

Step3 Mount the camera

■ For mounting on ceiling

- [1] **Mark the position of holes to be made for the ceiling mount bracket (locally procured) on the attachment position of the ceiling, and make those holes for attachment.**

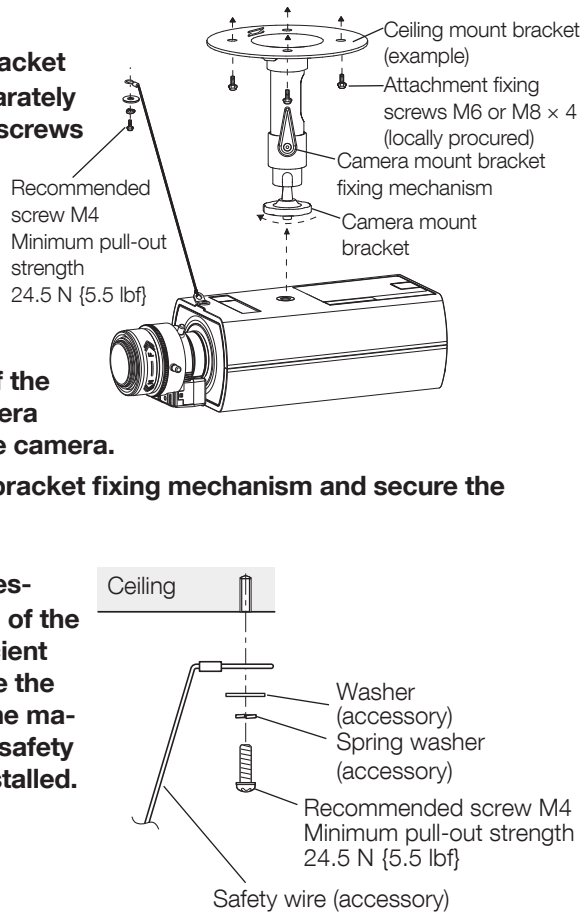
Determine the hole diameter and hole depth according to the specifications of the screws or anchor bolts to be used.

- [2] **Secure the ceiling mount bracket (locally procured) using separately procured attachment fixing screws or anchors.**

- [3] **Loosen the camera mount bracket fixing mechanism to freely move the camera mount bracket. Align the screw thread with the fixing screw hole of the camera, and rotate the camera mount bracket to secure the camera.**

Tighten the camera mount bracket fixing mechanism and secure the camera mount bracket.

- [4] **Attach the safety wire (accessory) to the foundation area of the architecture or where sufficient strength is assured. Prepare the fixing screw according to the material of the area where the safety wire (accessory) is to be installed.**



IMPORTANT:

- Be sure to rotate and secure the camera mount bracket. Rotating the camera places a large burden on the camera mount bracket, and may cause damage.
- The safety wire (accessory) shall be adjusted to remove slack.
- The distance from the camera to the ceiling changes depending on the tilt angle of the camera. Attach the safety wire (accessory) in a position according to the tilt angle of the camera.

■ For mounting on wall

- [1] **Mark the position of holes to be made for the wall mount bracket (locally procured) on the attachment position of the wall, and make those holes for attachment.**

Determine the hole diameter and hole depth according to the specifications of the screws or anchor bolts to be used.

