

Parts and functions

<Whole unit>

<Terminals>

■Indicators

Note:

- Lighting/blinking LED can be turned off with the software settings at any time. (The initial state is lighting or blinking.) Refer to the Operating instructions, and set the LED to be solid off if necessary.

| LINK indicator | Lights orange |
|--|---------------|
| When the camera is able to communicate with the connected device | Lights orange |

| ACT indicator | Blinks green (accessing) |
|--|--------------------------|
| When data is being sent via the network camera | Blinks green (accessing) |

■Buttons

•INITIAL SET button (Initializing)
Follow the steps below to initialize the network camera. Retry if the camera does not start up normally.

| | | | | | | | | | | |
|----------------------------------|---|---|---|------------|---|---------------------------------|---|------------------|---|--|
| Turn off the power of the camera | ⇒ | Turn on the power of the camera while pressing the INITIAL SET button | ⇒ | 15 seconds | ⇒ | Make sure to release the button | ⇒ | around 2 minutes | ⇒ | The camera will start up and the settings including the network settings will be initialized |
|----------------------------------|---|---|---|------------|---|---------------------------------|---|------------------|---|--|

*Do not turn off the power of the camera during the process of initialization. Otherwise, it may fail to initialize and may cause malfunction.

•TELE button
Click the TELE button to adjust the zoom ratio to the "Tele" side.

•WIDE button
Click the WIDE button to adjust the zoom ratio to the "Wide" side.

<Camera body>

Direction marker for installation (TOP ↑)

- Points up when installing to a wall.

Direction marker for installation (FRONT ↓)

- FRONT should face the camera front (the side of the i-PRO logo).

Symbol of the microSD

- Screen display down direction

Step1 Preparations

[1] Loosen the enclosure fixing screws (2 places), and remove the enclosure from the camera.

[2] If necessary, insert a microSD memory card by referring to "Insert / remove a microSD memory card".

Using the side cable access hole

When installing the camera on the ceiling or wall with cables exposed, cut out a portion of the enclosure to open a cable access hole.

IMPORTANT:

- To prevent injuries and protect the cables, finish the side cable access hole with a file to avoid sharp edges.

Enclosure fixing screw (2 places)

Step2 Processing the installation surface

Drill a hole in the installation surface. (2 screw holes / 1 cable access hole).

Note:

- When installing on a wall, make a hole so as to face the "↑T (TOP)" mark of the template to the upper side.
- When installing on a ceiling, make a hole so as to face the "↓F (FRONT)" mark of the template to the front side of the camera (in the direction of i-PRO logo).
- When running the cable using the side cable access hole of the camera, it is unnecessary to make a cable access hole on the installation surface.

83.5 mm (3-9/32 inches)

20 mm (13/16 inches)

46 mm (1-13/16 inches)

Direction marker for installation (TOP ↑)

Camera fixation position

Direction marker for installation (FRONT ↓)

Step3 Making connections

IMPORTANT:

- Devices to which power can be supplied to this product are PoE hub and PoE power supplying equipment.
- Turn off each system's power supply before making a connection.

Less than 100 m (328 feet)

Ethernet cable (category 5e or better, straight, 4 pairs (8 pins))

Note:

- Since the connector storage section does not have a sufficient space, use an Ethernet cable that do not exceed the sizes described in the illustrations.

Straight section 30 mm (1-3/16 inches)

40 mm (1-9/16 inches)

9 mm (11/32 inches)

13 mm (1/2 inches)

Step4 Mount the camera

Secure the camera with fixing screws (2 pcs.) (M4: locally procured).

Minimum pull-out strength: 196 N (44 lbf)

Mount the camera to a junction box

Camera fixation position

Fixing screw (M4: locally procured)

Step5 Adjustment

[1] Turn on the camera.

[2] Download and launch the IP Setting Software and connect to the network by following information described on our support website <Control No.: 0123>.

[3] Adjust the camera direction.

- Loosen TILT fixing screw.
- Adjust the horizontal (PAN) angle, vertical (TILT) angle, and azimuth (YAW) angle while watching the screen of the PC on the network.
 - Horizontal (PAN) angle : ±180°
 - Vertical (TILT) angle : -30° to +85°
 - Azimuth (YAW) angle : ±100°

Note:

- When the camera is installed on a wall, the gradient viewed from the camera is backwards. Images displayed from the camera can be reversed by setting "Image rotation" to "180° (Upside-down)" in the setup menu. For information about configuring "Image rotation" in the setup menu, refer to the Operating Instructions.
- When using the camera at a vertical position angle of 75° or more (a position where the camera lens is nearly horizontal), part of the image may appear to be overlapped due to influence from the dome cover. To prevent overlapping, decrease the vertical position angle or adjust the zoom ratio.
- When adjusting the camera, do not touch IR LED sheets with your fingers.

TILT fixing screw

Horizontal (PAN) angle

Azimuth (YAW) adjustment ring

Vertical (TILT) angle

IR LED sheets

PAN table

Azimuth (YAW) angle

WIDE button

TELE button

[4] Adjust the zoom ratio of the camera.

Adjust the zoom ratio using the TELE button and the WIDE button while watching the screen.

Note:

- After approx. 3 seconds from releasing the TELE button or the WIDE button, the auto focus function will automatically be executed. Do not touch the camera during execution of the auto focus function.
- Attaching the enclosure may cause slight defocusing. In this case, execute the auto focus function from the setup menu after attaching the enclosure and removing the protection film.
- When the resolution is set to higher than 640x360, image quality may deteriorate depending on the zoom ratio. Refer to our support website <Control No.: C0124> for further information.

[5] Attach the enclosure and secure it by tightening the enclosure fixing screws.

Attach the enclosure by aligning the i-PRO logo to the direction marker for installation (FRONT ↓) on the camera. Recommended tightening torque: 0.59 N·m (0.44 lbf-ft)

Note:

- When installing the enclosure, align the enclosure fixing screw position in advance and install the enclosure straight onto the installation surface so that the direction of the camera does not change. If the direction of the camera is changed, insert the PAN table fixing screw (accessory) into the PAN table fixing screw hole (Refer to "Parts and functions") and then fix the direction of the camera by tightening the PAN table fixing screw. Recommended tightening torque: 0.59 N·m (0.44 lbf-ft)

Direction marker for installation (FRONT ↓)

Enclosure fixing screw (2 places)

Dome cover

Enclosure

[6] After complete installation, remove the protection film from the dome cover.

Insert / remove a microSD memory card

■ Insert a microSD memory card

- Remove the enclosure from the camera.
- Insert the microSD memory card into the end of the microSD slot and confirm that a clicking sound is made.

Note:

- Back end of the microSD memory card does not protrude over the surface of the microSD slot (the same surface as the symbol of the microSD).

microSD memory card

Back end of the microSD memory card

Symbol of the microSD

microSD slot

■ Remove a microSD memory card

When removing a microSD memory card, reverse the procedure.

- Remove the enclosure from the camera.
- Remove the microSD memory card by pushing it down until a click sound is heard while holding the card with a finger to prevent it from popping out.
- Attach the enclosure to the camera again.

IMPORTANT:

- When removing a microSD memory card, make sure to set "SD memory card" to "Not use" on the [SD memory card] tab of the setup menu before removing the microSD memory card. After removing the memory card, set back the "SD memory card" to "Use". For information about the setup menu, refer to the Operating Instructions.

Note:

- When using a microSD memory card, format it using this product. Refer to the Operating Instructions for how to format a microSD memory card.
- Use the compatible microSD memory cards. Refer to our support website <Control No.: C0107> for latest information about the compatible microSD memory cards.