SONY

Live-View Remote   RM-LVR2

How to use

Read This First

Identifying the parts

Screen display during single connection

Screen display during multi connection

Getting Started

Charging this unit

Attaching a belt to this unit

Turning on/off the power of this unit

Setting the date and time

Connecting devices settings

Remote control settings

Viewing

Playing back images

Switching the screen indicator

Deleting images

Others

Precautions

The list of time differences for world capitals

Specifications

Trademarks

Note on the License

Care and storage

Battery pack

Disposal of this unit

Troubleshooting

Troubleshooting

Cannot connect this unit and the camera via Wi-Fi.

Cannot turn on this unit.

The power of this unit turns off suddenly.

Cannot charge this unit.

The remaining charge indicator is incorrect.

Warning indicators and error messages

Error display on the Live-View Remote

[1] How to use │ Read This First │ Identifying the parts
Identifying the parts
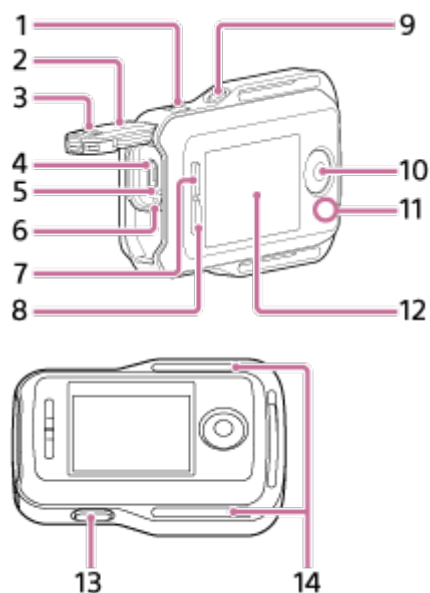
1. MENU button
2. Connector cover
3. Lock lever
4. Multi/Micro USB terminal
5. RESET (Reset) button
6. CHG (Charge) lamp
7. UP button
8. DOWN button
9. DISP button
10. REC/ENTER button
11. REC/Wi-Fi lamp
12. LCD screen
13. ON/OFF (Power) button
14. Loop for a belt

---

[2] How to use │ Read This First │ Screen display during single connection

Screen display during single connection

The indicators described below are displayed on the remote control display panel during single connection.

- The indicators differ depending on the connected camera.

Clock display
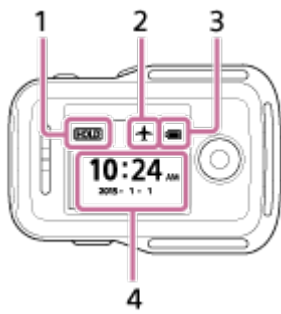
1. Button hold icon
2. Airplane mode icon
   - The icon of the airplane mode ✈ will be displayed when the airplane mode is set to ON.
3. Battery level indicator of this unit

   - When the remaining battery charge decreases, the battery level indicator will change in the direction of an arrow as illustrated.
4. Clock display

Live-View display

1. Shooting mode indicator
   - During movie recording, 🎞 appears. During still image shooting, 📷 appears. During interval photo recording, 🕐 appears. During loop recording, ⟳ appears. During audio recording, ♪ appears.
2. Button hold icon
3. Battery level indicator of this unit

   - When the remaining battery charge decreases, the battery level indicator will change in the direction of an arrow.
4. REC icon
5. Shooting mode switching indicator
6. Memory card warning icon/Temperature increase icon
   - The 🔆 is displayed when the temperature of the camera increases. Leave the power turned off to allow the temperature of the camera or the battery to decrease.
7. Remaining battery charge indicator of the camera

Shooting information screen
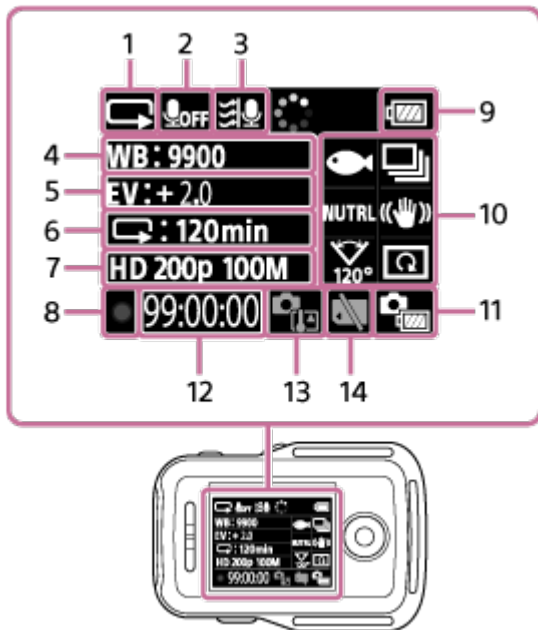
1. Shooting mode display

   - During movie recording, 🎬 appears. During still image shooting, 📷 appears. During interval photo recording, ⏱ appears. During loop recording, ⟲ appears. During audio recording, ♪ appears.

2. Audio recording icon
3. Wind noise reduction
4. White balance
5. AE shift
6. Interval recording/self-timer display
7. Image setting/still image shooting interval
8. REC icon
9. Battery level indicator of this unit

   - When the remaining battery charge decreases, the battery level indicator will change in the direction of an arrow.

10. Scene icon 🐟 /Still image mode switching ▣ /Color mode NUTRL /SteadyShot ((👋)) /Field angle setting ▽₁₂₀° /Flip Ⓠ

    - Icons are changed depending on the settings.

11. Battery level indicator of the camera
12. Shooting time/the number of recordable photos/the number of photos
13. Temperature increase icon

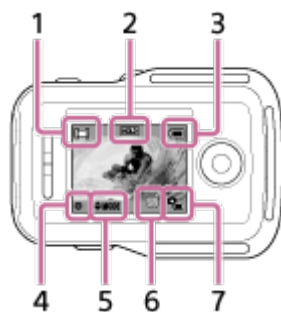   - The 🌡 is displayed when the temperature of the camera increases. Leave the power turned off to allow the temperature of the camera or the battery to decrease.

14. Memory card warning icon

Screen display during multi connection

The indicators described below are displayed on the remote control display panel during multi connection.
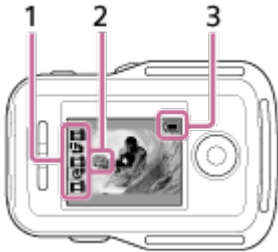
1. Shooting mode indicator/REC icon

   - The shooting mode and recording status of the connected camera is displayed. The position of the orange cursor indicates the camera currently displaying Live-View.
   - The REC icon is displayed on the top right side of the shooting mode display while images are being recorded.

2. Temperature increase indicator

   - Indicates when the temperature of the connected camera rises.
     Leave the power turned off to allow the temperature of the camera or the battery to decrease.

3. Battery level indicator of this unit

   - When the remaining battery charge decreases, the battery level indicator will change in the direction of an arrow.

Charging this unit

Charge this unit using power supplied from the computer.

1. Check that the power of this unit is OFF.

2. Connect this unit to an activated computer with the micro USB cable (supplied).

   - The CHG (Charge) lamp lights up amber and charging begins.
     The CHG (Charge) lamp turns off when charging is completed.

Battery charging time[*1] as follows.
Via a computer: Approx. 4 hours 5 minutes
Via AC-UD10[*2]: Approx. 2 hours 55 minutes

Note

- You can charge this unit even if it is not completely discharged. Also, even if this unit is not fully charged, you can use the partial charge capacity of the battery pack as is.
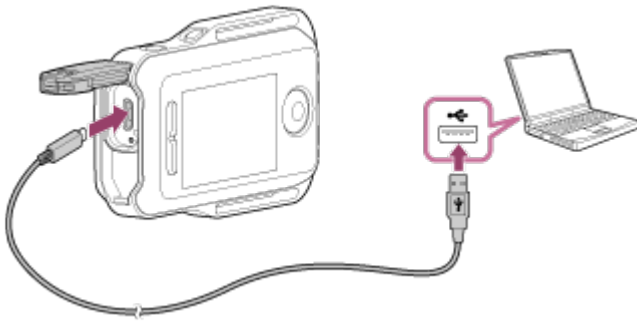- When the power of this unit is on, it is supplied with power but not charged.
- To maintain this unit's function, fully charge this unit at least once from six months to a year while storing. Also, store it in a cool, dry place.

Hint

A remaining charge indicator appears on the upper right of the display panel.

- The displayed remaining charge indicator may not be correct under certain circumstances.
- It takes about 30 seconds until the correct remaining charge indicator appears.
- If the battery pack runs out quickly even though the remaining charge indicator is high, fully charge this unit again. The remaining charge indicator will then be displayed correctly. Note that it may not be displayed correctly in the following situations:

  - This unit is used for a long time at high ambient temperature.
  - This unit is left fully charged.
  - This unit is used heavily.

- Use the AC-UD10 AC adapter (sold separately) for charging if you do not have a computer.

---

[5] How to use │ Getting Started │ Attaching a belt to this unit
Attaching a belt to this unit

Attach the belt to this unit.

