C-372-100-**11** (1)

SONY

Digital Video Camera

Technical Manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

UMC-S3C

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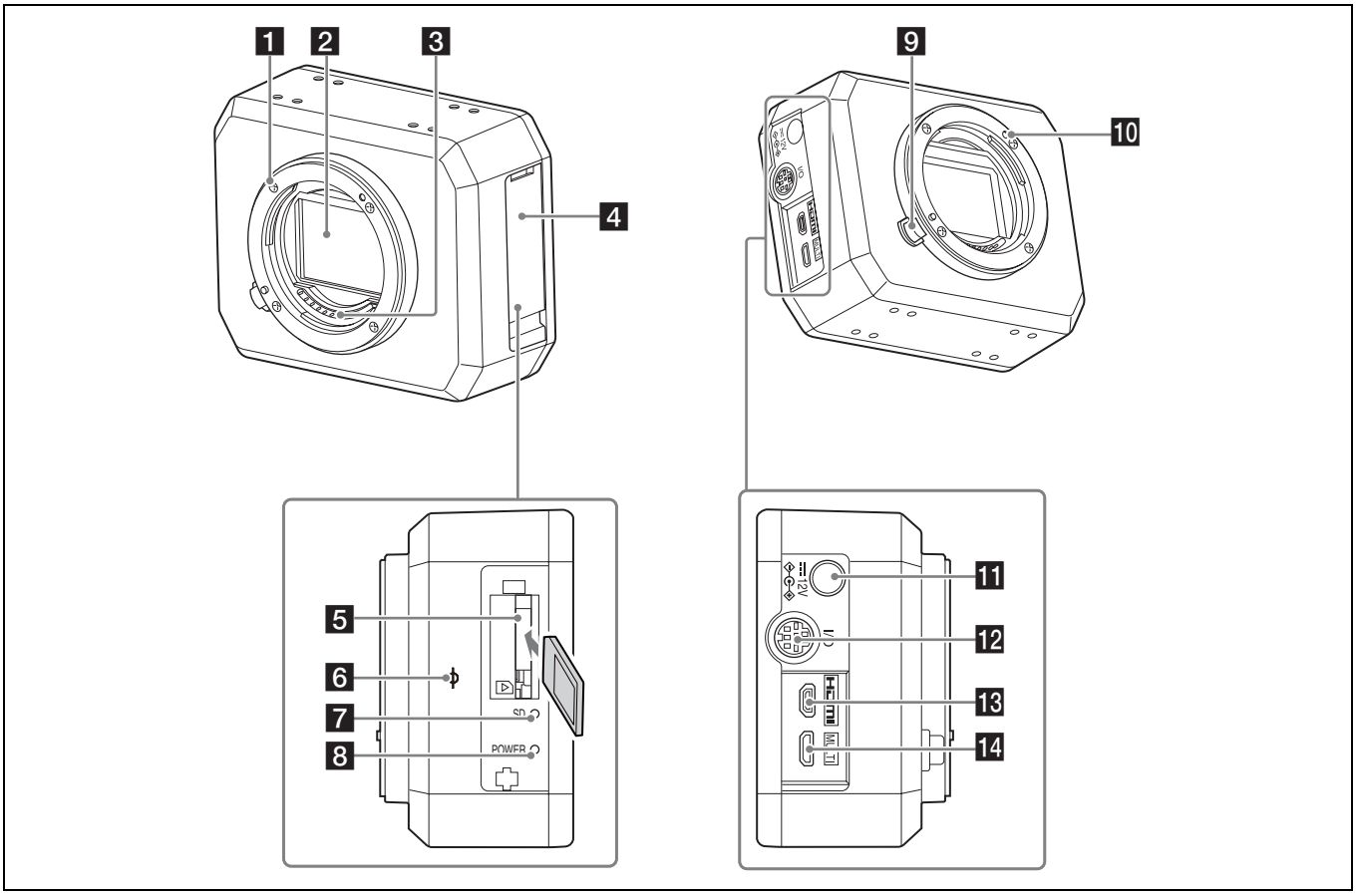
Location and Functions of Part



1 Mount

Mount the E mount lens.

2 Image sensor

Note

Do not touch directly with your hands.

