See the following tables. If you select [Initialize], all the settings of the camera will be reset to the default values.










1 Camera Settings 1

MENU items	Default setting value	Resettable using [Camera Settings Reset]
 Quality	Fine	✓
 RAW File Type	Compressed	✓
 Image Size (when [ Aspect Ratio] is set to [3:2])	L: 24M	✓
 Image Size (when [ Aspect Ratio] is set to [16:9])	L: 20M	✓
 Image Size (when [ Aspect Ratio] is set to [3:2], and [APS-C/Super 35mm] is set to [On])	L: 10M	✓
 Image Size (when [ Aspect Ratio] is set to [16:9], and [APS-C/Super 35mm] is set to [On])	L: 8.7M	✓
 Aspect Ratio	3:2	✓
APS-C/Super 35mm	Auto	—
 Long Exposure NR	On	✓
 High ISO NR	Normal	✓
 Color Space	sRGB	✓
Lens Comp. (Shading Comp.)	Auto	—
Lens Comp. (Chro. Aber. Comp.)	Auto	—
Lens Comp. (Distortion Comp.)	Off	—
Self-timer Type	Self-timer(Single)	✓
Bracket Settings (Bracket Type)	Cont. Bracket	✓
Bracket Settings (Selftimer during Brkt)	Off	✓
Bracket Settings (Bracket order)	0 → → → +	✓
 1 /  2 Recall	—	—
 1 /  2 Memory	—	—


MENU items	Default setting value	Resettable using [Camera Settings Reset]
Reg Cust Shoot Set	—	—
Priority Set in AF-S	Balanced Emphasis	—
Priority Set in AF-C	Balanced Emphasis	—
Focus Area	Wide	✓
Focus Settings	—	✓
 Swt. V/H AF Area	Off	✓
 AF Illuminator	Auto	✓
Center Lock-on AF	Off	✓
 AF Track Sens	3(Standard)	✓
 AF System	Phase Detection AF	—
 AF w/ shutter	On	—
 Pre-AF	Off	—
 Eye-Start AF	Off	—
 AF Area Regist.	Off	—
 Del. Reg. AF Area	—	—
AF Area Auto Clear	Off	—
Disp. cont. AF area	On	—
AF Micro Adj.* (AF Adjustment Set.) * This item is not reset even if you select [Camera Settings Reset] or [Initialize].	Off	—
AF Micro Adj.* (Clear) * This item is not reset even if you select [Camera Settings Reset] or [Initialize].	—	—
AF Micro Adj.* (amount) * This item is not reset even if you select [Camera Settings Reset] or [Initialize].	±0	—
Exposure Comp.	±0.0	✓
Reset EV Comp.	Reset	—
ISO	ISO AUTO	✓
ISO AUTO Min. SS	Standard	✓
Metering Mode	Multi	✓
Spot Metering Point	Center	✓

MENU items	Default setting value	Resettable using [Camera Settings Reset]
Exposure step	0.3EV	—
 AEL w/ shutter	Auto	—
Exposure Std. Adjust	±0.0	—
Flash Mode	Autoflash	✓
Flash Comp.	±0.0	✓
Exp.comp.set	Ambient&flash	—
Red Eye Reduction	Off	✓
White Balance	Auto	✓
Priority Set in AWB	Standard	✓
DRO/Auto HDR	D-Range Optimizer: Auto	✓
Creative Style	Standard	✓
Picture Effect	Off	✓
Focus Magnifier	—	✓
Focus Magnif. Time	No Limit	—
 Initial Focus Mag.	x1.0	—
 AF in Focus Mag.	On	—
 MF Assist	On	—
Peaking Level	Off	—
Peaking Color	White	—
Face Detection	Off	✓
Face Registration	—	—

2 Camera Settings2





MENU items	Default setting value	Resettable using [Camera Settings Reset]
 Exposure Mode	Program Auto	✓
 Exposure Mode	Program Auto	✓
 File Format	XAVC S HD	✓
 Record Setting (when [ File Format] is set to [XAVC S 4K])	24p 60M/25p 60M	✓
 Record Setting (when [ File Format] is set to [XAVC S HD])	60p 50M/50p 50M	✓
 Record Setting (when [ File Format] is set to [AVCHD])	60i 17M(FH)/50i 17M(FH)	✓

