Interchangeable Lens Digital Camera

α7IV

E-mount

Operating Instructions

“Help Guide” (Web manual)
Refer to “Help Guide” for in-depth instructions on the many functions of the camera.

https://rd1.sony.net/help/ilc/2060/h_zz/
Check out the Help Guide!

The “Help Guide” is an on-line manual that you can read on your computer or smartphone. Refer to it for details on menu items, advanced usage, and the latest information on the camera.

Scan here

https://rd1.sony.net/help/ilc/2060/h_zz/

ILCE-7RM4A Help Guide

Operating Instructions (this book)

This manual introduces some basic functions.
For the quick start guide, see “Startup guide” (page 26). The “Startup guide” introduces the initial procedures from when you open the package until you release the shutter for the first shot.

In-Camera Guide

The [In-Camera Guide] shows explanations of the menu items on the monitor of the camera.
You can quickly pull up information during shooting.
Select an item for which you want to view a description, and then press the (Delete) button.
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For details on the Wi-Fi functions and NFC One-touch functions, refer to the “Help Guide” (page 2).
Notes on using your camera

Along with this section, also see “Precautions” in the Help Guide.

Notes on handling the product

• This camera is designed to be dust resistant and splash resistant, but it is not guaranteed to completely prevent the ingress of dust or water droplets.
• Do not leave the lens or the viewfinder exposed to a strong light source such as sunlight. Because of the lens’s condensing function, doing so may cause smoke, fire, or a malfunction inside the camera body or the lens. If you have to leave the camera exposed to a light source such as sunlight, attach the lens cap to the lens.
• If sunlight or a strong light source enters the camera through the lens, it may focus inside the camera and cause smoke or fire. Attach the lens cap to the lens when storing the camera. When you shoot with backlighting, keep the sun sufficiently far away from the angle of view. Note that smoke or fire may occur even if the light source is slightly away from the angle of view.
• Do not directly expose the lens to beams such as laser beams. That may damage the image sensor and cause the camera to malfunction.
• 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.

• This camera (including accessories) has magnet(s) which may interfere with pacemakers, programmable shunt valves for hydrocephalus treatment, or other medical devices. Do not place this camera close to persons who use such medical devices. Consult your doctor before using this camera if you use any such medical device.
• Do not leave the camera, the supplied accessories, or memory cards within the reach of infants. They may be accidentally swallowed. If this occurs, consult a doctor immediately.

Notes on the monitor and electronic viewfinder

• The monitor and electronic viewfinder are manufactured using extremely high-precision 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.
• 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.
• If the monitor or electronic viewfinder is damaged, stop using the camera immediately. The damaged parts may harm your hands, face, etc.

**Notes on continuous shooting**
During continuous shooting, the monitor or viewfinder may flash between the shooting screen and a black screen. If you keep watching the screen in this situation, you may experience uncomfortable symptoms such as feeling of unwellness. If you experience uncomfortable symptoms, stop using the camera, and consult your doctor as necessary.

**Notes on recording for long periods of time or recording 4K movies**
• The camera body and battery may become warm with use – this is normal.
• If the same part of your skin touches the camera for a long period of time while using the camera, even if the camera does not feel hot to you, it may cause symptoms of a low-temperature burn such as redness or blistering. Pay special attention in the following situations and use a tripod, etc.
  – When using the camera in a high-temperature environment
  – When someone with poor circulation or impaired skin sensation uses the camera
  – When using the camera with the [Auto Power OFF Temp.] set to [High].

**Sony lenses/accessories**
Using this unit with products from other manufacturers may affect its performance, leading to accidents or malfunction.

**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.

**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.

**Notes on location information**
If you upload and share an image tagged with a location, you may accidentally reveal the information to a third party. To prevent third parties from obtaining your location information, set [Location Info. Link Set.] to [Off] before shooting images.

**Notes on discarding or transferring this product to others**
When discarding or transferring this product to others, make sure to perform the following operation to protect private information.
• [Setting Reset] → [Initialize]
Notes on discarding or transferring a memory card to others
Executing [Format] or [Delete] on the camera or a computer may not completely delete the data on the memory card. When transferring a memory card to others, we recommend that you delete the data completely using data deletion software. When discarding a memory card, we recommend that you physically destroy it.

Note on network functions
When you use network functions, unintended third parties on the network may access the camera, depending on the usage environment. For example, unauthorized access to the camera may occur in network environments to which another network device is connected or can connect without permission. Sony bears no responsibility for any loss or damage caused by connecting to such network environments.

Note on the 5 GHz band for wireless LAN
When using the wireless LAN function outdoors, set the band to 2.4 GHz by following the procedure below. (WW447485 only)

- MENU → [Network] → [Wi-Fi Settings]

How to turn off wireless network functions (Wi-Fi, etc.) temporarily
When you board an airplane, etc., you can turn off all wireless network functions temporarily using [Airplane Mode].

Power Cord
For the customers in the UK, Ireland, Malta, Cyprus and Saudi Arabia
Use the power cord (A). For safety reasons, the power cord (B) is not intended for above countries/regions and shall therefore not be used there. For the customers in other EU countries/regions
Use the power cord (B).

(A) (B)
For Customers in the U.S.A.

For question regarding your product or for the Sony Service Center nearest you, call 1-800-222-SONY (7669).

Supplier’s Declaration of Conformity
Trade Name: SONY
Model: WW447485
Responsible Party: Sony Electronics Inc.
Address: 16535 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

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.

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 → (Setup) → [Certification Logo].
Preparations for shooting

Checking the camera and the supplied items

The number in parentheses indicates the number of pieces.

- Camera (1)
- Battery charger (1)
- Power cord (mains lead) (1)* (supplied in some countries/regions)
  
  * Multiple power cords may be supplied with this equipment. Use the appropriate one that matches your country/region. See page 8.
- Rechargeable battery pack NP-FZ100 (1)
- USB Type-C® cable (1)
- Shoulder strap (1)
- Body cap (1) (Attached to the camera)
- Cable protector (1)
- Shoe cap (1) (Attached to the camera)
- Eyepiece cup (1) (Attached to the camera)
- Operating Instructions (1) (this manual)
- Reference Guide (1)
Identifying parts

See the pages in parentheses for details.

Front side

1. ON/OFF (Power) switch (33)/Shutter button (34)
2. Front dial
   You can quickly adjust the settings for each shooting mode.
3. Infrared remote sensor
4. Lens release button (32)
5. Microphone
   Do not cover this part during movie recording. Doing so may cause noise or lower the volume.
6. AF illuminator (65)/Self-timer lamp

When the lens is removed

7. Mounting index (31)
8. Image sensor*
9. Mount
10. Lens contacts*

* Do not directly touch these parts.
1 Eyepiece cup
To remove the eyepiece cup
Push the grips at the bottom of the eyepiece cup to the left and right and lift up the cup.

Remove the eyepiece cup when attaching an angle finder (sold separately). Also, select MENU → 2 (Camera Settings 2) → [FINDER/MONITOR], and then switch to [Viewfinder (Manual)] or [Monitor (Manual)].

2 Viewfinder

3 C3 button (Custom button 3) (72)/Protect button

4 MENU button (62)

5 Monitor
(For touch operation: Touch panel/Touch pad) (45)
You can adjust the monitor to an easily viewable angle and shoot from any position.

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

8 MOVIE (Movie) button (35)

9 For shooting: AF-ON (AF On) button
For viewing: (Enlarge Image) button

10 For shooting: AEL button
For viewing: (Image Index) button

11 Multi-selector (21)

12 For shooting: Fn (Function) button (21, 72)
For viewing:
(Send to Smartphone) button
You can display the screen for [Send to Smartphone] by pressing this button.

13 Control wheel (20)

14 Access lamp

15 For shooting: C4 button (Custom button 4) (72)
For viewing: (Delete) button (35)

16 (Playback) button (35)
Top side

1 Mode dial (35)
The mode dial is unlocked while you hold down the unlock button at the center.

2 Rear dial
You can quickly adjust the settings for each shooting mode.

3 Exposure compensation dial
Pressing the lock button at the center switches the exposure compensation dial between the locked and unlocked status. The dial is unlocked when the lock button is popped up and the white line is visible.

4 C1 button (Custom button 1) (72)

5 C2 button (Custom button 2) (72)

6 Multi Interface Shoe*
Some accessories may not go in all the way and protrude backward from the Multi interface shoe. However, when the accessory reaches the front end of the shoe, the connection is completed.
Image sensor position mark

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

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

* For details on compatible accessories for the Multi Interface Shoe, visit the Sony website, or consult your Sony dealer or local authorized Sony service facility. Accessories for the Accessory Shoe can also be used. Operations with other manufactures’ accessories are not guaranteed.
### Sides

1. *(Flash sync) terminal*
2. Speaker
3. *(Microphone) jack*
   When an external microphone is connected, the built-in microphone turns off automatically. When the external microphone is a plugin-power type, the power of the microphone is supplied by the camera.

4. *(Headphones) jack*
5. HDMI micro jack
6. USB Type-C terminal (17, 59)
7. Multi/Micro USB Terminal* (17, 59)
   This terminal supports Micro USB-compatible devices.
8. Charge lamp
9 Hooks for shoulder strap
Attach both ends of the strap onto the camera.

10 (N-Mark) (56)
- This mark indicates the touch point for connecting the camera and an NFC-enabled Smartphone.
- NFC (Near Field Communication) is an international standard of short-range wireless communication technology.

11 SLOT 1 (Memory card slot 1) (28)
Supports SD cards only (compatible with UHS-I and UHS-II)

12 SLOT 2 (Memory card slot 2) (30)
Supports SD cards only (compatible with UHS-I and UHS-II)

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

Notes on USB terminals
You can use either the USB Type-C terminal or the Multi/Micro USB Terminal for supplying power, charging the battery, and USB communications. However, you cannot conduct these operations with both terminals simultaneously.
- The battery charging time does not change according to the terminal you use.
- You can use accessories for the Multi/Micro USB Terminal, such as a remote commander (sold separately), while supplying power or performing PC Remote shooting using the USB Type-C terminal.
Notes on the cable protector
Use the cable protector to prevent a cable from being disconnected when shooting images with the cable connected.