1. Place this unit on the base plate and thread the belt through the belt loop of this unit as illustrated in ①, and then attach it as illustrated in ②.

   - You can adjust the belt length depending on the pasting position of Ⓐ and Ⓑ
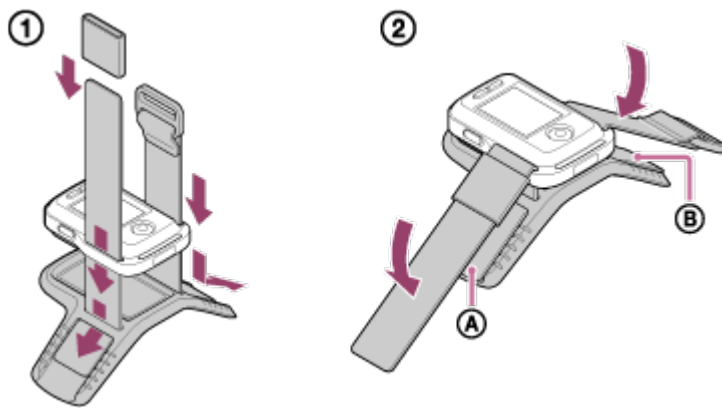
2. To fasten the remote control to your arm, wear it on the back of your hand as the "OK" illustration. Then, thread the belt through Ⓒ , facing the REC/ENTER button toward your fingertips, and the LCD screen toward your elbow.

- After attaching Ⓓ, move Ⓔ to cover the end of Ⓓ.
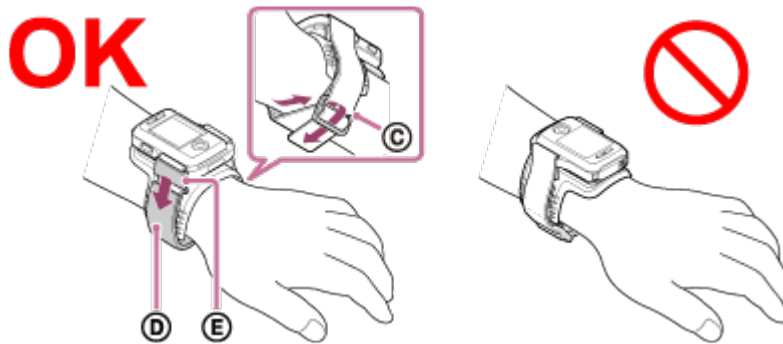
Note

- Attaching the belt incorrectly may cause injury.
- When placing the remote control on your right arm, set the screen rotation in the remote control settings to ON.
- When using the remote control attached to your arm, always attach the supplied base plate and belt correctly.
- Be careful not to drop the remote control when unfastening the belt.

---

[6] How to use │ Getting Started │ Turning on/off the power of this unit
Turning on/off the power of this unit

Turn on/off the power of this unit.

1. Make sure that the connector cover of this unit is closed.

- Securely close the connector cover until the yellow mark under the lock lever can no longer be seen. If any foreign matter such as sand gets inside the connector cover, the sealing gasket may be scratched, leading to water entering the remote control.

2. Press the ON/OFF (Power) button.

- When this unit is turned on for the first time, the date and time/area/daylight saving time (summer time) setting screen is displayed.

Turning off the power

To turn off the remote control, press the ON/OFF (Power) button again.

---

[7] How to use │ Getting Started │ Setting the date and time
Setting the date and time

When using for the first time or after updating of this unit's software, the date and time/area/daylight saving time (summer time) setting screen is displayed. Set the date and time before using this unit.

1. Press the UP button or DOWN button to select the desired item, then press the REC/ENTER button.

- The following items are displayed in turn on the LCD screen.

  - GMT : ±0.0 : Area setting
  - ☀:OFF : Daylight Saving Time (Summer time)
  - Y-M-D/M(Eng)-D-Y/M-D-Y/D-M-Y: Date format
  - Y-M-D: Year-Month-Day setting
  - 00:00: Clock setting
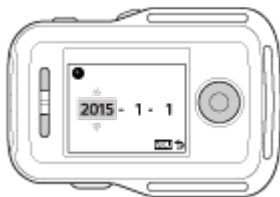
2. Press the UP button or DOWN button to set the date and time, then press the REC/ENTER button.

- You can adjust the date format and clock setting from the MENU items. See "Date & time/area/daylight saving time (summer time) setting."

---

[8] How to use │ Getting Started │ Connecting this unit to a camera via Wi-Fi (Single connection)
Checking the connection mode

Check that the connection mode of this unit is set to the single connection before connecting this unit and the camera via Wi-Fi.

- Refer to the instruction manual on the website for how to confirm the connection mode of the camera.

1. Turn on the power.

2. Press the MENU button.

    - The list of setting items is displayed.

3. Press the UP button or DOWN button to select 🎛 (Remote control settings) - 📷⋯🎛 (Connection mode) and press the REC/ENTER button.

4. Check that the 📷⋯🎛 (Single connection) is selected, then press the REC/ENTER button.

    - If the connection mode is set to 📷⋯🎛 (Multi connection), switch to 📷⋯🎛 (Single connection).

---

[9] How to use │ Getting Started │ Connecting this unit to a camera via Wi-Fi (Single connection)

Connecting this unit to a single camera via Wi-Fi

You can operate the camera at a distance when the camera is connected to this unit via Wi-Fi.

1. Turn on this unit.

    - The Wi-Fi standby screen is displayed.

2. Turn on the camera.
    - **Action Cam excluding HDR-AZ1**
      Press the NEXT or PREV button.

    - **HDR-AZ1/Lens-style Camera (QX series)**

Press the ON/OFF (Power) button.

3. Check the camera setting.
   - **Action Cam excluding HDR-AZ1**
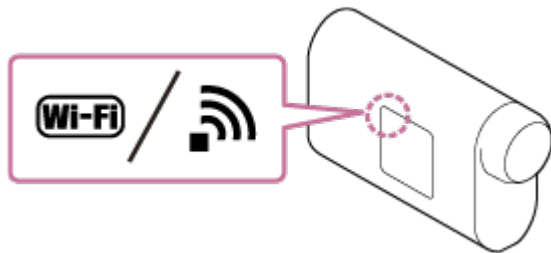
   - **HDR-AZ1/Lens-style Camera (QX series)**
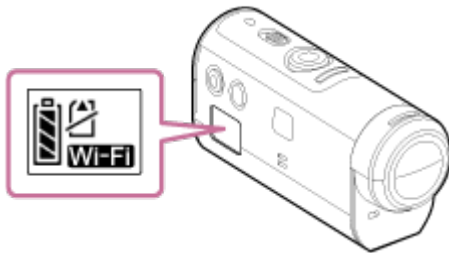
   - Check that a Wi-Fi mark is displayed on the display panel of the camera.
   - For DSC-QX100/QX10, the Wi-Fi indicator is not displayed on the camera display.
   - If the connection mode of the camera is set to the multi connection, switch to the single connection.
   - For HDR-AS15/AS30V, insert a memory card to the camera.

4. Select the camera you want to connect to this unit.
   i. Press the UP button or DOWN button to select the SSID (the destination) from the list.
   ii. Press the REC/ENTER button.
   iii. When this unit is in the standby status, proceed to step 5 within 2 minutes.
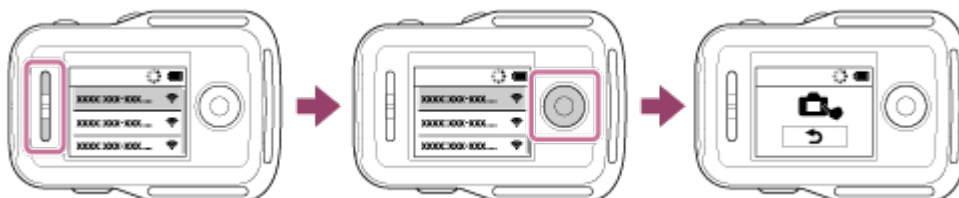
   - If you press the REC/ENTER button in the standby status, the remote control will be released from the standby status. In this case, select the SSID of the camera again.
   - If the SSID is not displayed, check that the camera is in single connection mode. Refer to the Help Guide of the camera on the website for how to check the connection mode of the camera.

5. Connect this unit to the camera.

- **Action Cam excluding HDR-AZ1**

  When [ACPT?] is displayed on the display panel of the camera, press **the ENTER button of the camera**.

  – If [ACPT?] is not displayed on the display panel of the camera, restart the camera and try again from step 3.

- **HDR-AZ1/Lens-style Camera (QX series)**

  When you hear the connection confirmation beep, press and hold **the Wi-Fi button of the camera** (Shutter button for the DSC-QX100/QX10) until you hear the connection beep.

