

Installation

Before Installation

After deciding the direction in which the camera will shoot, make the required hole (ø 58 to 72 mm (2 3/8 to 2 7/8 inches)) for the connecting cables using the supplied template. Then decide the four mounting hole positions to install the bracket. (D)

Installing on the wall

When you install the camera on a wall lengthwise, position the side conduit hole directly below to prevent moisture from getting inside the casing. (E)

Mounting screws

The supplied bracket is provided with eight ø 4.5 mm (3/16 inch) mounting holes. Install the bracket on a ceiling or wall with screws through these four of the eight holes. The required mounting screws differ depending on the installation location and its material. (Mounting screws are not supplied.)

Steel wall or ceiling: Use M4 bolts and nuts.
Wood wall or ceiling: Use M4 tapping screws. The panel thickness must be 15 mm (3/8 inch) or more.
Concrete wall: Use appropriate anchors, bolts and plugs for concrete walls.
Junction box: Use screws to match the holes on the junction box.

WARNING

The required mounting screws differ depending on the installation location and its material. If you do not secure the camera with the appropriate mounting screws, the camera may fall off.

Installing the Camera

- Remove the dome casing. Loosen the three dome casing screws with the supplied wrench, and remove the dome casing.
- Remove the slit cover. Remove it expanding the slit cover. (F)
- Check the conduit of the cables. The cables are set up at the factory to pass through the bottom conduit hole. If you want to use the side conduit hole, perform the following steps:
 - Remove the conduit hole cover.
 - Disconnect the cables from the connectors, and pull them out from the bottom conduit hole.
 - Insert the cables through the side conduit hole, and connect the cables to their respective connectors.
 - Attach the conduit hole cover that was removed from the side conduit hole to the bottom conduit hole.

Notes

- If the bottom conduit hole is dirty, the conduit hole cover cannot be fixed firmly. In this case, moisture may leak into the casing and this may cause a malfunction. Wipe off the dust with a soft cloth, and fix the conduit hole cover firmly.
- Cover the joint part of the pipe/cover with silicon sealant, etc. to prevent moisture from getting inside the casing.
- Use a pipe/plug with a thread length of 12 mm (1/2 inch) or less so that it does not damage the camera. (G)

4 Connect the cables.

Feed the network cable through the conduit hole and connect it to the LAN port of the camera unit. When you use the supplied audio cable and/or I/O cable, feed the cable through the conduit hole and connect it to the appropriate connector. Connect the audio cable to the MIC/SP connector, and the I/O cable to the EXT CTRL connector. Then secure the cables with the cable clamps. For the wiring, see Fig. L.

5 Install the supplied bracket on the ceiling or wall. (H)

Refer to "Mounting screws" for screws to be used.

6 When installing on a ceiling or wall, fix the supplied wire rope to the camera and the ceiling or wall. (I)

There are two screw holes for wire rope on the bottom of the camera. Fix the wire rope with the supplied shoulder screw as required.

7 Attach the camera unit to the bracket with the supplied camera unit mounting screws. (J)

Turn the camera unit to click and fix one of the projections on the bottom of the camera to the positioning hole of the bracket. There are four projections with an angle of 90 degrees, so you can select one of four directions.

WARNING

- If you want to install the camera at a height such as on a ceiling, entrust the installation to an experienced contractor or installer.
- If you install the camera at a height, ensure that the installation location and its material are strong enough to withstand a weight of 20 kg (44 lb 1 oz) or more, and then install the camera securely. If they are not strong enough, the camera may fall and cause serious injury.
- To prevent the camera from falling, be sure to attach the supplied wire rope.
- If you install the camera at a height, check periodically, at least once a year, to ensure that the connection has not loosened. If conditions warrant, perform this periodic check more frequently.

Note

If you cannot use screws on a ceiling or wall, or if you want to hide the camera to be less conspicuous, use the YT-ICB45 in-ceiling bracket (optional) with which you can mount the camera on the ceiling.

Adjusting the Camera Direction and Coverage

- Loosen the camera head fixing screw.
- Adjust the camera to turn the lens in the desired direction.
- Tighten the camera head fixing screw to fix the camera.
- Loosen the lens ring fixing screw.
- Turn the zoom ring to adjust the angle of view.
- Turn the focus ring to adjust the focus.
- Tighten the lens ring fixing screw to fix the zoom and the focus.
- Repeat steps 1 to 7 until the coverage and the focus are determined.

