4-564-359-12(1)

SONY

Interchangeable Lens Digital Camera



Instruction Manual

E-mount



"Help Guide" (Web manual)

Refer to "Help Guide" for in-depth instructions on the many functions of the camera.

http://rd1.sony.net/help/ilc/1450/h_zz/

English

Learning more about the camera ("Help Guide")



"Help Guide" is an on-line manual. You can read the "Help Guide" on your computer or smartphone. Refer to it for in-depth instructions on the many functions of the camera.

URL:

http://rd1.sony.net/help/ilc/1450/ h_zz/



Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product. Model No. WW328278 (ILCE-7M2) Serial No. Serial No.

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS -SAVE THESE INSTRUCTIONS DANGER TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- · Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- · Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- · Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.call2recycle.org/

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack and lens (if lens supplied)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

For Customers in the U.S.A.

If you have any questions about this product, you may call:

Sony Customer Information Center 1-800-222-SONY (7669). The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY Model No.: WW328278 Responsible Party: Sony Electronics Inc. Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A. Telephone No.: 858-942-2230

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany

CE

Hereby, Sony Corporation, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL: http://www.compliance.sony.de/

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet).

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On

certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at endof-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

For Customers in Singapore

Complies with IDA Standards DB00353

For customers who purchased their camera from a store in Japan that caters to tourists

Note

Some certification marks for standards supported by the camera can be confirmed on the screen of the camera. Select MENU $\rightarrow \bigoplus$ (Setup) \rightarrow [Certification Logo]. If display is not possible due to problems such as camera failure, contact your Sony dealer or local authorized Sony service facility.

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For details on the Wi-Fi and NFC One-touch functions, refer to the attached document "Wi-Fi Connection/One-touch (NFC) Guide" or to the "Help Guide."

This manual covers several models supplied with different lenses.

The model name varies depending on the supplied lens. The available model varies depending on the countries/regions.

Model name	Lens
ILCE-7M2	Not supplied
ILCE-7M2K	FE 28-70 mm F3.5-5.6 OSS

Introduction of functions

This section introduces some frequently used shooting functions and other unique functions.

See the pages in parentheses for details.

Shooting functions used frequently

Exposure Comp. (37)

You can adjust the exposure to change the brightness of the entire image. Even when the shooting mode is set to M, you can adjust the exposure if the ISO sensitivity is set to [ISO AUTO].

ISO/Multi Frame NR (37)

You can adjust the luminous sensitivity. The ISO sensitivity can be adjusted between ISO 50 and ISO 25600. When you select Imm (Multi Frame NR), you can select larger ISO numbers than the maximum ISO sensitivity.

White Balance (37)

You can adjust the color tones.

You can select an option to suit a light source, or perform fine adjustments using color temperature and color filters.

Drive Mode (36)

You can select an appropriate drive mode to suit your purposes, such as single shooting, continuous shooting, or bracket shooting.

Features of this camera

DRO/Auto HDR (72)

[D-Range Opt.]: By dividing the image into small areas, the camera analyses the contrast of light and shadow between the subject and the background, and produces an image with the optimal brightness and gradation.

[Auto HDR]: Shoots 3 images with different exposures, and then overlays these images to create an image with rich gradation.

Creative Style (71)

You can select the desired style from among 13 styles.

You can also adjust certain image factors, such as exposure, using the selected style as the base.

Movie recording with manual adjustments (69)

You can adjust the exposure in P, A, S, or M mode even when shooting movies.

Picture Profile (74)

You can change settings such as color and tone when recording movies.

How to operate or customize the camera

Display information (39)

When you look into the viewfinder, the viewfinder mode is activated, and when you move your face away from the viewfinder, the viewing mode reverts to monitor mode (default settings). You can change the screen display mode by pressing DISP on the control wheel.

Quick Navi (29)

In [For viewfinder] screen, you can quickly switch from the monitor to the Quick Navi screen by pressing the Fn button. You can set the items with an intuitive operation by using the front/rear dial and the control wheel.

Customization (42)

The camera are equipped with the Custom buttons, where you can assign desired function on each button. You can also assign functions to other buttons, such as the AEL button.

Notes on using your camera

Screen language

You can select the language displayed on the screen using the menu (page 45).

Shooting procedure

This camera has 2 modes for monitoring subjects: the monitor mode using the monitor, and the viewfinder mode using the viewfinder.

Functions built into this camera

 This manual describes 1080 60icompatible devices and 1080 50icompatible devices.

To check whether your camera is a 1080 60i-compatible device or 1080 50icompatible device, check for the following marks on the bottom of the camera.

1080 60i-compatible device: 60i 1080 50i-compatible device: 50i

 This camera is compatible with 1080 60p or 50p-format movies. Unlike standard recording modes up to now, which record in an interlacing method, this camera records using a progressive method. This increases the resolution, and provides a smoother, more realistic image.

Creating an image database file

If you insert a memory card that does not contain an image database file into the camera and turn on the power, the camera 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 camera until the process is completed. If a database file error occurs, export all images to your computer using PlayMemories HomeTM, and then format the memory card using the camera.

Notes on recording/playback

 In order to stabilize the operation of the memory card, it is recommended that you format the memory card on the camera when you use it with that camera for the first time.

Once you format the memory card, all the data recorded on the memory card will be deleted and cannot be restored. Before formatting, copy the data to a computer or other device.

- If you repeatedly record and delete images over a long period, the files on the memory card may become fragmented and movie recording may be suspended partway through. If this occurs, copy the data to a computer or other device and then perform [Format].
- Before you start recording, make a trial recording to make sure that the camera is working correctly.

Back up recommendation for a memory card

If you turn the camera off or remove the battery pack or the memory card while the access lamp is flashing, the data on the memory card may become broken. To avoid data loss, always copy (back up) data to another device.

No compensation for damaged content or recording failure

Sony cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

Shooting with an E-mount lens compatible APS-C size

This camera is equipped with a 35 mm, full-frame CMOS sensor. However, the image size is automatically set to that of the APS-C size setting and the image size is smaller when an E-mount lens compatible APS-C size is used (default settings).

Notes on the monitor, electronic viewfinder, lens, and image sensor

- The monitor and electronic viewfinder are manufactured using extremely highprecision technology, and over 99.99% of the pixels are operational for effective use. However, there may be some small black dots and/or bright dots (white, red, blue or green in color) that constantly appear on the monitor and electronic viewfinder. These dots are normal due to the manufacturing process and do not affect the images in any way.
- · Do not hold 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.
- Do not expose the camera to a strong light source such as a sunlight. The internal components may become damaged.
- Do not look at sunlight or a strong light source through the lens when it is detached. This may result in unrecoverable damage to the eyes or cause a malfunction.
- Do not use the camera in areas where strong radio waves or radiation are being emitted. Recording and playback may not function correctly.

- Images may trail across on the screen in a cold location. This is not a malfunction. When turning on the camera in a cold location, the screen may become temporarily dark. When the camera warms up, the screen will function normally.
- The recorded image may be different from the image you monitored before recording.

Notes on using the lenses and accessories

It is recommended that you use Sony lenses/accessories designed to suit the characteristics of this camera. Using this camera with products from other manufacturers may affect its performance, leading to accidents or malfunction. Sony bears no responsibility for such accidents or malfunction.

Notes on the multi interface shoe

- When attaching or detaching accessories such as an external flash to the multi interface shoe, first turn the power to OFF. When attaching the accessories, tighten the screws all the way and confirm that it is firmly fastened to the camera.
- Do not use an external flash with a high voltage flash sync terminal or inverse polarity. This may result in malfunction.

Notes on shooting with the viewfinder

This camera is equipped with an Organic Electro-Luminescence viewfinder with high resolution and high contrast. This viewfinder achieves a wide viewing angle and a long eye relief. This camera is designed to provide an easily viewable viewfinder by appropriately balancing various elements.

- The image may be slightly distorted near the corners of the viewfinder. This is not a malfunction. When you want to see the full composition with all its details, you can also use the monitor.
- If you pan the camera while looking into the viewfinder or move your eyes around, the image in the viewfinder may be distorted or the color of the image may change. This is a characteristic of the lens or display device and is not a malfunction. When you shoot an image, we recommend that you look at the center area of the viewfinder.
- When shooting with the viewfinder, you may experience symptoms such as eyestrain, fatigue, travel sickness, or nausea. We recommend that you take a break at regular intervals when you are shooting with the viewfinder. The required length or frequency of the break may differ depending on the individuals, so you are advised to decide at your own discretion. In case you may feel uncomfortable, refrain from using the viewfinder until your condition recovers, and consult your doctor as necessary.

Notes on recording for long periods of time

 Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera. A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool enough, the power may turn off again or you may be unable to record movies.

- Under high ambient temperatures, the temperature of the camera rises quickly.
- When the temperature of the camera rises, the image quality may deteriorate. It is recommended that you wait until the temperature of the camera drops before continuing to shoot.
- The surface of the camera may get warm. This is not a malfunction.

Notes on importing XAVC S movies and AVCHD movies to a computer

When importing XAVC S movies or AVCHD movies to a computer, download and use the software PlayMemories Home from the following website: http://www.sony.net/pm/

Notes when playing movies on other devices

- This camera uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played with the following devices.
 - Other devices compatible with AVCHD format that do not support High Profile
 - Devices incompatible with the AVCHD format

This camera also uses MPEG-4 AVC/ H.264 Main Profile for MP4 format recording. For this reason, movies recorded in MP4 format with this camera cannot be played on devices other than those that support MPEG-4 AVC/H.264.

 Discs recorded with HD (high definition) image quality can be played back only on AVCHD format-compatible devices.
 DVD-based players or recorders cannot play back HD image quality discs, as they are incompatible with the AVCHD format. Also, DVD-based players or recorders may fail to eject HD image quality discs.

- Movies recorded in 1080 60p/1080 50p format can be played back only on 1080 60p/1080 50p-supported devices.
- Movies recorded in XAVC S format can be played back only on XAVC Ssupported devices.

Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

The pictures used in this manual

The photographs used as examples of pictures in this manual are reproduced images, and are not actual images shot using this camera.

On the data specifications described in this manual

The data on performance and specifications are defined under the following conditions, except as described in this manual: at an ordinary ambient temperature of 25°C (77°F), and using a battery pack that has been fully charged until the charge lamp has turned off.

How to turn off wireless network functions (Wi-Fi and NFC, etc.) temporarily

When you board an airplane, etc., you can turn off all wireless network functions temporarily.

Select MENU button $\rightarrow \Re$ (Wireless) \rightarrow [Airplane Mode] \rightarrow [On].

If you set [Airplane Mode] to [On], an \bigstar (airplane) mark will be displayed on the screen.

Notes on wireless LAN

If your camera is lost or stolen, Sony bears no responsibility for the loss or damage caused by illegal access or use of the registered access point on the camera.