3 Lens contacts

Note

Do not touch directly with your hands.

4 SD memory card cover

To use the SD memory card slot, insert the SD memory card by opening the cover.

5 SD memory card slot

The SD memory card (sold separately) can be attached. By attaching the SD memory card, you can record the video of the camera to the SD memory card.
Insert facing the terminal to the rear side as indicated in the illustration. Then press down softly until it clicks to attach firmly.

To remove the card, push the card down till it clicks, then remove.
This camera only supports SD memory cards of SDXC standards and SDHC standards.

Supported memory card	Still image	Video
SD memory card	○	–
SDHC memory card	○	–
SDXC memory card	○	○*
micro SD memory card	○	–
micro SDHC memory card	○	–
micro SDXC memory card	○	○*

* SD memory cards which follows all conditions below
- Capacity of more than 64 GB
- To record with SD Speed class 10: CLASS 10 , or UHS Speed class higher than 1: U1 , higher than 100 Mbps, UHS Speed class 3: U3 is required.

Notes

- Please contact the Sony inquiry counter for verified SD memory cards.
- Make sure to insert it in the dedicated adapter, when micro SD memory card is used on the camera.
- When you remove the card, ensure that the access light is turned off. If you remove the card while the light is turned on or blinking, the data stored in the SD memory card may be damaged.

6 Image sensor position mark

The ⊖ mark describes the position on the image sensor. Use the position of this line to measure the distance from the camera to objects correctly.

7 Access lamp

Flashes while reading/writing on the SD memory card. Do not remove the SD memory card or power plug, when the access lamp is on.
Otherwise, the data in the SD memory card may be damaged.

8 POWER (power) indicator (green)

Lights up green when the camera is operating normally.

9 Lens release button

To remove lens, rotate the lens by pressing the button. When you mount the lens, do not press the button.

10 Mount index

11 ⎓ 12 V ⟐⊂⟐ (DC power input) terminal

Connects to DC 12 V power supply.
For details, see Connection to the power supply on page 8.
To turn off the camera, control the camera via the I/O terminal or multi/micro USB terminal.

12 I/O terminal

Can control the external camera.
For details, see Connection to an I/O terminal on page 8.

13 HDMI connector (Type D)

Connect a commercial HDMI cable.