  – If the connection confirmation beep does not sound, restart the camera and try again from step 3.
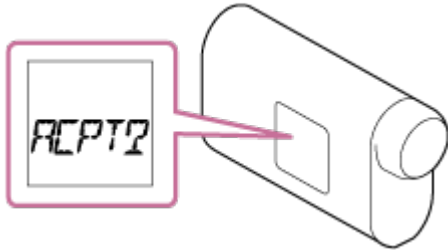 – If the beep is set to OFF, the connection confirmation beep does not sound.
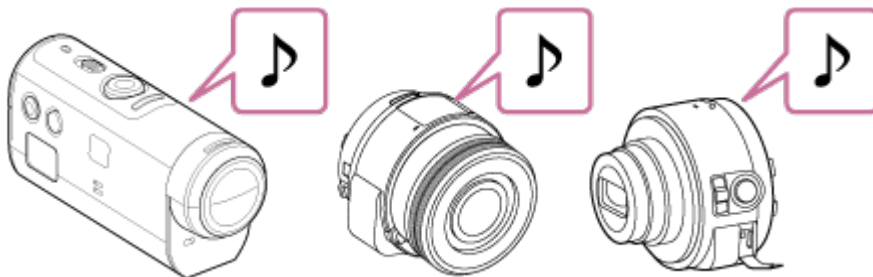
- After the connection is established, the LCD screen of the remote control switches to the Live-View display and the REC/Wi-Fi lamp lights in blue.

Note

- Once all steps are completed, this unit and the camera will be automatically connected when you turn on the power.
- The SSID of the camera is displayed on this unit with "DIRECT-" removed.
- You cannot copy images recorded in the camera to this unit.

If you cannot connect this unit to the camera via Wi-Fi / if the connection is not established

- If this unit cannot connect to the camera via Wi-Fi, check that the camera is in single connection mode. If the camera is not in the single mode, change the connection mode and reconnect it.
- If the connection to the camera is not completed, the signal traffic may be heavy. In this case, move to another location and try again.

Connecting this unit to multiple cameras via Wi-Fi

You can connect a maximum of five cameras to this unit and operate all cameras simultaneously.
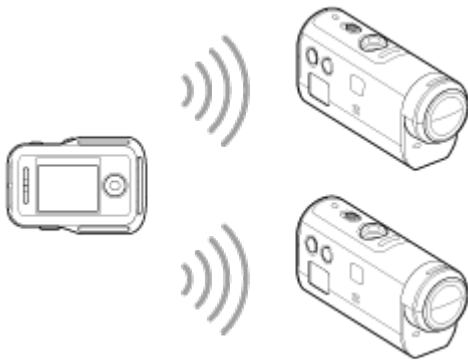
1. Turn on this unit.

2. Press the MENU button.

   - The list of setting items is displayed.

3. Press the UP button or DOWN button to select ⬛ (Remote control settings) - ⬛┄┄⬛ (Connection mode) - ⬛┄┄⬛ (Multi connection) and press the REC/ENTER button.

4. Press MENU button.

5. Press the UP button or DOWN button to select ⬛┄┄⬛ (Device registration), then press the REC/ENTER button.

6. Turn on the camera.

7. Connect to the camera.

   - **Action cam excluding HDR-AZ1**
     Select [MULTI]-[NEW] in the Wi-Fi settings.

   - **HDR-AZ1/Lens-style Camera (QX series)**
     Press the Wi-Fi button of the camera and switch the connection mode of the camera to the multi connection mode, then press and hold the Wi-Fi button of the camera.

     ‒ Refer to the Help Guide of the camera on the website for how to switch the connection mode of the camera.

8. Select OK of this unit and press the REC/ENTER button.

   - The requested connection is accepted and the LCD screen of this unit switches to Live-View display.

9. If you will continue to connect multiple cameras, repeat from step 5.

Note

- Register cameras before connection standby mode of this unit is canceled.
- The multi camera control function is only available with the compatible cameras.
- When operating a camera that does not support the multi camera control function, set the connection mode to ⬛⋯⬛ (Single connection).
- You cannot copy images recorded in the camera to this unit.
- The WPS method is used for connecting the Live-View Remote to multiple cameras. If there is another device using the WPS method in the vicinity of the cameras, the registration may fail. If the registration fails, reconnect by performing each step again.

---

[11] How to use │ Getting Started │ Connecting this unit to multiple cameras via Wi-Fi (Multi connection)
Resetting the connection information of the registered camera

---

This function is only available when the camera is in multi connection.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Remote control settings) - 📶 (Reset network settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select **OK** or ↩ (Cancel) and press the REC/ENTER button.

---

[12] How to use │ Shooting │ Shooting movies and still images
Switching shooting modes

Switch the shooting mode by pressing the UP/DOWN button on the Live-View display of this unit during single connection.

- Some shooting modes cannot be set depending on the connected camera. Refer to the instruction manual of the connected camera.
- The shooting mode icon is displayed on the upper left side of the display.

The shooting modes are as follows.

- ▤ Movie mode: Shooting movies.
- ◻ Photo mode: Shooting still images.
- ⏱ Interval photo recording mode: Shooting still images at regular intervals until you stop shooting.
- ⟳ Loop recording mode: When the memory card capacity decreases, the camera deletes older memory and keeps recording.
- ♪ Audio recording mode: Recording sound.

Hint

- You can also switch the shooting mode via MENU items on the remote control. The procedure for switching via MENU items is as follows.

  - Press the MENU button to select **MODE:** ▤ (Shooting mode) in the setting items. Press the UP button or DOWN button to select the shooting mode and press the REC/ENTER button.
  - If you connect to a Lens-style Camera (QX series), press the UP or Down button to operate the camera zoom in the Live-View display.

[13] How to use | Shooting | Shooting movies and still images
Shooting

Shoot movies or still images and record sound.

- Check the shooting mode before shooting.
- There are shooting modes that cannot be set depending on the connected camera. Refer to the instruction manual of the camera.

1. Press the REC/ENTER button of this unit to start shooting.

   - The REC/Wi-Fi lamp turns from blue to red.

2. To stop shooting, press the REC/ENTER button again.

   - The REC/Wi-Fi lamp turns from red to blue.

Note

- You can shoot a still image by pressing the REC/ENTER button in photo mode.
  The REC/Wi-Fi lamp does not turn to red.

[14] How to use | Shooting | Shooting movies and still images
Operating with the multi camera control

Operate multiple cameras with the multi connection.

- You can connect up to 5 cameras at the same time with the multi connection.
- There are shooting modes that cannot be set depending on the connected camera. Refer to the instruction manual of the camera.
- You can press the UP/DOWN buttons of this unit to move the cursor and switch the Live-View display on the LCD screen of this unit to the display of any of the connected cameras.

Press the REC/ENTER button of this unit to start recording on all connected cameras.

- Operates according to the shooting mode of the connected camera.
  To stop the movie mode, interval photo recording mode, or loop recording mode, press the REC/ENTER button of this unit again.

Note

- The operation command from this unit under multi camera control is sent to all connected cameras. This unit can do the following. Other camera settings such as image quality etc. should be done on the camera.

  – Change the recording mode
  – Start and stop the movie mode, interval photo recording mode, or loop recording mode
  – Operate the shutter to shoot still images

- The reaction time of the connected cameras may differ depending on the situation of each camera. There may be a time lag between the connected cameras when starting recording, etc.
- If one or more of the connected cameras are recording, the REC/Wi-Fi lamp lights up red. If you press the REC/ENTER button of this unit at this time, the command to stop recording is sent to all the connected cameras.

---

[15] How to use │ Shooting │ Shooting movies and still images
Button hold function

This function prevents you from accidentally pressing this unit's buttons while carrying it around.

Press the MENU button for 2 seconds or more to set the button hold function.

- In the button hold mode, [HOLD] appears on the LCD screen of this unit. The REC/ENTER button, DISP button, UP button and DOWN button of this unit are disabled.
- To cancel the button hold mode, press the MENU button for 2 seconds or more, or press the ON/OFF (Power) button to turn off the power of this unit.

Note

- The button hold function is only available when this unit is connected to a camera via Wi-Fi. When not connected, the button hold function cannot be used.
- The button hold function cannot be used while the MENU item is displayed.
- When the Wi-Fi connection between this unit and the camera is disconnected, the button hold function is canceled.

List of setting items

You can display and change the settings by pressing the MENU button while the camera and remote control are connected via Wi-Fi.

- There are shooting modes that cannot be set depending on the connected camera or selected shooting mode. Refer to the instruction manual of the camera.

Disconnect

📷⤫📷 Disconnects the Wi-Fi connection and returns to the Wi-Fi device selection screen.

Device registration[*1]

📷⤙⤚📷 Registers a camera to connect to this unit for the multi connection.

Play Mode[*2]

📷➜▶ Plays and deletes images using this unit.

Shooting Mode

MODE:▯▯ Switches between the movie mode, photo mode, interval photo recording mode, loop recording mode or audio recording mode.

The setting items of the camera[*2]

🎬 Movie settings

- The items listed below can be set in the movie mode.

    HQ Image quality setting: Sets the image resolution and frame rate for shooting movies.

    ▣: **MP4** Movie format: Selects the movie format.

    «⌙»: **ON** SteadyShot: Activates the camera-shake reduction when shooting.

    ▽:**120°** Field angle setting: Sets the field angle setting of the camera.

    ▣:**OFF** Flip: Records the image upside down.

    SCN : **NORMAL** Scene: Sets an image quality suitable for scenes.