To attach the cable protector

1. Open both of the jack covers on the monitor side.
2. Fit the two hooks on the rear side of the cable protector into the two notches to the left of the USB Type-C terminal and Multi/Micro USB Terminal, and then align the cable protector with the terminal part of the camera.
3. Push the attachment screw in and turn it to secure the cable protector.

4. Insert the cable into one of the jacks.
5. Insert the cable into the holding part and then secure the cable with the fixing dial.

To remove the cable protector
Loosen the attachment screw, and then remove the cable protector.
Bottom

1 Lock lever (27)
2 Battery insertion slot (27)
3 Battery cover (27)
   When attaching an accessory such as a vertical grip (sold separately), remove the battery cover.

To remove the battery cover
Pull the battery cover release lever in the direction of the arrow, and then remove the battery cover.

To attach the battery cover
Insert the shaft on one side of the battery cover into the attachment site, and then push in the battery cover by attaching the shaft on the opposite side.

4 Tripod socket hole
Supports 1/4-20 UNC screws
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.
Basic operations

Using the control wheel

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

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

Using the Fn (Function) button (Function menu)

The Function menu is a menu of 12 functions that is displayed at the bottom of the screen when you press the Fn (Function) button in the shooting mode. You can access frequently used functions more quickly by registering them to the function menu.

Hint

- You can separately register 12 functions for still image shooting and 12 functions for movie shooting to the Function menu.
- You can recall functions more quickly by using the custom key function (page 72) to assign frequently used functions to desired keys, along with the function menu.
1 Press the DISP on the control wheel repeatedly to display a screen mode other than [For viewfinder], and then press the Fn (Function) button.

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

3 Select the desired setting by turning the front dial, and press the center of the control wheel.
   • Some functions can be fine-tuned using the rear dial.

To adjust settings from the dedicated setting screens
Select the desired function in step 2, then press the center of the control wheel. The dedicated setting screen for the function will appear. Follow the operating guide to adjust settings.
To change the functions in the function menu (Function Menu Set.)
The following is the procedure for changing [Drive Mode] in the function menu for still images to [Grid Line].
• To change the function menu for movie shooting, select an item that you want to change from the function menu for movie shooting in step ②.

① MENU → 2 (Camera Settings 2) → [Function Menu Set.].

② Select (Drive Mode) from among the 12 functions for still image shooting in the function menu using the top/bottom/left/right side of the control wheel, and then press the center.

③ Press the left/right side of the control wheel until [Grid Line] is displayed. Select [Grid Line], and then press the center.
   • (Grid Line) will be displayed in the former location of (Drive Mode) in the function menu.

How to use the Quick Navi screen

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

1 Select MENU → 2 (Camera Settings 2) → [DISP Button] → [Monitor].

2 Place a ✔ mark on [For viewfinder] and then select [Enter].

3 Press the DISP on the control wheel to set the screen mode to [For viewfinder].
4 Press the Fn button to switch to the Quick Navi screen.
   • The displayed contents and their positions in the illustrations are just guidelines, and may differ from the actual displays.

   **Auto mode**

   ![Auto mode illustration]

   ![Auto mode illustration]

   **P/A/S/M mode**

   ![P/A/S/M mode illustration]

   ![P/A/S/M mode illustration]

5 Select a function to set by pressing the top/bottom/left/right side of the control wheel.

6 Select the desired setting by turning the front dial.
   • Some functions can be fine-tuned using the rear dial.
To adjust settings from the dedicated setting screens
Select the desired function in step 5, then press the center of the control wheel. The dedicated setting screen for the function will appear. Follow the operating guide to adjust settings.

Note
- Items that are gray on the Quick Navi screen are not adjustable.
- When using functions such as [Creative Style] or [Picture Profile], some settings can only be controlled from the dedicated screen.
Startup guide

Step 1: Charging the battery pack

1. **Insert the battery pack into the battery charger.**
   - Place the battery pack on the battery charger in the direction of the ▲.
   - Slide the battery pack in the direction of the arrow as far as it will go.

2. **Connect the power cord (supplied) to the battery charger, and connect the battery charger to the wall outlet (wall socket).**
   The CHARGE lamp on the battery charger will light up in orange and charging will start.

   **CHARGE lamp (orange)**
   - Lit: Charging
   - Flashing: Charging error or charging paused temporarily because the camera is not within the proper temperature range
   - When charging is finished, the CHARGE lamp and all indicators turn off.
   - Charging time (full charge): approximately 150 min. (when charging a fully depleted battery pack at a temperature of 25°C (77°F))
   - When you use a completely new battery pack or a battery pack that has not been used for a long time, the CHARGE lamp may flash quickly when the battery is charged for the first time. If this happens, remove the battery pack and then re-insert it to recharge.
   - Be sure to use only genuine Sony brand battery packs.
Step 2: Inserting the battery pack into the camera

1 Open the battery cover.

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

3 Close the cover.
■ To charge the battery pack while it is inserted in the camera
Turn the camera off and connect it to a device such as a computer using the USB cable.
If you turn on the camera, power will be supplied from the computer or the device that you connected, and you will be able to operate the camera. However, the battery pack will not charge.
Use the USB Type-C cable (supplied) or a USB-standard cable.

■ To remove the battery pack
Make sure that the access lamp (page 13) is not lit, and turn off the camera. Then, slide the lock lever and remove the battery pack. Be careful not to drop the battery pack.

Step 3: Inserting a memory card
For details on memory cards that can be used with this camera, refer to page 86.

1 Open the memory card cover.
2 Insert the SD card into the slot 1.

- Both the slot 1 (upper) and the slot 2 (lower) only support SD memory cards (compatible with UHS-II).
- This camera does not support Memory Stick media.
- Insert the memory card with the terminal side facing toward you, until it clicks into place.
- You can change which memory card slot to use by selecting MENU → (Setup) → [Rec. Media Settings] → [Prioritize Rec. Media].
  The slot 1 is used in the default settings.

3 Close the cover.

**Hint**

- When you use a memory card with the camera for the first time, it is recommended that you format the card on the camera for more stable performance of the memory card (page 78).
To remove the memory card
Make sure that the access lamp (page 13) is not lit, and then push in the memory card once to remove it.

To record to memory cards in two slots
The slot 1 is used in the default settings. If you do not intend to change the settings and will only use one memory card, use the slot 1. By inserting another memory card into the slot 2, you can record the same images to two memory cards simultaneously or record a different type of image (still images/movies) to each memory card ([Recording Mode] under [Rec. Media Settings]) (page 78).

Step 4: Attaching a lens

1 Remove the body cap from the camera and the rear lens cap from the rear of the lens.
   • When changing the lens, work quickly in a dust-free environment to keep dust or debris from getting inside the camera.
   • It is recommended that you attach the front lens cap when you have done shooting.
2 Mount the lens by aligning the two white index marks (mounting indexes) on the lens and camera.
   - Hold the camera with the lens facing down to prevent dust or debris from entering the camera.

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

Note
- Be sure to hold the lens straight and do not use force when attaching a lens.
- Do not press the lens release button when attaching a lens.
- The Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). For details, refer to the operating manual supplied with the Mount Adaptor.
- If you want to shoot full-frame images, use a full-frame size compatible lens.
- When carrying the camera with a lens attached, hold both the camera and the lens firmly.
- Do not hold the part of the lens that is extended for zoom or focus adjustment.
To remove the lens
Keep pressing the lens release button and turn the lens in the direction of the arrow until it stops.

Compatible lenses
Lenses compatible with this camera are as follows:

<table>
<thead>
<tr>
<th>Lens</th>
<th>Compatibility with the camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A-mount lens</strong></td>
<td></td>
</tr>
<tr>
<td>Lens compatible with 35 mm full-frame format</td>
<td>✓ (An optional Mount Adaptor (sold separately) compatible with full-frame format is required)</td>
</tr>
<tr>
<td>APS-C size dedicated lens</td>
<td>✓* (An optional Mount Adaptor (sold separately) is required)</td>
</tr>
<tr>
<td><strong>E-mount lens</strong></td>
<td></td>
</tr>
<tr>
<td>Lens compatible with 35 mm full-frame format</td>
<td>✓</td>
</tr>
<tr>
<td>APS-C size dedicated lens</td>
<td>✓*</td>
</tr>
</tbody>
</table>

* Images will be recorded in APS-C size. The angle of view will correspond to approximately 1.5 times the focal length indicated on the lens. (For example, the angle of view will correspond to 75 mm when a 50 mm-lens is attached.)
Step 5: Setting the language and the clock

1 Set the ON/OFF (Power) switch to “ON” to turn on the camera.

2 Select the desired language and then press the center of the control wheel.

3 Make sure that [Enter] is selected on the screen and then press the center.

4 Select the desired geographic location and then press the center.

5 Select [Date/Time] using the top/bottom of the control wheel or by turning the control wheel, and then press the center.

6 Select the desired item by pressing the top/bottom/left/right side of the control wheel, and then press the center.
7 Repeat steps 5 and 6 to set other items, then select [Enter] and press the center.

**Hint**

- To reset the date and time setting, use MENU (page 77).

**Note**

- This camera does not have a function for inserting the date into images. You can insert the date into images and then save and print them using PlayMemories Home (for Windows only).

---

### Step 6: Shooting images in auto mode

1. Press and hold the lock release button in the center of the mode dial, then turn the mode dial to set to **AUTO**. The shooting mode will be set to **i** (Intelligent Auto).

2. Look into the viewfinder or the monitor and hold the camera.

3. Set the size of the subject by rotating the zoom ring of the lens when a zoom lens is attached.

4. Press the shutter button halfway down to focus.
   - When the image is in focus, an indicator (such as ●) will light up.

5. Press the shutter button all the way down.
To shoot movies
Press the MOVIE button to start/stop recording.

To play back images
Press the (Playback) button to play back images. You can select the desired image using the control wheel.