Notes on security when using wireless LAN products

- Always make sure that you are using a secure wireless LAN to avoid hacking, access by malicious third parties, or other vulnerabilities.
- It is important that you set the security settings when using a wireless LAN.
- If a security problem arises because no security precautions are in place or due to any inevitable circumstances when using a wireless LAN, Sony bears no responsibility for the loss or damage.

Checking the supplied items

The number in parentheses indicates the number of pieces.

Supplied with all models:

- Camera (1)
- AC Adaptor AC-UD10/AC-UUD11 (1) The shape of the AC Adaptor may differ depending on the country/ region.
- Power cord (mains lead) (1)* (not supplied in the U.S.A. and Canada)



- * Multiple power cords may be supplied with your camera. Use the appropriate one that matches your country/region.
- Rechargeable battery pack NP-FW50 (1)



• Micro USB cable (1)



• Shoulder strap (1)



For how to attach the shoulder strap to the camera, refer to page 21.

• Body cap (1) (Attached on the camera)



- Shoe cap (1) (Attached on the camera)
- Eyepiece Cup (1) (Attached on the camera)
- Instruction Manual (1) (this manual)
- Wi-Fi Connection/One-touch (NFC) Guide (1)

This guide explains the functions that require a Wi-Fi connection.

ILCE-7M2K:

• Zoom lens FE 28-70 mm F3.5-5.6 OSS (1)/Front lens cap (1)/ Rear lens cap (1)/Lens hood (1)

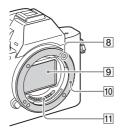
Identifying parts

See the pages in parentheses for details on operation for the parts.

Front side



When the lens is removed



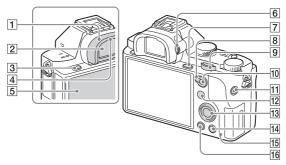
- 1 Power switch/Shutter button
- 2 Front dial
- 3 Remote sensor
- 4 Wi-Fi antenna (built-in)
- 5 Lens release button
- 6 Built-in microphone*1

- 7 AF illuminator (37)/Self-timer lamp
- 8 Mount index
- 9 Image sensor*2
- 10 Mount
- 11 Contacts*2
- *1 Do not cover this part during movie recording.

Doing so may cause noise or lower the volume.

*2 Do not directly touch these parts.

Rear side



- 1 Eyepiece cup (62)
- 2 Viewfinder
- 3 MENU button (35)
- 4 Eye sensor
- **5** Monitor (24)
 - You can adjust the monitor to an easily viewable angle and shoot from any position.



6 Diopter-adjustment dial

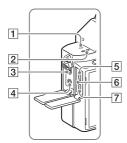
 Adjust the diopter-adjustment dial according to your eyesight until the display appears clearly in the viewfinder.

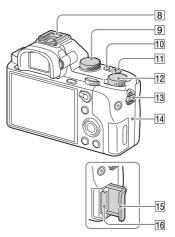


- [7] For shooting: C3 (Custom 3) button (28)
 For viewing: ⊕ (Enlarge) button (76)
- 8 AF/MF/AEL switch lever
- 9 Rear dial

- For shooting: AF/MF (Auto focus/manual focus) button/ AEL button (28)
 For viewing: (Image index) button (76)
- 11 MOVIE button (65)
- 12 For shooting: Fn button (33)
 For viewing: ♣ (Send to Smartphone) button
 - You can display the screen for [Send to Smartphone] by pressing this button.
- 13 Control wheel (31)
- For shooting: C4 (Custom 4) button (28)
 For viewing: 面 (Delete) button (68)
- 15 Access lamp
- 16 (Playback) button (66)

Top side/Side view





- Hage sensor position mark
- 2 Speaker
- 3 **(**Microphone) jack
 - When an external microphone is connected, the microphone is turned on automatically. If the external microphone is a plugin-power type, the power of the microphone is supplied by the camera.
- 4 (Headphones) jack
- 5 Multi/Micro USB Terminal*
 - Supports Micro USB compatible device.

- 6 Charge lamp (49)
- 7 HDMI micro jack
- 8 Multi interface shoe*
 - Some of the accessories may not be inserted fully and protrude backward from the Multi interface shoe. However, when the accessory reaches the front end of the shoe, the connection is completed.
- **9** Mode dial (69)
- **10** C2 (Custom 2) button (28)
- **11** C1 (Custom 1) button (28)
- 12 Exposure compensation dial (28)

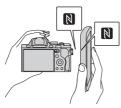
- **13** Hooks for shoulder strap
 - Attach both ends of the strap onto the camera.



14 🔊 (N mark)

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

For details on the location of the N (N mark) on your Smartphone, refer to the operating instructions of the Smartphone.



• NFC (Near Field Communication) is an international standard of shortrange wireless communication technology. 15 Memory card cover

16 Memory card slot

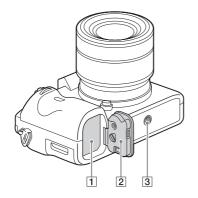
* For details on compatible accessories for the multi interface shoe and the Multi/Micro USB Terminal, visit the Sony website, or consult your Sony dealer or local authorized Sony service facility.

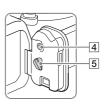
You can also use accessories that are compatible with the accessory shoe. Operations with other manufactures' accessories are not guaranteed.



Accessory Shoe

Bottom view





- **1** Battery insertion slot (48)
- 2 Battery cover (48)
- 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 locking button
- **5** Battery cover release lever
 - When you attach a vertical grip (sold separately), remove the battery cover.

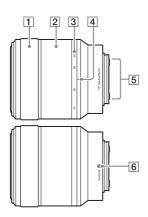
Connection plate cover

Use this when using an AC-PW20 AC Adaptor (sold separately). Insert the connection plate into the battery compartment, and then pass the cord through the connection plate cover as shown below.



• Make sure that the cord is not pinched when you close the cover.

Lens FE 28-70 mm F3.5-5.6 OSS (Supplied with ILCE-7M2K)



- 1 Focusing ring
- 2 Zoom ring
- 3 Focal-length scale
- 4 Focal-length index
- 5 Lens contacts*
- 6 Mount index
- * Do not touch this part directly.

List of icons on the monitor

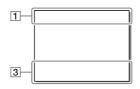
The status of the monitor is set to [Display All Info.] in the default settings. When you change the [DISP Button] setting, and press DISP on the control wheel, the screen status will change to the viewfinder mode. You can also display the histogram by pressing DISP. The displayed contents and their position shown below are just a guideline, and may differ from the actual display.

Monitor mode

For playback

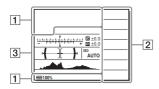
Histogram display

Basic information display

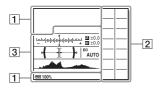


Viewfinder mode

Auto Mode or Scene Selection mode



P/A/S/M/Sweep Panorama mode





List of icons on the monitor

1	
Display	Indication
i O i O⁺ P P*AS M 2' >>) O ((2)) i⊞ EP ⊞A ES EM	Shooting mode (69)
1 2 M 2 M 4	Register number (69)
) ** A 23 22 24 24 25 25 25 25 24 26 25 25 26 25 25 26 25 27 26 27 26 27 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Scene Recognition icons
 NO CARD A B B 0FF B 1 B 1 B 1 B 1 B 1 B 1 	Memory card (53)/ Upload (44)
100	Remaining number of recordable images
3:2 16:9	Aspect ratio of still images (36)
24M 20M 10M 8.7M 6.0M 5.1M 2.6M 2.2M WIDE STD	Image size of still images (36)
RAW RAW+J X.FINE FINE STD	Image quality of still images (36)
60p 60i 30p 24p 50p 50i 25p	Frame rate of movies

Display	Indication
50 FX FH PS 1080 VGA	Image size of movies (73)
¢ZZZI 100%	Remaining battery (51)
	Remaining battery warning
4.	Flash charge in progress
	APS-C Size Capture (41)
VIEW	Setting Effect OFF (40)
€ _{ON}	AF Illuminator (37)
N	NFC is activated
Ł	Airplane Mode
₽ _{OFF}	No audio recording of movies (39)
Ū	Wind Noise Reduction (39)
((₩))FF ((₩ 2 8	SteadyShot/Camera shake warning (59)
((Ψ))©1 ⊫ 8mm ((Ψ)) 8mm	SteadyShot Focal Length/Camera shake warning (59)
[1]	Overheating warning
FULL ERROR	Database file full/ Database file error
Տ [֎] , շ֎ ր֎	Smart Zoom/Clear Image Zoom/Digital Zoom
↔ +++-}•	Digital level gauge
(H1	Audio level (75)

Before use

Display	Indication
	View Mode (67)
PMP4	
AVCHD	
XAVC S	
100-0003	Folder - file number
o	Protect (43)
XAVC S	Recording mode of
AVCHD MP4	movies
DPOF	DPOF set
	Auto Object Framing
501 FH	Dual Video REC (36)
-PC-	PC Remote

2

Display	Indication
○ ③10 ③3 ◎ C ■ S 0.3 ev ● MWB ■ 20000 HI L0	Drive mode (36)
③ [★] [↓]	Flash mode (36)/Red- eye reduction (36)
∰ ±0.0	Flash compensation (36)
AF-S AF-C MF DMF	Focus mode (36)
	AF area
	Face Detection/Smile Shutter (38)
• • •	Metering mode (37)

Display	Indication
35mm	Lens focal length
AWB * ▲ ▲ 小 崇-1 崇 ⁰ 崇+1 崇+2 型 ▲ ▲ 7500K A5 G5	White balance (Auto, Preset, Underwater Auto, Custom, Color temperature, Color filter) (37)
OFF AUTO AUTO	D-Range Optimizer/ Auto HDR (72)
Stat. Vividi Fettat Chari Const Liphit Fort. Limit Samit Figuri Aunit Brivit Samit Brivit Brivit Hamit Aunit Brivit Hamit Aunit Brivit Hamit Aunit Brivit	Creative Style (71)/ Contrast, Saturation, Sharpness
	Picture Effect (37)
	Smile detection sensitivity indicator
PP1 - PP7 PP OFF	Picture Profile (74)

3

Display	Indication
● Lock-on AF	Lock-on AF guide
-50403(201000102030405+	EV scale
MM MM	Exposure compensation (37)/Metered Manual
REC 0:12	Recording time of the movie (m:s)
• ()) ())	Focus
1/250	Shutter speed
F3.5	Aperture Value
ISO400 ISO AUTO	ISO sensitivity (37)
* \$∟	AE lock/FEL lock
+ 2019-046	Shutter speed indicator
血阴神 华. 1. 2. 4	Aperture indicator
	Histogram
D=R OFF DRO HDR) HDR) P	D-Range Optimizer/ Auto HDR/Auto HDR image warning
* 8 * 8	Picture Effect error
2014-1-1 10:37PM	Date of recording
3/7	File number/Number of images in the view mode
	REC Control
0	Spot metering area
00:00:00:00	Time code (hour:minute:second: frame) (74)

Functions that can be operated using the buttons/dials

You can set up or operate various functions using these buttons/dials. For the location of the buttons/dials, see "Identifying parts" (page 17).

