Wireless/Streaming Microphone
ECM-S1

Use this Help Guide when you have issues or questions on how to use your wireless/streaming microphone.

Compatible cameras

The wireless/streaming microphone ECM-S1 is compatible with a camera that has a Multi Interface Shoe such as a Sony Interchangeable Lens Digital Camera.
- Even if your camera has a Multi Interface Shoe, you may be unable to use it with this unit or some functions may not work.
- The receiver and the microphone are factory-set to communicate with each other. Therefore, operations usually needed for Bluetooth devices such as pairing and passkey entry are not necessary. With any Bluetooth device other than the receiver and the microphone, on the other hand, communication is not possible.

For camera models compatible with this unit, view here. (Another window will open.)

When the message “This accessory is not supported by the device and cannot be used.” is displayed on the camera:

View here.

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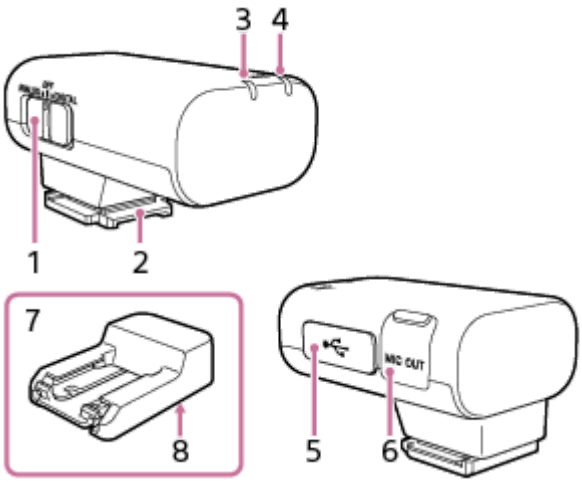
Locating parts and controls

Receiver



1. Slide switch (ANALOG/OFF/DIGITAL)
   Select “ANALOG” (analog audio output), “OFF” (power off), or “DIGITAL” (digital audio output).

   - If your camera is compatible with the digital audio interface of the Multi Interface Shoe, set the switch to “DIGITAL.”
     Digital signal transmission from the receiver to the camera has the following merits over analog signal transmission that is enabled by the switch being set to “ANALOG.”

     – Audio recording with less noises

     – Less audio delay during recording

     – Recording with 24-bit audio (only available in combination with the compatible camera)

     Note

     - Movies recorded with 24-bit audio may not be played back normally on devices or software incompatible with 24-bit audio, resulting in unexpectedly loud volumes or no sound.

   - If your camera is not compatible with the digital audio interface of the Multi Interface Shoe, set the switch to “ANALOG.”
     When the message “This accessory is not supported by the device and cannot be used.” is displayed on the camera, set the switch to “ANALOG.”
     If this does not help, see here.

   - When a TRS audio cable with the 3.5 mm diameter plug (commercially available) is connected, the receiver outputs analog signals via the cable.

   - When a device with a USB audio input capability is connected, the receiver outputs digital signals.

   - When you do not intend to use the receiver, set the switch to “OFF” to conserve the battery power.

2. Multi Interface foot

3. Power lamp (Green: Powered, Orange: Charging the battery)
   Indicates the power state of the receiver or the battery charge state.
   When the power lamp stays blinking in orange, battery charging is needed.

4. LINK lamp
   Indicates the connection state between the receiver and the microphone.

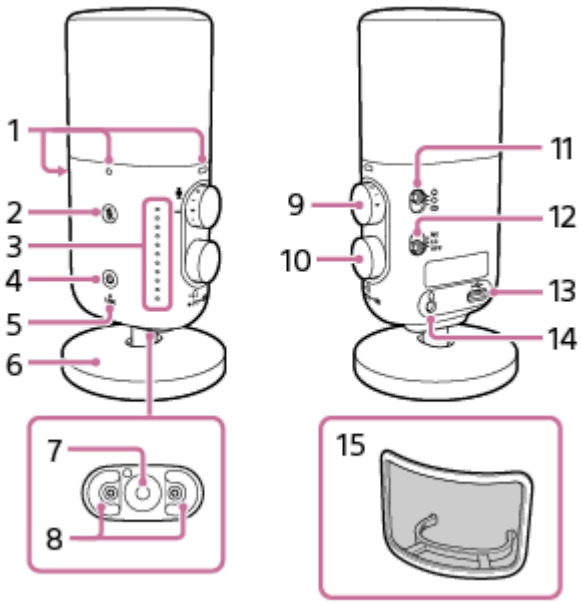
5. USB Type-C® port
   Connect to a power source with a USB Type-C cable (commercially available) for charging the built-in battery of the receiver and/or for supplying power to the receiver.
   This port can be connected to a device with a USB audio input capability, such as a computer or a smartphone, for audio recording as well.

6. Microphone out jack
   Connect to the microphone in jack on the camera with a TRS audio cable with the 3.5 mm diameter plug (commercially available) for audio recording.

7. Connector Protect Holder/Stand
   Attached to the receiver at the time of purchase.

8. Screw hole for tripod attachment (1/4 in. in diameter)

Microphone



1. Pop guard attachment mark

2. (mute) button/lamp (Red: The microphone is in mute mode.)

3. Indicator lamps
   By default, level meter mode is indicated.
   While the microphone is in level meter mode, briefly pressing the headphone volume/mixing ratio adjustment dial switches the mode to headphone volume adjustment mode.
   While the microphone is in level meter mode, pressing and holding the headphone volume/mixing ratio adjustment dial for about 2 seconds switches the mode to mixing ratio adjustment mode.
   To bring the microphone back into level meter mode, briefly press the headphone volume/mixing ratio adjustment dial or leave the microphone unused for 3 seconds or longer while the microphone is in headphone volume adjustment mode or in mixing ratio adjustment mode.

4. (power) button/lamp (Green: Powered, Orange: Charging the battery)
   Indicates the power state of the microphone or the battery charge state.
   When the (power) lamp stays blinking in orange, battery charging is needed.

5. LINK lamp
Indicates the connection state between the receiver and the microphone.

6. Stand
Attached to the microphone at the time of purchase.

7. Screw hole for tripod attachment (1/4 inch in diameter)

8. Stand attachment hole

9. AUDIO LEVEL dial
Adjusts the recording volume level of the audio from the microphone.

Note

- Turning the AUDIO LEVEL dial does not change the input level for the audio from the computer or smartphone via the USB connection.

10. Headphone volume/mixing ratio adjustment dial
Press this dial briefly to place the microphone into headphone volume adjustment mode; press and hold the dial for about 2 seconds to place the microphone into mixing ratio adjustment mode.

11. Directivity selection switch
: Monaural, Uni-directional
You can record the sounds coming across from the front while minimizing those coming from the back. This directivity is suitable for recording the voice of a single person, for example, for making podcast or narrative recordings.
: Monaural, Omni-directional
Sounds from all directions are equally picked. This directivity is suitable for recording the voices of multiple persons or for making recordings that capture the on-site atmosphere.
: Stereo, Uni-directional
Widespread sounds are captured with a rich sense of realism. This directivity is suitable, for example, for music recording.