MENU items	Default setting value	Resettable using [Camera Settings Reset]
 Record Setting (when [ File Format] is set to [MP4])	1920x1080 30p 16M/1920x1080 25p 16M	✓
 S&Q Settings ( Record Setting)	30p/25p	✓
 S&Q Settings ( Frame Rate)	120fps/100fps	✓
Dual Video REC	Off	✓
 AF drive speed	Normal	✓
 AF Track Sens	Standard	✓
 Auto Slow Shut.	On	✓
Audio Recording	On	✓
Audio Rec Level	26	✓
Audio Level Display	On	—
Audio Out Timing	Live	✓
Wind Noise Reduct.	Off	✓
 Marker Display	Off	—
 Marker Settings (Center)	Off	—
 Marker Settings (Aspect)	Off	—
 Marker Settings (Safety Zone)	Off	—
 Marker Settings (Guideframe)	Off	—
Video Light Mode	Power Link	—
Movie w/ shutter	Off	—
 Shutter Type	Auto	—
e-Front Curtain Shut.	On	—
Release w/o Lens	Enable	—
Release w/o Card	Enable	—
SteadyShot	On	✓
SteadyShot Settings (SteadyShot Adjust.)	Auto	✓
SteadyShot Settings (SteadyS. Focal Len.) (when [SteadyShot Adjust.] is set to [Manual])	8mm	✓
Zoom	—	—
Zoom Setting	Optical zoom only	—
Zoom Ring Rotate	Left(W)/Right(T)	—
DISP Button (Monitor)	Display All Info.	—
DISP Button (Finder)	Level	—

MENU items	Default setting value	Resettable using [Camera Settings Reset]
FINDER/MONITOR	Auto	—
 Finder Frame Rate	High	—
Zebra	Off	—
Grid Line	Off	—
Exposure Set. Guide	Off	—
Live View Display	Setting Effect ON	—
Shoot. Start Disp.	Off	—
Shoot. Timing Disp.	On: Type1	—
Cont. Shoot. Length	Not Displayed	—
Auto Review	Off	—
Custom Key(Shoot.) (Control Wheel)	Not set	—
Custom Key(Shoot.) (Custom Button 1)	White Balance	—
Custom Key(Shoot.) (Custom Button 2)	Focus Area	—
Custom Key(Shoot.) (Custom Button 3)	 Shutter Type	—
Custom Key(Shoot.) (Custom Button 4)	Not set	—
Custom Key(Shoot.) (Multi-Slc Center Btn)	Focus Standard	—
Custom Key(Shoot.) (Center Button)	Eye AF	—
Custom Key(Shoot.) (Left Button)	Not set	—
Custom Key(Shoot.) (Right Button)	ISO	—
Custom Key(Shoot.) (Down Button)	Not set	—
Custom Key(Shoot.) (AEL Button)	AEL hold	—
Custom Key(Shoot.) (AF-ON Button)	AF On	—
Custom Key(Shoot.) (Focus Hold Button)	Focus Hold	—
Custom Key(PB) (Custom Button 1)	Follow Custom(Sht.)	—
Custom Key(PB) (Custom Button 2)	Follow Custom(Sht.)	—
Custom Key(PB) (Custom Button 3)	Follow Custom(Sht.)	—
Custom Key(PB) (Fn/  Button)	Send to Smartphone	—
Function Menu Set.	—	—
Dial Setup	 F/no.  SS	—
Dial Ev Comp	Off	—
MOVIE Button	Always	—
Lock Operation Parts	Off	—
Audio signals	On:all	—

Network

To reset the items for [Network] to the default values, select [Initialize] or [Reset Network Set.]. These items are not reset to the default values even if you select [Camera Settings Reset].