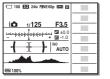
Mode dial (69)	Switches the shooting mode.
Mode dial (09)	Switches the shooting mode.
MENU button (35)	Displays the menu screen for setting menu items.
MOVIE button (65)	Records movies.
AF/MF button/AEL button/	Switches the autofocus and manual focus temporarily./ Fixes the exposure of the entire screen./Displays multiple images on the screen simultaneously.
🕀 button (76)	Scales an image up when viewing images.
Fn button (33)/≁ੇ button	Displays the setup screen for functions set using the Fn button. In [For viewfinder] screen, switches to the Quick Navi screen./In playback mode, pressing 2 button switches to "Send to Smartphone" screen.
Exposure compensation dial	Sets the range for exposure adjustment.
▶ button (66)	Plays back images.
亩 button (68)	Deletes images.
Custom button	Assigns a frequently-used function to the button. The following function is assigned to each button in the default settings. C1 (Custom 1) button: White Balance C2 (Custom 2) button: Focus Settings C3 (Custom 3) button: Focus Mode C4 (Custom 4) button: Not set

How to use the Quick Navi screen

Using the Quick Navi screen, you can change settings directly on the recording information display when the screen mode is set to [For viewfinder] (Quick Navi). The displayed contents and their position shown below are just a guideline, and may differ from the actual display.

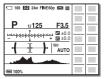
- 1 MENU button → ☆ (Custom Settings) → [DISP Button] → [Monitor] → [For viewfinder] → [Enter]
- **2** Press the DISP on the control wheel to set the screen mode to [For viewfinder].
- **3** Press the Fn button to switch to the Quick Navi screen.

In Auto Mode or Scene Selection mode



1/125	
	F3.5
Totalalala alalalari	±0.0 221-1.0
i n 192 🕬 🎕	ISO AUTO

In P/A/S/M/Sweep Panorama mode





4 Select the desired item with $A/\nabla/\langle/\rangle$ on the control wheel.

$\mathbf{5}$ Set the item with the front dial.

- Some setting values can be finely adjusted by turning the rear dial.
- Pressing the center of the control wheel turns on the designated screen used to set up the selected item (page 31).
- Pressing the Fn button again turns off the Quick Navi screen and the screen goes back to the original one.

Drive Mode	Flash Mode	Flash Comp.
Focus Mode	Focus Area	Exposure Comp.
ISO	Metering Mode	White Balance
	e	Picture Effect
DRO/Auto HDR	Creative Style	
Picture Profile	Smile/Face Detect.	Image Size
Aspect Ratio	C Quality	SteadyShot
Auto Mode	Scene Selection	Peaking Level

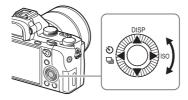
Functions available on the Quick Navi screen

Notes

- · Gray items on the Quick Navi screen are not available.
- When using [Creative Style] (page 71) or [Picture Profile] (page 74), some of the setup tasks can be accomplished only on a designated screen.

Operating the camera

How to use the control wheel

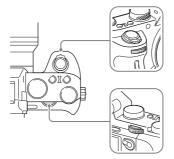


- You can turn the control wheel or press up/down/left/right on the control wheel to move the selection frame. Press in the center of the control wheel to set the selected item. In this manual, the action of pressing the up/down/left/right side of the control wheel is indicated by ▲/▼/◄/►.
- The following functions are assigned to $\blacktriangle/\checkmark$ on the control wheel.

	DISP	Changes the screen display.
►	ISO	ISO sensitivity
•	\$/⊒	Drive Mode • Cont. Shooting/Bracket • Self-timer

- You can assign a desired function to the V/√/>>/● buttons and to the control wheel turning position in shooting mode.
- When you turn the control wheel or press ◄/► on the control wheel in playback mode, you can display the previous or next image.

How to use the front dial/rear dial



You can turn the front dial or rear dial to change the settings required for each shooting mode with immediate effect.

Selecting a function using the Fn (Function) button

This button is used for setting up or executing functions used frequently in shooting, except for functions from the Quick Navi screen.

- 1 Press the DISP on the control wheel to set the screen mode to other than [For viewfinder].
- 2 Press the Fn button.

3 Select the desired item using $\blacktriangle / \checkmark / \checkmark / \triangleright$ on the control wheel.

The setting screen appears.

4 Select the desired setting by turning the front dial, then press ● on the control wheel.

• Some setting values can be finely adjusted by turning the rear dial.

To set the individual settings in the dedicated screen

In step 3, select a setting item and press \bullet on the control wheel to switch to the dedicated screen for the setting item. Set the items according to the Operation guide.

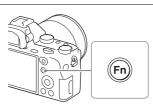




Operation guide

AF-C

.....



Functions that can be registered using the Fn (Function) button

You can select the functions to be displayed when you press the Fn (Function) button.

MENU button $\rightarrow rac{l}{l}$ (Custom Settings) \rightarrow [Function Menu Set.] \rightarrow Assign the function to the desired location.

The functions that can be selected using the Fn button are as follows:

Drive Mode	Flash Mode	Flash Comp.
Focus Mode	Focus Area	Exposure Comp.
ISO	Metering Mode	White Balance
DRO/Auto HDR	Creative Style	Shoot Mode
Picture Effect	Picture Profile	Center Lock-on AF
Smile/Face Detect.	Soft Skin Effect	Auto Obj. Framing
Image Size	Aspect Ratio	🗠 Quality
SteadyShot	SteadyShot Adjust.	SteadyS. Focal Len.
Audio Rec Level	Zebra	Grid Line
Harker Display	Audio Level Display	Peaking Level
Peaking Color	Not set	

Functions that can be selected using the MENU button

You can set up the basic settings for the camera as a whole, or execute functions such as shooting, playback, or other operations.

1 Press the MENU button to display the menu screen.

- 2 Select the desired setting item using ▲/▼/◄/► on the control wheel or by turning the control wheel, and then press ● on the center of the control wheel.

 Select an icon at the top of the screen and press the ◄/► on the control wheel to move to another MENU item.

3 Select the setting value, then press ullet to confirm.

To display the Tile Menu

Allows you to select whether to always display the first screen of the menu when you press the MENU button.

MENU button $\rightarrow \textcircled{a}$ (Setup) \rightarrow [Tile Menu] \rightarrow [On]

Camera Settings)

🖂 Image Size	Selects the size of still images. (L: 24M/M: 10M/S: 6.0M (3:2) L: 20M/M: 8.7M/S: 5.1M (16:9) L: 10M/M: 6.0M/S: 2.6M (APS-C size, 3:2) L: 8.7M/M: 5.1M/S: 2.2M (APS-C size, 16:9))
🖂 Aspect Ratio	Selects the aspect ratio for still images. (3:2/16:9)
🖂 Quality	Sets the image quality for still images. (RAW/RAW & JPEG/Extra fine/Fine/Standard)
Panorama: Size	Selects the size of panoramic images. (Standard/Wide)
Panorama: Direction	Sets the shooting direction for panoramic images. (Right/Left/Up/Down)
目目 File Format	Selects the movie file format. (XAVC S/AVCHD/MP4)
群 Record Setting	Selects the quality and size of the recorded movie frame. (XAVC S: 60p 50M/50p 50M/30p 50M/25p 50M/24p 50M* ¹ AVCHD: 60i 24M(FX)/50i 24M(FX)/60i 17M(FH)/50i 17M(FH)/60p 28M(PS)/50p 28M(PS)/24p 24M(FX)/25p 24M(FX)/24p 17M(FH)/25p 17M(FH) MP4: 1440×1080 12M/VGA 3M)
Dual Video REC	Sets whether to simultaneously record an XAVC S movie and MP4 movie or an AVCHD movie and MP4 movie. (On/Off)
Drive Mode	Sets the drive mode, such as for continuous shooting. (Single Shooting/Cont. Shooting/Self-timer/Self- timer(Cont)/Cont. Bracket/Single Bracket/WB bracket/DRO Bracket)
Flash Mode	Sets the flash settings. (Flash Off/Autoflash/Fill-flash/Slow Sync./Rear Sync./ Wireless)
Flash Comp.	Adjusts the intensity of flash output. (-3.0EV to +3.0EV)
Red Eye Reduction	Reduces the red-eye phenomenon when using flash. (On/Off)
Focus Mode	Selects the focus mode. (Single-shot AF/Continuous AF/DMF/Manual Focus)

Focus Area	Selects the area of focus. (Wide/Zone/Center/Flexible Spot/Lock-on AF)
Focus Settings	Allows you to focus using the front dial, rear dial or control wheel.
△→ AF Illuminator	Sets the AF illuminator, which provides light for a dark scene to aid focusing. (Auto/Off)
Exposure Comp.	Compensates for the brightness of the entire image. (-5.0EV to +5.0EV)
Exposure step	Selects the size of the increment step for shutter speed, aperture, and exposure. (0.5EV/0.3EV)
ISO	Sets the ISO sensitivity. (Multi Frame NR/ISO AUTO/ISO 50 to ISO 25600)
Metering Mode	Selects the method for measuring brightness. (Multi/Center/Spot)
White Balance	Adjusts the color tone of images. (Auto/Daylight/Shade/Cloudy/Incandescent/Fluor.: Warm White/Fluor.: Cool White/Fluor.: Day White/Fluor.: Daylight/Flash/Underwater Auto/C.Temp./Filter/Custom 1- 3/Custom Setup)
DRO/Auto HDR	Compensates automatically for brightness and contrast. (Off/D-Range Opt./Auto HDR)
Creative Style	Selects the desired image processing. You can also adjust contrast, saturation, and sharpness. (Standard/Vivid/Neutral/Clear/Deep/Light/Portrait/ Landscape/Sunset/Night Scene/Autumn leaves/Black & White/Sepia/Style Box1-6)
Picture Effect	Shoots images with a texture unique to the selected effect. (Off/Toy Camera/Pop Color/Posterization/Retro Photo/Soft High-key/Partial Color/High Contrast Mono./Soft Focus/ HDR Painting/Rich-tone Mono./Miniature/Watercolor/ Illustration)
Picture Profile	Changes settings such as color and tone when recording movies. (Off/PP1 - PP7)
Zoom	Sets the zoom scale for Clear Image Zoom and Digital Zoom.
Focus Magnifier	Enlarges the image before shooting so that you can check the focus.