    WB : **AWB** White balance: Adjusts the white balance according to your preference.

    EV : **±0.0** AE shift: Adjusts the exposure according to your preference.

    COLOR: **VIVID** Color mode: Sets the image color tone.

    🎤: **ON** Audio recording setting: Selects the sound recording setting.

    🎤:**OFF** Wind noise reduction: Sets to cut low-range wind noise according to the noise level when recording using the built-in microphone.

📷 Still image settings

- The items listed below can be set in the photo mode.

    ▽:**120°** Field angle setting: Sets the field angle setting of the camera.

    ▣:**OFF** Flip: Records the image upside down.

    SCN : **NORMAL** Scene: Sets an image quality suitable for scenes.

    WB : **AWB** White balance: Adjusts the white balance according to your preference.

    EV : **±0.0** AE shift: Adjusts the exposure according to your preference.

DRIVE : ☐ Still image mode switching: Sets the shooting still image mode.

⬚:10fps 1s Still image shooting interval: Sets the still image shooting interval for high speed continuous shooting and motion shot LE shooting.

⟳: OFF Self-timer: Sets the self-timer.

🕛 Interval photo recording settings

- The items listed below can be set in the interval photo recording mode.

    《👋》: ON SteadyShot: Activates the camera-shake reduction when shooting.

    ▽ : 120° Field angle setting: Sets the field angle setting of the camera.

    ⟳:OFF Flip: Records the image upside down.

    SCN : NORMAL Scene: Sets an image quality suitable for scenes.

    WB : AWB White balance: Adjusts the white balance according to your preference.

    EV : ±0.0 AE shift: Adjusts the exposure according to your preference.

    🕛: 2 sec Interval photo recording: Sets the time lapse setting for interval photo recording mode.

⟳ Loop recording settings

- The items listed below can be set in the loop recording mode.

    HQ Image quality setting: Sets the image resolution and frame rate for shooting movies.

    🎞: MP4 Movie format: Selects the movie format.

    《👋》: ON SteadyShot: Activates the camera-shake reduction when shooting.

    ⟳:OFF Flip: Records the image upside down.

    SCN : NORMAL Scene: Sets an image quality suitable for scenes.

    WB : AWB White balance: Adjusts the white balance according to your preference.

    EV : ±0.0 AE shift: Adjusts the exposure according to your preference.

    COLOR: VIVID Color mode: Sets the image color tone.

    🎤: ON Audio recording setting: Selects the sound recording setting.

    🎤:OFF Wind noise reduction: Sets to cut low-range wind noise according to the noise level when recording using the built-in microphone.

    ⟳:20 min Loop recording interval: Sets the loop recording interval time.

The setting items of connecting devices[*2]

🧰 Connecting devices settings

- You can set the following items.

    TC/UB Time code/User bit[*4]: Selects the time code/user bit function setting.

    📡 : OFF IR-remote control: Sets the infrared remote control RMT-845 (sold separately).

    NTSC ➜ PAL Switching NTSC/PAL: Selects a setting, depending on the TV system of the country or region where you use this camera.

    🔌:OFF Auto power off: Sets the power of the camera to turn off automatically.

    ♪: ON Beep: Sets the beep to ON/OFF.

    ▦ FORMAT Format[*3]: Deletes all images in the memory card and restores the memory card to its initial state.

    ⓘ Version (camera): Displays the software version of the camera.

The setting items of this unit

📱 Remote control settings

- You can set the following items.

⌁:OFF Screen rotation: Changes the directions of LCD screen and UP button/DOWN button of this unit.

☼ : HI Monitor brightness: Sets LCD screen brightness of this unit.

🕒 Date & time setting: Sets the year/month/day.

GMT :±0.0 Area setting: Sets the regions defined by time difference from Greenwich Mean Time (GMT).

☀:OFF Daylight Saving Time (Summer time): Sets the daylight saving time (summer time).

↺ Reset settings: Resets each setting value of this unit to default setting value.

ⓘ Version: Displays the software version of this unit.

◻┈◻ Connection mode[*5], [*6]: Sets the number of cameras connected to this unit.

✈:OFF Airplane mode[*6]: Sets the camera to disable all functions related to the Wi-Fi function temporarily when you are in an airplane.

📶↺ Reset network settings[*1]: Resets multi connection network settings.

*1 Displayed only for the multi connection.

*2 Displayed only for the single connection.

*3 Displayed only when there is a memory card inserted.

*4 Displayed only when set to the movie mode/loop recording mode.

*5 Not displayed when the airplane mode is set to ON.

*6 Not displayed when the camera and this unit are connected via Wi-Fi.

Note

- The setting items of the camera are displayed only when the camera and this unit are connected via Wi-Fi (excluding the remote control settings).
- To return to the setting item selection screen from the setting value selection screen, select **↩** .
- To apply the setting or value selected on the selection screen, select **OK** .

---

[17] How to use │ Changing the Settings │ Shooting settings
Image quality setting

Set the image resolution and frame rate for shooting movies or loop recording.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select **🎬** (Movie settings) or **🔁** (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select **HQ** or **HD 30p 50M** (Image quality setting), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the desired setting, and press the REC/ENTER button.

XAVC S 4K **(When the movie record format is set to XAVC S 4K)**

4K 30p100M XAVC S 4K 100Mbps
4K 25p100M XAVC S 4K 100Mbps
4K 30p 60M XAVC S 4K 60Mbps
4K 25p 60M XAVC S 4K 60Mbps
4K 24p100M XAVC S 4K 100Mbps[*1]
4K 24p 60M XAVC S 4K 60Mbps[*1]

XAVC S HD (When the movie record format is set to XAVC S HD)

HD 120p100M XAVC S HD 100Mbps
HD 100p100M XAVC S HD 100Mbps
HD 120p 60M XAVC S HD 60Mbps
HD 100p 60M XAVC S HD 60Mbps
HD 60p50M XAVC S HD 50Mbps
HD 30p50M XAVC S HD 50Mbps
HD 24p50M XAVC S HD 50Mbps[*1]
HD 50p50M XAVC S HD 50Mbps
HD 25p50M XAVC S HD 50Mbps
HD 240p100M XAVC S HD 100Mbps
HD 200p100M XAVC S HD 100Mbps
HD 240p 60M XAVC S HD 60Mbps
HD 200p 60M XAVC S HD 60Mbps

MP4 (When the movie record format is set to MP4)[*2]

PS Highest resolution (smooth image recorded at 2× frame rate)
HQ Highest resolution
STD High resolution
HS 120 / **HS 100** High speed recording (smooth image recorded at 4× frame rate)
HS 240 / **HS 200** High speed recording (smooth image recorded at 8× frame rate)
SLOW Slow recording (slow motion image recorded at 2× frame rate)
SSLOW Super slow recording (slow motion image recorded at 4× frame rate)
VGA Standard resolution

*1 The setting is available only when the NTSC/PAL setting is set to NTSC.

*2 Frame rate depends on the NTSC/PAL setting.

Note

- The playback image frame rate displayed on the LCD screen will change according to the Wi-Fi communication status between the camera and this unit (and it is different from the frame rate used when shooting).

---

[18] How to use │ Changing the Settings │ Shooting settings
SteadyShot

You can activate the camera-shake reduction when shooting movies.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select 🎞 (Movie settings) or 🔁 (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select ((📳)): ON (SteadyShot) and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, and press the REC/ENTER button.

   - ON : Uses SteadyShot. (Field angle: 120°)

   - OFF : Does not use SteadyShot. (Field angle: 170°)

Note

- The field angle changes when the movie size is set to [VGA].

---

[19] How to use │ Changing the Settings │ Shooting settings
Field angle setting

You can configure the field angle setting of the camera.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

   - Select the settings below.
     - 📹 **Movie settings**
     - 📷 **Still image settings**
     - 📷 **Interval photo recording settings**

3. Press the UP button or DOWN button to select ▽ : 120° (Field angle setting) and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, and press the REC/ENTER button to confirm.

   - 120° : Records with a field angle of 120°.

   - 170° : Records with a field angle of 170°.

---

[20] How to use │ Changing the Settings │ Shooting settings
Flip

You can record the image upside down. This function is useful when the camera is attached upside

down.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

   - Select the settings below.
     - ▣ **Movie settings**
     - ▣ **Still image settings**
     - ▣ **Interval photo recording settings**
     - ▣ **Loop recording settings**

3. Press the UP button or DOWN button to select ▣ : OFF and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, and press the REC/ENTER button.

   - **ON** : Flips the image vertically.

   - **OFF** : Does not flip the image vertically.

---

[21] How to use │ Changing the Settings │ Shooting settings
Scene

You can select the scene setting.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

   - Select the settings below.
     - ▣ **Movie settings**
     - ▣ **Still image settings**
     - ▣ **Interval photo recording settings**
     - ▣ **Loop recording settings**

3. Press the UP button or DOWN button to select **SCN : NORMAL** (Scene), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **NORMAL** : Shoots images in the standard quality.

WATER : Shoots images in an image quality suitable for bluish subjects, such as when shooting at aquariums or under blue-lit water.