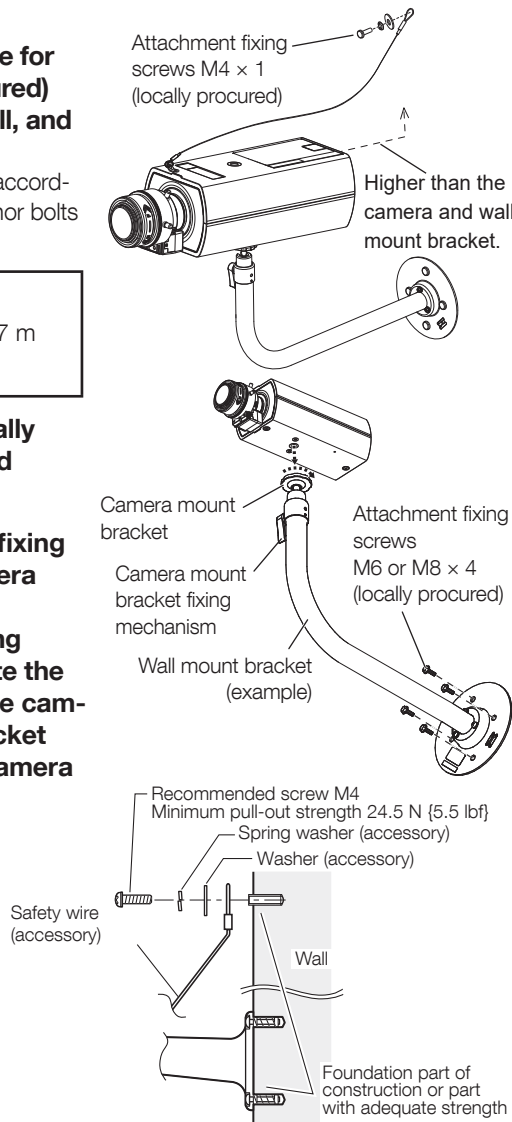
IMPORTANT:

- Mount the bracket in a position higher than 2.7 m {8.86 feet} from the floor.

- [2] **Secure the wall mount bracket (locally procured) using separately procured screws or anchors.**

- [3] **Loosen the camera mount bracket fixing mechanism to freely move the camera mount bracket. Align the screw thread with the fixing screw hole of the camera, and rotate the camera mount bracket to secure the camera. Tighten the camera mount bracket fixing mechanism and secure the camera mount bracket.**

- [4] **Attach the safety wire (accessory) to the foundation area of the architecture or where sufficient strength is assured. Prepare the fixing screws according to the material of the area where the safety wire (accessory) is to be installed.**



IMPORTANT:

- Be sure to rotate and secure the camera mount bracket. Rotating the camera places a large burden on the camera mount bracket, and may cause damage.
- Attach the safety wire (accessory) in a position higher than the camera and the mount bracket.
- Attach the safety wire (accessory) so that if the camera were to become detached, it would not fall on nearby people.

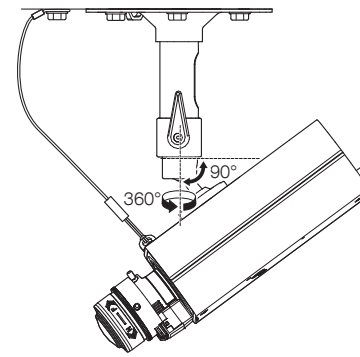
Step5 Adjust the camera

[1] Adjusting the camera angle

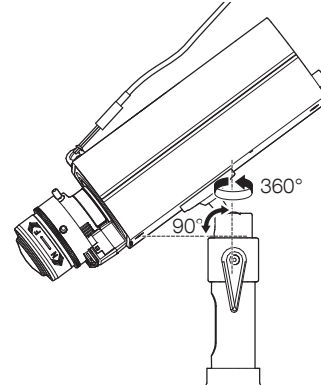
Loosen the camera mount bracket fixing mechanism on the camera mount bracket, and then check the adjustment monitor to adjust the camera angle. When adjusting the camera angle, make sure to loosen the camera mount bracket fixing mechanism on the camera mount bracket before making adjustments. If the camera angle is changed when the camera mount bracket fixing mechanism is tightened, excessive force is applied to the camera mount bracket and camera, which may damage them.

After adjusting the camera angle, make sure to tighten the camera mount bracket fixing mechanism securely again.

For mounting on ceiling



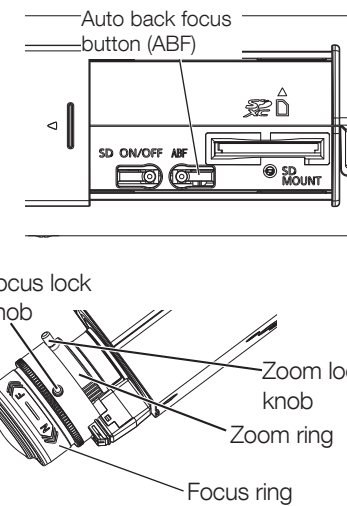
For mounting on wall



[2] Adjusting the focus

① First, reset the back focus position by holding down the auto back focus button for 5 seconds or more when the power is on.