12. Filter switch (NC/LC/OFF)
NC: Select this option to use the noise cut filter function. Unpleasant noises are effectively eliminated by digital signal processing. If the sound quality does not seem appropriate, select “OFF.”
LC: Select this option to use the low cut filter function. Unwanted noises, such as wind noises, air-conditioning noises, and vibration noises, are minimized.
OFF: Select this option to disable either of the filter functions.

13. USB Type-C® port
Connect to a power source with a USB Type-C cable (commercially available) for charging the built-in battery of the microphone and/or for supplying power to the microphone.
This port can be connected directly to a device with a USB audio input capability, such as a computer or a smartphone, for audio recording as well.

14. Headphone out jack
Connect headphones (commercially available) for audio monitoring while the microphone is connected to a device, such as a computer or a smartphone, via the USB connection.

15. Pop guard
Attach the pop guard to the microphone.
Popping noises caused by breath are reduced when you speak close to the microphone.

Related Topic

- Charging the receiver

- Charging the microphone
- Attaching the pop guard
- Attaching the stand
- Attaching the connector protect holder/stand
- Recording with the connected camera
- Adjusting the headphone volume level
- Adjusting the audio mixing ratio
- Lamp indications

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Unpacking

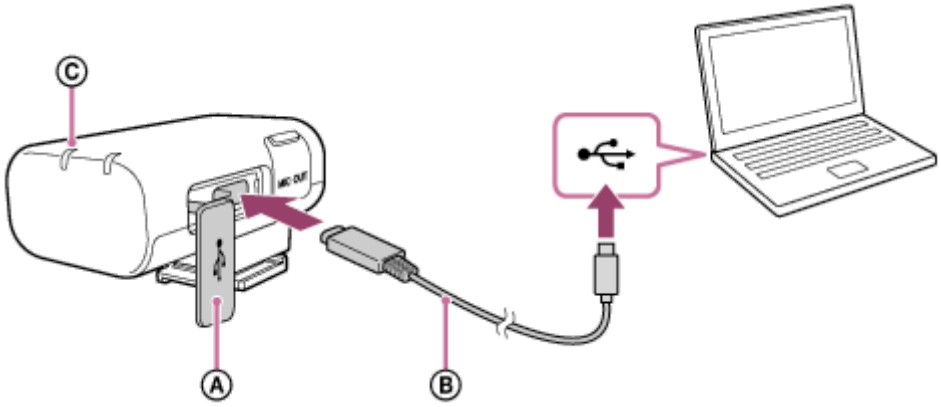
If you find anything missing, please contact your dealer.
The number in the parentheses indicates the quantity.

- Receiver (1)
  Connector Protect Holder/Stand (attached) (1)
- Microphone (1)
  Stand (attached) (1)
- Pop guard (1)
- Pouch (1)
- Set of printed documentation

Charging the receiver

Use a USB Type-C cable (commercially available) to charge the built-in battery of the receiver.

1 Open the lid of the USB Type-C port and connect a USB Type-C cable to the port.



Ⓐ Lid
Ⓑ USB Type-C cable
Ⓒ Power lamp

2 Connect the cable to a power source, such as a computer that is up and running, for battery charging.

The power lamp on the receiver lights in orange.

3 When battery charging is finished, disconnect the USB Type-C cable from the receiver.

Wait until the power lamp goes out to indicate that charging is finished (the battery is fully charged).

Note

- Do not apply excessive force to the receiver when you connect the receiver to a computer. This may cause damage to the receiver or the computer.
- Connecting the receiver to a laptop computer that is not connected to an AC power source may deplete the battery power of the computer. Do not leave the receiver connected to the computer for an extended period of time.
- Use of any customized or hand-built computer is not guaranteed for battery charging or for connection with the receiver. Depending on the type of USB device used in combination with the receiver, the receiver may fail to operate.
- Not all the computers are guaranteed for operation with the receiver.
- Battery charging via the USB connection may not be possible when the connected computer goes into standby (sleep) or hibernate mode. If this is the case, change the computer settings and then charge the battery all over again.
- In the event that the receiver is kept unused for an extended period of time, the amount of power that the rechargeable battery can charge may be reduced. To make the battery capable of charging sufficient power, let the battery charge and discharge the power repeatedly for a few times. In the event that you store the receiver for an extended period of time, charge the battery once every 6 months to protect it against over-discharging.
- In the event that the receiver is kept unused for an extended period of time, it may take longer to charge the built-in battery.

- In the event that the rechargeable battery of the receiver fails and the failure is detected while battery charging is in progress, the power lamp on the receiver stays blinking in orange.
  It is recommended that the battery be charged when the ambient temperature is in the range of 15 °C to 35 °C (59 °F to 95 °F). Efficient battery charging may not be possible when the temperature is outside this range.
  If the failure persists, consult your nearest Sony dealer.
- In the event of charging the built-in battery after the receiver is kept unused for an extended period of time, the power lamp on the receiver may not immediately light in orange. Wait for a while until the power lamp lights in orange.
- A significantly short battery life indicates that the rechargeable battery should be replaced with a new one. Consult your nearest Sony dealer.
- Keep the receiver against exposure to extreme temperature changes, direct sunlight, moisture, sand, dust, and electrical shocks. Never leave the receiver in a parked vehicle.
- When connecting the receiver to a computer, be sure to use only the USB Type-C cable and connect them directly. Indirect connection, for example, via a USB hub fails to charge the built-in battery.

Related Topic

- Lamp indications

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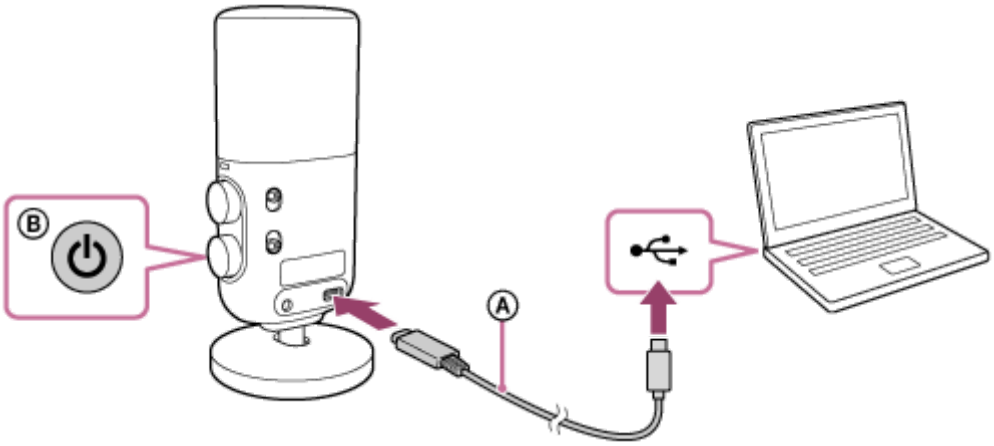
Charging the microphone

Use a USB Type-C cable (commercially available) to charge the built-in battery of the microphone.

1 Connect a USB Type-C cable (commercially available) to the microphone.



Ⓐ USB Type-C cable
Ⓑ ⏻ (power) lamp

2 Connect the cable to a power source, such as a computer that is up and running, for battery charging.

The ⏻ (power) lamp on the microphone lights in orange.

3 When battery charging is finished, disconnect the USB Type-C cable from the microphone.

Wait until the ⏻ (power) lamp goes out to indicate that charging is finished (the battery is fully charged).