To delete displayed image
Press the (Delete) button while an image is displayed to delete it. Select [Delete] using the control wheel on the confirmation screen, and then press the center of the control wheel to delete the image.

To shoot images in various shooting modes
Set the mode dial to the desired mode depending on the subject or the functions you want to use.
Shooting

Focusing

Focus Mode

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

MENU → 1(Camera Settings 1) → [Focus Mode] → desired setting.

**AF-S (Single-shot AF):** The product locks the focus once focusing is complete. Use this when the subject is motionless.

**AF-A (Automatic AF):** [Single-shot AF] and [Continuous AF] are switched according to the movement of the subject. When the shutter button is pressed halfway down, the product locks the focus when it determines that the subject is motionless, or continues to focus when the subject is in motion. During continuous shooting, the product automatically shoots with Continuous AF from the second shot.

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

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

**MF (Manual Focus):** Adjusts the focus manually. If you cannot focus on the intended subject using auto focus, use manual focus.
Focus indicator

- **(lit):** The subject is in focus and the focus is locked.
- **(flashing):** The subject is not in focus.
- **(lit):** The subject is in focus. The focus will be adjusted continuously according to the movements of the subject.
- **(lit):** Focusing is in progress.

Subjects on which it is difficult to focus using auto focus

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

Hint

- In [Continuous AF] mode, you can lock the focus by pressing and holding the button that has been assigned the [Focus Hold] function (page 72).
- When you set the focus to infinity in the manual focus mode or the direct manual focus mode, make sure that the focus is on a sufficiently distant subject by checking the monitor or the viewfinder.

Note

- [Automatic AF] is available only when you are using a lens that supports phase detection AF.
- When [Continuous AF] or [Automatic AF] is set, the angle of view may change little by little while focusing. This does not affect the actual recorded images.
- Only [Continuous AF] and [Manual Focus] are available when shooting movies or when the mode dial is set to **S&Q**.
Auto focus

Focus Area

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

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

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

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

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

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

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

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

When focusing on a larger area

When focusing on a smaller area

• When [Focus Area] is set to [Wide] or [Zone], the focusing frame may switch between “When focusing on a larger area” and “When focusing on a smaller area” depending on the subject or situation.

• When you attach an A-mount lens with a Mount Adaptor (LA-EA1 or LA-EA3) (sold separately), the focusing frame for “When focusing on a smaller area” may be displayed.

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

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

- You can move the focus area in [Flexible Spot], [Expand Flexible Spot], [Zone], [Tracking: Flexible Spot], [Tracking: Expand Flexible Spot], or [Tracking: Zone] by operating the multi-selector. If you assign [Focus Standard] to the center of the multi-selector beforehand, you can move the focusing frame back to the center of the monitor by pressing the center of the multi-selector.
- You can move the focusing frame quickly by touching and dragging it on the monitor. Set [Touch Operation] (page 45) to [On] and [Func. of Touch Operation] (page 46) to [Touch Focus] beforehand.

To track the subject temporarily (Tracking On)

You can temporarily change the setting for [Focus Area] to [Tracking] while you press and hold down the custom key to which you have assigned [Tracking On] in advance. The [Focus Area] setting before you activated [Tracking On] will switch to the equivalent [Tracking] setting.

For example:

<table>
<thead>
<tr>
<th>[Focus Area] before you activate [Tracking On]</th>
<th>[Focus Area] while [Tracking On] is active</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Wide]</td>
<td>[Tracking: Wide]</td>
</tr>
<tr>
<td>[Flexible Spot: S]</td>
<td>[Tracking: Flexible Spot S]</td>
</tr>
<tr>
<td>[Expand Flexible Spot]</td>
<td>[Tracking: Expand Flexible Spot]</td>
</tr>
</tbody>
</table>

Hint

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

Note

- [Focus Area] is locked to [Wide] in the following situations:
  - [Intelligent Auto]
- The focus area may not light up during continuous shooting or when the shutter button is pressed all the way down at once.
- When the mode dial is set to (Movie) or S&Q, or during movie shooting, [Tracking] cannot be selected as the [Focus Area].
- If [Subject Detection] under [Face/Eye AF Set.] is set to [Animal], you cannot select [Tracking] for [Focus Area].
Manual Focus

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

1. **MENU** → 🌐1(Camera Settings 1) → [Focus Mode] → [Manual Focus].

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

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

**Note**
- When you use the viewfinder, adjust the diopter level to obtain the correct focus on the viewfinder (page 13).
Direct manual focus (DMF)

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

1. MENU → ① (Camera Settings 1) → [Focus Mode] → [DMF].

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

3. Keep the shutter button pressed halfway down, and then rotate the focusing ring to achieve a sharper focus.
   - When you rotate the focusing ring, the focus distance is displayed on the screen. The focus distance is not displayed when the Mount Adaptor (sold separately) is attached.

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

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

1. Select (Drive Mode) on the control wheel ➔ [Cont. Shooting].
   - You can also set the drive mode by selecting MENU ➔ [Camera Settings 1] ➔ [Drive Mode].

2. Select the desired mode using the right/left side of the control wheel.
   - [Hi+] Continuous Shooting: Hi+: Images are shot continuously at the maximum speed while you press and hold down the shutter button.
   - [Hi] Continuous Shooting: Hi / [Mid] Continuous Shooting: Mid / [Lo] Continuous Shooting: Lo: Subjects are easier to track because the subject is displayed in real-time on the monitor or viewfinder during shooting.

Hint

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

Note

- The shooting speed during continuous shooting becomes slower when [RAW File Type] is set to [Uncompressed].
- The shooting speed during continuous shooting becomes slower when [e-Front Curtain Shutter] is set to [Off] in [Continuous Shooting: Hi], [Continuous Shooting: Mid] or [Continuous Shooting: Lo] mode.
- When the F-value is greater than F11 in [Continuous Shooting: Hi+], [Continuous Shooting: Hi] or [Continuous Shooting: Mid] mode, the focus is locked to the setting in the first shot.
- The subject is not displayed in real-time on the monitor or viewfinder when shooting in [Continuous Shooting: Hi+] mode.
- The speed of continuous shooting decreases when you shoot with a flash.
Displaying continuous shooting remaining time indicator
(Cont. Shoot. Length)

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

MENU → 📸2 (Camera Settings 2) → [Cont. Shoot. Length] → desired setting.

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

Shoot.-Only Display: Displays the indicator only while continuous shooting is performed.

Not Displayed: Does not display the indicator.

Hint

- When the internal camera memory for buffering is full, “SLOW” will be displayed and the continuous shooting speed will decrease.
Using touch function

**Touch Operation**

Sets whether to activate or not the touch operation of the monitor.

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

**On:** Activates the touch operation.

**Off:** Deactivates the touch operation.

**Touch Panel/Pad**

Touch operations when shooting with the monitor are referred to as “touch panel operations,” and touch operations when shooting with the viewfinder are referred to as “touch pad operations.” You can select whether to activate touch panel operations or touch pad operations.

MENU → (Setup) → [Touch Panel/Pad] → desired setting.

**Touch Panel+Pad:** Activates both the touch panel operations when shooting with the monitor and touch pad operations when shooting with the viewfinder.

**Touch Panel Only:** Activates only the touch panel operations when shooting with the monitor.

**Touch Pad Only:** Activates only the touch pad operations when shooting with the viewfinder.
Touch Focus

With [Touch Focus], you can use touch operations to specify the position where you want to focus, when [Focus Area] is a setting other than [Flexible Spot], [Expand Flexible Spot], [Tracking: Flexible Spot], or [Tracking: Expand Flexible Spot]. Select MENU → (Setup) → [Touch Operation] → [On] beforehand.

MENU → 2 (Camera Settings 2) → [Func. of Touch Operation] → [Touch Focus].

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

You can specify the position where you want to focus using touch operations. After touching the monitor, press the shutter button halfway down to focus.

① Touch the monitor.
   • When shooting with the monitor, touch the position where you want to focus.
   • When shooting with the viewfinder, you can move the position of the focus by touching and dragging on the monitor while looking through the viewfinder.

   • To cancel focusing with touch operations, touch or press the center of the control wheel if shooting with the monitor, and press the center of the control wheel if shooting with the viewfinder.

② Press the shutter button halfway down to focus.
   • Press the shutter button all the way down to shoot images.
Specifying the position where you want to focus in the movie recording mode (spot focus)
The camera will focus on the touched subject. Spot focus is not available when shooting with the viewfinder.

Touch the subject on which you want to focus before or during recording.
- When you touch the subject, the focus mode temporarily switches to manual focus and the focus can be adjusted using the focus ring.
- To cancel spot focus, touch or press the center of the control wheel.

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

**Note**
- The touch focus function is not available in the following situations:
  - When [Focus Mode] is set to [Manual Focus]
  - When using the digital zoom
  - When using the LA-EA2 or LA-EA4

**Touch Tracking**
You can use touch operations to select a subject you want to track in the still image and movie recording modes. Select MENU → (Setup) → [Touch Operation] → [On] beforehand.

1. MENU → (Camera Settings 2) → [Func. of Touch Operation] → [Touch Tracking].
2 Touch the subject that you want to track on the monitor. Tracking will start.
   • When shooting with the viewfinder, you can specify the subject you want to track using the touch pad operations.

3 Press the shutter button halfway down to focus.
   • Press the shutter button all the way down to shoot images.

**Hint**

• To cancel tracking, touch or press the center of the control wheel.

**Note**

• [Touch Tracking] is unavailable in the following situations:
  – When shooting movies with [Record Setting] set to [120p]/[100p].
  – When [Focus Mode] is set to [Manual Focus].
  – When using the Smart Zoom, Clear Image Zoom and Digital Zoom
  – When using the LA-EA2 or LA-EA4 Mount Adaptor
  – When [Subject Detection] under [Face/Eye AF Set.] is set to [Animal].
Selecting a still image size/image quality

File Format

Sets the file format for still images.

MENU → 1(Camera Settings 1) → [File Format] → desired setting.

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

RAW & JPEG: A RAW image and a JPEG image are created at the same time. This is suitable when you need two image files, a JPEG for viewing, and a RAW for editing.