다 Long Exposure NR	Sets noise reduction processing for shots with a shutter speed of 1 second or longer. (On/Off)
쯔 High ISO NR	Sets noise reduction processing for high-sensitivity shooting. (Normal/Low/Off)
Center Lock-on AF	Sets the function to track a subject and continue focusing when pressing the center button in the shooting screen. (Off/On)
Smile/Face Detect.	Selects to detect faces and adjust various settings automatically. Sets to automatically release the shutter when a smile is detected. (Off/On (Regist. Faces)/On/Smile Shutter)
∽ Soft Skin Effect	Sets the Soft Skin Effect and the effect level. (On: High/On: Mid/On: Low/Off)
주 Auto Obj. Framing	Analyzes the scene when capturing faces, close-ups, or subjects tracked by Lock-on AF function, and automatically trims and saves another copy of the image with a more impressive composition. (Off/Auto)
Auto Mode	You can shoot selecting either Intelligent Auto or Superior Auto. (Intelligent Auto/Superior Auto)
Scene Selection	Selects pre-set settings to match various scene conditions. (Portrait/Sports Action/Macro/Landscape/Sunset/Night Scene/Hand-held Twilight/Night Portrait/Anti Motion Blur)
Movie	Selects the exposure mode to suit your subject or effect. (Program Auto/Aperture Priority/Shutter Priority/Manual Exposure)
SteadyShot	Sets SteadyShot for shooting still images or movies. Reduces blur from camera shake when shooting while holding the camera. (On/Off)
SteadyShot Settings	Sets SteadyShot settings. (SteadyShot Adjust./SteadyS. Focal Len.)
Color Space	Changes the range of reproducible colors. (sRGB/AdobeRGB)
川 Auto Slow Shut.	Sets the function that automatically adjusts the shutter speed following the brightness of the environment in movie mode. (On/Off)

Audio Recording	Sets whether to record audio when shooting a movie. (On/Off)
Audio Rec Level	Adjusts the audio recording level during movie recording. (0 to 31)
Audio Out Timing	Sets the timing of audio output during the movie recording. (Live/Lip Sync)
Wind Noise Reduct.	Reduces wind noise during movie recording. (On/Off)
Memory recall	Calls up settings pre-registered in [Memory]. (1/2/M1-M4)
Memory	Registers the desired modes or camera settings. (1/2/M1-M4)

(Custom Settings)

Zebra	Displays stripes to adjust brightness. (Off/70 to 100/100+)
따 MF Assist	Displays an enlarged image when focusing manually. (On/Off)
Focus Magnif. Time	Sets the length of time the image will be shown in an enlarged form. (2 Sec/5 Sec/No Limit)
Grid Line	Sets a grid line display to enable alignment to a structural outline. (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off)
ដ 自 Marker Display	Sets whether to display the marker on the monitor when recording movies. (On/Off)
担 Marker Settings	Sets the marker displayed on the monitor when recording movies. (Center/Aspect/Safety Zone/Guideframe)
Audio Level Display	Sets Audio Level Display. (On/Off)
Auto Review	Sets auto review to display the captured image after shooting. (10 Sec/5 Sec/2 Sec/Off)
DISP Button	Sets the type of information to be displayed on the monitor or in the viewfinder by pressing DISP on the control wheel. (Monitor/Finder)

Peaking Level	Enhances the outline of in-focus ranges with a specific color when focusing manually. (High/Mid/Low/Off)
Peaking Color	Sets the color used for the peaking function. (Red/Yellow/White)
Exposure Set. Guide	Sets the guide displayed when exposure settings are changed in the shooting screen. (Off/On)
Live View Display	Sets whether to reflect settings such as exposure compensation in screen display. (Setting Effect ON/Setting Effect OFF)
Disp. cont. AF area	Sets whether or not to display the focus area in [Continuous AF] mode. (On/Off)
Phase Detect. Area	Sets phase detection AF area. (On/Off)
주 Pre-AF	Sets whether to perform auto focus before the shutter button is half pressed. (On/Off)
Zoom Setting	Sets whether to use the Clear Image Zoom and Digital Zoom when zooming. (Optical zoom only/On:ClearImage Zoom/On:Digital Zoom)
☞ Eye-Start AF	Sets whether to use auto focus when you look through the viewfinder if an LA-EA2/LA-EA4 Mount Adaptor (sold separately) is attached. (On/Off)
FINDER/MONITOR	Sets the method for switching between the viewfinder and the monitor. (Auto/Viewfinder/Monitor)
Release w/o Lens	Sets whether shutter can open when the lens is not attached. (Enable/Disable)
AF w/ shutter	Sets whether to perform AF when the shutter button is half pressed. This is useful when you want to adjust the focus and exposure separately. (On/Off)
쯔쿠 AEL w/ shutter	Sets whether to adjust the exposure by pressing the shutter button halfway down. This is convenient when you want to adjust the focus and exposure separately. (Auto/On/Off)

e-Front Curtain Shut.	Sets whether to use the electronic front curtain shutter function. (On/Off)
S. Auto Img. Extract.	Sets whether to save all the images that were shot continuously in [Superior Auto]. (Auto/Off)
Exp.comp.set	Sets whether to reflect exposure compensation value to flash compensation. (Ambient&flash/Ambient only)
Reset EV Comp.	Sets whether to retain the exposure value set without using the exposure dial, or reset the exposure value to 0 when you turn off the camera. (Maintain/Reset)
Bracket order	Sets order of shooting for exposure bracket and white balance bracket. $(0 \rightarrow - \rightarrow +/- \rightarrow 0 \rightarrow +)$
Face Registration	Registers or changes the person to be given priority in the focus. (New Registration/Order Exchanging/Delete/Delete All)
APS-C Size Capture	Sets whether or not to record with an APS-C size-equivalent area. (On/Auto/Off)
AF Micro Adj.	Allows you to make fine adjustments to the position of the focus when an LA-EA2/LA-EA4 Mount Adaptor (sold separately) is attached. (AF Adjustment Set./amount/Clear)
Lens Comp.	Compensates for distortion on the screen caused by the lens attached. (Shading Comp./Chro. Aber. Comp./Distortion Comp.)
Function Menu Set.	Customizes the functions displayed when the Fn (Function) button is pressed. (Drive Mode/Flash Mode/Flash Comp./Focus Mode/Focus Area/Exposure Comp./ISO/Metering Mode/White Balance/ DRO/Auto HDR/Creative Style/Shoot Mode/Picture Effect/ Picture Profile/Center Lock-on AF/Smile/Face Detect./ Soft Skin Effect/ Auto Obj. Framing/ Image Size/ Soft Skin Effect/ Quality/SteadyShot/SteadyShot Adjust./SteadyS. Focal Len./Audio Rec Level/Zebra/Grid Line/ Marker Display/Audio Level Display/Peaking Level/Peaking Color/Not set)

Custom Key Settings	Assigning functions to the various keys allows you to speed up operations by pressing the keys. (Control Wheel/Custom Button 1/Custom Button 2/Custom Button 3/Custom Button 4/Center Button/Left Button/Right Button/Down Button/AEL Button/AF/MF Button/Focus Hold Button*) * You can assign a function to the focus hold button on the lens.
Dial Setup	Sets the functions of the front and rear control dials when the exposure mode is set to M. Dials can be used for adjusting shutter speed and aperture. (#SS #F/no. / #F/no. #SS)
Dial Ev Comp	Compensates the exposure with the front or rear dial. (Off/ <u></u>
Zoom Ring Rotate	Assigns the zoom in/out to the rotational direction of the zoom lens. This function is only available with a power zoom lens that is compatible with this function. (Left(W)/Right(T) or Right(W)/Left(T))
MOVIE Button	Enables or disables for the MOVIE button. (Always/Movie Mode Only)
Dial / Wheel Lock	Sets whether to disable the front dial, rear dial or control wheel by pressing and holding down the Fn button. (Lock/Unlock)

🔊 (Wireless)

Send to Smartphone	Transfers images to display on a smartphone. (Select on This Device/Select on Smartphone)
Send to Computer	Backs up images by transferring them to a computer connected to a network.
View on TV	You can view images on a network-enabled TV.
One-touch(NFC)	Assigns one application to One-touch (NFC). You can call up the application when shooting by touching an NFC-enabled Smartphone to the camera.
Airplane Mode	You can set this device to not perform wireless communications. (On/Off)
WPS Push	You can register the access point to the camera easily by pushing the WPS button.
Access Point Set.	You can register your access point manually.

Edit Device Name	You can change the device name under Wi-Fi Direct, etc.
Disp MAC Address	Displays the MAC address of the camera.
SSID/PW Reset	Resets the SSID and password of smartphone connection.
Reset Network Set.	Reset all network settings.

📰 (Application)

You can connect to the PlayMemories Camera AppsTM download site via the Internet to add desired functions to your camera.

► (Playback)

Delete	Deletes an image. (Multiple Img./All in this Folder/All with this date)
View Mode	Plays back images from a specified date or specified folder of still images and movies. (Date View/Folder View(Still)/Folder View(MP4)/AVCHD View/XAVC S View)
Image Index	Displays multiple images at the same time. (9 Images/25 Images)
Display Rotation	Sets the playback direction of the recording image. (Auto/Manual/Off)
Slide Show	Shows a slide show. (Repeat/Interval)
Rotate	Rotates the image.
⊕ Enlarge Image	Enlarges the playback images.
4K Still Image PB	Outputs still images in 4K resolution to an HDMI connected TV that supports 4K.
Protect	Protects the images. (Multiple Img./All in this Folder/All with this date/Cancel All in this Folder/Cancel All with this date)
Specify Printing	Adds a print order mark to a still image. (Multiple Img./Cancel All/Print Setting)

🔹 (Setup)

Monitor Brightness	Sets the screen brightness. (Manual/Sunny Weather)
Viewfinder Bright.	Sets the brightness of the electronic viewfinder. (Auto/Manual)
Finder Color Temp.	Sets the color temperature of the viewfinder.
Volume Settings	Sets the volume for movie playback.
Audio signals	Sets whether to sound a beep during auto focus or self-timer operations. (On/Off)
Upload Settings	Sets the upload function of the camera when using an Eye-Fi card. (On/Off)
Tile Menu	Sets whether to display the tile menu every time you press the MENU button. (On/Off)
Mode Dial Guide	Turns the mode dial guide (the explanation of each shooting mode) on or off. (On/Off)
Delete confirm.	Sets whether Delete or Cancel is preselected in the Delete confirmation screen. ("Delete" first /"Cancel" first)
Display Quality	Sets the display quality. (High/Standard)
Pwr Save Start Time	Sets the time intervals to automatically switch to power save mode. (30 Min/5 Min/2 Min/1 Min/10 Sec)
PAL/NTSC Selector*2	By changing the TV format of the device, shooting in a different movie format is possible.
Cleaning Mode	Starts the cleaning mode to clean the image sensor.
Demo Mode	Sets demonstration playback of a movie to on or off. (On/Off)
TC/UB Settings	Sets the time code (TC) and user bit (UB). (TC/UB Disp. Setting/TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec)
Remote Ctrl	Sets whether to use the infrared remote control. (On/Off)

HDMI Settings	Sets the HDMI settings. (HDMI Resolution/## 24p/60p Output* ¹ /HDMI Info. Display/## TC Output/## REC Control/CTRL FOR HDMI)
USB Connection	Sets the USB connection method. (Auto/Mass Storage/MTP/PC Remote)
USB LUN Setting	Enhances compatibility by limiting the functions of USB connection. Set to [Multi] in normal conditions and to [Single] only when the connection between the camera and a computer or AV component cannot be established. (Multi/Single)
Language	Selects the language.
Date/Time Setup	Sets date and time, and daylight savings.
Area Setting	Sets the location of use.
Format	Formats the memory card.
File Number	Sets the method used to assign file numbers to still images and movies. (Series/Reset)
Select REC Folder	Changes the selected folder for storing still images and movies (MP4).
New Folder	Creates a new folder for storing still images and movies (MP4).
Folder Name	Sets the folder format for still images. (Standard Form/Date Form)
Recover Image DB	Recovers the image database file and enables recording and playback.
Display Media Info.	Displays the remaining recording time of movies and the recordable number of still images on the memory card.
Version	Displays the camera software version.