Note

- Do not apply excessive force to the microphone when you connect the microphone to a computer. This may cause damage to the microphone or the computer.
- Connecting the microphone to a laptop computer that is not connected to an AC power source may deplete the battery power of the computer. Do not leave the microphone connected to the computer for an extended period of time.
- Use of any customized or hand-built computer is not guaranteed for battery charging or for connection with the microphone. Depending on the type of USB device used in combination with the microphone, the microphone may fail to operate.
- Not all the computers are guaranteed for operation with the microphone.
- Battery charging via the USB connection may not be possible when the connected computer goes into standby (sleep) or hibernate mode. If this is the case, change the computer settings and then charge the battery all over again.
- In the event that the microphone is kept unused for an extended period of time, the amount of power that the rechargeable battery can charge may be reduced. To make the battery capable of charging sufficient power, let the battery charge and discharge the power repeatedly for a few times. In the event that you store the microphone for an extended period of time, charge the battery once every 6 months to protect it against over-discharging.
- In the event that the microphone is kept unused for an extended period of time, it may take longer to charge the built-in battery.

- In the event that the rechargeable battery of the microphone fails and the failure is detected while battery charging is in progress, the ⏻ (power) lamp on the microphone stays blinking in orange.
  It is recommended that the battery be charged when the ambient temperature is in the range of 15 °C to 35 °C (59 °F to 95 °F). Efficient battery charging may not be possible when the temperature is outside this range.
  If the failure persists, consult your nearest Sony dealer.
- In the event of charging the built-in battery after the microphone is kept unused for an extended period of time, the ⏻ (power) lamp on the microphone may not immediately light in orange. Wait for a while until the ⏻ (power) lamp lights in orange.
- A significantly short battery life indicates that the rechargeable battery should be replaced with a new one. Consult your nearest Sony dealer.
- Keep the microphone against exposure to extreme temperature changes, direct sunlight, moisture, sand, dust, and electrical shocks. Never leave the microphone in a parked vehicle.
- When connecting the microphone to a computer, be sure to use only the USB Type-C cable and connect them directly. Indirect connection, for example, via a USB hub fails to charge the built-in battery.

Related Topic

- Lamp indications

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Attaching the receiver to a camera

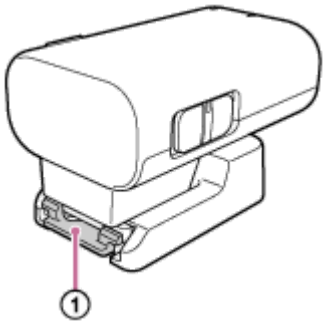
Attach the receiver to a camera.

Note

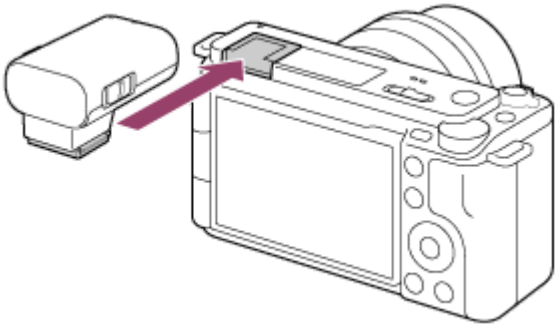
- Before attaching the receiver to the camera, charge the built-in battery of the receiver sufficiently enough.
- Before attaching/removing the receiver to/from the camera, be sure to turn off the receiver and the camera.

1 Remove the connector protect holder/stand.

Slightly push down and hold the retention latch (①) on the connector protect holder/stand, and then pull out the receiver.



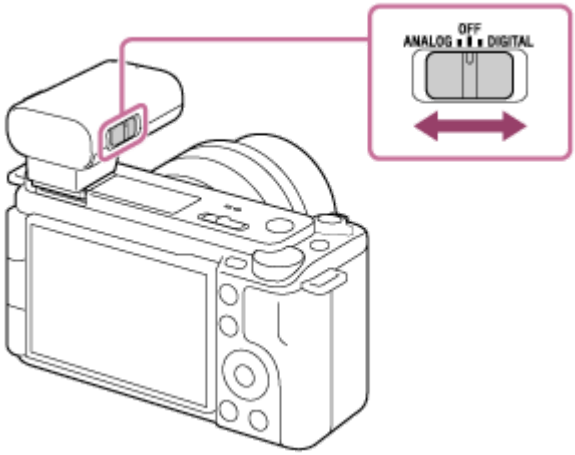
2 Align the Multi Interface foot of the receiver with the Multi Interface Shoe on the camera and attach the receiver.



Note

- Firmly insert the receiver all the way into the Multi Interface Shoe of the camera.
- If the built-in flash on the camera is popped up, put it down.

3 Check the position of the slide switch on the receiver.



If your camera is compatible with the digital audio interface of the Multi Interface Shoe, make sure that the switch is set to “DIGITAL.” If not, set the switch to “ANALOG.”
If the switch is not set correctly, a compatibility message will be displayed on the camera. For camera models compatible with the digital audio interface of the Multi Interface Shoe, visit the website at:
https://www.sony.net/dics/ecms1/

To remove the receiver

Slide the receiver in the direction opposite to the one for attachment.

Related Topic

- Charging the receiver

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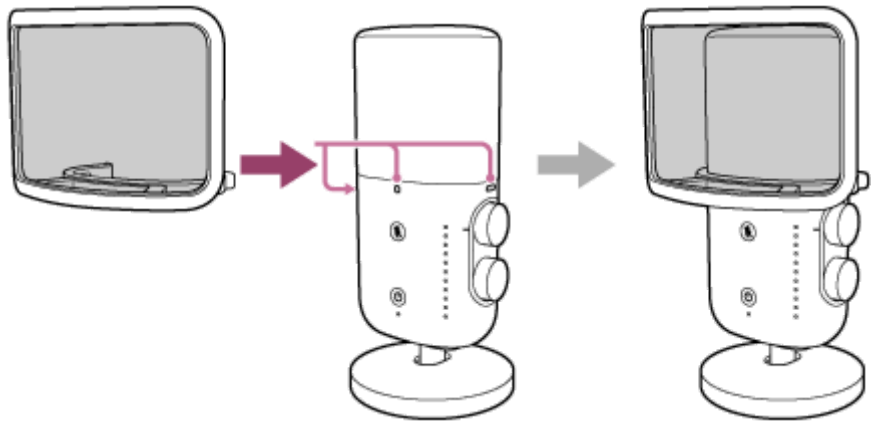
Attaching the pop guard

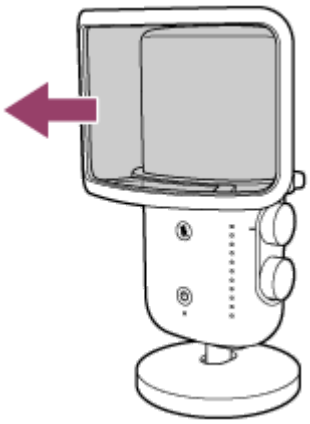
Attach the pop guard to the microphone.
Popping noises caused by breath are reduced when you speak close to the microphone.

1 **Attach the pop guard along the pop guard attachment marks on the microphone as illustrated below.**



To remove the pop guard

Hold the pop guard by the frame and remove the guard.