JPEG: The image is recorded in the JPEG format.

JPEG Quality

Selects the JPEG image quality when [File Format] is set to [RAW & JPEG] or [JPEG].

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

Extra fine/Fine/Standard: Since the compression rate increases from [Extra fine] to [Fine] to [Standard], the file size decreases in the same order. This allows more files to be recorded on one memory card, but the image quality is lower.
**JPEG Image Size**

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

**MENU →  📷1(Camera Settings 1) → [/jpeg Image Size] → desired setting.**

### When recording in the full-frame size

<table>
<thead>
<tr>
<th>Aspect Ratio</th>
<th>L: 60M</th>
<th>M: 26M</th>
<th>S: 15M</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:2</td>
<td>9504×6336 pixels</td>
<td>6240×4160 pixels</td>
<td>4752×3168 pixels</td>
</tr>
<tr>
<td>4:3</td>
<td>8448×6336 pixels</td>
<td>5552×4160 pixels</td>
<td>4224×3168 pixels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aspect Ratio</th>
<th>L: 51M</th>
<th>M: 22M</th>
<th>S: 13M</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:9</td>
<td>9504×5344 pixels</td>
<td>6240×3512 pixels</td>
<td>4752×2672 pixels</td>
</tr>
<tr>
<td>1:1</td>
<td>6336×6336 pixels</td>
<td>4160×4160 pixels</td>
<td>3168×3168 pixels</td>
</tr>
</tbody>
</table>

### When recording in the APS-C-equivalent size

<table>
<thead>
<tr>
<th>Aspect Ratio</th>
<th>L: 26M</th>
<th>M: 15M</th>
<th>S: 6.5M</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:2</td>
<td>6240×4160 pixels</td>
<td>4752×3168 pixels</td>
<td>3120×2080 pixels</td>
</tr>
<tr>
<td>4:3</td>
<td>5552×4160 pixels</td>
<td>4224×3168 pixels</td>
<td>2768×2080 pixels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aspect Ratio</th>
<th>L: 22M</th>
<th>M: 13M</th>
<th>S: 5.5M</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:9</td>
<td>6240×3512 pixels</td>
<td>4752×2672 pixels</td>
<td>3120×1752 pixels</td>
</tr>
<tr>
<td>1:1</td>
<td>4160×4160 pixels</td>
<td>3168×3168 pixels</td>
<td>2080×2080 pixels</td>
</tr>
</tbody>
</table>
Note
• When [File Format] is set to [RAW] or [RAW & JPEG], the image size for RAW images corresponds to “L.”

APS-C/Super 35mm

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

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

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

Auto: Automatically sets the capture range depending on the lens.

Off: Always captures 35mm full-frame image sensor pictures.

Note
• When you attach an APS-C compatible lens and set [APS-C/Super 35mm] to [Off], shooting may fail.
• When you set [APS-C/Super 35mm] to [On], the angle of view is equivalent to approx. 1.5 times the focal length indicated on the lens during still image shooting, and approx. 1.6 times that value during movie shooting (approx. 1.8 times the focal length indicated on the lens during XAVC S 4K movie shooting at 30p).
Shooting movies

Changing settings for movie recording

File Format

Selects the movie file format.

MENU → 2 (Camera Settings 2) → [File Format] → desired setting.

<table>
<thead>
<tr>
<th>File Format</th>
<th>Characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>XAVC S 4K</td>
<td>Records movies in 4K resolution (3840×2160).</td>
<td>You can save movies on a computer using the PlayMemories Home software.</td>
</tr>
<tr>
<td>XAVC S HD</td>
<td>Records movies in crisper quality than AVCHD with larger amounts of data.</td>
<td></td>
</tr>
<tr>
<td>AVCHD</td>
<td>The AVCHD format has a high degree of compatibility with storage devices other than computers.</td>
<td>You can save movies on a computer or create a disc that supports this format using the PlayMemories Home software.</td>
</tr>
</tbody>
</table>

For details on memory cards that can be used for these formats, refer to page 86.
Note

• When [File Format] is set to [AVCHD], the file size of movies is limited to approx. 2 GB. If the movie file size reaches approx. 2 GB during recording, a new movie file will be created automatically.
• When recording XAVC S 4K movies with [APS-C/Super 35mm] set to [Auto], the angle of view becomes narrower. When [Record Setting] is set to [25p 100M], [25p 60M], [24p 100M]*, or [24p 60M]* during XAVC S 4K movie shooting, the angle of view is equivalent to approx. 1.6 times the focal length indicated on the lens. When [Record Setting] is set to [30p 100M] or [30p 60M] during XAVC S 4K movie shooting, the angle of view is equivalent to approx. 1.8 times the focal length indicated on the lens.
  * Only when [NTSC/PAL Selector] is set to NTSC

Record Setting

Selects the frame rate and bit-rate for movie recording.

MENU → 2 (Camera Settings 2) → [Record Setting] → desired setting.
• The higher the bit-rate, the higher the image quality.

When [File Format] is set to [XAVC S 4K]

<table>
<thead>
<tr>
<th>Record Setting</th>
<th>Bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30p 100M/25p 100M</td>
<td>Approx. 100 Mbps</td>
<td>Records movies in 3840×2160 (30p/25p).</td>
</tr>
<tr>
<td>30p 60M/25p 60M</td>
<td>Approx. 60 Mbps</td>
<td>Records movies in 3840×2160 (30p/25p).</td>
</tr>
<tr>
<td>24p 100M*</td>
<td>Approx. 100 Mbps</td>
<td>Records movies in 3840×2160 (24p).</td>
</tr>
<tr>
<td>24p 60M*</td>
<td>Approx. 60 Mbps</td>
<td>Records movies in 3840×2160 (24p).</td>
</tr>
</tbody>
</table>

* Only when [NTSC/PAL Selector] is set to NTSC
When [File Format] is set to [XAVC S HD]

<table>
<thead>
<tr>
<th>Record Setting</th>
<th>Bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>60p 50M/50p 50M</td>
<td>Approx. 50 Mbps</td>
<td>Records movies in 1920×1080 (60p/50p).</td>
</tr>
<tr>
<td>60p 25M/50p 25M</td>
<td>Approx. 25 Mbps</td>
<td>Records movies in 1920×1080 (60p/50p).</td>
</tr>
<tr>
<td>30p 50M/25p 50M</td>
<td>Approx. 50 Mbps</td>
<td>Records movies in 1920×1080 (30p/25p).</td>
</tr>
<tr>
<td>24p 50M*</td>
<td>Approx. 50 Mbps</td>
<td>Records movies in 1920×1080 (24p).</td>
</tr>
<tr>
<td>120p 100M/100p 100M</td>
<td>Approx. 100 Mbps</td>
<td>Records high-speed movies in 1920×1080 (120p/100p). You can record movies in 120 fps or 100 fps. • You can create smoother slow-motion movies by using compatible editing devices.</td>
</tr>
<tr>
<td>120p 60M/100p 60M</td>
<td>Approx. 60 Mbps</td>
<td>Records high-speed movies in 1920×1080 (120p/100p). You can record movies in 120 fps or 100 fps. • You can create smoother slow-motion movies by using compatible editing devices.</td>
</tr>
</tbody>
</table>

* Only when [NTSC/PAL Selector] is set to NTSC

When [File Format] is set to [AVCHD]

<table>
<thead>
<tr>
<th>Record Setting</th>
<th>Bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>60i 24M (FX)/50i 24M (FX)</td>
<td>24 Mbps at maximum</td>
<td>Records movies in 1920×1080 (60i/50i).</td>
</tr>
<tr>
<td>60i 17M (FH)/50i 17M (FH)</td>
<td>Approx. 17 Mbps on average</td>
<td>Records movies in 1920×1080 (60i/50i).</td>
</tr>
</tbody>
</table>
Note

• Creating an AVCHD recording disc from movies that were recorded with [60i 24M (FX)]/[50i 24M (FX)] as the Record Setting takes a long time because the image quality of movies is converted. If you want to store movies without converting them, use a Blu-ray Disc.

• [120p]/[100p] cannot be selected for the following settings.
  – [Intelligent Auto]

• When [Proxy Recording] is set to [On], images cannot be output to an HDMI device while recording a 4K movie. When [Proxy Recording] is set to [Off], images are not displayed on the monitor of the camera while recording a 4K movie in a recording mode other than 24p*.

• When recording XAVC S 4K movies with [APS-C/Super 35mm] set to [Auto], the angle of view becomes narrower. When [Record Setting] is set to [25p 100M], [25p 60M], [24p 100M]*, or [24p 60M]* during XAVC S 4K movie shooting, the angle of view is equivalent to approx. 1.6 times the focal length indicated on the lens. When [Record Setting] is set to [30p 100M] or [30p 60M] during XAVC S 4K movie shooting, the angle of view is equivalent to approx. 1.8 times the focal length indicated on the lens.
  * Only when [NTSC/PAL Selector] is set to NTSC
Using network functions

Using the Wi-Fi/One-touch (NFC)/Bluetooth functions

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

- Saving images to a computer
- Transferring images from the camera to a smartphone
- Using a smartphone as a remote control for the camera
- Viewing still images on a TV
- Recording location information from a smartphone to images
- Transferring images to the FTP server

For details, refer to the “Help Guide” (page 2).

Installing Imaging Edge Mobile

Imaging Edge Mobile is required to connect the camera and a smartphone. If Imaging Edge Mobile is already installed on your smartphone, be sure to update it to the latest version.

For details on Imaging Edge Mobile, refer to the support page (https://www.sony.net/iem/).

Note

- To use the camera’s NFC One-touch function, an NFC-enabled smartphone or tablet is required.
- The Wi-Fi functions introduced in this manual are not guaranteed to operate on all smartphones or tablets.
- Depending on future version upgrades, the operational procedures or screen displays are subject to change without notice.
Recording location information to captured images

By using Imaging Edge Mobile, you can obtain location information from a connected smartphone (via Bluetooth communication) and record it to captured images.