Certification Logo*3	The certification can be displayed on the camera.
	Restores settings to their defaults. Select [Initialize] to restore all settings to their default values. (Initialize/ Camera Settings Reset)

*1 Only for 1080 60i compatible models.

*2 Only for 1080 50i compatible models.

If you switch this item, it will be required to format the memory card in the setting compatible with the PAL or NTSC system respectively. Also, note that it may not be possible to play back movies recorded with the NTSC system on a PAL system TV.

*3 Overseas model only.

Using the In-Camera Guide

You can use [Custom Key Settings] to assign In-Camera Guide to the desired button.

The In-Camera Guide displays explanations for the currently selected menu function or setting.

MENU button $\rightarrow \mathbf{x}$ (Custom Settings) \rightarrow [Custom Key Settings] \rightarrow Select the desired button assigned to the function. \rightarrow [In-Camera Guide]

Press the MENU button and use the control wheel to select a MENU item whose explanation you want to read, and then press the button to which [In-Camera Guide] is assigned.

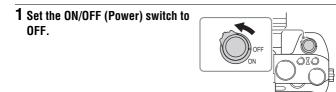
Charging the battery pack

When using the camera for the first time, be sure to charge the NP-FW50 battery pack (supplied).

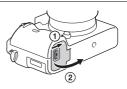
The InfoLITHIUMTM battery pack can be charged even when it has not been fully depleted.

It can also be used when it has not been fully charged.

The charged battery pack is discharged little by little, even when you do not use it. To avoid missing an opportunity to shoot, charge the battery pack again before shooting.



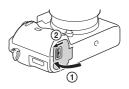
2 Slide the lever to open the cover.



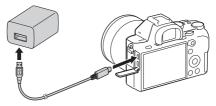
3 Insert the battery pack completely, using the tip of the battery to press the lock lever.



4 Close the cover.



5 Connect the camera to the AC Adaptor (supplied) using the micro USB cable (supplied), and connect the AC Adaptor to the wall outlet (wall socket).



The charge lamp lights orange, and charging starts.

- Turn off the camera while charging the battery.
- When the charge lamp flashes and charging is not finished, remove and re-insert the battery pack.
- For countries/regions other than the USA and Canada, connect the power cord to the AC Adaptor, and connect the AC Adaptor to the wall outlet (wall socket).



Charge lamp Lit: Charging Off: Charging finished Flashing:

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

Notes

- 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 in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- Connect the AC Adaptor (supplied) to the nearest wall outlet (wall socket). If malfunctions occur while using the AC Adaptor, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source.
- When you charge the battery for the first time or after an extended period of disuse, the charge lamp may flash rapidly. If that happens, remove the battery pack from the camera and then re-insert it to recharge.
- Do not continuously or repeatedly charge the battery 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 cable (supplied) and AC Adaptor (supplied).

Charging time (Full charge)

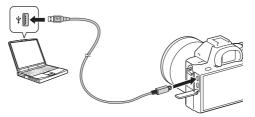
The charging time is approximately 150 min. using the AC Adaptor (supplied).

Notes

 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.

Charging by connecting to a computer

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



Notes

- If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not charge for an extended period of time.
- Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. The camera may cause a malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera and the computer.
- No guarantees are made for charging using a custom-built computer or a modified computer.

Checking the remaining battery charge

A remaining charge indicator appears on the screen.



Notes

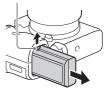
· The remaining charge indicator may not be correct under certain circumstances.

To remove the battery pack

Turn off the camera. Slide the lock lever after confirming that the access lamp (page 19) is off, and remove the battery pack.

Be sure not to drop the battery pack.

Lock lever



Inserting a memory card (sold separately)





2 Insert the memory card.

• With the notched corner facing as illustrated, insert the memory card until it clicks into place.



Ensure the notched corner faces correctly.

3 Close the cover.



To remove the memory card

Make sure that the access lamp (page 19) is not lit, then push the memory card in once.

Memory cards that can be used

You can use the following types of memory cards with this camera. However, proper operation cannot be guaranteed for all types of memory cards.

	Memory card	For still images	For movies
	Memory Stick PRO Duo™	 	✓ (Mark2 only)
Α	Memory Stick PRO-HG Duo™	 	\checkmark
	Memory Stick XC-HG Duo™	 	\checkmark
	SD memory card	 	✓ (Class 4 or faster)
в	SDHC memory card	 	✓ (Class 4 or faster)
	SDXC memory card	 	✓ (Class 4 or faster)

• In this manual, the products in the table are collectively referred to as follows:

A: Memory Stick PRO Duo media

B: SD card

When recording XAVC S format movies

Use the following memory cards:

- SDXC memory card (64 GB or more and Class 10 or faster)
- SDXC memory card (64 GB or more and UHS-I (U1))
- Memory Stick XC-HG Duo media

Notes

 Images recorded on a Memory Stick XC-HG Duo media or an SDXC memory card cannot be imported to or played on computers or AV devices that are not compatible with exFAT*. 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 Memory Stick XC-HG Duo media and SDXC memory cards.

^{GB}

Preparing the camera

Body cap

Attaching a lens

Set the power switch of the camera to OFF before you attach or remove the lens.

1 Remove the body cap from the camera and the rear lens cap from the rear of the lens.

- When changing the lens, quickly change the lens away from dusty locations to keep dust or debris from getting inside the camera.
- When shooting, remove the front lens cap from the front of the lens.

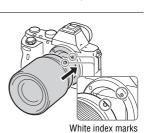
2 Mount the lens by aligning the white index marks (mounting indexes) on the lens and camera.

• Hold the camera with the lens facing down to prevent dust from entering into the camera.

3 While pushing the lens lightly toward the camera, turn the lens clockwise until it clicks into the locked position.

• Be sure to put the lens on straight.





Rear len's cap

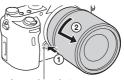
Front lens cap

Notes

- · When attaching a lens, do not press the lens release button.
- Do not use force when attaching a lens.
- The Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). To use the Mount Adaptor, refer to the operating manual supplied with the Mount Adaptor.
- When you want to shoot full-frame images, use a lens designed for a full-frame camera.
- 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 the zoom or focus adjustment.

To remove the lens

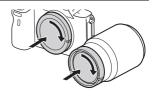
1 Press the lens release button all the way in and turn the lens counterclockwise until it stops.



Lens release button

2 Attach the caps to the front and rear of the lens and the body cap to the camera.

• Before you attach them, remove any dust from them.



Notes on changing the lens

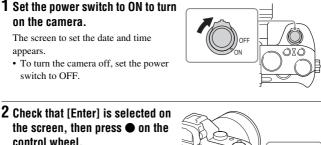
When changing the lens, if dust or debris gets inside the camera and adheres to the surface of the image sensor (the part that converts the light to an electric signal), it may appear as dark spots on the image, depending on the shooting environment.

Make sure to quickly change the lens away from dusty locations when attaching/removing a lens.

er you initialize the

Setting the date and time

When you turn on the camera for the first time or after you initialize the functions, the screen to set the date and time appears.



3 Select a desired geographic location, and then press ullet.

- 4 Press ▲/▼ on the control wheel, or select a setting item by turning the control wheel, then press ●.
- 5 Press ▲/▼/◀/►, or select a desired setting by turning the control wheel, then press ●.
- 6 Repeat steps 4 and 5 to set other items, then select [Enter] and press on the control wheel.

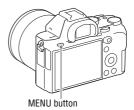
To cancel the date and time setting operation

Press the MENU button.

Checking or resetting the date/time and area

The date and time setup screen appears automatically when the power is turned on for the first time or when the internal rechargeable backup battery has been discharged. To reset the date and time, use the menu.

MENU button → 🚘 (Setup) → [Date/Time Setup] or [Area Setting]



Notes

This camera does not have a function to insert the date on an image. You can insert
the date and save or print the image by using PlayMemories Home (page 83).

Maintaining the date and time setting

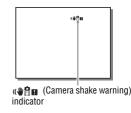
This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not.

Shooting a clear image without camera shake

"Camera shake" refers to unwanted movement of the camera that occurs after the shutter button has been pressed, resulting in a blurred image. To reduce camera shake follow the instructions below.

Camera shake warning indicator

In situations where the camera may be subject to camera-shake, the (Implied (Camera shake warning) indicator flashes. In this case, use a tripod or the flash.



Notes

- The camera shake warning indicator does not appear in the following situations:
 - The exposure mode is set to M/S, or during movie recording.
 - When the viewing mode is set to [No Disp. Info.], [Level], or [Histogram].

Using the SteadyShot function

This function allows you to shoot with the optimal camera shake compensation for the lens you are using.

1 MENU button \rightarrow (Camera Settings) \rightarrow [SteadyShot] \rightarrow [On]

2 [SteadyShot Settings] \rightarrow [SteadyShot Adjust.] \rightarrow Select the desired setting.

Auto	Analyzes the lens information and automatically compensates for camera shake.
Manual	Compensates for camera shake using the focal length set with [SteadyS. Focal Len.] (8mm – 1000mm). • Set the focal length of the lens for shooting.

Notes

- 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, deactivate the SteadyShot function because there is a potential for malfunction of the SteadyShot function.
- 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.
- When the camera cannot obtain focal length information from the lens, or [SteadyShot Adjust.] is set to [Manual], the current set value of the SteadyShot focal length will display to the side of ((#)).
- When using a Sony lens with a teleconverter, etc., set [SteadyShot Adjust.] to [Manual] and set the focal length.

Holding the camera properly

Stabilize your upper body and take a position that keeps the camera from moving.