MENU items	Default setting value
Send to Smartphone	—
Send to Computer	—
FTP Transfer Func. (FTP Transfer)	—
FTP Transfer Func. (Display FTP Result)	—
FTP Transfer Func. (Select FTP Server)	FTP Server 1
FTP Transfer Func. (FTP Server 1)	—
FTP Transfer Func. (FTP Server 2)	—
FTP Transfer Func. (FTP Server 3)	—
View on TV	—
Ctrl w/ Smartphone (Ctrl w/ Smartphone)	Off
Ctrl w/ Smartphone ( Connection Info.)	—
Airplane Mode	Off
Wi-Fi Settings (WPS Push)	—
Wi-Fi Settings (Access Point Set.)	—
Wi-Fi Settings (Disp MAC Address)	—
Wi-Fi Settings (SSID/PW Reset)	—
Bluetooth Settings (Bluetooth Function)	Off
Bluetooth Settings (Pairing)	—
Bluetooth Settings (Disp Device Address)	—
 Loc. Info. Link Set. (Location Info. Link)	Off
 Loc. Info. Link Set. (Auto Time Correct.)	On
 Loc. Info. Link Set. (Auto Area Adjust.)	On
Wired LAN Setting (IP Address Setting)	Auto
Edit Device Name	—
Imp Root Certificate	—
Reset Network Set.	—

Playback

To reset the items for [Playback] to the default values, select [Initialize]. These items are not reset to the default values even if you select [Camera Settings Reset].

MENU items	Default setting value
------------	-----------------------

Delete	—
View Mode	Date View
Image Index	9 Images
Display Rotation	Auto
Select PB Media	Slot 1
Copy	—
Slide Show (Repeat)	Off
Slide Show (Interval)	3 Sec
Rotate	—
⊕ Enlarge Image	—
⊕ Enlarge Init. Mag.	Standard. Mag.
⊕ Enlarge Initial Pos.	Focused Position
Protect	—
Specify Printing	—
Photo Capture	—

Setup

To reset the items for [Setup] to the default values, select [Initialize]. These items are not reset to the default values even if you select [Camera Settings Reset].

MENU items	Default setting value
Monitor Brightness	Manual
Viewfinder Bright.	Auto
Finder Color Temp.	±0
Volume Settings	7
Delete confirm.	"Cancel" first
Pwr Save Start Time	1 Min
Auto Pwr OFF Temp.	Standard
NTSC/PAL Selector	—
Cleaning Mode	—
Touch Operation	Off
Demo Mode	Off
TC/UB Settings (TC/UB Disp. Setting)	Counter
TC/UB Settings (TC Preset)	—
TC/UB Settings (UB Preset)	—
TC/UB Settings (TC Format)	DF

MENU items	Default setting value
TC/UB Settings (TC Run)	Rec Run
TC/UB Settings (TC Make)	Preset
TC/UB Settings (UB Time Rec)	Off
Remote Ctrl	Off
HDMI Settings (HDMI Resolution)	Auto
HDMI Settings ( 24p/60p Output)	60p
HDMI Settings (HDMI Info. Display)	On
HDMI Settings ( TC Output)	Off
HDMI Settings ( REC Control)	Off
HDMI Settings (CTRL FOR HDMI)	On
 4K Output Sel.	Memory Card+HDMI
USB Connection	Auto
USB LUN Setting	Multi
USB Power Supply	On
PC Remote Settings (Still Img. Save Dest.)	PC Only
PC Remote Settings (RAW+J PC Save Img)	RAW & JPEG
 Language	—
Date/Time Setup	—
Area Setting	—
Copyright Info (Write Copyright Info)	Off
Copyright Info (Set Photographer)	—
Copyright Info (Set Copyright)	—
Copyright Info (Disp. Copyright Info)	—
Format	—
File Number	Series
Set File Name	DSC
Select Rec. Media	Slot 1
Recording Mode	Standard
Select REC Folder	—
New Folder	—
Folder Name	Standard Form
Recover Image DB* * This is not performed even when you select [Camera Settings Reset] or [Initialize].	—

MENU items	Default setting value
Display Media Info.	—
Version	—
Certification Logo	—
Setting Reset	—

★ My Menu

To reset the items for [My Menu] to the default values, select [Initialize] or [Delete All]. These items are not reset to the default values even if you select [Camera Settings Reset].