For details on the operating procedure, refer to the “Help Guide” (page 2) or the following support page.

https://www.sony.net/iem/btg/

Transferring images to the FTP server

You can use the camera’s Wi-Fi function to transfer images to the FTP server.

For details, refer to the “FTP Help Guide.”

https://rd1.sony.net/help/di/ftp/h_zz/

- Basic knowledge of FTP servers is required.
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 → Network → [Wi-Fi Settings] → [Access Point Set].**

2. Use the control wheel to select the access point to which you want to connect. Press the center of the control wheel and enter the password for the wireless access point, then select [OK].

**Note**
- 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 PlayMemories Home on your computer.

PlayMemories Home
https://www.sony.net/pm/
Using a computer

Connecting the camera to a computer

1 Insert a sufficiently charged battery pack into the camera.

2 Turn on the camera and the computer.

3 Check that [USB Connection] under ☑ (Setup) is set to [Mass Storage].

4 Connect the camera to the computer using the USB cable.
   • When you connect the camera to the computer for the first time, the procedure for recognizing the camera may start automatically on the computer. Wait until the procedure is finished.
   • If you connect the camera to your computer using the USB cable when [USB Power Supply] is set to [On], power is supplied from your computer. (Default setting: [On])
   • Use the USB Type-C cable (supplied) or a USB-standard cable.
   • Use a USB 3.2-compatible computer and the USB Type-C cable (supplied) for higher-speed communications.
Note

• Do not turn on/off or restart the computer, or wake the computer from sleep mode when a USB connection has been established between the computer and the camera. Doing so may cause a malfunction. Before turning on/off or restarting the computer, or waking the computer from sleep mode, disconnect the camera from the computer.

Disconnecting the camera from the computer

Perform steps 1 and 2 below before performing the following operations:
• Disconnecting the USB cable.
• Removing a memory card.
• Turning off the product.

1 Click (Safely Remove Hardware and Eject Media) in the taskbar.

2 Click the displayed message.

Note

• On Mac computers, drag and drop the memory card icon or the drive icon into the “Trash” icon. The camera will be disconnected from the computer.
• Depending on the computer you are using, the disconnection icon may not appear. In that case, you can skip the steps above.
• Do not remove the USB cable from the camera while the access lamp is lit. The data may be damaged.
Introduction to computer software

We offer the following computer software to enhance your enjoyment of photos/movies. Access one of the following URLs using your Internet browser and then download the software by following the onscreen instructions.
If one of these software is already installed on your computer, update it to the latest version before use.

For details on the software for computers, refer to the following URL: https://www.sony.net/disoft/

You can check the recommended operating environment for the software from the following URL: https://www.sony.net/pcenv/

Imaging Edge Desktop

Imaging Edge Desktop is a software suite that includes functions such as remote shooting from a computer, and adjusting or developing RAW images recorded with the camera.

For details on Imaging Edge Desktop, refer to the following URL. https://www.sony.net/iex/

PlayMemories Home

PlayMemories Home allows you to import still images and movies to your computer and view or use them.
You need to install PlayMemories Home to import XAVC S movies or AVCHD movies to your computer.
You can access the download website directly from the following URL: https://www.sony.net/pm/

• When you connect the camera to your computer, new functions may be added to PlayMemories Home. Connecting the camera to your computer is therefore recommended even if PlayMemories Home has already been installed on the computer.
Using MENU items

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

1 Press the MENU button to display the menu screen.

2 Select the desired setting you want to adjust using the top/bottom/left/right sides of the control wheel or by turning the control wheel, and then press the center of the control wheel.

- Select the MENU tab at the top of the screen and press the left/right side of the control wheel to move to another MENU tab.
- You can also move to another MENU tab by turning the front dial.
- You can move to the next MENU tab by pressing the Fn button.
- You can go back to the previous screen by pressing the MENU button.

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

Hint

- You can display the menu screen by assigning the [MENU] function to a custom key using [ Custom Key] or [ Custom Key], and then pressing that key.
List of MENU items

For details on each MENU items, refer to the reference page in the last column or the Help Guide.

### 1 (Camera Settings 1) Red tab

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<th>Description</th>
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<td>Selects the file type for RAW images.</td>
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<td>JPEG Quality</td>
<td>Selects the JPEG image quality for [RAW &amp; JPEG] or [JPEG] under [File Format].</td>
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<tr>
<td>JPEG Image Size</td>
<td>Selects the size of still images. (L / M / S)</td>
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<tr>
<td>Aspect Ratio</td>
<td>Selects the aspect ratio for still images.</td>
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<tr>
<td>APS-C/Super 35mm</td>
<td>Sets whether to record in APS-C-equivalent size for still images and Super 35 mm-equivalent size for movies.</td>
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<tr>
<td>Long Exposure NR</td>
<td>Sets noise reduction processing for shots with a shutter speed of 1 second or longer.</td>
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<tr>
<td>High ISO NR</td>
<td>Sets noise reduction processing for high-sensitivity shooting.</td>
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<tr>
<td>Color Space</td>
<td>Changes the color space (range of reproducible colors).</td>
<td>Help Guide</td>
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<tr>
<td>Lens Comp.</td>
<td>Selects the type of lens compensation.</td>
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### Shoot Mode/Drive

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<td>Pixel Shift Multi Shoot.</td>
<td>Activates pixel shift multi shooting, which allows you to create higher-resolution images on a computer.</td>
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<tr>
<td>MR 1/2 Recall</td>
<td>Calls up settings pre-registered to [MR 1/2 Memory].</td>
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<td>MR 1/2 Memory</td>
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<td>MR Select Media</td>
<td>Selects the memory card slot from which settings are recalled or to which settings are registered for M1 through M4.</td>
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<td>Priority Set in AF-S</td>
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<td>Configures settings for focusing using the front dial, rear dial or control wheel.</td>
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<td>Focus Area Limit</td>
<td>Limits the types of available focus area settings in advance.</td>
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<td>Icon</td>
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<td>📷</td>
<td><strong>Switch V/H AF Area</strong>&lt;br&gt;Sets whether to adjust the [Focus Area] and the position of the focusing frame based on the camera’s position (horizontal or vertical).</td>
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<td><strong>AF Illuminator</strong>&lt;br&gt;Sets the AF illuminator, which provides light to aid focusing in dark scenes.</td>
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<td><strong>Face/Eye AF Set.</strong>&lt;br&gt;Configures settings such as whether the camera focuses with priority on human faces or eyes.</td>
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<td>📷</td>
<td><strong>Aperture Drive in AF</strong>&lt;br&gt;Changes the aperture drive system to prioritize the auto-focusing tracking performance or to prioritize silence.</td>
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<tr>
<td>📷</td>
<td><strong>AF w/ shutter</strong>&lt;br&gt;Sets whether to perform auto focusing when the shutter button is pressed halfway down. This is useful when you want to adjust the focus and exposure separately.</td>
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<tr>
<td>📷</td>
<td><strong>Pre-AF</strong>&lt;br&gt;Sets whether or not to perform auto focus before the shutter button is half pressed.</td>
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<td>📷</td>
<td><strong>Eye-Start AF</strong>&lt;br&gt;Sets whether to use auto focus when you look through the viewfinder if an LA-EA2/LA-EA4 Mount Adaptor (sold separately) is attached.</td>
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<td>📷</td>
<td><strong>AF Area Registration</strong>&lt;br&gt;Sets whether to move the focusing frame to a preassigned position when shooting still images.</td>
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<td><strong>Del. Regist. AF Area</strong>&lt;br&gt;Deletes the focusing frame position information that was registered using [(AF Area Registration)].</td>
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<td>📷</td>
<td><strong>Focus Frame Color</strong>&lt;br&gt;Sets the color of the frame indicating the focusing area.</td>
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<tr>
<td>📷</td>
<td><strong>AF Area Auto Clear</strong>&lt;br&gt;Sets whether the focus area is displayed all the time or disappears automatically shortly after focusing.</td>
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<td>Disp. cont. AF area</td>
<td>Sets whether or not to display the focus area in [Continuous AF] mode.</td>
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<td>Phase Detect. Area</td>
<td>Sets phase detection AF area.</td>
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<tr>
<td>Circ. of Focus Point</td>
<td>Sets whether to allow the focusing frame to jump from one end to the other when you move the focusing frame.</td>
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<tr>
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<tr>
<td>Reset EV Comp.</td>
<td>Sets whether to maintain the exposure value set using [Exposure Comp.] when you turn off the power when the exposure compensation dial position is set to “0.”</td>
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<tr>
<td>ISO Setting</td>
<td>Sets functions related to ISO sensitivity. ([ISO] / [ISO AUTO Min. SS], etc.)</td>
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<tr>
<td>Metering Mode</td>
<td>Selects the method for measuring brightness. ([Multi] / [Spot], etc.)</td>
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<tr>
<td>Face Priority in Multi Metering</td>
<td>Sets whether the camera measures brightness based on detected faces when [Metering Mode] is set to [Multi].</td>
<td>Help Guide</td>
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<tr>
<td>Spot Metering Point</td>
<td>Sets whether to coordinate the spot metering point with the focus area when [Focus Area] is set to [Flexible Spot], etc.</td>
<td>Help Guide</td>
</tr>
<tr>
<td>Exposure step</td>
<td>Selects the size of the increment step for shutter speed, aperture, and exposure compensation values.</td>
<td>Help Guide</td>
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</table>
### AEL w/ shutter
Sets whether to lock the exposure when the shutter button is pressed halfway down. This is useful when you want to adjust the focus and exposure separately.