Point ①

One hand holds the grip of the camera, and the other hand supports the lens.

Point @

Take a secure stance with your feet shoulder-width apart.

Point 3

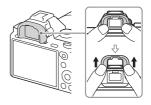
Lightly tuck your elbows against your body.

When shooting in a kneeling position, steady your upper body by placing your elbow on your knee.

Removing the Eyepiece cup

When attaching the FDA-A1AM Angle Finder (sold separately) to the camera, remove the Eyepiece cup.

Put your fingers under the Eyepiece cup, and slide it upward.



Notes

 When an FDA-A1AM Angle Finder (sold separately) is attached to the camera, switch the display between the viewfinder and the screen by setting [FINDER/ MONITOR] in (Custom Settings).

Shooting still images

In [Auto Mode], the camera analyzes the subject and allows you to shoot with the appropriate settings.

1 Set the power switch to ON to turn on the camera.

2 Set the mode dial to Auto Mode).

${f 3}$ Look into the viewfinder and hold the camera.

4 Determine the size of a subject.

When using a lens with a zoom lever: Move the zoom lever. When using a lens with a zoom ring: Turn the zoom ring.

- The optical zoom is not available when a fixed focal length lens is mounted.
- If the zoom range of the optical zoom is exceeded when a Power zoom lens is mounted, the camera automatically switches over to the zoom other than the optical zoom.



5 Press the shutter button halfway down to focus.

• When the image is in focus, a beep sounds and the ● or () indicator lights.



6 Press the shutter button fully down to shoot an image.

 If [Auto Obj. Framing] is set to [Auto], when shooting faces, close-up (macro) subjects, or subjects tracked by Lock-on AF, the camera analyzes the scene and automatically trims the captured image into a suitable composition. Both the original and the trimmed images will be saved.

Recording movies

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.

Notes

- The sound of the camera in operation may be recorded while recording a movie. You
 can disable the sound recording by setting [Audio Recording] to [Off] (page 39).
- 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 continuous recording time of a movie depends on the ambient temperature or the condition of the camera. See "Notes on continuous movie recording" (page 89).
- When the [1] icon appears, the temperature of the camera is too high. Turn the camera off and wait until the temperature of the camera decreases.
- When you are recording continuously for a long time, you may feel that the camera is warm. This is normal. 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.
- When shooting, the sound of the shoulder strap hooks (triangular hook) could be recorded, depending on the situation used.

Playing back images

1 Press the **button**.



2 Select an image by pressing the $\triangleleft/\triangleright$ on the control wheel.

• To play back movies, press \bullet on the control wheel.

If you press \checkmark on the control wheel while playing back a movie, the control panel will be displayed.

Control panel	Action during movie playback	
►	Playback	
11	Pause	
••	Fast forward	
••	Fast rewind	
▶	Forward slow playback	
<	Rewind slow playback	
►►	Next movie	
H4	Previous movie	
►	Frame advance	
◄	Frame rewind	
())	Volume settings	
5	Closes the control panel	

Notes

• Movies recorded using other devices may not play back on this camera.

Switching between still images and movies

To play back still images, set [View Mode] to [Folder View(Still)], and to play back movies, set [View Mode] to [Folder View(MP4)], [AVCHD View] or [XAVC S View]. When you select [Date View], both still images and movies will be displayed on the screen, sorted by date.

MENU button $\rightarrow \mathbf{E}$ (Playback) \rightarrow [View Mode] \rightarrow Select the desired mode.

Deleting images

Once you have deleted an image, you cannot restore it. Be sure that you want to delete the image before proceeding.

1 While displaying the image you want to delete, press the 窗 (Delete) button.



2 Select [Delete] with $\blacktriangle/\blacktriangledown$ on the control wheel, then press ullet .

Notes

· Protected images cannot be deleted.

Selecting a shooting mode

Turn the mode dial and set to the desired shooting mode.



The following shooting modes are available.

AUTO (Auto Mode)	Allows you to shoot still images with the settings adjusted automatically.		
P (Program Auto)	Allows you to shoot with the exposure (the shutter speed and the aperture value) adjusted automatically. The other settings can be adjusted manually.		
A (Aperture Priority)	Shoots by adjusting the aperture and changing the focus range, or by defocus the background.		
S (Shutter Priority)	Adjusts the shutter speed to show the movement of the subject.		
M (Manual Exposure)	Allows you to shoot after manually adjusting the exposure (the shutter speed and the aperture value) using the front or rear dial.		
1/2 (Memory recall)	Calls up settings pre-registered in [Memory] in the Camera Settings).		
SCN (Scene Selection)	Allows you to shoot with preset settings according to the scene.		
(Sweep Panorama)	Allows you to shoot panoramic images by combining multiple images.		
<u></u> 間 (Movie)	Allows you to change shooting settings and shoot a movie.		

Selecting a shooting mode

Functions available for each shooting mode

The functions you can use depend on the selected shooting mode. In the table below, \checkmark indicates the function is available, and a – indicates the function is not available.

Shoot	Mode	Exposure Comp.	Self-timer	Cont. Shooting	Face Detection	Smile Shutter	Auto Obj. Framing
AUTO	i Ô i Ô ⁺	-	V	~	~	~	~
SCN	0	-	\checkmark	-	\checkmark	\checkmark	\checkmark
	×.	-	-	\checkmark	\checkmark	 V 	-
	Т.	-	\checkmark	-	\checkmark	\checkmark	
		-	\checkmark	-	-	-	 V
	÷	-	\checkmark	-	-	-	 V
)	-	\checkmark	-	-	-	<
	₩	-	-	-	\checkmark	-	-
	*)	-	\checkmark	-	\checkmark	\checkmark	
	((🎒))	-	-	-	\checkmark	-	-
П		\checkmark	-	-	-	-	-
Р		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
А		 	\checkmark	\checkmark	\checkmark	\checkmark	<
S		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
М		-*	\checkmark	\checkmark	\checkmark	\checkmark	
Ш		✓*	-	-	\checkmark	-	-

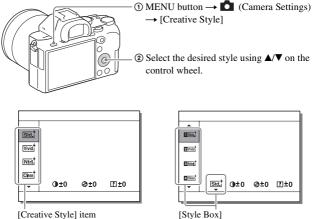
* When the shooting mode is set to M, the exposure can be adjusted only when [ISO] is set to [ISO AUTO].

Using the various functions

This manual mainly provides an introduction on the use of the camera and a list of functions. To learn more about the camera, refer to "Help Guide" (page 2), which offers in-depth instructions on the many functions.

Creative Style

You can select the desired kind of image processing from among 13 styles, and you can also adjust the contrast, saturation, and sharpness for each [Creative Style] item.



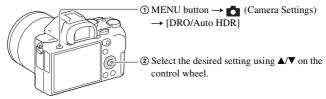
You can fine-tune the setting and save the adjusted setting.

DRO/Auto HDR

Using the [DRO/Auto HDR] function, you can capture various gradations of the contrast of images.

[D-Range Opt.]: By dividing the image into small areas, the camera analyses the contrast of light and shadow between the subject and the background, and produces an image with the optimal brightness and gradation.

[Auto HDR]: Shoots 3 images with different exposures, and then overlays the correctly exposed image, the bright areas of an under exposed image and the dark areas of an over exposed image to create an image with rich gradation.



🖽 File Format

MENU button \rightarrow **(**Camera Settings) \rightarrow [**!!!** File Format] \rightarrow Select the desired mode.

XAVC S	Records XAVC S movies (24p*/30p/25p/60p/50p). This format supports higher bit-rates than AVCHD or MP4. Audio: LPCM * Only for 1080 60i compatible models.
AVCHD	Records AVCHD movies (60i/50i/24p/25p/60p/50p). This format is suitable for viewing movies on a high definition TV. You can create a Blu-ray Disc, an AVCHD recording disc, or a DVD-Video disc using the software PlayMemories Home. Audio: Dolby Digital
MP4	Records MP4 (AVC) movies. This format is suitable for WEB uploads, e-mail attachments, etc. Audio: AAC

Notes

- When shooting with [] File Format] set to [XAVC S], an SDXC memory card (64 GB or more and Class 10 or faster) is required (page 54).
- You cannot create a disc using the software PlayMemories Home with a movie that was recorded when [] File Format] was set to [XAVC S] or [MP4].

🖽 Record Setting

The higher the bit-rate, the higher the image quality.

MENU button \rightarrow **C** (Camera Settings) \rightarrow [## Record Setting] \rightarrow Select the desired mode.

Record Setting	Bit-rate	Description
60p 50M 50p 50M	Approx. 50 Mbps (Avg.)	Records high image quality movies at 1920×1080 (60p/50p).
30p 50M 25p 50M	Approx. 50 Mbps (Avg.)	Records high image quality movies at $1920 \times 1080 (30p/25p)$.
24p 50M*	Approx. 50 Mbps (Avg.)	Records high image quality movies at 1920×1080 (24p). This produces a cinema-like atmosphere.

When [1] File Format] is set to [XAVC S]

* Only for 1080 60i compatible models.

When [1] File Format] is set to [AVCHD]

Record Setting	Bit-rate	Description
60i 24M(FX) 50i 24M(FX)	Approx. 24 Mbps (Max.)	Records high image quality movies at 1920×1080 (60i/50i).
60i 17M(FH) 50i 17M(FH)	Approx. 17 Mbps (Avg.)	Records standard image quality movies at 1920 × 1080 (60i/50i).
60p 28M(PS) 50p 28M(PS)	Approx. 28 Mbps (Max.)	Records the highest image quality movies at 1920 × 1080 (60p/50p).
24p 24M(FX) 25p 24M(FX)	Approx. 24 Mbps (Max.)	Records high image quality movies at 1920×1080 (24p/25p). This produces a cinema-like atmosphere.
24p 17M(FH) 25p 17M(FH)	Approx. 17 Mbps (Avg.)	Records standard image quality movies at 1920 × 1080 (24p/25p). This produces a cinema-like atmosphere.

Record Setting	Bit-rate	Description
1440×1080 12M	Approx. 12 Mbps (Avg.)	Records movies at 1440×1080 .
VGA 3M	Approx. 3 Mbps (Avg.)	Records movies at VGA size.

When [1] File Format] is set to [MP4]

Notes

- Movies recorded in the [60p 28M(PS)]/[50p 28M(PS)]/[60i 24M(FX)]/[50i 24M(FX)]/[24p 24M(FX)]/[25p 24M(FX)] setting in [H] Record Setting] are converted by PlayMemories Home in order to create an AVCHD recording disc. This conversion can take a long time. Also, you cannot create a disc in the original image quality. If you want to keep the original image quality, store your movies on a Blu-ray Disc.
- To play back 24p/25p movies on a TV, the TV must be compatible with the 24p/25p formats. If the TV is not compatible with the 24p/25p format, 24p/25p movies will be output as 60i/50i movies.
- You can shoot images in a Super 35 mm format when [APS-C Size Capture] is set to [On] (page 41).