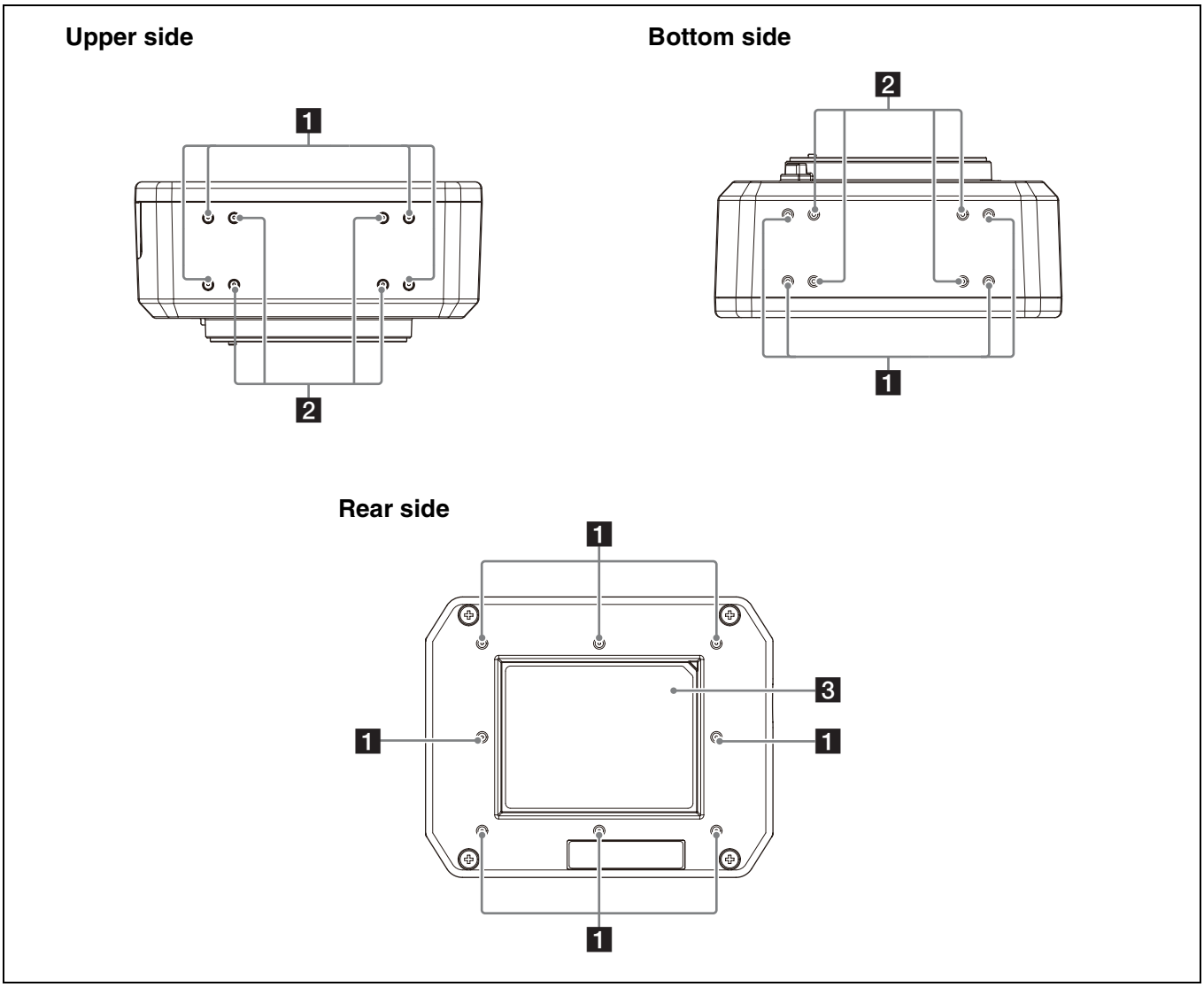
14 Multi / Micro USB terminal

You can connect devices which support micro USB standards to this terminal to control the camera from external devices.

Notes

- Do not wire the cable routed outdoors, when 11, 13 is connected.
- To wire indoors, the cable should be shorter than 30 m for 11, 13.
- The cable should be shorter than 3 m for 14.
- When connected to 13, 14, it is recommended to secure the cable to prevent disconnection from the camera due to its weight or from external force.

Upper side/Bottom side/Rear side



1 Screw hole to mount the camera

Use this to fix camera.

Notes

Use screws with a depth of 3.5 mm from the mounting surface of the camera.
The depth should not be over 4 mm.
Otherwise the screw damages the inside of the camera and could lead to failure.

2 Camera mounting screw holes/Tripod mounting screw holes

To use a tripod, use these 4 screw holes to securely attach the tripod adapter.

3 Rating label

This label shows the name of the device and its electric rating.

Installation

Warning

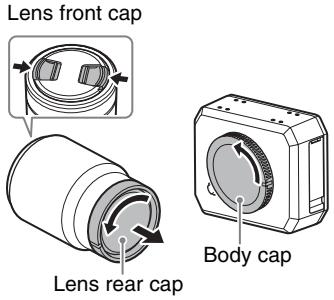
- Do not leave the lens facing the sun.
  The sunlight enters through the lens and focuses inside the camera and will lead to a fire accident.
- Attach the lens in the exact way described in this document. Loose attachment may lead to injury due to the lens falling off. Check that the attachment is not loose at least once a year. Perform more frequent checks depending on the usage.
- Full performance may not be achieved depending on the installed circumstance or lens. Please contact Sony for details.

Mounting the lens

Mounting/removing of the lens should be performed after turning the camera “OFF”.

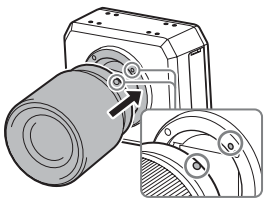
1 Remove the body cap from the camera and the lens rear cap from the lens.

- Perform this operation in a dustless place in a quick manner to prevent the dust getting into the camera.
- Remove the lens front cap on the front side of the lens when you shoot.