[22] How to use │ Changing the Settings │ Shooting settings
White balance

You can adjust the white balance according to your preference.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

   - Select the settings below.
     - 📹 **Movie settings**
     - 📷 **Still image settings**
     - ⏱ **Interval photo recording settings**
     - 🔁 **Loop recording settings**

3. Press the UP button or DOWN button to select **WB : AWB** (White balance), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **AWB :** Adjusts the white balance automatically.

   - ⬜ **:** Sets color temperature value (from 2500K to 9900K).

   - ⬛ **:** Use the preset white balance.

   - **SET :** Presets the white balance according to the ambient light.
     Frame a white object such as a piece of paper filling the screen under the same lighting conditions as you will shoot the subject, then press the REC/ENTER button.

[23] How to use │ Changing the Settings │ Shooting settings
AE shift

You can adjust the exposure according to your preference.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

- Select the settings below.
  - ▣ **Movie settings**
  - ▣ **Still image settings**
  - ▣ **Interval photo recording settings**
  - ▣ **Loop recording settings**

3. Press the UP button or DOWN button to select $EV : \pm 0.0$ (AE shift), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

- Select ± 0.0 if you will not use AE shift.

Color mode

You can set the image color tone for movie shooting or the loop recording.

1. Press the MENU button.

- The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Movie settings) or ▣ (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select COLOR : VIVID (Color mode), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

- NUTRL : Records in natural colors that are easy to correct in image editing after shooting.

- VIVID : Records in vivid colors that provide an enhanced sense of realism.

Movie format

Select the movie format for shooting movies or loop recording.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Movie settings) or ▣ (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select ▣ : **MP4** (Movie format), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **XAVC S 4K** : Records in 4K (XAVC S).

   - **XAVC S HD** : Records in HD (XAVC S).

   - **MP4** : Records in MP4.
     Select this setting when copying images to your smartphone or uploading images to a website.

Note

- After selecting the movie record format, set "Image quality setting."

---

[26] How to use │ Changing the Settings │ Shooting settings
Audio recording setting

Set ON/OFF of the audio recording.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Movie settings) or ▣ (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select 🎤 : **ON** (Audio recording setting), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **ON** : Records sound when shooting a movie.

   - **OFF**: Does not record sound when shooting a movie.

---

[27] How to use │ Changing the Settings │ Shooting settings

Wind noise reduction

This function automatically reduces wind noise when you record using the built-in microphone.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ⚙ (Movie settings) or ⚙ (Loop recording settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select 🎙:OFF (Wind noise reduction), and press the REC/ENTER button.

4. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **OFF:** Does not reduce wind noise.

   - **ON:** Cuts low-range to reduce wind noise.

---

[28] How to use │ Changing the Settings │ Shooting settings
Still image mode switching

You can select either single shooting or continuous shooting when shooting still images.
- Single shooting and continuous shooting can only be set when shooting still images.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ⚙ (Still image settings) - **DRIVE : ▢** (Still image mode switching) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **▢ A single shooting (Single shoot):** Shoots a single still image.

   - **📑 High speed continuous shooting:** Shoots continuously at the frame rate and duration specified in the still image shooting interval setting.

   - **⚫ Motion shot LE:** Automatically creates one composite photo from the images that were shot continuously at the frame rate and duration specified in the still image shooting interval setting.

Note

- After shooting with the high speed continuous shooting mode or Motion Shot LE mode, there is a

processing time during which you cannot operate a camera.

---

[29] How to use │ Changing the Settings │ Shooting settings
Still image shooting interval

You can select the continuous shooting setting for using high speed continuous shooting or Motion Shot LE.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select (Still image settings) - :10fps 1s (Still image shooting interval) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - 10fps 1s :
     Records a total of 10 still images in one second at a speed of 10 still images per second. Suitable for shooting fast-moving objects.

   - 8 fps 1s :
     Records a total of 10 still images in 1.25 seconds at a speed of 8 still images per second. Suitable for shooting fast-moving objects.

   - 5 fps 2s :
     Records a total of 10 still images in 2 seconds at a speed of 5 still images per second. Suitable for action shots of objects.

   - 2 fps 5s :
     Records a total of 10 still images in 5 seconds at a speed of 2 still images per second. Suitable for shooting slow-moving objects.

Note

- [10fps], [8fps], [5fps], and [2fps] are estimated maximum speeds. The maximum speed may not be reached depending on the shooting conditions.

---

[30] How to use │ Changing the Settings │ Shooting settings
Self-Timer

You can set the self-timer when shooting a still image.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ⚙📷 (Still image settings) - ⏱: OFF (Self-timer) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - OFF: Does not use the self-timer.
   - 2 sec : Sets the self-timer to activate after 2 seconds.
   - 10 sec : Sets the self-timer to activate after 10 seconds.

Note

- You cannot use the self-timer when recording movies.
- The self-timer function is enabled until it is canceled. Set the self-timer to ⏱: OFF after you finish using it.

[31] How to use │ Changing the Settings │ Shooting settings
Interval photo recording

You can select the time lapse setting for the interval photo recording.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ⚙⏱ (Interval photo recording settings) - ⏱: 2 sec (Interval photo recording) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - 1 sec : Continues to record still images at about 1-second intervals.
   - 2 sec : Continues to record still images at about 2-second intervals.
   - 5 sec : Continues to record still images at about 5-second intervals.
   - 10 sec : Continues to record still images at about 10-second intervals.
   - 30 sec : Continues to record still images at about 30-second intervals.
   - 60 sec : Continues to record still images at about 60-second intervals.

Note

- The first photo is recorded immediately when recording starts, without waiting for the completion of the set interval. The second and subsequent still images are recorded at the set intervals.

Loop recording time

Set the limit of the loop recording time.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select 🔁 (Loop recording settings) - ⟳:20 min (Loop recording interval) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **5** min : Set the limit of the loop recording time about 5 minutes.
   - **20** min : Set the limit of the loop recording time about 20 minutes.
   - **60** min : Set the limit of the loop recording time about 60 minutes.
   - **120** min : Set the limit of the loop recording time about 120 minutes.
   - **∞** min : Does not set the limit of the loop recording time.

Time Code/User Bit

You can use the time code/user bit function when the shooting mode is set to the movie mode and the movie record format is set to XAVC S.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select 🧰 (Connecting devices settings) or TC/UB (Time Code/User Bit) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

   - **TC PRESET** 🔁 : Presets the time code.
   - **UB PRESET** 🔁 : Presets the user bit.
   - **TC FORMAT:** Selects the time code recording method.
   - **TC RUN:** Sets how the time code advances.
   - **TC MAKE:** Sets to record the newly set-up time code on recording media or sets to record the new time code sequentially from the last time code on recording media.
   - **UB TIME REC:** Sets whether to record the time as a user bit.

Presetting the time code/user bit

Press the UP button or DOWN button to select the value, then press the REC/ENTER button.
When the above operation is performed 4 times, the four 2-digit numbers are set and switches to Live-View display.

- The time code can be selected within the following range.

  - When selecting 30p or 60p
    00:00:00:00 (default) - 23:59:59:29
  - When selecting 25p or 50p
    00:00:00:00 (default) - 23:59:59:24
  - When selecting 24p
    00:00:00:00 (default) - 23:59:59:23
    You can set the last 2 time code digits of the frames in multiples of 4, between 0 and 23.

- The user bit can be selected within the following range.

  - 00:00:00:00 (default) -FF:FF:FF:FF

Setting items of the time code

- You can set the items below.

  - **TC FORMAT**
    FORMT : DF : Records the time code in drop frame.
    FORMT : NDF : Records the time code in non-drop frame.
    When the TV system is set to [PAL], the format is not displayed since the time code is fixed to [NDF].
  - **TC RUN**
    RUN : FREE : The time code advances sequentially, regardless of the operation of the camera.
    RUN : REC : The time code advances only while recording XAVC S movies, and it starts recording sequentially from the time code of the last recorded image.
  - **TC MAKE**
    MAKE : PRESET : The new set-up time code is recorded on recording media.
    MAKE : REGEN : The last time code of the previous recording is read out from the recording media and the new time code is recorded sequentially from the last time code.

Setting items of the user bit

- You can set the items below.

  - **UB TIME REC**
    REC : ON : Records the time as the user bit.
    REC : OFF : Does not record the time as a user bit.

To reset the settings

All of the values are set to 00 if you press the DISP button while selecting [TC PRESET] or [UB PRESET]. All of the values can be reset if you press the REC/ENTER button again.

Note

- Time code/user bit can be set only for the movie mode.
- When this unit is not connected to the camera via Wi-Fi, the camera settings cannot be changed.
- To return to the setting item selection screen from the setting value selection screen, select ↰ .
- To apply the setting or value selected on the selection screen, select **OK** .

Hint

- **About the time code**
  Time code is a useful function for advanced image editing, which records
  hours/minutes/seconds/frames on the image data.