MENU items	Default setting value
Add Item	—
Sort Item	—
Delete Item	—
Delete Page	—
Delete All	—

Interchangeable Lens Digital Camera
ILCE-9 α9

Troubleshooting

If you experience trouble with the product, try the following solutions.

- 1 Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.
 - 2 Initialize the settings.
 - 3 Consult your dealer or local authorized service facility. Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.
<http://www.sony.net/>
-

Related Topic

- [Setting Reset](#)

Warning messages

Set Area/Date/Time.

- Set the area, date and time. If you have not used the product for a long time, charge the internal rechargeable backup battery.

Power insufficient.

- The image copying or the image sensor cleaning function will not operate because the remaining battery level is too low. Recharge the battery pack.

Unable to use memory card. Format?

- The memory card was formatted on a computer and the file format was modified. Select [Enter] and then format the memory card. You can use the memory card again, however, all previous data in the memory card is erased. It may take some time to complete the format. If the message still appears, change the memory card.

Memory Card Error

- An incompatible memory card is inserted.
- Formatting has failed. Format the memory card again.

Unable to read memory card. Reinsert memory card.

- An incompatible memory card is inserted.
- The memory card is damaged.
- The terminal section of the memory card is dirty.

Memory card locked.

- You are using a memory card with a write-protect switch or a delete-protect switch with the switch set to the LOCK position. Set the switch to the record position.

Cannot open the shutter since the memory card is not inserted.

- No memory card has been inserted into the memory card slot selected in [Select Rec. Media].
- To release the shutter without inserting a memory card into the camera, set [Release w/o Card] to [Enable]. In this case, images will not be saved.

This memory card may not be capable of recording and playing normally.

- An incompatible memory card is inserted.

Processing...

- When performing noise reduction, the reduction process takes place. You cannot do any further shooting during this reduction process.

Unable to display.

- Images recorded with other products or images modified with a computer may not be displayed.
- Processing on the computer such as deletion of the image files may cause inconsistencies in the image database files. Repair the image database files.

Check that a lens is mounted. For an unsupported lens, set "Release w/o Lens" in the menu to "Enable".

- The lens is not attached properly, or the lens is not attached. If the message appears when a lens is attached, reattach the lens. If the message appears frequently, check whether the contacts of the lens and product are clean or not.
- When attaching the product to an astronomical telescope or similar instrument, or using an unsupported lens, set [Release w/o Lens] to [Enable].

Unable to print.

- You tried to mark RAW images with a DPOF mark.

Internal temp. high. Allow it to cool.

- The product has become hot because you have been shooting continuously. Turn the power off and cool the product and wait until the product is ready to shoot again.



- You have been recording images for a long time, the product temperature has risen.

Recording is unavailable in this movie format.

- Set [ File Format] to [MP4].



- The number of images exceeds that for which date management in a database file by the product is possible.



- Unable to register to the database file. Import all the images to a computer using PlayMemories Home and recover the memory card.

Image DataBase File error

- There is something wrong in the Image Database File. Select [Setup] → [Recover Image DB].

System Error

Camera Error. Turn power off then on.

- Remove the battery pack, and then re-insert it. If the message appears frequently, consult local authorized Sony service facility.

Image Database File error. Recover?

- You cannot record and play back an AVCHD movie because the Image Database File is damaged. Recover the Image Database File following the on-screen instructions.

Unable to magnify.

Unable to rotate image.

- Images recorded with other products may not be enlarged or rotated.

Cannot create more folders.

- A folder in the memory card has the first three digits "999." You cannot create any more folders on this camera.




Related Topic

- Notes on memory card
- Format
- Release w/o Lens

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Recommended pages

-  [How to transfer images to smartphone](#)
You can transfer images shot with this camera to smartphone.
-  [How to tag the location information on the images](#)
You can record the location information on the images. The location information can be acquired via a smartphone.
-  [ILCE-9 Lens compatibility information](#)
This website provides the lens compatibility information. (Another window will open.)