### Exposure Std. Adjust
Adjusts the standard for the correct exposure value for each metering modes.

### Flash

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<td>Flash Comp.</td>
<td>Adjusts the intensity of flash output.</td>
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<tr>
<td>Exp.comp.set</td>
<td>Sets whether to reflect exposure compensation value to flash compensation.</td>
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<tr>
<td>Wireless Flash</td>
<td>Sets whether to shoot with the wireless flash.</td>
<td>Guide</td>
</tr>
<tr>
<td>Red Eye Reduction</td>
<td>Reduces the red-eye phenomenon when using flash.</td>
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<tr>
<td>External Flash Set.</td>
<td>Configures the settings of a flash (sold separately) attached to the camera using the monitor and control wheel of the camera.</td>
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### Color/WB/Img. Processing

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<td>White Balance</td>
<td>Corrects the tone effect of the ambient light to shoot whitish objects in a white tone. ([Auto] / [Daylight], etc.)</td>
<td>Guide</td>
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<tr>
<td>Priority Set in AWB</td>
<td>Selects which tone to prioritize when shooting under lighting conditions such as incandescent light with [White Balance] set to [Auto].</td>
<td>Guide</td>
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<tr>
<td>Feature</td>
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<tr>
<td>DRO</td>
<td>Analyzes the contrast of light and shadow between the subject and the background by dividing the image into small areas, and creates an image with the optimal brightness and gradation.</td>
<td></td>
</tr>
<tr>
<td>Creative Style</td>
<td>Selects the desired image processing. You can also adjust contrast, saturation, and sharpness. ([Vivid] / [Portrait], etc.)</td>
<td></td>
</tr>
<tr>
<td>Picture Effect</td>
<td>Shoots images with a texture unique to the selected effect. ([Toy Camera] / [High Contrast Mono.], etc.)</td>
<td></td>
</tr>
<tr>
<td>Picture Profile</td>
<td>Changes settings such as color and tone when recording images. * This function is for skilled movie creators.</td>
<td></td>
</tr>
<tr>
<td>Shutter AWB Lock</td>
<td>Sets whether to lock the white balance while the shutter button is pressed in the auto white balance mode.</td>
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</table>

**Focus Assist**

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<td>Focus Magnifier</td>
<td>Enlarges the image before shooting so that you can check the focus.</td>
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<tr>
<td>Focus Magnif. Time</td>
<td>Sets the length of time the image will be shown in an enlarged form.</td>
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<tr>
<td>Initial Focus Mag.</td>
<td>Sets the initial magnification scale when using [Focus Magnifier].</td>
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<tr>
<td>AF in Focus Mag.</td>
<td>Sets whether or not to autofocus when an enlarged image is being displayed. While the enlarged image is being displayed, you can focus within a smaller area than the flexible spot.</td>
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<tr>
<td>MF Assist</td>
<td>Displays an enlarged image when focusing manually.</td>
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</table>
### Peaking Setting
Sets the peaking function, which enhances the outline of in-focus areas when focusing manually.

### Shooting Assist

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<td>Anti-flicker Shoot.</td>
<td>Detects flickering/blanking from artificial light sources such as fluorescent lighting and times the shooting of images to moments when flickering will have less of an impact.</td>
<td>Help</td>
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</table>

### Face Registration
Registers or changes the person to be given priority when focusing.

### Regist. Faces Priority
Detects the registered face with higher priority using [Face Registration].

---

2 **(Camera Settings 2)**

#### Movie

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<tr>
<td>S&amp;Q Exposure Mode</td>
<td>Sets the exposure mode when shooting slow-motion/quick-motion movies.</td>
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<td>Selects the movie file format. ([XAVC S 4K] / [AVCHD], etc.)</td>
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<tr>
<td>Record Setting</td>
<td>Selects a frame-rate and bit-rate for the movie.</td>
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<td>Changes the settings for slow-motion and quick-motion movie shooting.</td>
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<td>Records low-bit-rate proxy files simultaneously when recording XAVC S movies.</td>
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<td>AF drive speed</td>
<td>Switches focusing speed when using autofocus in movie mode.</td>
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<td>Sets the AF tracking sensitivity for the movie mode.</td>
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<td>Auto Slow Shutter</td>
<td>Sets the function that automatically adjusts the shutter speed following the brightness of the environment in movie mode.</td>
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<tr>
<td>Initial Focus Mag.</td>
<td>Sets the initial magnification scale when using [Focus Magnifier] in movie mode.</td>
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<tr>
<td>Audio Recording</td>
<td>Sets whether to record audio when shooting a movie.</td>
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<tr>
<td>Audio Rec Level</td>
<td>Adjusts the audio recording level during movie recording.</td>
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<tr>
<td>Audio Level Display</td>
<td>Sets whether to display the audio level.</td>
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<tr>
<td>Audio Out Timing</td>
<td>Sets the timing of audio output during the movie recording.</td>
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<tr>
<td>Wind Noise Reduct.</td>
<td>Reduces wind noise during movie recording.</td>
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<tr>
<td>Marker Display</td>
<td>Sets whether to display markers on the monitor when recording movies.</td>
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<tr>
<td>Marker Settings</td>
<td>Sets which markers to display on the monitor when recording movies.</td>
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<td>Sets the illumination setting for the HVL-LBPC LED light (sold separately).</td>
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<td>Movie w/ shutter</td>
<td>Records movies using the shutter button.</td>
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<td>Silent Shooting</td>
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<td>e-Front Curtain Shutter</td>
<td>Sets whether to use the electronic front curtain shutter function.</td>
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<tr>
<td>Release w/o Lens</td>
<td>Sets whether to release the shutter when the lens is not attached.</td>
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<td>Release w/o Card</td>
<td>Sets whether to release the shutter when a memory card is not inserted.</td>
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<td>Sets whether to activate SteadyShot for shooting.</td>
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<tr>
<td>Zoom Setting</td>
<td>Sets whether to use the Clear Image Zoom and Digital Zoom when zooming.</td>
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<td>Zoom Ring Rotate</td>
<td>Assigns the zoom in/out to the rotational direction of the zoom lens.</td>
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<tr>
<td>Display/Auto Review</td>
<td>Sets the type of information to be displayed on the monitor or in the viewfinder when the DISP button is pressed.</td>
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<tr>
<td>DISP Button</td>
<td>Sets the method for switching the display between the viewfinder and the monitor.</td>
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<tr>
<td>FINDER/MONITOR</td>
<td>Sets the frame rate for the viewfinder when shooting still images.</td>
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<tr>
<td>Zebra Setting</td>
<td>Sets the stripes displayed to adjust brightness.</td>
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<tr>
<td>Grid Line</td>
<td>Displays grid lines for adjusting the image composition.</td>
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<tr>
<td>Exposure Set. Guide</td>
<td>Sets the guide displayed when exposure settings are changed in the shooting screen.</td>
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<tr>
<td>Live View Display</td>
<td>Sets whether to reflect settings such as exposure compensation in screen display.</td>
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<td>Cont. Shoot. Length</td>
<td>Sets whether to display an indicator of the remaining time for which continuous shooting can be performed at the same shooting speed.</td>
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<td><strong>Custom Operation</strong></td>
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<td>🎥 Custom Key</td>
<td>Assigns functions to the various keys so that you can perform operations more quickly by pressing the keys when shooting still images.</td>
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<tr>
<td>🎥 Custom Key</td>
<td>Assigns functions to the various keys so that you can perform operations more quickly by pressing the keys when shooting movies.</td>
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<tr>
<td>🎥 Custom Key</td>
<td>Assigns functions to the keys so that you can perform operations more quickly by pressing the keys when playing back images.</td>
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<td><strong>Function Menu Set.</strong></td>
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<td>Assigns the desired functions to the dials and the control wheel, and register up to three combinations of settings.</td>
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<tr>
<td><strong>Dial Setup</strong></td>
<td>Sets the functions of the front and rear dials when the exposure mode is set to M. Dials can be used for adjusting shutter speed and aperture value.</td>
<td>Help Guide</td>
</tr>
<tr>
<td><strong>Av/Tv Rotate</strong></td>
<td>Sets the direction of turning the front or rear dial or the control wheel to adjust the aperture value or shutter speed.</td>
<td>Help Guide</td>
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<tr>
<td><strong>Dial Ev Comp</strong></td>
<td>Sets whether to compensate the exposure with the front or rear dial.</td>
<td>Help Guide</td>
</tr>
<tr>
<td><strong>Function Ring (Lens)</strong></td>
<td>Assigns a function to the function ring on the lens.</td>
<td>Help Guide</td>
</tr>
<tr>
<td><strong>Func. of Touch Operation</strong></td>
<td>Sets which function is activated by touch operations on the monitor.</td>
<td>46, 47</td>
</tr>
<tr>
<td><strong>MOVIE Button</strong></td>
<td>Enables or disables for the MOVIE button.</td>
<td>Help Guide</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Lock Operation Parts</strong></td>
<td>Sets whether to disable the multi-selector, control wheel, or front and rear dials temporarily when the Fn button is pressed and held down.</td>
<td>Help Guide</td>
</tr>
<tr>
<td><strong>Audio signals</strong></td>
<td>Selects whether the camera beeps during auto focus and self-timer operations.</td>
<td>Help Guide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Green tab</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(Network)</strong></td>
</tr>
<tr>
<td><strong>Send to Smartphone Func.</strong></td>
</tr>
<tr>
<td><strong>Send to Computer (Wi-Fi)</strong></td>
</tr>
<tr>
<td><strong>FTP Transfer Func.</strong></td>
</tr>
<tr>
<td><strong>View on TV</strong></td>
</tr>
<tr>
<td><strong>Ctrl w/ Smartphone</strong></td>
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<tr>
<td><strong>PC Remote Function</strong></td>
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<tr>
<td><strong>Airplane Mode</strong></td>
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<tr>
<td><strong>Wi-Fi Settings</strong></td>
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<tr>
<td>Bluetooth Settings</td>
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<tr>
<td>Location Info. Link Set.</td>
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<tr>
<td>Bluetooth Rmt Ctrl</td>
</tr>
<tr>
<td>Edit Device Name</td>
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<tr>
<td>Import Root Certificate</td>
</tr>
<tr>
<td>Security (IPsec)</td>
</tr>
<tr>
<td>Reset Network Set.</td>
</tr>
</tbody>
</table>