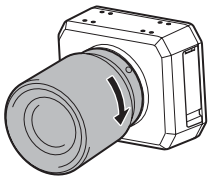
2 Align two white dots on the lens and camera, then engage.

- Face the mount downward to prevent dust from getting in.



3 Push the lens to the camera softly, then rotate it in the direction of the arrow until it clicks.

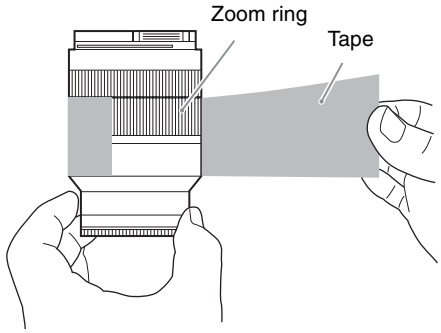
- Do not insert the lens at a tilted angle.



Notes

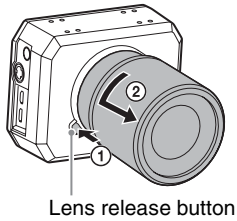
- When you mount the lens, do not press the Lens release button.
- Do not apply any force on the lens.
- Hold securely for both the camera and lens when you carry the camera with a lens mounted.
- Do not hold the camera holding the lens part that juts out when zooming or focusing.
- Zoom lens use
  Zoom position may be changed depending on the installed circumstances.
  Make sure to secure the zoom ring by applying tape as necessary.
  Recommended tape: 3M Scotch® plastic film tape Model No. 471 BLA 50 equivalents

Apply the tape on the zoom ring full circle to fix.



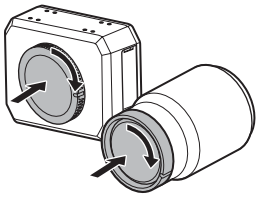
To remove the lens

1 Rotate the lens in the direction of the arrow until it stops by pressing the Lens release button, then remove.



2 Mount the body cap on the camera and the cap around the lens.

- Mount the cap after removing the dust.

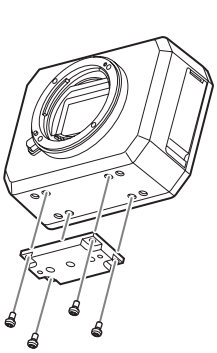


Notes on lens exchange

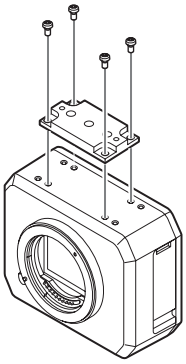
If the dust gets into the camera and stuck to the surface of the image sensor (a part to convert the light to an electrical signal) upon lens exchange, dust may appear in the image. Mount/remove the lens at a dustless place in a quick manner.

Mounting the tripod adapter

Use the mounting screw holes on the upper side/bottom side of the camera/tripod adapter mounting holes (4 inside) to mount the supplied tripod adapter.



To mount on the bottom side



To mount on the upper side

Notes

- Use the supplied screws (M3×6) (recommended tightening torque: 0.6 N·m)
- Do not install the camera on a place or equipment that shudders.
- Install on an even flat place.

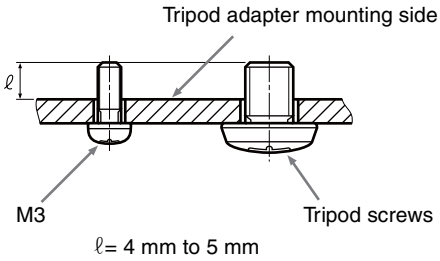
Notes on installation

When the tripod screws are used

- Use screws which go over (ℓ) the tripod adapter mounting side by 4 to 5 mm.
- Make sure it doesn't go over more than 5.5 mm.

When the M3 screws (sold separately) are used

- Use screws which go over (ℓ) the tripod adapter mounting side by 4 to 5 mm.
- Make sure it doesn't go over more than 5.5 mm.



ℓ= 4 mm to 5 mm

Connection

Connection to the power supply

Connect the power cable to a 12 V terminal.