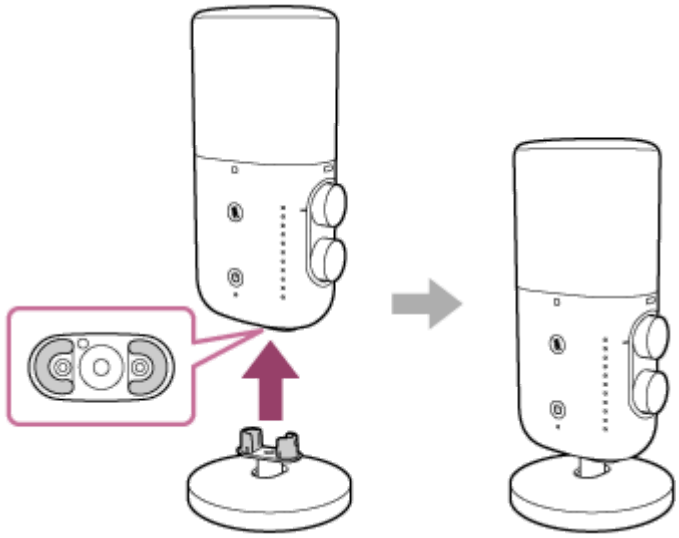
Note

- When the pop guard is attached to the microphone, avoid gripping the guard too tightly or waving the microphone around with excessive force, as this could cause the guard to detach and result in injury. Hold the microphone itself when carrying or handling it.

Attaching the stand

With the stand attached, the microphone can hold itself up for audio recording. It can tilt for angle adjustment as well. The stand is attached to the microphone at the time of purchase.

1 **Push in the projections of the stand to the stand attachment holes on the microphone until the stand clicks into place.**



To remove the stand

Hold the microphone and then pull out the stand.

Hint

- When the stand is not attached to the microphone, you can screw a boom arm (commercially available) to the screw hole for tripod attachment (1/4 in. in diameter) at the bottom of the microphone with a screw adaptor (commercially available).

Note

- When the stand is attached to the microphone, avoid gripping the stand too tightly or waving the microphone around with excessive force, as this could cause the stand to detach and result in injury. Hold the microphone itself when carrying or handling it.

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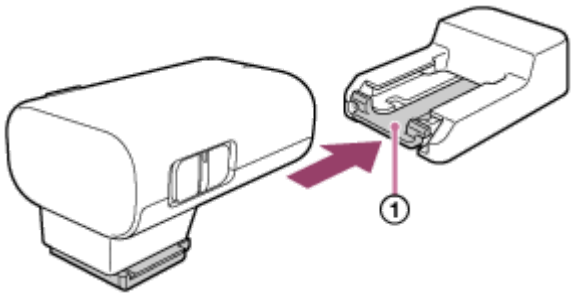
Attaching the connector protect holder/stand

Before carrying around the receiver, attach the connector protect holder/stand (supplied) to the receiver.

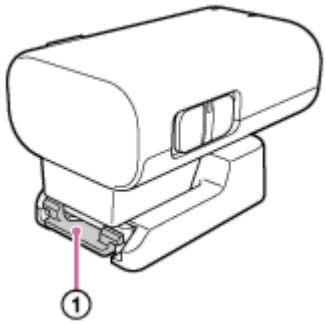
1 **Slide the Multi Interface foot of the receiver into the connector protect holder/stand until it clicks into place.**

Slightly push down and hold the retention latch (①) on the connector protect holder/stand, and then slide the receiver into the connector protect holder/stand.



To remove the connector protect holder/stand

Slightly push down and hold the retention latch (①) on the connector protect holder/stand, and then pull out the receiver.



Hint

- When placing the receiver away from a camera, attach the connector protect holder/stand to the receiver. Then you can place and use the receiver on a flat surface.
- The connector protect holder/stand can be screwed to a tripod through the screw hole for tripod attachment (1/4 in. in diameter) on the connector protect holder/stand as well.
  To screw the connector protect holder/stand to the tripod, use a tripod with the screw that is shorter than 5.5 mm (7/32 in.) in length. To a tripod with the longer screw, the connector protect holder/stand cannot be secured firmly and may be damaged by the screw.

Note

- When you do not intend to use the receiver, attach the connector protect holder/stand to the Multi Interface foot for connector protection.

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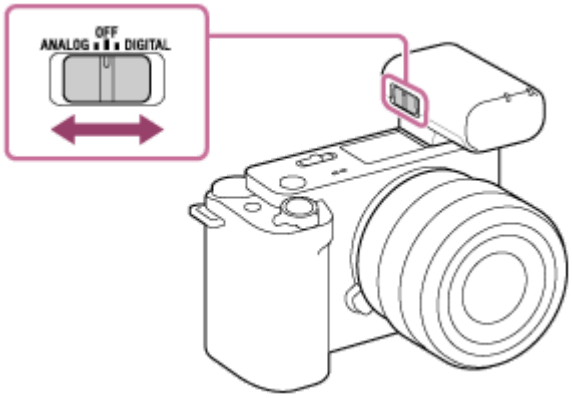
Recording with the connected camera

Use the receiver attached to a camera and the microphone at hand for audio recording.

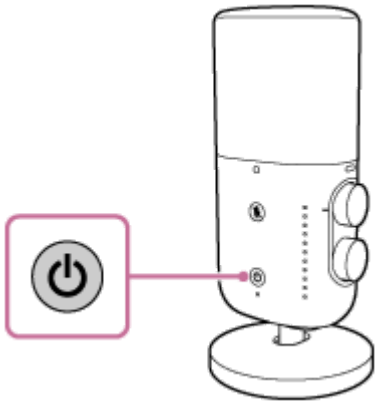
1. **Turn on the camera and place the camera on standby.**

2. **Turn on the receiver and the microphone.**

- Select your desired audio output with the slide switch (ANALOG/OFF/DIGITAL) on the receiver.
  If your camera is compatible with the digital audio interface of the Multi Interface Shoe, make sure that the switch is set to “DIGITAL.” If not, set the switch to “ANALOG.”
  If the switch is not set correctly, a compatibility message will be displayed on the camera. For camera models compatible with the digital audio interface of the Multi Interface Shoe, visit the website at:
  https://www.sony.net/dics/ecms1/



- Press and hold the ⏻ (power) button on the microphone for about 2 seconds.

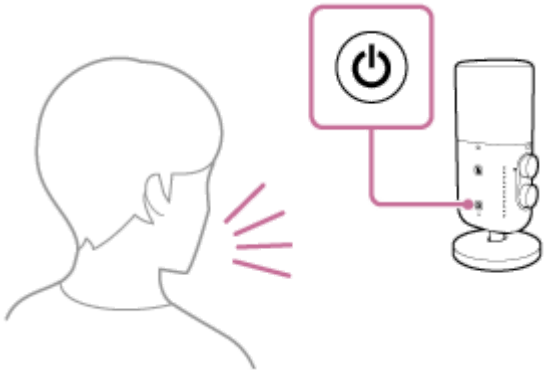


Immediately after the receiver and the microphone are turned on, the LINK lamp on the microphone starts blinking slowly in blue. This indicates that each of the devices is making a series of attempts to detect, connect to, and authenticate the other device. When a connection is established between the devices and clear audio recording is possible, the LINK lamps on both devices stay lit in blue.
If no connection is established, bring the microphone and the receiver closer to each other for another attempt. The devices may be under influence of environmental or other factors.