② Manually adjust the angle of view and focus coarsely by adjusting the zoom and focus of the lens to center a subject in the screen, and then press the auto back focus button on the side of the camera.

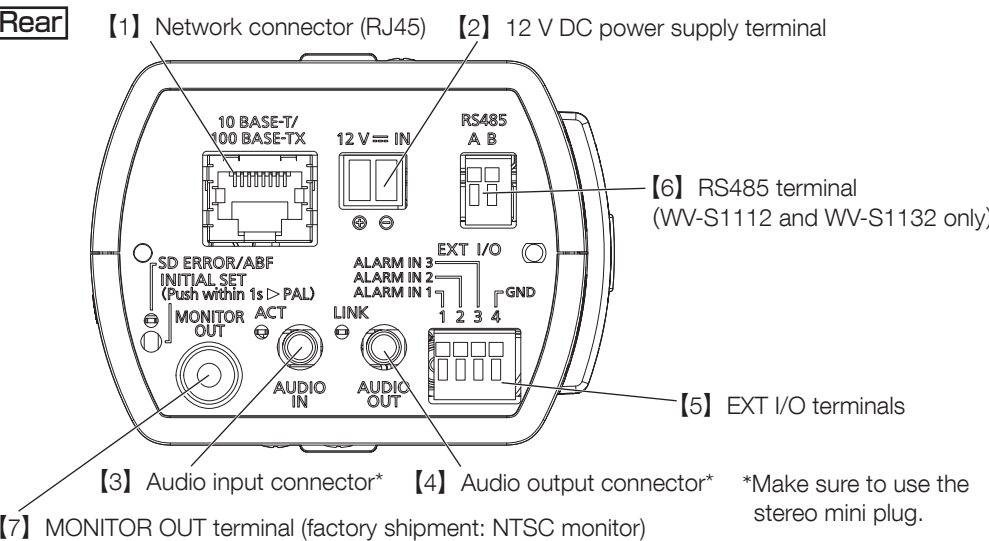


Note:

- How to take a wide depth of field:
 - When focus is desired on entire near or distant subjects, select indoor scene mode, or adjust the focus to the midrange position using manual focus adjustment.
- The most common use of a varifocal lens and a zoom lens:
 - Note that the adjustment method is different depending on the type. For further information, refer to the operating instructions for the lens to be used.
- Depending on the lens to be used, if the zoom ring is fully rotated in the "W" direction, the periphery may become dark. In such a case, rotate the zoom ring in the "T" direction for readjustment.
- When shooting the following subjects, it may have difficulty adjusting the back focus position automatically. In this case, adjust the back focus position manually from the setup menu.
 - Refer to the Operating Instructions (included in the CD-ROM) for how to perform the auto back focus function from the setup menu.
 - Subj. moves frequently
 - Subj. with large illuminance change
 - Subj. with low illuminance
 - Subj. through a window
 - Subj. with less contrast such as white wall
 - Subj. with heavy flicker

Step4 Making connections

*Refer to the Important Information on the provided CD-ROM for details about each cable.



IMPORTANT:

- Turn off each system's power supply (PoE hub or device to supply power to the camera) before making a connection.
- The 12 V DC power supply shall be insulated from the commercial AC power..

- [1] **Connect an Ethernet cable (category 5e or better, straight) to the network connector.**

- [2] **When connecting an AC adaptor or an external power supply, use the power cable plug (accessory) to connect it to the camera.**

Caution:

- A READILY ACCESSIBLE DISCONNECT DEVICE SHALL BE INCORPORATED TO THE EQUIPMENT POWERED BY 12 V DC POWER SUPPLY.
- ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY (UL 1310/CSA 223) or LIMITED POWER SOURCE (IEC/EN/UL/CSA 60950-1).