**Blue tab**

<table>
<thead>
<tr>
<th>(Playback)</th>
<th>Blue tab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protect</td>
<td>Protects recorded images against accidental erasure.</td>
</tr>
<tr>
<td>Rotate</td>
<td>Rotates the image.</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes images.</td>
</tr>
<tr>
<td>Rating</td>
<td>Assigns rating to recorded images on a scale from ★ to ★★★.</td>
</tr>
<tr>
<td>Rating Set (Custom Key)</td>
<td>Sets the rating (number of ★) that can be selected using the custom key to which [Rating] has been assigned with [⿰ Custom Key].</td>
</tr>
<tr>
<td><strong>Specify Printing</strong></td>
<td>Specifies in advance on the memory card which still images to print out later.</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Copy</strong></td>
<td>Copies images from the memory card in the memory card slot designated in [Select Playback Media] to the memory card in the other slot.</td>
</tr>
<tr>
<td><strong>Photo Capture</strong></td>
<td>Captures a chosen scene in a movie to save as a still image.</td>
</tr>
<tr>
<td><strong>Enlarge Image</strong></td>
<td>Enlarges the playback images.</td>
</tr>
<tr>
<td><strong>Enlarge Initial Mag.</strong></td>
<td>Sets the initial magnification scale when playing back enlarged images.</td>
</tr>
<tr>
<td><strong>Enlarge Initial Position</strong></td>
<td>Sets the initial magnification area when playing back enlarged images.</td>
</tr>
<tr>
<td><strong>Cont. PB for Interval</strong></td>
<td>Continuously plays back images shot using interval shooting.</td>
</tr>
<tr>
<td><strong>PB Speed for Interval</strong></td>
<td>Sets the playback speed when continuously playing back images with [Cont. PB for Interval].</td>
</tr>
<tr>
<td><strong>Slide Show</strong></td>
<td>Plays a slide show.</td>
</tr>
<tr>
<td><strong>Select Playback Media</strong></td>
<td>Selects the memory card slot of the memory card to be played back.</td>
</tr>
<tr>
<td><strong>View Mode</strong></td>
<td>Plays back images from a specified date or specified folder of still images and movies.</td>
</tr>
<tr>
<td><strong>Image Index</strong></td>
<td>Displays multiple images at the same time.</td>
</tr>
<tr>
<td><strong>Display as Group</strong></td>
<td>Sets whether or not to display images shot continuously or shot using interval shooting as a group.</td>
</tr>
<tr>
<td><strong>Display Rotation</strong></td>
<td>Sets the playback orientation for images shot vertically.</td>
</tr>
<tr>
<td><strong>Image Jump Setting</strong></td>
<td>Sets which dial and method to use for jumping between images during playback.</td>
</tr>
<tr>
<td>Yellow tab</td>
<td>(Setup)</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td><strong>Monitor Brightness</strong></td>
<td>Adjusts the brightness of the screen.</td>
</tr>
<tr>
<td><strong>Viewfinder Bright.</strong></td>
<td>Sets the brightness of the viewfinder.</td>
</tr>
<tr>
<td><strong>Finder Color Temp.</strong></td>
<td>Sets the color temperature of the viewfinder.</td>
</tr>
<tr>
<td><strong>Gamma Disp. Assist</strong></td>
<td>Adjusts the screen to make monitoring easier when displaying an S-Log or HLG movie.</td>
</tr>
<tr>
<td><strong>Volume Settings</strong></td>
<td>Sets the volume for movie playback.</td>
</tr>
<tr>
<td><strong>Delete confirm.</strong></td>
<td>Sets whether [Delete] or [Cancel] is preselected in the delete confirmation screen.</td>
</tr>
<tr>
<td><strong>Display Quality</strong></td>
<td>Sets the display quality. * When [High] is selected, the battery is consumed more quickly. * When the temperature of the camera is high, [Display Quality] may be locked to [Standard].</td>
</tr>
<tr>
<td><strong>Power Save Start Time</strong></td>
<td>Sets the time intervals to automatically switch to power save mode.</td>
</tr>
<tr>
<td><strong>Auto Power OFF Temp.</strong></td>
<td>Sets the camera temperature at which the camera turns off automatically during shooting. When shooting in hand-held mode, set to [Standard].</td>
</tr>
<tr>
<td><strong>NTSC/PAL Selector*1</strong></td>
<td>Changes the TV format of the device so that you can shoot in a different movie format.</td>
</tr>
<tr>
<td><strong>Cleaning Mode</strong></td>
<td>Starts the cleaning mode to clean the image sensor.</td>
</tr>
<tr>
<td><strong>Touch Operation</strong></td>
<td>Sets whether or not to activate the touch operation of the monitor.</td>
</tr>
<tr>
<td><strong>Touch Panel/Pad</strong></td>
<td>Selects whether to activate touch panel operation when shooting with the monitor, or touch pad operation when shooting with the viewfinder.</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Touch Pad Settings</strong></td>
<td>Adjusts settings related to touch pad operation.</td>
</tr>
<tr>
<td><strong>Demo Mode</strong></td>
<td>Sets demonstration playback of movies to on or off.</td>
</tr>
</tbody>
</table>
| **TC/UB Settings** | Sets the time code (TC) and user bit (UB).  
* This function is for skilled movie creators. |
| **IR Remote Ctrl** | Sets whether to use the infrared remote control. |
| **HDMI Settings** | Sets the HDMI settings.  
* Images will not appear on the monitor of the camera if you record movies while the camera is connected to an HDMI device with [File Format] set to [XAVC S 4K]. |
<p>| <strong>4K Output Select</strong> | Sets how to record and output 4K movies via HDMI when the camera is connected to an external recorder/player that supports 4K. |
| <strong>USB Connection</strong> | Sets the USB connection method. |
| <strong>USB LUN Setting</strong> | Enhances compatibility by limiting the functions of USB connection. Set to [Multi] in normal conditions and to [Single] only when the connection cannot be established. |
| <strong>USB Power Supply</strong> | Sets whether to supply power via USB connection when the camera is connected to a computer or USB device. |
| <strong>Language</strong> | Selects the language. |
| <strong>Date/Time Setup</strong> | Sets the date, time, and daylight savings. |</p>
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>Help Guide</th>
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</thead>
<tbody>
<tr>
<td>Area Setting</td>
<td>Sets the location of use.</td>
<td></td>
</tr>
<tr>
<td>IPTC Information</td>
<td>Writes IPTC information when recording still images.</td>
<td></td>
</tr>
<tr>
<td>Copyright Info</td>
<td>Sets copyright information for still images.</td>
<td></td>
</tr>
<tr>
<td>Write Serial Number</td>
<td>Writes the camera’s serial number to the Exif data when recording still images.</td>
<td></td>
</tr>
<tr>
<td>Format</td>
<td>Formats the memory card.</td>
<td></td>
</tr>
<tr>
<td>Rec. Media Settings</td>
<td>Sets the method for recording images to two memory card slots.</td>
<td></td>
</tr>
<tr>
<td>File/Folder Settings</td>
<td>Sets file names for still images to be shot, and specifies folders for storing the shot still images.</td>
<td></td>
</tr>
<tr>
<td>File Settings</td>
<td>Sets file numbers and file names for movies to be recorded.</td>
<td></td>
</tr>
<tr>
<td>Recover Image DB</td>
<td>Recovers the image database file and enables recording and playback.</td>
<td></td>
</tr>
<tr>
<td>Display Media Info.</td>
<td>Displays the remaining recording time of movies and the recordable number of still images on the memory card.</td>
<td></td>
</tr>
<tr>
<td>Version</td>
<td>Displays the camera software version.</td>
<td></td>
</tr>
<tr>
<td>Save/Load Settings</td>
<td>Saves the camera settings to a memory card, or reads saved settings from the memory card.</td>
<td></td>
</tr>
<tr>
<td>Setting Reset</td>
<td>Restores settings to their defaults. Select [Initialize] to restore all settings to their default values.</td>
<td></td>
</tr>
</tbody>
</table>
### (My Menu)  

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Help Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add Item</strong></td>
<td>Adds desired MENU items to ★ (My Menu).</td>
<td></td>
</tr>
<tr>
<td><strong>Sort Item</strong></td>
<td>Sorts the MENU items added to ★ (My Menu).</td>
<td></td>
</tr>
<tr>
<td><strong>Delete Item</strong></td>
<td>Deletes MENU items added to ★ (My Menu).</td>
<td></td>
</tr>
<tr>
<td><strong>Delete Page</strong></td>
<td>Deletes all the MENU items on a page in ★ (My Menu).</td>
<td></td>
</tr>
<tr>
<td><strong>Delete All</strong></td>
<td>Deletes all the MENU items added to ★ (My Menu).</td>
<td></td>
</tr>
<tr>
<td><strong>Display From My Menu</strong></td>
<td>Sets whether or not to display the My Menu first when the MENU button is pressed.</td>
<td></td>
</tr>
</tbody>
</table>

*1 If you change this item, you will need to format the memory card for compatibility with the PAL or NTSC system. Also, note that it may not be possible to play back movies recorded for the NTSC system on PAL system TVs.
List of icons on the monitor

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

Icons on the shooting screen

Monitor mode

1. Shooting mode/
   Scene recognition

   - i \( \bar{P} \) P \( \bar{A} \) S M
   - S\( \bar{S} \) P \( \bar{S} \) A S M

   - Shooting mode (34)

2. Register number (64)

3. Scene Recognition icons

Viewfinder mode

1. Camera settings

   - NO CARD
   - Memory card status (28, 86)

   - Remaining number of recordable images / recordable times

2. Writing data / Number of images left to write

   - Aspect ratio of still images (63)

   - 3:2 4:3 16:9 1:1
Image size of still images (50)

RAW
RAW recording (compressed/uncompressed) (49)

X.FINE FINE STD
JPEG Quality (49)

XAVC S 4K XAVC S HD AVCHD
File format of movies (52)

Record setting of movies (53)

120p 60p 60i 30p 24p
100p 50p 50i 25p
Frame rate of movies (53)

Proxy Recording (69)

120fps 60fps 30fps 15fps 8fps 4fps
100fps 50fps 25fps 12fps 6fps 3fps 2fps 1fps
Frame rate for slow/quick motion shooting (69)