3. **Make sure that the LINK lamp on the receiver is lit in blue, and then start video recording with the camera.**

Before recording, make sure that the surface of the microphone with the ⏻ (power) button faces to the sound source.
Adjust the recording volume level by turning the AUDIO LEVEL dial while monitoring the indicator lamps, or adjust the distance between the audio source and the microphone.

- In the event that sounds are picked at the normal volume level: Adjust the recording volume level so that none of the indicator lamps would light in orange.
- In the event that sounds are picked at an extremely loud volume level: Adjust the recording volume level so that the top indicator lamp would not light in red.



Note

- When you are finished with using the receiver and the microphone, select “OFF” with the slide switch on the receiver and press and hold the ⏻ (power) button on the microphone for about 2 seconds to turn off this unit.
- Depending on the using condition, an analog connection with this unit may cause noises to be included in audio recordings.
- To use a camera compatible with the digital audio interface of the Multi Interface Shoe or a device with a USB audio input capability, make a digital connection with this unit. When a radio device is nearby, keep this unit sufficiently away from the device.
- While video recording is in progress, operating the filter switch, the directivity selection switch, or the AUDIO LEVEL dial on the microphone may cause operation sounds to be included in the recording. Before changing the switch/dial settings, be sure to stop the recording.
- When a video recording is made with this unit, an operation sound (an electronic sound) may be included at the beginning of the recording. It is recommended that you disable the operation sound settings on your camera before making video recordings. For details, refer to the operating instructions of your camera.
- The receiver receives power supply from the camera as well. (The built-in battery of the receiver, however, is not charged with the supplied power.) Depending on your camera, however, it may not be capable of supplying power. For the camera models that support power supply to the receiver, visit our website at:
https://www.sony.net/dics/ecms1/

Related Topic

- Lamp indications

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Recording with the microphone and the computer or smartphone connected via the wired connection

You can connect the microphone to a device with a USB audio input capability, such as a computer or a smartphone, for audio recording.

Note

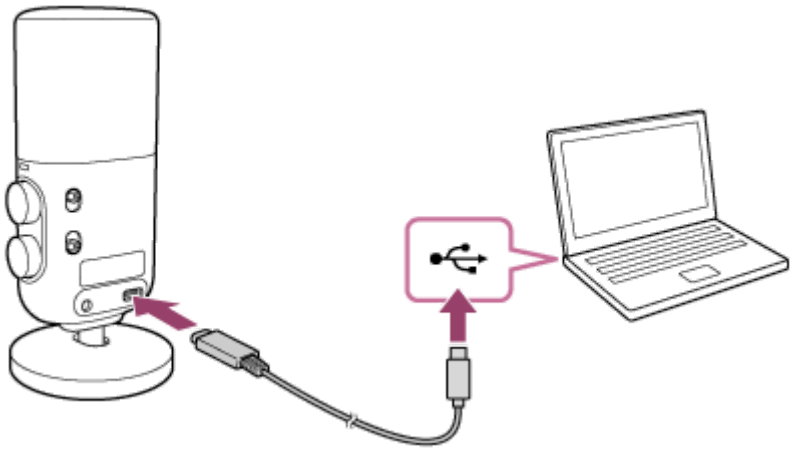
- For operations on the computer or smartphone, refer to the operating instructions of your device.
- For audio recording with the microphone and the connected computer or smartphone, your device must be compatible with USB Audio Class 1.0.
- When connecting the microphone to the computer or smartphone, be sure to check the port type on your device and use a compatible cable or an appropriate adaptor.

1. **Press and hold the ⏻ (power) button on the microphone for about 2 seconds to turn on the microphone.**

   The ⏻ (power) lamp lights in green.

2. **Connect the microphone to a device with a USB audio input capability with a USB Type-C cable (commercially available).**

   The ⏻ (power) lamp on the microphone turns orange.



3. **Make sure that the microphone is recognized on the device, and then start recording.**

Note

- While audio recording is in progress, operating the filter switch, the directivity selection switch, or the AUDIO LEVEL dial on the microphone may cause operation sounds to be included in the recording. Before changing the switch/dial settings, be sure to stop the recording.

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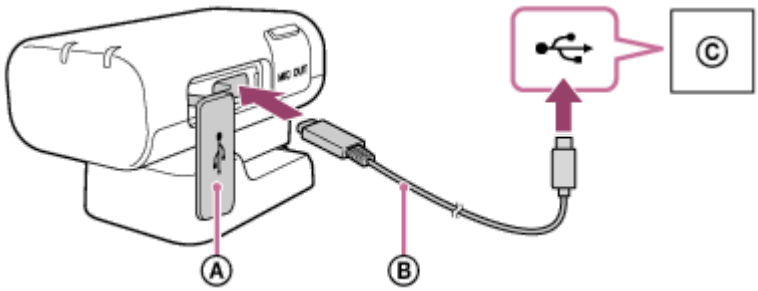
Recording with the connected computer or smartphone via the wireless connection

Use the receiver connected to a device with a USB audio input capability, such as a computer or a smartphone, and the microphone at hand for audio recording.

Note

- For operations on the computer or smartphone, refer to the operating instructions of your device.
- Before connecting the receiver and the microphone to the computer or smartphone, charge the built-in batteries sufficiently enough.
- For audio recording with the receiver and the connected computer or smartphone, your device must be compatible with USB Audio Class 1.0.
- When connecting the receiver to the computer or smartphone, be sure to check the port type on your device and use a compatible cable or an appropriate adaptor.

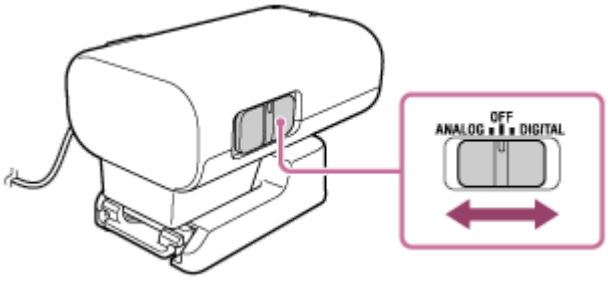
1 Open the lid of the USB Type-C port on the receiver, and then connect the receiver and a computer or a smartphone that is up and running with a USB Type-C cable (commercially available).



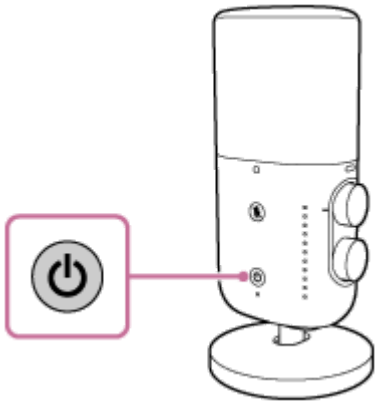
Ⓐ Lid
Ⓑ USB Type-C cable
Ⓒ Computer or smartphone

2 Turn on the receiver and the microphone.

- Select “ANALOG” or “DIGITAL” with the slide switch (ANALOG/OFF/DIGITAL) on the receiver.
  When the receiver and the computer or smartphone are connected via the USB connection, the receiver outputs digital signals regardless of the switch selection: “ANALOG” or “DIGITAL.”