Notes

- When you adjust the camera head angle without loosening camera head fixing screw, an internal metallic part may be damaged.
- If the camera head is too heavy to be adjusted, loosen the camera head fixing screw until it moves freely.
- When the lens is not put in the slit of the camera head holder, the moving range of the camera head is limited.
- Do not turn the lens more than 360 degrees. As this may damage the wiring inside.
- There are three screw holes for fixing the lens ring at 120 degree intervals. If the lens ring fixing screw poses a problem for adjusting the camera direction and coverage due to the direction of the camera head, detach the screw and reattach it to another screw hole, then adjust the camera direction and coverage again.
- When adjusting the angle, be sure that the TOP mark on the camera head section faces the ceiling. If the camera is installed with the TOP mark facing the floor, the image appears upside down.

Attaching the Dome Casing

- Attach the slit cover.
 - The proper position of the slit cover is slightly apart from the camera mount. Do not push in by force.
 - If you cannot attach the slit cover because the barrier of the lens ring fixing screw prevents it, attach the lens ring fixing screw to another screw hole. There are three screw holes for the lens ring fixing screw on the concentric circle.
- Fix the dome casing and the camera unit. Align the three screw holes on the dome casing with those on the camera unit, and tighten the screws with the supplied wrench to secure the dome casing and unit casing.

Connection

Connecting to the network

Connect the LAN port of the camera unit to a router or hub in the network using the network cable (straight, not supplied). Arrange wiring of the network cable and secure it with the cable clamps, as shown in the figure.

To connect to a computer

Connect the LAN port of the camera unit to the network connector of a computer using the network cable (cross, not supplied).

Connecting the power source

There are three ways to supply the power source to this product, as follows.

- 12 V DC
- 24 V AC
- Power supply equipment pursuant to IEEE802.3af (PoE* system) *PoE means Power over Ethernet.

Connecting to 12 V DC or 24 V AC source

Connect the 24 V AC/12 V DC cable to a 12 V DC or 24 V AC source.

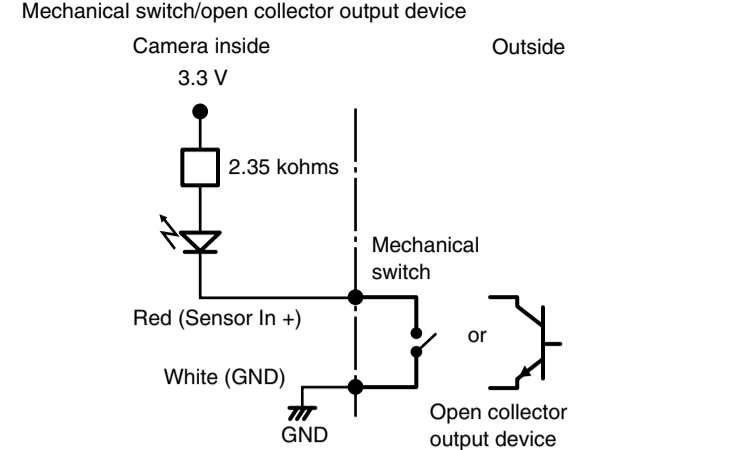
- Use a 12 V DC or 24 V AC source isolated from 100 to 240 V AC. Each usable voltage ranges are as follows.
 - 12 V DC: 10.8 V to 13.2 V
 - 24 V AC: 21.6 V to 26.4 V
- Use UL cable (VW-1 style 1007) for these connections.

Connecting to the power supply equipment pursuant to IEEE802.3af

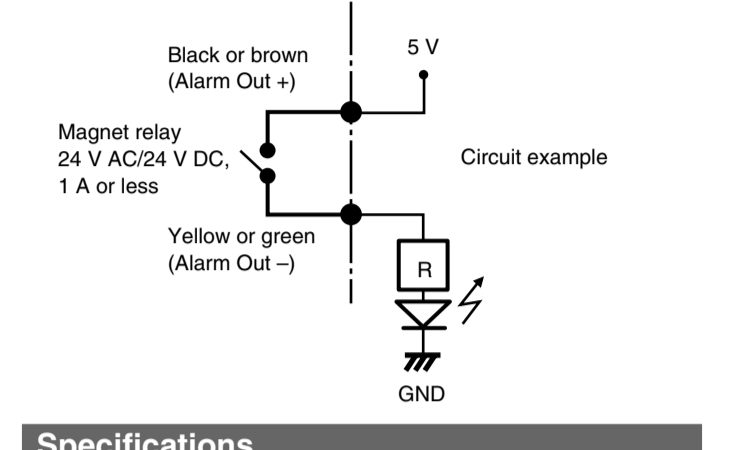
The power supply equipment pursuant to IEEE802.3af supplies the power through a LAN port. For details, refer to the Instruction Manual of the equipment.