When TV system is set to [NTSC] and the frame rate is 30p or 60p, gaps between the actual time and the time code occur during extended periods of recording because there is a slight difference between the number of frames per second of the time code and the actual frame frequency of NTSC image signal. Drop frame corrects this gap to ensure that the time code matches the actual time. The first frame numbers (the first 2 frame numbers for 30p, or the first 4 frame numbers for 60p) are removed every minute except in every tenth minute. Time code without this correction is called non-drop frame.

- **About the user bit**

  User bit is a function that can record information (8-digit hexadecimal numbers) such as date/time/scene number. This function is useful for editing movies created using two or more cameras.

---

[34] How to use │ Changing the Settings │ Connecting devices settings
IR-Remote Control

You can start/stop recording and initialize the time code using the infrared remote control (RMT-845 (sold separately)).

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ⛁ (Connecting devices settings) - 📶 : OFF (IR-Remote Control) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - ON : Allows you to operate the camera using the infrared remote control.

   - OFF : Prevents operation of the camera using the infrared remote control.

Note

- The infrared remote control RMT-845 (sold separately) is required to use this function. Purchase it at a Sony service center.
- You can operate only the following settings using the RMT-845 (sold separately). Other settings are inoperable.

  – Reset the time code.
  – Start/stop recording.

---

[35] How to use │ Changing the Settings │ Connecting devices settings
Switching NTSC/PAL

You can select the NTSC/PAL setting, depending on the TV system of the country or region where you use the camera.

1. Press the MENU button.

    - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Connecting devices settings) - NTSC ➡ PAL (Switching NTSC/PAL) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

    - PAL ➡ NTSC : Select this when the TV system is NTSC
    - NTSC ➡ PAL : Select this when the TV system is PAL

Note

- When you change the settings by this unit, the camera and this unit will be disconnected and the camera will restart automatically. When the restart of the camera is completed, this unit and the camera will be automatically connected.
- To return to the setting item selection screen from the setting value selection screen, select ↩ .
- To apply the setting or value selected on the selection screen, select **OK** .

---

[36] How to use │ Changing the Settings │ Connecting devices settings
Auto power off

You can set whether to turn off the camera automatically depending on the setting time.

1. Press the MENU button.

    - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Connecting devices settings) - ![icon]:OFF (Auto power off) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

    - **10 sec** : Turns the power off after about 10 seconds.
    - **20 sec** : Turns the power off after about 20 seconds.
    - **60 sec** : Turns the power off after about 60 seconds.
    - **OFF**: Does not use the auto power off function.

Note

- Auto power off is not available during Wi-Fi connection.

- When this unit is not connected to the camera via Wi-Fi, the camera settings cannot be changed.

---

[37] How to use | Changing the Settings | Connecting devices settings
Beep

You can set the audible notification for camera operation.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Connecting devices settings) - ![icon] ON (Beep) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - ON : All operation sounds are enabled.
   - OFF : All operation sounds are disabled.
   - SILENT : Operation sounds are emitted for the following operations only.
     - Power turned on
     - Recording started
     - Recording stopped
     - Shutter pressed
     - A disabled operation was selected or an error occurred
     - Wi-Fi connection confirmation beep

Note

- When this unit is not connected to the camera via Wi-Fi, the camera settings cannot be changed.

---

[38] How to use | Changing the Settings | Connecting devices settings
Format

You can delete all movies and still images in the media and restore it to its initial state.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Connecting devices settings) - ![icon] FORMAT (Format) and press the REC/ENTER button.

- Formatting is complete.
- Select ↩ (Back), then press the REC/ENTER button to cancel the formatting.

Note

- Save important images to devices such as a computer before formatting.
- When this unit is not connected to the camera via Wi-Fi, the camera settings cannot be changed.
- To return to the setting item selection screen from the setting value selection screen, select ↩ .
- To apply the setting or value selected on the selection screen, select **OK** .

---

[39] How to use │ Changing the Settings │ Connecting devices settings
Version (Camera)

The software version of the camera is displayed.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select 🧰 (Connecting devices settings) - ℹ️ (Version) and press the REC/ENTER button.

---

[40] How to use │ Changing the Settings │ Remote control settings
Display rotate

You can rotate the orientation of the LCD screen and change the UP button/DOWN button of this unit. Use screen rotation when wearing the belt on your right wrist.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select 📷 (Remote control settings) - ▢: ON (Screen rotation) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - ON : Rotates the screen.
   - OFF (default): Does not rotate the screen.

Monitor brightness

You can set the brightness of the LCD screen.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Remote control settings) - ☼ : HI (Monitor brightness) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - HI **(default):** Bright
   - LO : Dark

Note

- You cannot set the monitor brightness when supplying power from a Multi/Micro USB terminal. The setting is fixed to "Bright".

Date & time/area/daylight saving time (summer time) setting

You can set the display format of the date, date & time, area, and daylight saving time (summer time).

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ▣ (Remote control settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - ⊙ **Date & time setting:** Sets the display format of the date.
     Press the UP button or DOWN button to select the display format of the date, then press the REC/ENTER button. Press the UP button or DOWN button to set the date and time, and press the REC/ENTER button.
     Selectable display format of the date is listed below.

- **Y-M-D:** Year-Month-Day
- **M(Eng)-D-Y:** Month (in English)-Day-Year
- **M-D-Y:** Month-Day-Year
- **D-M-Y:** Day-Month-Year

- **GMT :±0.0 Area setting:** Sets the region defined by the time difference from Greenwich Mean Time (GMT).
  Press the UP button or DOWN button to select the time difference, then press the REC/ENTER button.

- **☀:OFF Daylight saving time (Summer time) setting:** Sets the Daylight Saving Time (summer time).
  Press the UP button or DOWN button to select the daylight saving time (summer time) setting, and press the REC/ENTER button.

Note

- To return to the setting item selection screen from the setting value selection screen, press the MENU button.
- To apply the setting or value selected on the selection screen, select **OK** .
- If you connect a Lens-style Camera (QX series) or HDR-AZ1, the date setting of this unit is reflected to the camera automatically.

[43] How to use │ Changing the Settings │ Remote control settings
Resetting the settings

You can reset the settings of this unit to their defaults. Even if you activate [RESET], images are not deleted.

- The settings of the camera are not reset.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select (Remote control settings) - (Reset settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the setting, then press the REC/ENTER button.

Note

- To return to the setting item selection screen from the setting value selection screen, select .
- To apply the setting or value selected on the selection screen, select **OK** .

Version

The software version of this unit is displayed.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select (Remote control settings) - (Version) and press the REC/ENTER button.

Connection mode

Set the number of cameras you want to connect to this unit.

1. Press the MENU button.

   - The list of setting items is displayed.

2. Press the UP button or DOWN button to select (Remote control settings) - (Connection mode) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

   - **(default):** Single connection
   - **:** Multi connection

Note

- You cannot set this setting while the unit is connected to the camera via Wi-Fi.

Airplane mode

You can temporarily disable all Wi-Fi related functions when you board an airplane, etc.

- When you board an airplane, set the airplane mode to ON and set the Wi-Fi mode of the camera to OFF.

1. Press the MENU button.

    - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Remote control settings) - ✈:OFF (Airplane mode) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select the following setting, then press the REC/ENTER button.

    - ON : Disables the Wi-Fi function.

    - OFF (default): Enables the Wi-Fi function.

Note

- You cannot set this setting while the unit is connected to the camera via Wi-Fi.

---

[47] How to use │ Changing the Settings │ Remote control settings
Network reset settings

The multi connection network settings can be reset.

1. Press the MENU button.

    - The list of setting items is displayed.

2. Press the UP button or DOWN button to select ![icon] (Remote control settings) - ![icon] (Reset network settings) and press the REC/ENTER button.

3. Press the UP button or DOWN button to select OK , then press the REC/ENTER button.

    - When you set the multi connection after finishing the reset, you are required to register devices once again even if they have been already registered.

    - If ↺ (Back) is selected on the confirmation screen, the resetting is canceled.

Note

- You cannot reset the network setting in single connection mode.
- To return to the setting item selection screen from the setting value selection screen, select ↺ (Back).
- To apply the setting or value selected on the selection screen, select OK .

---

[48] How to use │ Viewing │ Playing back images
Playing back images

You can play back images recorded with the camera on this unit.
The procedure below explains how to play back movies.

1. Press the MENU button in the shooting mode selection screen.

2. Press the UP button or DOWN button to select ⬜ ➔ ▶ (Playback with this unit), then press the REC/ENTER button.

3. Press the UP button or DOWN button to select the image, then press the REC/ENTER button.

   - Playback starts.

Returning to the shooting mode

Press the MENU button, the UP button or DOWN button to select ▶ ➔ ⬜ (Shooting mode), then press the REC/ENTER button.

> **Note**

- Audio cannot be played back.
- The playback image frame rate displayed on the LCD screen of this unit will change according to the Wi-Fi communication status of the camera and this unit. It is different from the frame rate when shooting.

> **Hint**

- You can use the following operation while playing back the movie.
    - Fast-rewind: Press the UP button.
    - Fast-forward: Press the DOWN button.
    - Pause: Press the REC/ENTER button.