- Press and hold the ⏻ (power) button on the microphone for about 2 seconds.

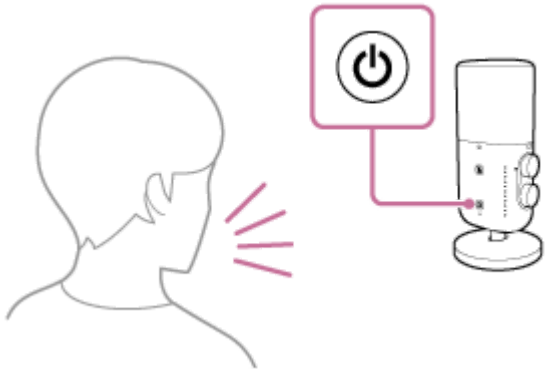


Immediately after the receiver and the microphone are turned on, the LINK lamp on the microphone starts blinking slowly in blue. This indicates that each of the devices is making a series of attempts to detect, connect to, and authenticate the other device. When a connection is established between the devices and clear audio recording is possible, the LINK lamps on both devices stay lit in blue.
If no connection is established, bring the microphone and the receiver closer to each other for another attempt. The devices may be under influence of environmental or other factors.

3 **Make sure that the LINK lamp on the receiver is lit in blue, and then start recording.**

Before recording, make sure that the surface of the microphone with the ⏻ (power) button faces to the sound source.
Adjust the recording volume level by turning the AUDIO LEVEL dial while monitoring the indicator lamps, or adjust the distance between the audio source and the microphone.

- In the event that sounds are picked at the normal volume level: Adjust the recording volume level so that none of the indicator lamps would light in orange.
- In the event that sounds are picked at an extremely loud volume level: Adjust the recording volume level so that the top indicator lamp would not light in red.



Note

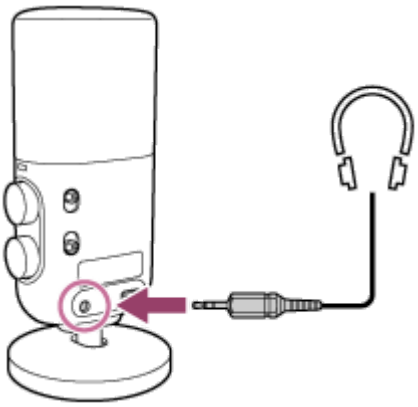
- When you are finished with using the receiver and the microphone, select “OFF” with the slide switch on the receiver and press and hold the ⏻ (power) button on the microphone for about 2 seconds to turn off this unit.
- Depending on the using condition, noises may be included in audio recordings.
- When a radio device is nearby, keep this unit sufficiently away from the device.
- While audio recording is in progress, operating the filter switch, the directivity selection switch, or the AUDIO LEVEL dial on the microphone may cause operation sounds to be included in the recording. Before changing the switch/dial settings, be sure to stop the recording.
- When an audio recording is made with this unit, an operation sound (an electronic sound) may be included at the beginning of the recording. It is recommended that you disable the operation sound settings on your computer or smartphone before making audio

recordings. For details, refer to the operating instructions of your device.

Monitoring the audio

When recording with the microphone and the connected computer or smartphone via the USB connection, you can connect headphones (commercially available) to the microphone for audio monitoring.

1. **Connect the microphone to a computer or a smartphone that is up and running with a USB Type-C cable (commercially available).**
2. **Connect headphones (commercially available) to the headphone out jack on the microphone.**



3. **Launch the software capable of audio recording on the computer or smartphone, and then select [ECM-S1].**

Note

- While the microphone and the computer or smartphone are not connected via the USB connection, audio monitoring with the connected headphones is not possible.

Related Topic

- Recording with the microphone and the computer or smartphone connected via the wired connection
- Adjusting the headphone volume level
- Adjusting the audio mixing ratio
- Lamp indications

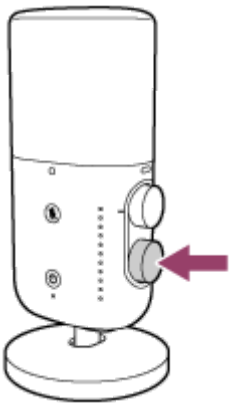
Wireless/Streaming Microphone
ECM-S1

Adjusting the headphone volume level

You can adjust the headphone volume level for audio monitoring with the headphone volume/mixing ratio adjustment dial on the microphone.

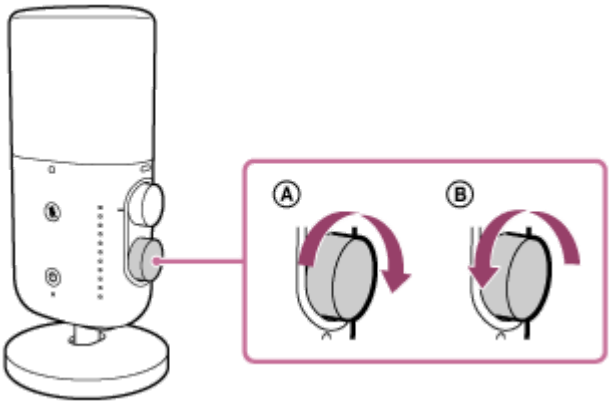
1. **Press the headphone volume/mixing ratio adjustment dial briefly to place the microphone into headphone volume adjustment mode.**

   The indication of the indicator lamps changes from the one for level meter mode to the one for headphone volume adjustment mode.
   For details, see Lamp indications.



2. **Turn the headphone volume/mixing ratio adjustment dial to the left or right to adjust the headphone volume level.**

   The recording volume level is not affected by this operation.



- To increase the headphone volume level, turn the dial to the right (Ⓐ).
- To decrease the headphone volume level, turn the dial to the left (Ⓑ).

To bring the microphone out of headphone volume adjustment mode

Press the headphone volume/mixing ratio adjustment dial briefly.
The indication of the indicator lamps changes from the one for headphone volume adjustment mode to the one for level meter mode.

Note

- When the microphone is left unused for 3 seconds or longer, the microphone automatically comes out of headphone volume adjustment mode and the indication of the indicator lamps changes back to the one for level meter mode (default).

Related Topic

- Recording with the microphone and the computer or smartphone connected via the wired connection
- Adjusting the audio mixing ratio

Wireless/Streaming Microphone
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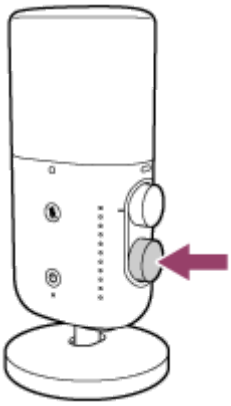
Adjusting the audio mixing ratio

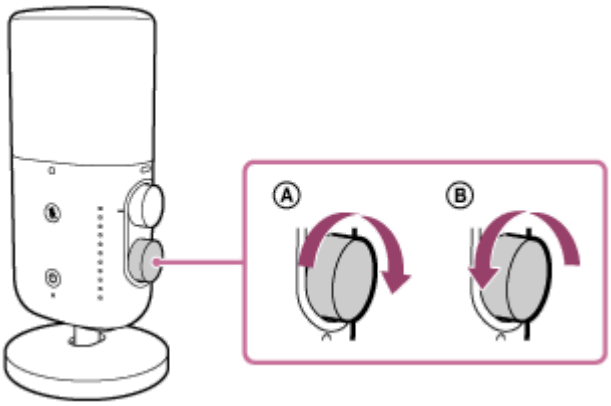
You can adjust the audio mixing ratio between the input volume level of the audio from the microphone and that of the audio from the computer or smartphone via the USB connection with the headphone volume/mixing ratio adjustment dial on the microphone.