- Voltage range of the power supply operation is 9 V to 13.2 V (within the warranty scope of the range of voltage the camera receives (voltage at receiving end)).
- Use a UL cable (VW-1 style 10368) for wiring.
- Use the power supply equipment with supplying power of more than 22 VA for the camera.
- Use an external power supply plug based on IEC60130-10 (JEITA standard RC-5320A) TYPE4 for 12 V power supply terminal.
- **Recommended cables**

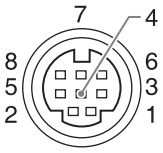
Cable (AWG)	#20	#18	#16
The maximum cable length (m)	10	20	30

Connection to an I/O terminal

Connect to an I/O terminal.

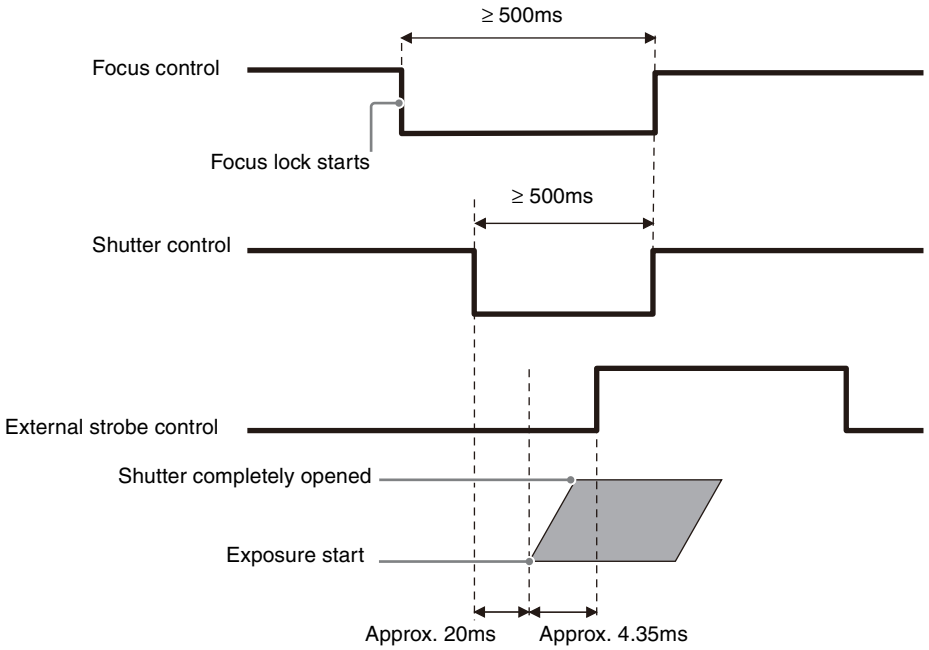
·Use a plug based on the 8PIN mini DIN.

Pin layout



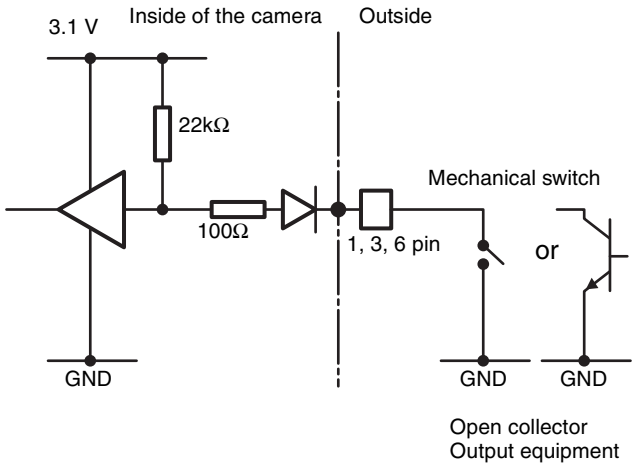
Pin number	Input/ output	Name	Function
1	Input	Shutter control terminal	Shoot with “Low” input
2	Output	External strobe control terminal	When you use a mechanical shutter, perform “High” output from the point where the shutter is completely opened to the end of exposure.
3	Input	Focus control terminal	Perform focus lock of the camera with “Low” input
4	GND	GND terminal	Connect to “GND”
5	Input	Extended terminal	Do not connect anything
6	Input	Power OFF/ON control terminal	Switch between OFF and ON with “Low” input (min: 500ms)
7	Input	Reboot control terminal	Reboot the camera with “Low” input (min: 500ms)
8	GND	GND terminal	Connect to “GND”