[49] How to use │ Viewing │ Switching the screen indicator
Switching the screen indicator

When this unit is connected to the camera via Wi-Fi, pressing the DISP button switches the LCD screen display as shown below.
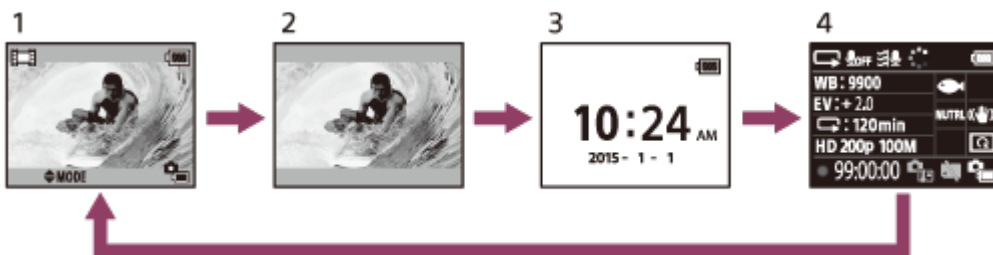
1. Live-View display (Icons lit)
2. Live-View display (Icons off)
3. Clock display screen

4. Shooting information (available only during the single connection)
   - The screen is turned off during the multi connection.

---

[50] How to use │ Viewing │ Deleting images
Deleting images

Delete unnecessary images saved in the memory card of the camera.

1. Press the MENU button in the shooting mode selection screen.

2. Press the UP button or DOWN button to select 📷 ➜ ▶ (Playback with this unit), then press the REC/ENTER button.

3. Press the UP button or DOWN button to select the image, then press the MENU button.

4. Select 🗑 (Delete) and press the REC/ENTER button.

5. Select **OK** on the confirmation screen and press the REC/ENTER button.

   - The selected image is deleted.

Note

- You can delete images only in the single connection.
- You can delete each image once. You cannot delete multiple images simultaneously.
- Format the memory card when you want to delete all of the images.

---

[51] How to use │ Others │ Precautions
Handling

Do not use/store this unit in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the unit body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater (unsuitable places for storage)
  The unit body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to strong vibration
- Near strong magnetic fields
- Near a location that generates strong radio waves or emits radiation
- In sandy or dusty places
  Be careful not to let sand or dust get into this unit. This may cause this unit to malfunction, and in some cases it may be irreparable.

On moisture condensation

If this unit is brought directly from a cold to a warm location, moisture may condense inside or outside the unit. This moisture condensation may cause a malfunction to the unit.

If moisture condensation occurs

Turn off the unit and wait about 1 hour for the moisture to evaporate.

Note on moisture condensation

Moisture may condense when you bring the unit from a cold place into a warm place (or vice versa) or when you use the unit in a humid place, as shown below.

- When you bring the unit from a ski slope into a warm place
- When you bring the unit from an air conditioned car or room into a hot place outside
- When you use the unit after a squall or a shower
- When you use the unit in a hot and humid place

How to avoid moisture condensation

When you bring the unit from a cold place into a warm place, put the unit in a plastic bag and seal it tightly. Remove the bag when the air temperature inside the plastic bag has reached the ambient temperature (after about 1 hour).

On carrying

- Do not sit down in a chair or other place with this unit in the back pocket of your trousers or skirt, as this may cause malfunction or damage this unit.

On operating temperatures

- The camera is designed for use in temperatures between −10°C and +40°C (14°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.
- The LCD screen and the cabinet may become warm during operation. This is not a malfunction.

Handling the LCD screen

On the LCD screen

- Do not leave the LCD screen facing the sun as it may be damaged. Be careful when placing the unit by a window.
- If the unit is used in a cold place, horizontal lines or a residual image may appear on the LCD screen. This is not a malfunction. The LCD screen returns to normal when the unit warms up.
- If a still picture or a fixed picture is displayed for a long time, an image may remain superimposed on the LCD screen as a ghosting image.

Bright point and vanishing point on the LCD screen

The LCD panel fitted to this unit is manufactured with high precision technology, but a very small proportion of pixels may be "stuck", either always off (black), always on (red, green, or blue), or flashing. In addition, because of the physical characteristics of the liquid crystal display, such "stuck" pixels may appear spontaneously over a long period of use. These problems are not a malfunction.

[56] How to use │ Others │ Precautions
Waterproof performance

Notes on the waterproof performance

This unit is designed to be waterproof. Damage caused by misuse, abuse, or improper maintenance is not covered by the limited warranty.

- Do not subject this unit to pressurized water, such as from a tap.
- Do not use in hot springs.
- Use this unit in the recommended operating water temperature range of 0°C to 40°C (32°F to 104°F).
- This unit has continuous waterproof performance at a water depth of 3 m (10 feet) for 30 minutes.

Notes before using this unit under/near water

- Make sure that no foreign matter such as sand, hair, or dirt gets inside the connector cover. Even a small amount of foreign matter may lead to water entering this unit.
- Confirm that the sealing gasket and its mating surfaces have not become scratched. Even a small scratch may lead to water entering this unit. If the sealing gasket or its mating surfaces become scratched, consult your Sony dealer or local authorized Sony service facility.
- If dirt or sand gets on the sealing gasket or its mating surfaces, wipe the area clean with a soft cloth that does not leave behind any fibers.
- Do not open/close the connector cover with wet or sandy hands or near water. There is a risk of sand or water getting inside. Before opening the connector cover, perform the procedure described in "Maintenance of this unit in water or at a waterfront."
- Open the connector cover when this unit is completely dry.
- Always check that the connector cover is securely locked.

Notes on using this unit under/near water

- Do not subject this unit to shock such as by jumping into water.
- Do not open and close the connector cover under/near water.

- This unit sinks in water. Use the belt supplied with this unit to prevent it from sinking.
- You cannot use the Wi-Fi function of this unit underwater.

The list of time differences for world capitals

Time differences with the standard times of world cities (as of 2015).

Lisbon/London
GMT

Berlin/Paris
+01:00

Helsinki/Cairo/Istanbul
+02:00

Moscow/Nairobi
+03:00

Tehran
+03:30

Abu Dhabi/Baku
+04:00

Kabul
+04:30

Karachi/Islamabad
+05:00

Kolkata/New Delhi
+05:30

Almaty/Dhaka
+06:00

Yangon
+06:30

Bangkok/Jakarta
+07:00

Hong Kong/Singapore/Beijing
+08:00

Tokyo/Seoul
+09:00

Adelaide/Darwin
+09:30

Melbourne/Sydney
+10:00

New Caledonia
+11:00

Fiji/Wellington
+12:00

Midway
-11:00

Hawaii
-10:00

Alaska
-09:00

San Francisco/Tijuana
-08:00

Denver/Arizona
-07:00

Chicago/Mexico City
-06:00

New York/Bogota
-05:00

Santiago
-04:00

St.John's
-03:30

Brasilia/Montevideo
-03:00

Fernando de Noronha
-02:00

Azores/Cape Verde Is.
-01:00

Specifications

[Input terminal]

Multi/Micro USB Terminal: micro-B/USB
(For charging)

[Power]

Power requirements:
Rechargeable battery pack: 3.6 V (Internal battery)
Multi/Micro USB Terminal: 5.0 V

Charging method:
USB charging: DC 5.0 V, 500 mA/800 mA

Charging time:
Via a computer
Internal battery: Approx. 4 h 05 min
Via the AC-UD10
Internal battery: Approx. 2 h 55 min

Power supply method:
USB power supply (1.5 A or more is recommended)

Power consumption:
1.0 W (when connected by Wi-Fi and during Live-View display)

Continuous operating time

240 min[*1]

Battery:
Rechargeable battery pack: Internal battery
Maximum output voltage: DC 4.2 V
Output voltage: DC 3.6 V
Maximum charge voltage: DC 4.2 V
Maximum charge current: 1.89 A
Capacity: 4.5 Wh (1,240 mAh)
Type: Li-ion

[General]

Waterproof performance:

Depth of water 3 m (10 feet), 30 minutes continuously[*2]
Operating temperature: -10°C to +40°C (14°F to 104°F)
Storage temperature: -20°C to +60°C (-4°F to +140°F)
Dimensions (approx.): 72.3 mm × 50.2 mm × 20.8 mm (2 7/8 in. × 2 in. × 27/32 in.) (W/H/D, excluding protrusions)
Mass: Approx. 64 g (2.3 oz) (only the main body)
Total mass in use: Approx. 95 g (3.4 oz) (including the supplied belt and base plate)

[*1] The continuous operating time is the approximate available time when you use a fully charged

battery pack and display the Live-View continuously.

[*2] The waterproof performance is not guaranteed under all circumstances.
Design and specifications are subject to change without notice.

---

[59] How to use │ Others │ Trademarks
Trademarks

- Wi-Fi, the Wi-Fi logo and Wi-Fi PROTECTED SET-UP are trademarks or registered trademarks of the Wi-Fi Alliance.
- Adobe, the Adobe logo, and Adobe Acrobat are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- In addition, system and product names used in this guide are, in general, trademarks or registered trademarks of their respective developers or manufacturers. However, the ™ or ® marks may not be described in this guide.