1. **Press and hold the headphone volume/mixing ratio adjustment dial for about 2 seconds.**

   The indication of the indicator lamps changes from the one for level meter mode to the one for mixing ratio adjustment mode.
   The middle indicator lamp lights in white.
   For details, see Lamp indications.



2. **Turn the headphone volume/mixing ratio adjustment dial to the left or right to adjust the audio mixing ratio.**



   - To increase the output audio volume ratio for the microphone, turn the dial to the right (Ⓐ).
   - To increase the output audio volume ratio for the connected computer or smartphone, turn the dial to the left (Ⓑ).

To bring the microphone out of mixing ratio adjustment mode

Press the headphone volume/mixing ratio adjustment dial briefly.
The indication of the indicator lamps changes from the one for mixing ratio adjustment mode to the one for level meter mode.

Note

- Mixing ratio adjustment is applied only to the audio that is being output from the headphone out jack. It has no effect on the audio that is being recorded.
- When the microphone is left unused for 3 seconds or longer, the microphone automatically comes out of mixing ratio adjustment mode and the indication of the indicator lamps changes back to the one for level meter mode (default).

Related Topic

- Monitoring the audio

Wireless/Streaming Microphone
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Lamp indications

The lamp lights, blinks or goes out according to the state of the devices and communication as follows.
●: Lit in green / ●: Lit in orange / ●: Lit in blue / ●: Lit in red / ○: Lit in white / -: Unlit

Power lamp/ ⏻ (power) lamp

- The power has just been turned on.
  ●(Lit in green)*
- The receiver is turned off.
  - Receiver
    - (Unlit)
  - Microphone
    ●(Lit in green)*
- The microphone is turned off.
  - Receiver
    ●(Lit in green)*
  - Microphone
    - (Unlit)
- The built-in battery is running out of power.
  ● ●●(Blinks twice in orange, and then stays lit in green.)
- The built-in battery is almost worn out.
  ● ● ● ● ●(Stays blinking in orange)
- The built-in battery is charging.
  ●(Lit in orange)

* While the USB Type-C port is used, the power lamp/ ⏻ (power) lamp stays lit in orange.

LINK lamp

- The power has just been turned on.
  - Receiver
    - (Unlit (on standby))*1
  - Microphone
    ●-●-●-●-●(Blinking slowly in blue (on standby))*1 *2
- A connection is established and clear audio recording is possible.
  - Receiver
    ●(Lit in blue)

- Microphone
   (Lit in blue)[*2]

- The receiver is turned off.
  - Receiver
    - (Unlit)
  - Microphone
    ●-●-●-●-●(Blinking slowly in blue (on standby))[*1] [*2]

- The microphone is turned off.
  - Receiver
    - (Unlit (on standby))[*1]
  - Microphone
    - (Unlit)

- Audio is interrupted due to bad communication conditions.
  - Receiver
    ● ● ● ● ●(Blinking in blue (The faster the blinking speed, the worse the communication conditions.))[*3]
  - Microphone
    ● ● ● ● ●(Blinking in blue (The faster the blinking speed, the worse the communication conditions.))[*2] [*3]

- The built-in battery is charging.
  - (Unlit)

*1 When the lamp stays in this state for 5 minutes, the auto power-off function of this unit is activated. Turn off this unit, and then turn it back on.
*2 When a wired connection is made with the microphone for audio recording, the LINK lamp stays unlit.
*3 Check the LINK lamps on the receiver and the microphone for the communication state.
Due to some surrounding factors, including poor radio conditions and a high number of obstacles between the receiver and the microphone, the communication state between the two devices may deteriorate, causing audio interruptions or noises. If this is the case, the LINK lamps blink in blue. Make sure that the two devices are located appropriately apart from each other, there are no obstacles between them, and the LINK lamps are steadily lit in blue before you use the receiver and the microphone.

(mute) lamp (Microphone)

- The microphone is not in mute mode.
  - (Unlit)

- The microphone is in mute mode.
   (Lit in red)

Indicator lamps (Microphone)

- Level meter mode
  Default indication. The number of lit indicator lamps varies according to the recording volume level.
  ○ ○ ○ ○ ○ ○ ○ ● ● ● ●
  Adjust the recording volume level by turning the AUDIO LEVEL dial while monitoring the indicator lamps, or adjust the distance between the audio source and the microphone.
  - In the event that sounds are picked at the normal volume level: Adjust the recording volume level so that none of the indicator lamps would light in orange.
  - In the event that sounds are picked at an extremely loud volume level: Adjust the recording volume level so that the top indicator lamp would not light in red.

- Headphone volume adjustment mode
  Indication of the indicator lamps after the headphone volume/mixing ratio adjustment dial is briefly pressed.
  ● ● ● ● ● ●- - - - - (Some indicator lamps are lit in orange according to the volume level of the headphones. This indicates that the more the number of the orange-lit indicator lamps, the higher the output audio volume ratio for the headphones.)

- Mixing ratio adjustment mode
  Indication of the indicator lamps after the headphone volume/mixing ratio adjustment dial is pressed and held for about 2 seconds.
  - - - - -◯- - - - - (Some indicator lamps above and below the white-lit middle indicator lamp are lit in orange according to the input volume level of the audio from the microphone and that of the audio from the computer or smartphone via the USB connection. The orange-lit indicator lamps above the white-lit middle indicator lamp indicate that the output audio volume ratio for the microphone is higher.)

Related Topic

- Locating parts and controls
- Adjusting the headphone volume level
- Adjusting the audio mixing ratio

Notes on use

In addition to this Help Guide, please read “Notes on use” in the Startup Guide (supplied).

- While audio recording is in progress, touching this unit or the connected TRS audio cable with the 3.5 mm diameter plug (commercially available) may cause noises to be included in the recording.
- Depending on the using condition, an analog connection with this unit may cause noises to be included in audio recordings.
- To use a camera compatible with the digital audio interface of the Multi Interface Shoe or a device with a USB audio input capability, make a digital connection with this unit. When a radio device is nearby, keep this unit sufficiently away from the device.
- If the headphones are placed near the microphone (sound pickup unit) during recording, a howling effect (acoustic feedback) may occur. If this happens, place the headphones farther away from the microphone, or lower the volume of the headphones.
- Do not hold the camera only by the receiver. The receiver may be damaged or the camera may fall.
- Before you carry around the receiver, be sure to remove the receiver from the camera, attach the connector protect holder/stand (supplied) to the receiver, and place it in a pouch for connector protection.
- If dust or water droplets are present on the surface of the microphone, a successful audio recording may not be possible. Be sure to clean the microphone surface before using this unit.
- When you do not intend to use the receiver, slide the connector of the Multi Interface foot into the connector protect holder/stand for connector protection.
- When the microphone is used at low temperatures, the battery performance drops compared to when it is used at the normal temperature (25 °C (77 °F)), which makes the operating time shorter.
- In the event of radio interference to another device while using the receiver, stop using the wireless function. Radio interference may cause a malfunction of the device, resulting in an accident.
- When the stand and/or pop guard are attached to the microphone, avoid gripping them too tightly or waving the microphone around with excessive force, as this could cause them to detach and result in injury. Hold the microphone itself when carrying or handling it.