Recommended timing plan

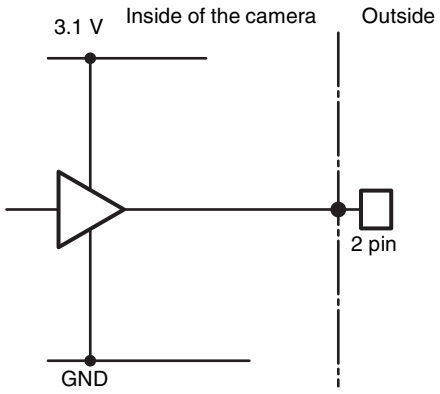


I/O terminal circuit diagram

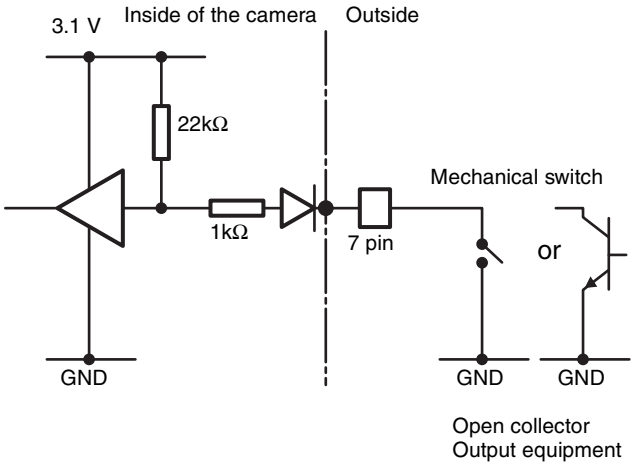
1, 3, 6 pin



2 pin



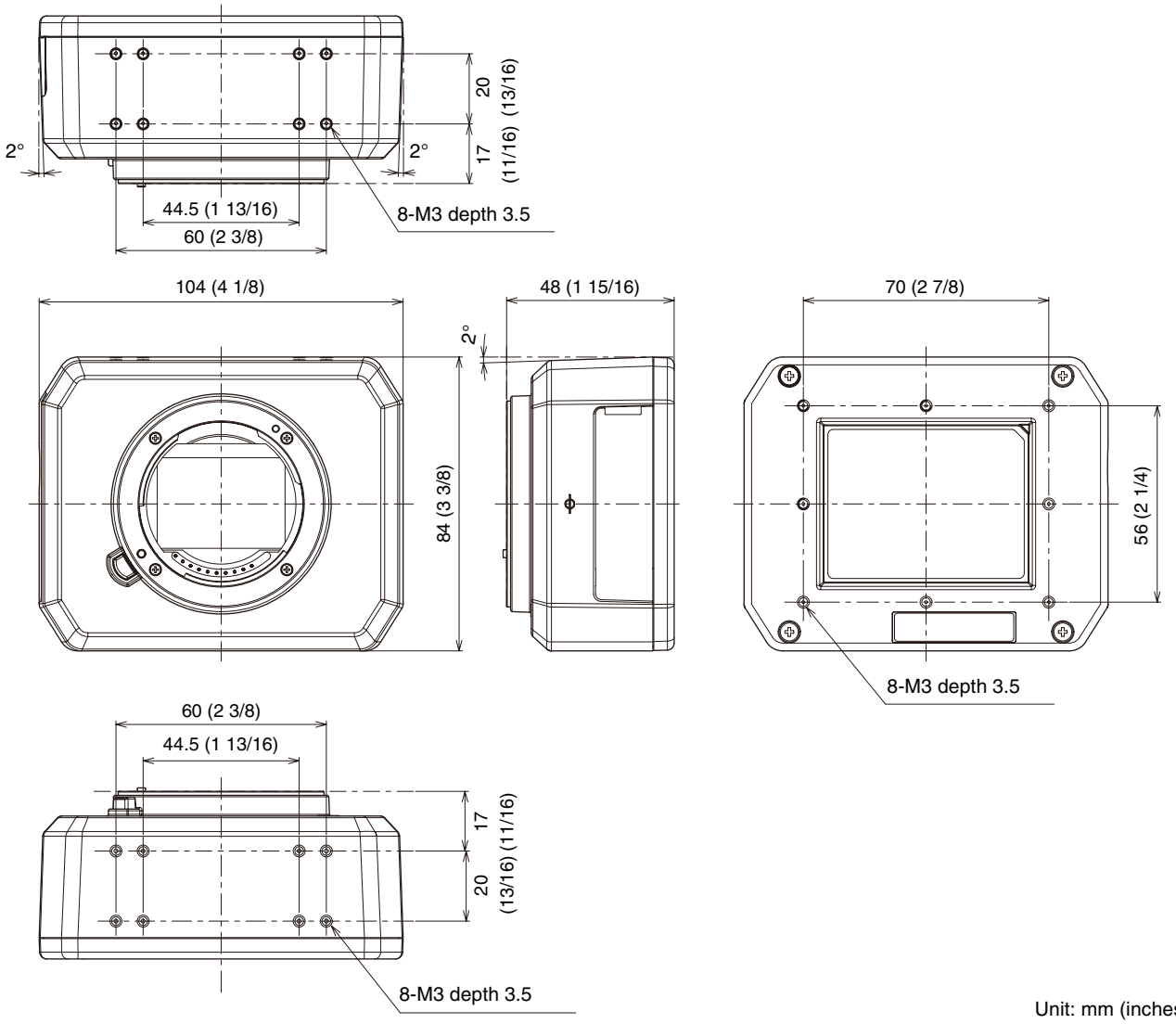
7 pin


3.1 V
Inside of the camera
Outside
22kΩ
1kΩ
7 pin
Mechanical switch
or
GND
GND
GND
Open collector
Output equipment

Specifications

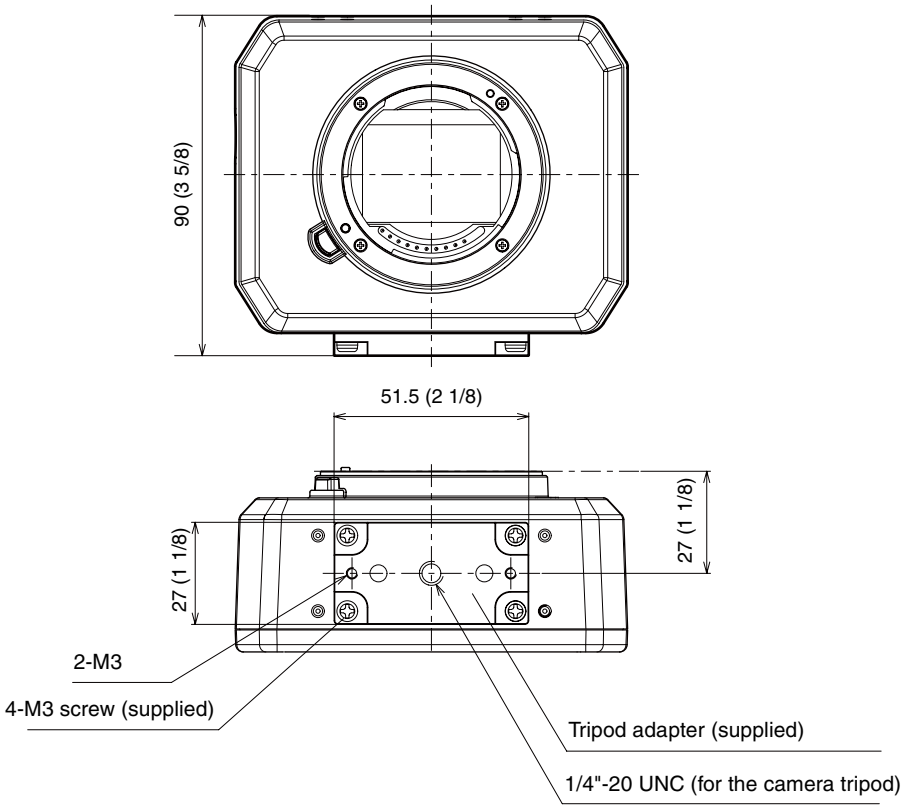
Camera	
Image sensor	35 mm full frame Exmor® CMOS sensor
Number of Effective Pixels	Approx. 1.220 Megapixels
Lens type	E-mount lens (option)
Still image	
Recording format	Based on JPEG (DCF Ver.2.0, Exif Ver.2.3, MPF Baseline) RAW (Sony ARW 2.3 format)
Resolution (3: 2)	L: 4,240 × 2,832 (12M), M: 2,768 × 1,848 (5.1M), S: 2,128 × 1,416 (3.0M)
Resolution (16: 9)	L: 4,240 × 2,384 (10M), M: 2,768 × 1,560 (4.3M), S: 2,128 × 1,200 (2.6M)
Video	
Recording format	Pursuant to MPEG-4 AVC/H.264 XAVC S ver.1.0 Standards Image: MPEG-4 AVC/H.264