Customizing the picture quality (Picture Profile)

You can change settings such as color and tone when recording movies. Picture quality settings for different recording conditions have been stored in [PP1] through [PP7] as default movie settings.

MENU button $\rightarrow \square$ (Camera Settings) \rightarrow [Picture Profile] \rightarrow Select the desired setting.

For details on [Picture Profile], refer to the "Help Guide" (page 2).

Setting the time code (TC/UB Settings)

The camera records movies accompanied by time data, such as time code and user bit.

MENU button \rightarrow rightarrow (Setup) \rightarrow [TC/UB Settings] \rightarrow Select the desired setting.

For details on [TC/UB Settings], refer to the "Help Guide" (page 2).

Audio settings for movie recording

In addition to HD quality movie settings, the following items can be set: [Audio Rec Level], [Audio Level Display] and [Audio Out Timing].



- (Headphones) jack
 - When headphones are used, you can set the echo compensation using [Audio Out Timing].
- ③ MENU button → ▲ (Camera Settings) → [Audio Rec Level]



• You can adjust the audio recording level by monitoring the level meter.



④ MENU button → ☆ (Custom Settings) → [Audio Level Display]

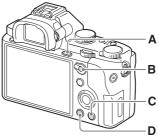


[Audio Level Display]

- You can display the audio level on the screen by selecting [On] from the menu.
- Press the MOVIE button to start or stop recording.

Playback functions

Convenient functions for playback are as follows:



- A ① Magnifies or reduces images.
 - Turn the control wheel to magnify or reduce an image. Turn the front or rear dial to switch to the next/previous image.
- **C** ⓑ Deletes unnecessary images.
- D Changes to the playback screen.

- B 💽 Image index screen
 - You can select the number of images to be displayed: MENU button →
 (Playback) → [Image Index]



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Using the Wi-Fi and NFC one-touch functions

You can perform the following operations using the camera's Wi-Fi and NFC One-touch functions.

Saving images to a computer.



Using the smartphone as a remote control for the camera.



Transferring images from the camera to a smartphone.



Viewing still images on a TV.



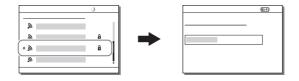
For details on the Wi-Fi and NFC One-touch functions, refer to the attached document "Wi-Fi Connection/One-touch (NFC) Guide" or to the "Help Guide" (page 2).

Connecting the camera to a wireless access point

Connect the camera to your wireless access point. Before starting the procedure, make sure you have the SSID (name of the access point) and password of your wireless access point with you.

1 MENU button $\rightarrow \mathbb{N}$ (Wireless) \rightarrow [Access Point Set.]

2 Use ▲/▼ on the control wheel to select the access point you want to connect to. Press ● in the center of the control wheel and enter the password if a key icon is displayed with a wireless access point, then select [OK].



Notes

- If a connection is not established, see the wireless access point operating instructions
 or contact the administrator of the access point.
- To save images to a computer, install the following dedicated software on your computer.

When using Windows: PlayMemories Home http://www.sony.net/pm/ When using Mac: Wireless Auto Import http://www.sony.co.jp/imsoft/Mac/

Adding applications to the camera (Application downloading)

You can add the desired functions to your camera by connecting to the application downloading website (PlayMemories Camera Apps) via the Internet. For example, the following functions are available:

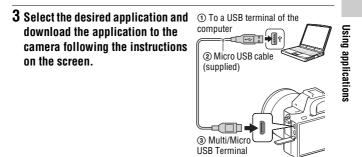
- You can use various effects for shooting images.
- · You can upload images to network services directly from the camera.

Downloading applications

1 Access the application downloading website.

http://www.sony.net/pmca/

- 2 Follow the instructions on the screen and acquire a service account.
 - If you have an account, sign in to the application download site.



Notes

• The application downloading function may not be available in some countries and regions. For details, refer to the application downloading website above.

How to download applications directly using the Wi-Fi function of the camera

You can download applications using the Wi-Fi function without connecting to a computer.

Select MENU button $\rightarrow \square$ (Application) \rightarrow [Application List] \rightarrow

(PlayMemories Camera Apps), then follow the instructions on the screen to download applications.

Acquire a service account in advance.

Select MENU button $\rightarrow \Re$ (Wireless) \rightarrow [Access Point Set.] \rightarrow access point to be connected \rightarrow change [IP Address Setting] to [Auto] if it is set to [Manual].

Launching the application

1 MENU button $\rightarrow \blacksquare$ (Application) \rightarrow [Application List] \rightarrow Select the desired application to launch.

• You can use the [One-touch(NFC)] menu to install NFC one-touch functions and call up the applications by simply touching the smartphone to the N mark on the camera.

Before using the NFC One-touch functions, set the applications that you want to call up using the following procedure:

- MENU button $\rightarrow \mathbb{A}$ (Wireless) \rightarrow [One-touch(NFC)] \rightarrow desired application
- After displaying the shooting screen on the camera, touch the smartphone to the camera.
- "Smart Remote Embedded" is assigned to [One-touch(NFC)] in the default setting.

Using the software

Use the following applications to optimize use of the images shot with your camera.

- · Image Data Converter
- PlayMemories Home
- Remote Camera Control

For details on installation, see pages 82 to 85.

System requirements

You can find the system requirements for the software at the following URL:

http://www.sony.net/pcenv/



Using Image Data Converter

With Image Data Converter, you can do the following:

- You can play back 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 images displayed and edited on a computer. You can either save the image as RAW format or save it in a general file format.
- You can display and compare the RAW images and JPEG images recorded by this camera.
- You can rank images in 5 grades.
- You can apply color labels.

To use Image Data Converter, refer to Help.

Click [Start] \rightarrow [All Programs] \rightarrow [Image Data Converter] \rightarrow [Help] \rightarrow [Image Data Converter Ver.4].

Image Data Converter support page (English only) http://www.sony.co.jp/ids-se/

Installing Image Data Converter

1 Download the software from the following URL and install it on your computer.

Windows:

http://www.sony.co.jp/imsoft/Win/ Mac:

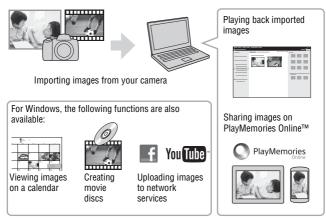
http://www.sony.co.jp/imsoft/Mac/

Notes

· Log on as Administrator.

Using PlayMemories Home

The software PlayMemories Home allows you to import still images and movies to your computer and use them. PlayMemories Home is required for importing XAVC S movies or AVCHD movies to your computer.



• You can download Image Data Converter or Remote Camera Control, etc. by performing the following procedure:

Connect the camera to your computer \rightarrow launch PlayMemories Home \rightarrow click [Notifications].

Notes

- An Internet connection is required to install PlayMemories Home.
- An Internet connection is required to use PlayMemories Home or other network services. PlayMemories Home or other network services may not be available in some countries or regions.
- Refer to the following URL for Mac software: http://www.sony.co.jp/imsoft/Mac/
- If the software PMB (Picture Motion Browser), supplied with models released before 2011, has already been installed on your computer, it will be overwritten by PlayMemories Home during the installation. Use PlayMemories Home, the successor software of PMB.
- Movies recorded using the [60p 28M(PS)]/[50p 28M(PS)], [60i 24M(FX)]/[50i 24M(FX)] or [24p 24M(FX)]/[25p 24M(FX)] setting in [H] Record Setting] are converted by PlayMemories Home to create an AVCHD recording disc. This conversion can take a long time. Also, you cannot create a disc with the original image quality. If you want to keep the original image quality, store your movies on a Blu-ray Disc.

Installing PlayMemories Home

1 Using the Internet browser on your computer, go to the following URL, then click [Install] \rightarrow [Run].

http://www.sony.net/pm/

2 Follow the instructions on the screen to complete the installation.

Using Remote Camera Control

Connect the camera to your computer. With Remote Camera Control you can:

- Set up the camera or record an image from the computer.
- Record an image directly to the computer.
- Perform an Interval Timer Shooting.

Set up the following before use: MENU button $\rightarrow \textcircled{a}$ (Setup) \rightarrow [USB Connection] \rightarrow [PC Remote]

Installing Remote Camera Control

1 Using the Internet browser on your computer, go to the following URL.

Windows:

http://www.sony.co.jp/imsoft/Win/ Mac: http://www.sony.co.jp/imsoft/Mac/

2 Follow the instructions on the screen to download and install Remote Camera Control.

Notes

· An Internet connection is required to install Remote Camera Control.

Checking the number of images and recordable time of movies

When you insert a memory card into the camera and set the 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.



Notes

- When "0" (the number of recordable images) flashes in yellow, the memory card is full. Replace the memory card with another one, or delete images from the current memory card (pages 43, 68).
- When "NO CARD" (the number of recordable images) flashes in yellow, 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: 3:2*

Memory card formatted with this camera

(Units: Images)

Capacity Size	2 GB	4 GB	8 GB	16 GB	32 GB	64 GB
Standard	280	560	1100	2250	4600	9200
Fine	195	395	800	1600	3200	6400
Extra fine	105	215	435	870	1700	3450
RAW & JPEG	54	105	215	435	870	1750
RAW	74	145	295	600	1200	2400

* When [C Aspect Ratio] is set to [16:9], you can record more images than the numbers shown in the table above (except when [RAW] is selected).

The number of images that can be recorded using a battery pack

Note that the actual numbers may differ depending on the conditions of use.

		Battery life	Number of images
Shooting (still	Screen	—	Approx. 350 images
images)	Viewfinder	—	Approx. 270 images
Actual shooting	Screen	Approx. 65 min.	—
(movies)	Viewfinder	Approx. 60 min.	—
Continuous	Screen	Approx. 100 min.	—
shooting (movies)	Viewfinder	Approx. 100 min.	_
Viewing (still imag	es)	Approx. 280 min.	Approx. 5600 images

Notes

- The above number of images applies when the battery pack is fully charged. The number of images may decrease depending on the conditions of use.
- The number of images that can be recorded is for shooting under the following conditions:
 - The battery pack is used at an ambient temperature of 25°C (77°F).
 - Using the lens FE 28-70 mm F3.5-5.6 OSS
 - Using Sony Memory Stick PRO Duo (Mark2) media (sold separately)
 - [Viewfinder Bright.] is set to [Manual] [±0].
 - [Monitor Brightness] is set to [Manual] [±0].
 - [Display Quality] is set to [Standard].
- The number for "Shooting (still images)" is based on the CIPA standard, and is for shooting under the following conditions:

(CIPA: Camera & Imaging Products Association)

- DISP is set to [Display All Info.].
- [Focus Mode] is set to [AF-S].
- Shooting once every 30 seconds.
- The power turns on and off once every ten times.
- The number of minutes for movie shooting is based on the CIPA standard, and are for shooting under the following conditions:
 - [E Record Setting] is set to [60i 17M(FH)]/[50i 17M(FH)].
 - Typical movie shooting: Battery life based on repeatedly shooting, zooming, shooting stand-by, turning on/off, etc.
 - Continuous movie shooting: Battery life based on non-stop shooting until the limit (29 minutes) has been reached, and then continued by pressing the MOVIE button again. Other functions, such as zooming, are not operated.