---

[60] How to use │ Others │ Note on the License
Note on the License

On GNU GPL/LGPL applied software

The software that is eligible for the following GNU General Public License (hereinafter referred to as "GPL") or GNU Lesser General Public License (hereinafter referred to as "LGPL") are included in this unit. This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL.
Source code is provided on the web. Use the following URL to download it.
http://www.sony.net/Products/Linux/
We would prefer you do not contact us about the contents of source code. Copies of the licenses (in English) are stored in the internal memory of this unit. Establish a Mass Storage connection between this unit and a computer, and read the files in the "LICENSE" folder in "PMHOME."

---

[61] How to use │ Others │ Care and storage
Care and storage

Wipe the surface

Clean this unit surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. Do not use any of the following as they may damage the finish or the casing:

- Chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide, etc.
- Do not touch this unit with any of the above on your hand.
- Do not leave this unit in contact with rubber or vinyl for a long time.

Remove the battery pack when not in use for a long time

Remove the USB cable from this unit when not in use for a long time and store it. If not, it may cause a fire.

---

[62] How to use │ Others │ Care and storage
Maintenance of the LCD screen

The LCD screen surface is specially treated to reduce the reflection of light.
Incorrect maintenance may impair the performance of the LCD screen, so take care with respect to the following:

- Wipe the LCD screen gently with a soft cloth such as a cleaning cloth or glasses cloth.
- Stubborn stains may be removed with a soft cloth such as a cleaning cloth or glasses cloth slightly dampened with water.
- Never use a solvent such as alcohol, benzene or thinner, or acid, alkaline or abrasive detergent, or chemical cleaning cloth, as they will damage the LCD screen surface.

---

[63] How to use │ Others │ Care and storage
Maintenance of this unit in water or at a waterfront

- Always clean this unit with water within 60 minutes of use, and do not open the connector cover before cleaning is finished. Sand or water may get inside where it cannot be seen, and will degrade water-proof performance if not rinsed out.
- Allow this unit to sit in pure water poured into a cleaning bowl for about 5 minutes. Then, gently shake this unit and press each button under the water to clean away any salt, sand or other matter lodged around the buttons.
- After rinsing, wipe away any drops of water with a soft cloth. Allow this unit to dry completely in a shady location with good ventilation. Do not blow dry with a hair dryer as there is a risk of deformation and/or degraded waterproof performance.
- Wipe away any drops of water or dust from the connector cover with a soft dry cloth.
- Bubbles may appear when this unit is placed underwater. This is not a malfunction.
- The unit body may become discolored if it comes into contact with sunscreen or suntan oil. If this unit come into contact with sunscreen or suntan oil, quickly wipe it clean.
- Do not allow this unit to sit with salt water inside it or on its surface. This may lead to corrosion or discoloration, and degradation of the waterproof performance.

---

[64] How to use │ Others │ Battery pack
Battery pack

On charging the battery pack

- Charge the battery pack before using this unit.
- We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F) until the POWER/CHG (Charge) lamp turns off. The battery pack may not be effectively charged in temperatures outside this range.
- The POWER/CHG (Charge) lamp may blink during charging this unit in the following situations:
    - Battery pack is damaged.
    - The temperature of this unit is low. Put it in a warm place.
    - The temperature of this unit is high. Put it in a cool place.

Effective use of the battery pack

- Battery pack performance decreases at a low ambient temperature lower than 10°C (50°F). In cold places, therefore, the operational time of the battery pack is shorter.

Remaining battery charge

- If the battery pack runs out quickly even though the remaining charge indicator is high, fully charge this unit again. The remaining charge indicator will then be displayed correctly. Note that it may not be displayed correctly in the following situations:
    - This unit is used for a long time at high ambient temperature.
    - This unit is left fully charged.
    - This unit is used heavily.

On battery pack life

- The battery pack has a limited life. Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
- The battery pack life varies according to how the battery pack is used.

---

[65] How to use │ Others │ Disposal of this unit
Disposal of this unit

Remove the built-in battery pack before disposing of this unit.

- Do not remove the screws except when disposing of this unit. We will refuse repairs or replacement if we judge there to have been unwarranted disassembly.

The built-in battery pack of this unit is recyclable. When disposing of this unit remove the built-in battery pack and take it to your dealer.

1. Press the ON/OFF (Power) button.

    - The unit turns off.

2. Disconnect the connected cables.

3. Remove the screws with a Phillips-head screwdriver (4 screws).

4. Detach the cover.

5. Push the hook outwards and remove the battery pack.
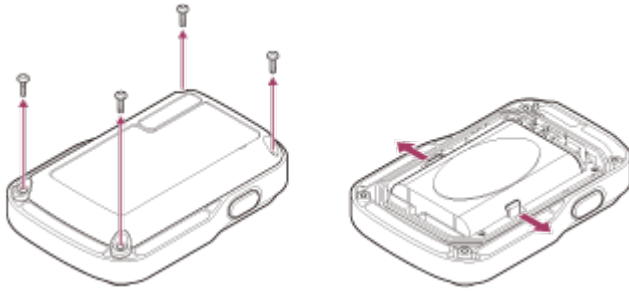
Note

When removing the built-in battery pack of this unit, be careful of the following.

- Remove the screws, etc. away from small children to prevent accidental swallowing.
- Be careful not to injure your nails or fingers.

---

[66] Troubleshooting │ Troubleshooting │ Cannot connect this unit and the camera via Wi-Fi.
Cannot connect this unit and the camera via Wi-Fi.

- If you cannot connect the camera to this unit properly, try the operation below.
  Check the camera and this unit connection mode are set to the single connection mode. If not, change the connection mode and connect again.

---

[67] Troubleshooting │ Troubleshooting │ Cannot turn on this unit.
Cannot turn on this unit.

- Charge the battery pack sufficiently.

---

[68] Troubleshooting │ Troubleshooting │ The power of this unit turns off suddenly.
The power of this unit turns off suddenly.

- Charge the battery pack sufficiently.
- If you have not used this unit for a prolonged period, the efficiency of the battery will be improved by repeatedly charging and discharging it.

Cannot charge this unit.

- Turn off this unit and make the USB connection.
- Disconnect the micro USB cable (supplied), and then reconnect it.
- Use the micro USB cable (supplied).
- Charge the battery pack in an ambient temperature of 10°C to 30°C (50°F to 86°F).
- Turn on the computer and connect this unit.
- Release the computer from sleep or hibernation status.
- Connect the micro USB cable (supplied) directly to the USB connector of the computer.

The remaining charge indicator is incorrect.

- This phenomenon occurs when you use this unit in an extremely hot or cold location.
- A discrepancy arises between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication.
- Fully charge the battery pack again. If the problem persists, the battery pack is worn out. Consult your nearest Sony dealer.

Error display on the Live-View Remote

If the following messages appear, follow the instructions.

01-01/02-02

Failed to connect the camera to this unit.
- Signal traffic may be heavy or this unit may be too far from the access point.

01-02

Failed to connect the camera to this unit.
- Follow the steps in "Connecting this unit to a camera via Wi-Fi (Single connection)" or "Connecting this unit to multiple cameras via Wi-Fi (Multi connection)."

01-03/01-04

Failed to connect the camera to this unit.
- The camera is not compatible.

03-01/03-02

Failed to connect the camera to this unit.

The camera is not recognized. Follow the steps in "Connecting this unit to a camera via Wi-Fi (Single connection)" or "Connecting this unit to multiple cameras via Wi-Fi (Multi connection)."

- Signal traffic may be heavy or this unit may be too far from the access point.

02-01/02-03

Camera error

- Confirm the accessing camera or memory card.

03-03/03-04

Failed to connect the camera to this unit.

- The camera is not recognized. You need to do some operation on the camera you want to connect.

- Signal traffic may be heavy or this unit may be too far from the access point.

03-05

Cannot connect to the camera.

- This unit already has connected to the maximum number of connectable cameras.
  Check the number of cameras you are connecting.

04-03

Request to the camera failed.

- Check the camera.

05-01

Cannot take images.

- Check the camera.

05-02/05-04

Cannot start recording.

- Check the camera.

05-03

Cannot stop recording.

- Check the camera.

04-04

No response from the camera.

- Check the camera.

- Signal traffic may be heavy or this unit may be too far from the access point.

06-01

Failed to format the recording medium.

06-02

The memory card does not support XAVC S movie recording.

- Use an SDXC memory card faster than Class10 when recording movies in XAVC S.

06-03

The NTSC/PAL setting is different between the recording media and the camera.

- Change the setting with Switching NTSC/PAL or format the recording media.

07-01/07-02/07-03

Failed to play.

- There is an abnormality in the recording media.
- Signal traffic may be heavy or this unit may be too far from the access point.

07-04

Failed to delete the file.

- Signal traffic may be heavy or this unit may be too far from the access point.

10-01

The camera's temperature has risen. Turn the power of the camera off and leave the camera alone for 10 minutes or longer.

Code Starting with an E or a C

When a code starting with a letter appears in the monitor, the self-diagnosis of this unit is working. Since some repairs may be necessary, consult your nearest Sony dealer and inform them of all codes starting with an E or a C.