4K mode	3,840 × 2,160 (29.97P, 100 Mbps) 3,840 × 2,160 (25P, 100 Mbps) 3,840 × 2,160 (23.98P, 100 Mbps) 3,840 × 2,160 (29.97P, 60 Mbps) 3,840 × 2,160 (25P, 60 Mbps) 3,840 × 2,160 (23.98P, 60 Mbps)
FHD mode	1,920 × 1,080 (119.88P, 100 Mbps) 1,920 × 1,080 (100P, 100 Mbps) 1,920 × 1,080 (119.88P, 60 Mbps) 1,920 × 1,080 (100P, 60 Mbps) 1,920 × 1,080 (59.94P, 50 Mbps) 1,920 × 1,080 (50P, 50 Mbps) 1,920 × 1,080 (29.97P, 50 Mbps) 1,920 × 1,080 (25P, 50 Mbps) 1,920 × 1,080 (23.98P, 50 Mbps)
High frame mode	1,920 × 1,080 (29.97P, 16 Mbps) 1,920 × 1,080 (25P, 16 Mbps) 1,920 × 1,080 (23.98P, 12 Mbps)
Interface	
Digital Video Output	HDMI (type D) ×1
Multi/Micro USB terminal	USB communication Hi-Speed USB (USB 2.0) ×1
I/O terminal	8PIN mini DIN concave ×1
Card slot	SD memory card slot (supports SDHC/SDXC memory cards) ×1
General	
Power Requirements	DC 12 V –25%+10% (9 V to 13.2 V)
Power Consumption	Max. approx. 19 W (including lens)
Operating Temperature	0°C to 45°C