- ① Loosen the screw of the power cable plug (accessory), strip 3 mm to 7 mm {1/8 inches to 9/32 inches} from the end of the wire, twist the stripped part of the wire sufficiently to avoid short circuit, and then connect the output cable to the power cable plug (accessory). When connecting an external power supply to the camera, use the 16 AWG to 24 AWG single-wired or stranded wired cables.
- ② Tighten the screw of the power cable plug (accessory). (Recommended tightening torque: 0.34 N·m {0.25 lbf·ft})
- ③ Connect the power cable plug to the camera.

- [3] **If needed, connect a microphone or the line out of an external device to the audio input connector.**

- [4] **If needed, connect a powered speaker to the audio output connector.**

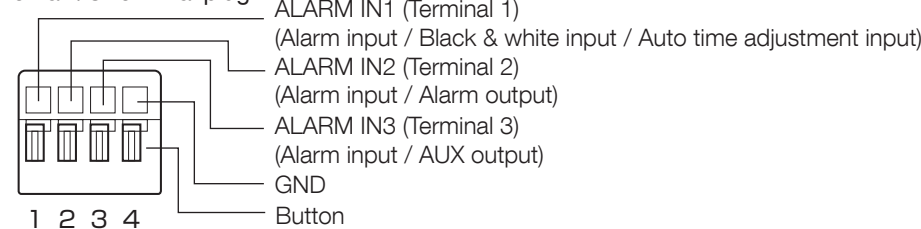
- [5] **If needed, connect the alarm input/output cables to the EXT I/O terminals.**

Connect the cables of external devices to the EXT I/O terminal plug.

① When connecting an external device, remove 8 mm - 9 mm {5/16 inches - 11/32 inches} of the outer jacket of the cable and twist the cable core to prevent the short circuit first. Specification of cable (wire): 20 AWG - 26 AWG, Single core, twisted

② Push down the button of the desired terminal on the external I/O terminal plug with a ballpoint pen, and release the button when the cable of the external device is fully inserted into the terminal hole.

External I/O terminal plug



Note:

- Do not connect 2 wires or more directly to a terminal. When it is necessary to connect 2 or more wires, use a splitter.
- Check whether the stripped part of the wire is not exposed and is securely connected.
- The default of EXT I/O terminals is "Off". Refer to the Operating Instructions on the provided CD-ROM for further information about the EXT I/O terminal settings.

- [6] **If needed, connect an RS485 communication cable.(WV-S1112 and WV-S1132 only)**

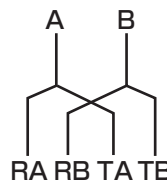
Connect a twisted-pair cable (locally procured) to the RS485 terminal.

① When connecting an external device, remove 9 mm - 10 mm {11/32 inches - 13/32 inches} of the outer jacket of the cable and twist the cable core to prevent the short circuit first. Specification of cable (wire): 22 AWG - 28 AWG, Single core, twisted

② Push down the button of the desired terminal on the RS485 terminal plug with a ballpoint pen, and release the button when the cable of the external device is fully inserted into the terminal hole.

Note:

- There is a correlation between communication speed and transmission distance. Confirm usage conditions. (Ex. 1200 m {3937 feet} when 90 kbps or lower)
- When using twisted-pair cable over long distances, use thicker cable (22 AWG to 24 AWG).
- This product does not contain a termination resistor. If needed, use an external termination resistor.
- The RS485 port of this unit is intended for use with 2-line communications. When connecting 4-line communication devices, make connections as shown in the right illustration.



- [7] **Connect the adjustment monitor to the MONITOR OUT terminal using a pin-plug cable.**

- [8] **Turn on the camera.**

Step6 Configure the network settings

Download and start [IP Setting Software] <Control No.: C0123> or [i-PRO Configuration Tool (ICT)] <Control No.: C0133> on our technical information support site (https://i-pro.com/global/en/surveillance/training_support/support/technical_information), and connect to the network.