Connecting the I/O cable

Connect the wires of the I/O cable as follows:



Wiring diagram for alarm output



Specifications

Network	
Protocol	TCP/IP, ARP, ICMP, HTTP, FTP (server/client), SMTP (client), DHCP (client), DNS (client), NTP (client), SNMP (MIB-2), RTP/RTCP
Compression	
Video compression format	JPEG/MPEG4/H.264
Audio compression format	G.711/G.726 (40,32,24,16 kbps)
Image size	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA)
Maximum frame rate	SNC-DF85N/DF80N: 30 fps SNC-DF85P/DF80P: 25 fps
Web browser	Internet Explorer Ver. 6.0 or higher Available OS: SNC-DF85N/DF85P Microsoft Windows XP, Windows Vista SNC-DF80N/DF80P Microsoft Windows 2000, Windows XP, Windows Vista
Computer environments	CPU: Pentium 4, 1.5 GHz or higher (Pentium 4, 2.4 GHz or higher recommended) RAM: 256 MB or more Display size: 1024 x 768 20 users
Maximum user access	20 users
Network security	Password (basic authentication), IP filtering
Homepage customization	Starting from a homepage in the built-in flash memory or a CF memory card possible.
Other functions	Detection, image trimming, built-in clock, etc.
Camera	
Signal system	SNC-DF85N/DF80N: NTSC color system SNC-DF85P/DF80P: PAL color system
Image device	SNC-DF85N/DF85P: 1/3 type interline transfer CCD SNC-DF80N/DF80P: 1/3 type interline transfer (SuperExwave™) CCD Total picture elements: SNC-DF85N/DF80N: Approx. 410,000 SNC-DF-85P/DF80P: Approx. 470,000 Effective picture elements: SNC-DF85N/DF80N: Approx. 380,000 SNC-DF85P/DF80P: Approx. 440,000
Synchronization	Internal synchronization
Horizontal resolution	SNC-DF85N/DF80P: 480 TV line (analog video) SNC-DF80N/DF80P: 540 TV line (analog video)
Video S/N	50 dB (AGC OFF)
Minimum illumination	SNC-DF85N/DF85P: Color: 0.7 lx (AGC ON, F 1.3, 50 IRE) Black & White: 0.15 lx (AGC ON, F 1.3, 50 IRE) SNC-DF80N/DF80P: Color: 0.6 lx (AGC ON, F 1.3, 50 IRE) Black & White: 0.06 lx (AGC ON, F 1.3, 50 IRE)
AGC	ON/OFF
Shutter speed	Manual SNC-DF85N/DF80N: 1/60-1/10000 sec. SNC-DF85P/DF80P: 1/50-1/10000 sec.
White balance	ATW ATW-PRO Dual WB (SNC-DF85N/DF85P)
Lens (standard equipment)	
Focal length	2.8 to 10 mm
Maximum relative aperture	F1.3
View angle	Vertical 73.9° to 20.8° Horizontal 100.8° to 27.7°
Minimum object distance	300 mm
Interface	
LAN port	10BASE-T/100BASE-TX, auto negotiation (RJ-45)
I/O port	Sensor input : x 1, make contact, break contact Alarm output : x 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera)
Video output	VIDEO OUT: BNC, 1.0 Vp-p, 75 ohms, unbalanced, sync negative
CF card slot	Type I
Microphone input	Minijack (monaural) Plug-in-power supported (rated voltage: 2.5 V DC)
Line output	Recommended load impedance 2.2 kohms Minijack (monaural), Maximum output level: 1 Vrms
Others	
Power supply	12 V DC ± 10% 24 V AC ± 10%, 50/60 Hz PoE
Power consumption	10 W max. 22 W max. with the optional YT-HU75 Heater Unit
Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity	20 to 80 %
Storage humidity	20 to 95 %
Dimensions (diameter/height) (M)	177.5 x 141.5 mm (7 x 5 5/8 inches) not including the projecting parts
Mass	Approx. 1.9 kg (4 lb 3 oz), not including cables
Supplied accessories	CD-ROM (User's Guide and supplied programs) (1), Bracket (1), Template (1), Wire rope (1), Camera unit mounting screws (4), Shoulder screw M4 (1), Wrench (1), Audio cable (1), I/O cable (1), Installation Manual (1)
Optional accessories	
In-ceiling bracket YT-ICB45	
Heater Unit YT-HU75	
Design and specifications are subject to change without notice.	
Regular parts replacement	
Some of the parts that make up this product (electrolytic condenser, for example) need replacing regularly depending on their life expectancies. The lives of parts differ according to the environment or condition in which this product is used and the length of time it is used, so we recommend regular checks. Consult the dealer from whom you bought it for details.	

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>