Bluetooth® Wireless Communication Technology

- Bluetooth wireless communication technology allows communication between various Bluetooth devices without using cables. Devices that can use this technology include computers, computer peripheral devices and smartphones.
- The receiver and the microphone are factory-set to communicate with each other. Therefore, operations usually needed for Bluetooth devices such as pairing and passkey entry are not necessary. With any Bluetooth device other than the receiver and the microphone, on the other hand, communication is not possible.

Note

- The communication sensitivity of this unit may be affected by the following conditions:
  - When there are obstacles such as people, metallic objects, walls, or reflective surfaces between the front of the receiver and the microphone.
  - When used in a wireless LAN system environment, near multiple Bluetooth devices that are operating, near a working microwave oven, or where there are electromagnetic waves.
- If the microphone is placed in close proximity to the camera, noises may also be included in the audio of video recordings due to RF interference. Keep the microphone at least 1 m (3 ft.) from the camera during use.
- Check the LINK lamps on the receiver and the microphone for the communication state.
  Due to some surrounding factors, including poor radio conditions and a high number of obstacles between the receiver and the microphone, the communication state between the two devices may deteriorate, causing audio interruptions or noises. If this is the case, the LINK lamps blink in blue. Make sure that the two devices are located appropriately apart from each other, there are no obstacles between them, and the LINK lamps are steadily lit in blue before you use the receiver and the microphone.

Wireless/Streaming Microphone
ECM-S1

Specifications

Wireless communication

Communication system	Bluetooth specification Ver. 5.3
Output	Bluetooth specification Power Class 1
Main compatible Bluetooth Profile	Generic Attribute Profile
Codec	LC3plus*1
Working range*2	Up to 150 m (450 ft.)

*1 LC3plus is the supported audio format in ECM-S1.
*2 This is the approximate communication distance when the microphone is upright and directly facing the receiver. It varies depending on the surrounding conditions, such as the presence or absence of reflective surfaces or obstacles like metallic objects or human bodies, as well as the radio wave conditions.

Receiver

Microphone out jack	Ø3.5 mm mini jack (stereo)
USB port	USB Type-C port
Power requirements	Built-in lithium-ion battery (approx. 3.7 V) / Power supply via the Multi Interface Shoe
Rated Voltage	5 V ⎓
Power consumption (Approx.)	0.18 W
Continuous operating time (Approx.)	• 3 hours (with the fully charged built-in battery and with the analog audio output selected) • 18 hours (with power supply via the Multi Interface Shoe)
Charging time (Approx.)	2 hours* (via a computer)
Dimensions (Approx.)	32 mm × 29 mm × 50 mm (1 5/16 in. × 1 3/16 in. × 2 in.) (W/H/D)
Mass (Approx.)	25 g (0.9 oz.)

* Time period required for charging the empty rechargeable batteries via the USB charging port (CDP - Charging Downstream Port) on the computer to full capacity. It may vary depending on the using condition.

Microphone

Type	Back electret condenser type

Sampling frequency/the number of quantization bits	48 kHz/16 bit, 48 kHz/24 bit*1
Frequency response	20 Hz - 20 000 Hz
Pickup pattern (selectable)	Monaural, Uni-directional/Monaural, Omni-directional/Stereo, Uni-directional
Front sensitivity*2	–20 dBFS (0.1 Pa, 1 kHz)
Intrinsic noise*2 *3 *4	19 dB SPL or less (0 dB = 2×10^{-5} Pa)
Wind noise*2 *4 *5	30 dB SPL or less
Maximum input sound pressure level	120 dB SPL*2 *6
Dynamic range*3	101 dB or more
Headphone out jack	Ø3.5 mm mini jack (stereo)
USB port	USB Type-C port
Power requirements	Built-in lithium-ion battery (approx. 3.85 V)
Rated Voltage	5 V ⎓
Power consumption (Approx.)	0.16 W
Continuous operating time (Approx.)	13 hours (with the fully charged built-in battery)
Charging time (Approx.)	2 hours*7 (via a computer)
Dimensions (Approx.)	63 mm × 137.5 mm × 63 mm (2 1/2 in. × 5 1/2 in. × 2 1/2 in.) (W/H/D) (including the stand)
Mass (Approx.)	157 g (5.6 oz.) (including the stand)

*1 Videos recorded with 24-bit audio may not be played back normally on devices or software incompatible with 24-bit audio, resulting in unexpectedly loud volumes or no sound.
*2 Acquired while “8” is selected by the AUDIO LEVEL dial.
*3 Acquired while “DIGITAL” is selected by the slide switch.
*4 Acquired while ◯ (Monaural, Uni-directional) is selected by the directivity selection switch and “LC” is selected by the filter switch.
*5 Equivalent sound pressure level value converted from the average value of the noise that is output from the microphone when an air stream with a wind velocity of 2 m/sec. is applied to the microphone from every direction. (0 dB = 2×10^{-5} Pa)
*6 Equivalent sound pressure level value converted from the input level value that is acquired when 1% waveform distortion is produced by 1 kHz output signals from the microphone. (0 dB = 2×10^{-5} Pa)
*7 Time period required for charging the empty rechargeable batteries via the USB charging port (CDP - Charging Downstream Port) on the computer to full capacity. It may vary depending on the using condition.

Others

Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage temperature	–20 °C to +55 °C (–4 °F to 131 °F)

Design and specifications are subject to change without notice.

Wireless/Streaming Microphone
ECM-S1

Trademarks

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When the message “This accessory is not supported by the device and cannot be used.” is displayed on the camera:

Do the following in the listed order.

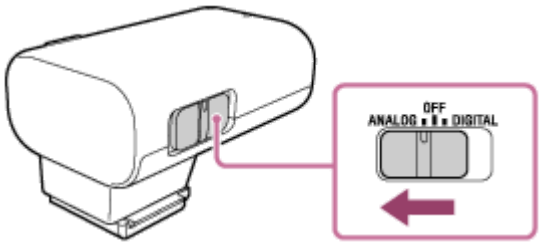
1. **Make sure that your camera is compatible with this unit.**

   For camera models compatible with this unit, visit the website at:
   https://www.sony.net/dics/ecms1/

   Note

   - In combination with any camera model that is not listed on the above website, the unit does not work.

2. **To use a camera that is not compatible with the digital audio interface in combination with this unit, set the slide switch on the receiver to “ANALOG.”**



3. **Clean the contacts on the receiver and the camera. When either or both of the contacts are soiled with dust or the like, the camera may fail to detect that the receiver is attached. To clean the contacts, use a cotton swab or a dry, soft cloth (e.g., a cleaning cloth). Do not use water or chemicals for cleaning.**

Note

- Make sure that the slide switch is located exactly at the “ANALOG,” “OFF,” or “DIGITAL” position. If the switch is located in between, the receiver may not work properly.