APS-C/Super 35mm (51, 63)

Flash charge in progress

VIEW
Setting Effect OFF (71)

AF Illuminator (65)

Flicker
Flickering detected (69)

SteadyShot off/on, Camera shake warning (70)

SteadyS. Focal Len./ Camera shake warning (71)

Smart Zoom / Clear Image Zoom / Digital Zoom (71)

PC remote (73)

Bright Monitoring

Silent Shooting (70)

Remote control (77)

No audio recording of movies (70)

Wind Noise Reduct. (70)
Copyright information writing on (78)

### IPTC

IPTC information writing on (78)

- Gamma Disp. Assist (76)
- Focus Cancel (46)
- Tracking Cancel (47)

**Spot Focus**

Performing [Spot Focus] (47)

- NFC active (56)
- Bluetooth connection available / Bluetooth connection unavailable (74)
- Connected to smartphone / Not connected to smartphone
- Obtaining location information/ Location information cannot be obtained (74)
- Airplane Mode (73)
- Overheating warning

### Battery

- Remaining battery (26)
- Remaining battery warning
- USB power supply (77)

### Shooting settings

- Drive Mode (43)
- Flash Mode (67) / Wireless Flash (67) / Red Eye Reduction (67)
- Flash Comp. (67)
- Focus Mode (36)
- Focus Area (38)
**JPEG RAW [RAW][RAW+J][RAW+J]**

File Format (49)

- Metering Mode (66)

**AWB [AWB][AWB][AWB] [AWB][AWB]**

7500K A5 G5

White Balance (Auto, Preset, Underwater Auto, Custom, Color temperature, Color filter) (67)

- D-Range Optimizer (68)

<table>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Land</td>
<td>Sunset</td>
<td>Night</td>
<td>Auto</td>
<td>B/W</td>
<td>Sepia</td>
<td></td>
</tr>
</tbody>
</table>

+3 +3 +3

Creative Style (68)/Contrast, saturation, and sharpness

- Picture Effect (68)

- Face/Eye Priority in AF (65)

- Picture Profile (68)

- Prioritize Rec. Media (78)

**Focus indicator/exposure settings**

- Focus indicator (37)

1/250

Shutter speed

F3.5

Aperture value

- Exposure compensation (66)/Metered Manual

**ISO400 ISO AUTO ISO400**

ISO sensitivity (66)

- AE lock/FEL lock/AWB lock

**Guides/other**

- Tracking Cancel
  Guide display for tracking (47)

- Focus Cancel
  Guide display for canceling focusing (46)

- Control wheel function

- Guide display for My Dial

- Bracket indicator
Spot metering area (66)

Exposure Setting Guide (71)

Shutter speed indicator

Aperture indicator

Histogram

Digital level gauge

STBY REC
Movie recording standby/Movie recording in progress

Icons on the playback screen

Single-image playback display

1 Basic information

2 Playback media (75)

Histogram display

1 View Mode (75)

2 IPTC

3 IPTC Information (78)

4 1” 15” 30” 2/4
Pixel Shift Multi Shoot.

1:00:12
Actual movie recording time (hours: minutes: seconds)

Audio Level Display (70)

REC Control (77)

00:00:00
Time code (hours: minutes: seconds: frames) (77)

00 00 00 00
User Bit (77)
2 Camera settings
Refer to “Icons on the shooting screen” (page 80).

3 Shooting settings

35mm
Lens focal length

HLG
HDR recording (Hybrid Log-Gamma)

Refer to “Icons on the shooting screen” (page 80) for other icons displayed in this area.

4 Image information

Latitude/longitude information (57)

Copyright information included

2019-1-1 10:37PM
Date of recording (33)

Folder number — File number (78)

Movie file number (78)

Histogram (Luminance/R/G/B)
About this product

Specifications

Memory cards that can be used

This camera only supports SD memory cards (UHS-II compatible). When using microSD memory cards with this camera, be sure to use the appropriate adaptor.

<table>
<thead>
<tr>
<th>Recording format</th>
<th>Supported memory card</th>
</tr>
</thead>
<tbody>
<tr>
<td>Still image</td>
<td>SD/SDHC/SDXC card</td>
</tr>
<tr>
<td>AVCHD</td>
<td>SD/SDHC/SDXC card</td>
</tr>
<tr>
<td></td>
<td>(Class 4 or faster, or U1 or faster)</td>
</tr>
<tr>
<td>XAVC S</td>
<td>SDHC/SDXC card</td>
</tr>
<tr>
<td>4K 60 Mbps*</td>
<td>(Class 10, or U1 or faster)</td>
</tr>
<tr>
<td>HD 50 Mbps or lower*</td>
<td></td>
</tr>
<tr>
<td>HD 60 Mbps</td>
<td></td>
</tr>
<tr>
<td>4K 100 Mbps*</td>
<td>SDHC/SDXC card (U3)</td>
</tr>
<tr>
<td>HD 100 Mbps</td>
<td></td>
</tr>
</tbody>
</table>

* Including when recording proxy movies at the same time

Note

• When an SDHC memory card is used to record an XAVC S movie over extended periods of time, the recorded movies will be divided into files 4 GB in size. The divided files can be handled as a single file by importing them to a computer using PlayMemories Home.

• When recording a movie on memory cards in both the slot 1 and the slot 2 with following camera settings, insert two memory cards with the same file system. XAVC S movies cannot be recorded simultaneously when using a combination of the exFAT file system and FAT32 file system.
  – [File Format] is set to [XAVC S 4K] or [XAVC S HD]
  – [Recording Mode] under [Rec. Media Settings] is set to [Simult. ()] or [Simult. ( / )]

<table>
<thead>
<tr>
<th>Memory card</th>
<th>File system</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDXC memory card</td>
<td>exFAT</td>
</tr>
<tr>
<td>SDHC memory card</td>
<td>FAT32</td>
</tr>
</tbody>
</table>

• Charge the battery pack sufficiently before attempting to recover the database files on the memory card.
Specifications

Camera

[System]
Camera Type: Interchangeable Lens Digital Camera
Lens: Sony E-mount lens

[Image sensor]
Image format: 35 mm full frame (35.7 mm × 23.8 mm), CMOS image sensor
Effective pixel number of camera: Approx. 61 000 000 pixels
Total pixel number of camera: Approx. 62 500 000 pixels

[SteadyShot]
In-camera sensor shift image stabilization system

[Auto focus system]
Detection system: Phase detection system/Contrast detection system
Sensitivity Range: –3 EV to +20 EV (at ISO 100 equivalent, F2.0)

[Electronic viewfinder]
Type: 1.3 cm (0.5 type) Electronic Viewfinder
Total number of dots: 5 760 000 dots
Magnification: Approx. 0.78× with 50 mm lens at infinity, –1 m⁻¹
Eye Point: Approx. 23 mm from the eyepiece and approx. 18.5 mm from the eyepiece frame at –1 m⁻¹
Diopter Adjustment: –4.0 m⁻¹ to +3.0 m⁻¹

[Monitor]
7.5 cm (3.0 type) TFT drive, touch panel
Total number of dots: 2 359 296 dots

[Exposure control]
Metering method: 1 200-zone evaluative metering
Metering Range: –3 EV to +20 EV (at ISO 100 equivalent with F2.0 lens)
ISO sensitivity (Recommended exposure index):
Still images: ISO 100 to ISO 32 000 (Extended ISO: Minimum ISO 50, maximum ISO 102 400)
Movies: ISO 100 to ISO 32 000 equivalent

[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
1080 60i-compatible devices (1080 50i-compatible devices): up to 1/60 (1/50) second in AUTO mode (up to 1/30 (1/25) second in Auto slow shutter mode)
Flash sync speed: 1/250 second (when using a flash manufactured by Sony)

[Recording format]
File format: JPEG (DCF Ver. 2.0, Exif Ver. 2.31, 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.
[Recording media]
SLOT 1/SLOT 2: Slot for SD cards (UHS-I and UHS-II compatible)

[Input/output terminals]
USB Type-C terminal: SuperSpeed USB 5Gbps (USB 3.2)
Multi/Micro USB Terminal*: Hi-Speed USB (USB 2.0)
* Supports Micro USB compatible devices.
HDMI: HDMI type D micro jack
 microphone terminal: Ø 3.5 mm Stereo mini jack
 headphones terminal: Ø 3.5 mm Stereo mini jack
 flash sync terminal

[General]
Rated input: 7.2 V, 3.7 W
Operating temperature:
0 to 40°C (32 to 104°F)
Storage temperature:
–20 to 55°C (–4 to 131°F)
Dimensions (W/H/D) (Approx.):
128.9 × 96.4 × 77.5 mm
128.9 × 96.4 × 67.3 mm
(from grip to monitor)
5 1/8 × 3 7/8 × 3 1/8 in.
5 1/8 × 3 7/8 × 2 3/4 in.
(from grip to monitor)
Mass (Approx.):
665 g (1 lb 7.5 oz) (including battery pack, SD card)

[Wireless LAN]
WW447485 (see name plate on the bottom of camera)
Supported format:
IEEE 802.11 a/b/g/n/ac
Frequency band: 2.4 GHz/5 GHz
Security: WEP/WPA-PSK/WPA2-PSK
Connection method:
Wi-Fi Protected Setup™ (WPS)/Manual
Access method: Infrastructure mode

WW778752 (see name plate on the bottom of camera)
Supported format:
IEEE 802.11 b/g/n
Frequency band: 2.4 GHz
Security: WEP/WPA-PSK/WPA2-PSK
Connection method:
Wi-Fi Protected Setup™ (WPS)/Manual
Access method: Infrastructure mode

[NFC]
Tag type: NFC Forum Type 3 Tag compliant

[Bluetooth communications]
Bluetooth standard Ver. 4.1
Frequency band: 2.4 GHz

Battery charger BC-QZ1
Rated input:
100 - 240 V, 50/60 Hz, 0.38 A
Rated output: 8.4 V, 1.6 A

Rechargeable battery pack
NP-FZ100
Rated voltage: 7.2 V

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

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