Available recording time for a movie

The table below shows the approximate total recording times using a memory card formatted with this camera. The recording time for XAVC S and AVCHD movies is the recording time when shooting with [Dual Video REC] set to [Off].

Memory card formatted with this camera

(h (hour), m (minute))

2 GB	4 GB	8 GB	16 GB	32 GB	64 GB
—		—	—	—	2 h 35 m
	—				2 h 35 m
_		_	_	_	2 h 35 m
10 m	20 m	40 m	1 h 30 m	3 h	6 h
10 m	30 m	1 h	2 h	4 h 5 m	8 h 15 m
9 m	15 m	35 m	1 h 15 m	2 h 30 m	5 h 5 m
10 m	20 m	40 m	1 h 30 m	3 h	6 h
10 m	30 m	1 h	2 h	4 h	8 h
20 m	40 m	1 h 20 m	2 h 45 m	5 h 30 m	11 h
1 h 10 m	2 h 25 m	4 h 55 m	10 h	20 h	40 h
		Image: constraint of the second sec	10 m 20 m 40 m 10 m 30 m 1 h 9 m 15 m 35 m 10 m 20 m 40 m 10 m 30 m 1 h 9 m 15 m 35 m 10 m 20 m 40 m 10 m 20 m 40 m	10 m 20 m 40 m 1 h 30 m 10 m 30 m 1 h 2 h 9 m 15 m 35 m 1 h 15 m 10 m 20 m 40 m 1 h 30 m 10 m 30 m 1 h 2 h 9 m 15 m 35 m 1 h 15 m 10 m 20 m 40 m 1 h 30 m 10 m 20 m 40 m 1 h 30 m 10 m 20 m 40 m 1 h 30 m 10 m 30 m 1 h 2 h 20 m 40 m 1 h 20 m 2 h 45 m	10 m 20 m 40 m 1 h 30 m 3 h 10 m 30 m 1 h 2 h 4 h 5 m 9 m 15 m 35 m 1 h 15 m 2 h 30 m 10 m 20 m 40 m 1 h 30 m 3 h 10 m 30 m 1 h 2 h 4 h 5 m 10 m 20 m 40 m 1 h 30 m 3 h 10 m 20 m 40 m 1 h 30 m 3 h 10 m 30 m 1 h 2 h 4 h

* Only for 1080 60i compatible models.

• Continuous shooting is possible for approximately 29 minutes (a product specification limit).

Notes

- 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 values shown are not for continuous recording time.
- The recording time may differ depending on shooting conditions and the memory card used.
- · For details on movie playback, see page 66.

Notes on continuous movie recording

- It requires a lot of power to perform high quality movie recording or continuous shooting using the image sensor. Therefore, if you continue to shoot, the temperature inside the camera will rise, especially that of the image sensor. In such cases, the camera turns off automatically since higher temperatures affect the quality of the images or affect the internal mechanism of the camera.
- The duration of time available for movie recording is as follows when the camera starts recording after the power of the camera 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	Continuous recording time for movies
20°C (68°F)	About 29 minutes
30°C (86°F)	About 29 minutes
40°C (104°F)	About 29 minutes

- The duration of time available for movie recording varies with the temperature 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.
- When [1] is indicated, stop recording the movie. The temperature inside the camera has increased to an unacceptable level.
- If the camera stops recording due to the temperature, leave it for several minutes with the power turned off. Start recording after the temperature inside the camera drops fully.

- If you observe the following points, the recording time will be longer.
 - Keep the camera out of direct sunlight.
 - Turn the camera off when it is not being used.
- The maximum continuous recording time is 29 minutes.
- The maximum size of a movie file is about 2 GB, when []] File Format] is set to [AVCHD]. When the file size is about 2 GB, a new movie file is created automatically.

Specifications

Camera

[System]

Camera Type: Interchangeable Lens Digital Camera Lens: Sony E-mount lens

[Image sensor]

Image format: 35 mm full size (35.8 mm × 23.9 mm), CMOS image sensor Effective pixel number of camera: Approx. 24 300 000 pixels Total pixel number of camera: Approx. 24 700 000 pixels

[SteadyShot]

System: In-camera sensor shift image stabilization system

[Anti-Dust]

System: Charge protection coating on image sensor and image sensor shift mechanism

[Auto focus system]

- System: Phase detection system/ Contrast detection system
- Sensitivity Range: -1 EV to +20 EV (at ISO 100 equivalent with F2.0 lens)
- AF illuminator: Approx. 0.3 m to 3 m (0.99 ft. to 9.8 ft.) (When using an FE 28-70 mm F3.5-5.6 OSS)

[Electronic viewfinder]

Type: Electronic viewfinder Total number of dots: 2 359 296 dots Frame coverage: 100% Magnification: Approx. $0.71 \times$ with 50 mm lens at infinity, -1 m^{-1} Eye Point: Approx. 27 mm from the eyepiece, 22 mm from the eyepiece frame at -1 m^{-1} (CIPA standard compliant) Diopter Adjustment: -4.0 m^{-1} to $+3 0 \text{ m}^{-1}$

[Monitor]

LCD monitor: 7.5 cm (3.0 type) TFT drive Total number of dots: 1 228 800 (640 × 4 (RGBW) × 480) dots

[Exposure control]

Metering method: 1 200-zone evaluative metering Metering Range: -1 EV to +20 EV (at ISO 100 equivalent with F2.0 lens) ISO sensitivity (Recommended exposure index): Still images: ISO 100 to 25 600 (Extended ISO 50), [ISO AUTO] (ISO 100 to 6 400, Maximum/ Minimum can be set.) Movies: ISO 200 to 25 600 equivalent, [ISO AUTO] (ISO 200 to 6 400 equivalent, Maximum/Minimum can be set.) Multi frame noise reduction: [ISO AUTO]/ISO 100 to 51 200 (1 EV step)

Exposure compensation: ±5.0 EV (switchable between 1/3 EV and 1/2 EV steps) When using exposure compensation dial: ±3.0 EV (1/3 EV step)

[Shutter]

Type: Electronically-controlled, vertical-traverse, focal-plane type Speed range:

Still images: 1/8 000 second to 30 seconds, BULB Movies: 1/8 000 second to 1/4 second (1/3 EV step)

- 1080 60i-compatible device up to 1/60 second in AUTO mode (up to 1/30 second in Auto slow shutter mode)
- 1080 50i-compatible device up to 1/50 second in AUTO mode (up to 1/25 second in Auto slow shutter mode)

Flash sync speed: 1/250 second

[Continuous shooting]

Continuous shooting speed:

□ Hi: Maximum 5 images per second/□ Lo: Maximum 2.5 images per second

• Based on our measurement conditions. The speed of continuous shooting can be slower, depending on the shooting conditions.

The number of continuous shots: \Box_{I} Hi: Extra fine 50 images/ \Box_{I} Lo: Extra fine 69 images

[Recording format]

File format: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, RAW (Sony ARW 2.3 format)

Movie (XAVC S format): MPEG-4 AVC/H.264 XAVC S ver.1.0 format compliant Video: MPEG-4 AVC/H.264 Audio: LPCM 2ch (48 kHz 16 bit)

- Movie (AVCHD format): AVCHD format Ver. 2.0 compatible Video: MPEG-4 AVC/H.264 Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator
 - Manufactured under license from Dolby Laboratories.

Movie (MP4 format): Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch

[Recording media]

Memory Stick PRO Duo media, SD card

[Input/output terminals]

Multi/Micro USB Terminal*: Hi-Speed USB (USB 2.0) HDMI: HDMI type D micro jack ▲ (Microphone) Terminal: Ø 3.5 mm Stereo mini jack ③ 3.5 mm Stereo mini jack * Supports Micro USB compatible devices.

[Power, general]

Battery pack: Rechargeable battery pack NP-FW50

[Power consumption (while shooting)]

When using an FE 28-70 mm F3.5-5.6 OSS* When using the viewfinder: Approx. 3.5 W When using the monitor: Approx. 2.6 W * Supplied with ILCE-7M2K.

[Others]

Exif Print: Compatible DPOF: Compatible PRINT Image Matching III: Compatible Dimensions: 126.9 mm × 95.7 mm × 59.7 mm (5 inches \times 3 7/8 inches × 2 3/8 inches) (W/H/D, excluding protrusions) Mass. Approx. 599 g (1 lb 5.1 oz) (with battery and Memory Stick PRO Duo media) Approx. 556 g (1 lb 3.6 oz) (body only) Operating temperature: 0°C to 40°C (32°F to 104°F)

[Wireless LAN]

Supported format: IEEE 802.11 b/g/n Frequency band: 2.4 GHz bandwidth Security: WEP/WPA-PSK/WPA2-PSK Connection method: WPS (Wi-Fi Protected Setup)/Manual Access method: Infrastructure mode NFC: NFC Forum Type 3 Tag compliant Model No. WW328278

AC Adaptor AC-UD10/AC-UUD11

Power requirements: AC 100 V to 240 V, 50 Hz/60 Hz, 70 mA Output voltage: DC 5 V, 1.5 A

Rechargeable battery pack NP-FW50

Battery type: Lithium-ion battery Maximum voltage: DC 8.4 V Nominal voltage: DC 7.2 V Maximum charge voltage: DC 8.4 V Maximum charge current: 1.02 A Capacity: Typical 7.7 Wh (1 080 mAh) Minimum: 7.3 Wh (1 020 mAh)

Lens FE 28-70 mm F3.5-5.6 OSS (Supplied with ILCE-7M2K)

Focal length: 28 mm – 70 mm Lens groups–elements: 8–9 Angle of view: 75° – 34° Minimum focus*: 0.3 m – 0.45 m (0.99 ft. –1.48 ft.) Maximum magnification: 0.19× Minimum f-stop: f/22 – f/36 Filter diameter: 55 mm Dimensions (max. diameter × height): Approx. 72.5 mm × 83 mm (Approx. 2 7/8 inches × 3 3/8 inches) Mass: Approx. 295 g (Approx. 10.5 oz.) Steady Shot: Available

* Minimum focus is the shortest distance from the image sensor to the subject.

Design and specifications are subject to change without notice.

On image data compatibility

- This camera 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 camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed.

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http://www.sony.net/SonyInfo/Support/

Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

http://www.sony.net/



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