Storage Temperature	–20°C to +60°C
Operating Humidity	20 % to 80 % (no condensation)
Storage Humidity	20 % to 80 % (no condensation)

Outer dimensions of the camera body (diameter × height)
[The values for dimensions are approximate.]

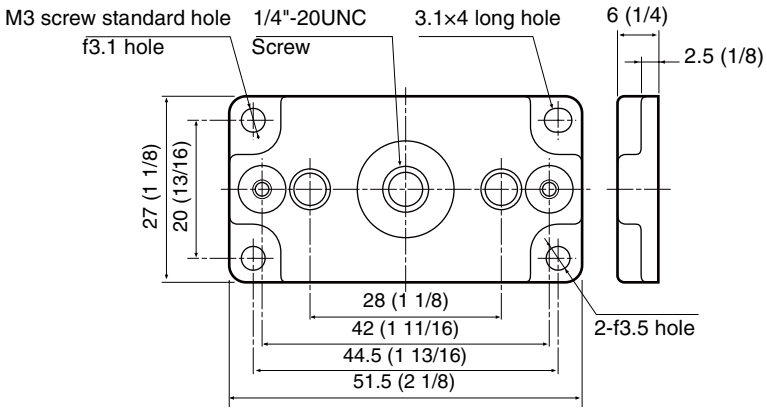


Unit: mm (inches)

Outer dimensions with the tripod adapter attached (diameter × height)
[The values for dimensions are approximate.]



Outer dimensions of the tripod adapter (diameter×height)
[The values for dimensions are approximate.]



Material: ABS

Unit: mm (inches)

Mass	Approx. 390 g (camera body only)
Supplied Accessories	Tripod adapter (1), Tripod adapter fixing screw (4), Safety instruction (1)

Design and specifications are subject to change without notice.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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libnl-headers

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