

Installation

Caution
Request for an expert to install it to the ceiling.

Attaching the fall-prevention wire rope

When you install the camera on a ceiling or a high position, be sure to attach the supplied fall-prevention wire rope to prevent the camera from falling. Attach the fall-prevention wire rope to the screw hole on the rear of the camera, as in the illustration.

Note
Take care not to short-circuit the power terminal or the cable with the wire rope when you attach it.

- Secure the wire rope to the junction box on the ceiling. Use a screw to match the screw hole of your junction box (not supplied).
- Secure the wire rope to the wire rope mounting screw hole on the rear of the camera using the supplied shoulder screw.

Caution
Use the supplied screws for installation. If not, the wire rope may not function properly.

Focus Assist Function

- Select the camera operation mode to match the video monitor in use with the VIDEO OUT selector.
- Set the iris to open with the IRIS selector. The IRIS OPEN indicator and the focus assist indicator appear on the monitor screen. The length of bar **a** varies according to the degree of focus adjustment. Bar **b** indicates the peak hold value.
- Turn the focus ring until bar **a** reaches the peak hold value **b**.

Release the lens connector

- Remove the screw.
- Pull out the lens connector cover as shown to release the lens connector and then tighten the screw.

Connection

Connecting to the Network

Connect the LAN cable of the camera to a router or hub in the network using the network cable (straight, not supplied).

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

Connecting the Power Source

There are three ways to supply power to this camera, as follows.

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

*PoE means Power over Ethernet.

Note
If the power is supplied from the power input cable and LAN cable at the same time, the power from the LAN cable has priority over the other.

Connecting to 12 V DC or 24 V AC source

Connect the power input cable of the camera 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. The acceptable voltage ranges for each 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

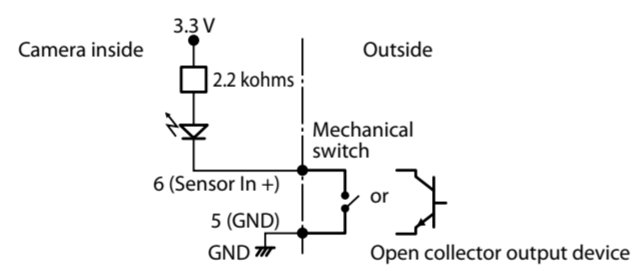
The power supply equipment pursuant to IEEE802.3af supplies the power through the LAN cable. For details, refer to the Instruction Manual of the equipment.

Connecting the I/O Cable

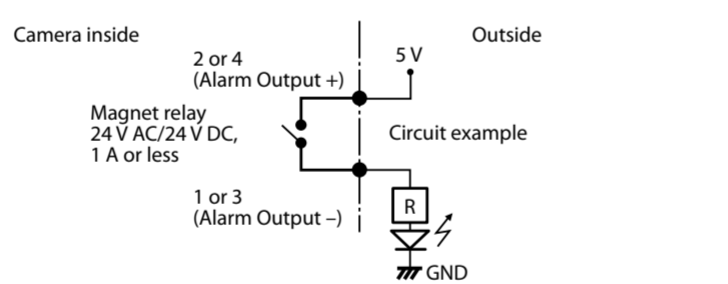
Connect the wires of the I/O cable as follows:

Wiring diagram for sensor input

Mechanical switch/open collector output device



Wiring diagram for alarm output



Specifications

Compression	
Video compression format	JPEG/MPEG4
Audio compression format	G.711/G.726 (40, 32, 24, 16 kbps)
Maximum frame rate	30 fps
Camera SNC-CM120	
Signal system	NTSC color system/PAL color system (switchable)
Image device	1/3 type interline transfer (ExwavePRO) CCD Total picture elements: Approx. 1,320,000 Effective picture elements: Approx. 1,250,000
Synchronization	Internal synchronization
Horizontal resolution	600 TV lines (analog video)
Video S/N (AGC 0 dB)	50 dB or more
Minimum illumination (F1.3, 50 IRE)	0.6 lx (AGC 30 dB, normal readout), 0.1 lx (AGC 36 dB, Light funnel ON)
Camera SNC-CS20	
Signal system	NTSC color system/PAL color system (switchable)
Image device	1/4 type interline transfer (ExwavePRO) CCD Total picture elements: Approx. 350,000 Effective picture elements: Approx. 330,000
Synchronization	Internal synchronization
Horizontal resolution	400 TV lines (analog video)
Video S/N (AGC 0 dB)	50 dB or more
Minimum illumination (AGC 36 dB, F1.0, 50 IRE)	0.2 lx (AGC 36 dB, Light funnel ON)
Lens (standard equipment of SNC-CM120)	
Focal length	2.8 to 6 mm
Maximum relative aperture	F1.3
View angle	Vertical: 74.2° to 35.2° Horizontal: 101.2° to 47.0°
Minimum object distance	300 mm (11 7/16 inches)
Lens (standard equipment of SNC-CS20)	
Focal length	3 mm to 8 mm
Maximum relative aperture	F1.0
View angle	Vertical: 49.3° to 20.2° Horizontal: 66.6° to 27.0°
Minimum object distance	200mm (7 7/16 inches)
Interface	
LAN port	10BASE-T/100BASE-TX, auto negotiation (RJ-45)
I/O port	Sensor input : × 1, make contact, break contact Alarm output : × 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
Microphone input*	Minijack (monaural) Plug-in-power supported (rated voltage: 2.5 V DC)
Line input*	Minijack (monaural)
*The microphone input and the line input are switchable with a selector.	
Line output	Minijack (monaural), Maximum output level: 1 Vrms
Others	
Power supply	12 V DC ± 10% 24 V AC ± 10%, 50/60 Hz IEEE802.3af compliant (PoE system)
Power consumption	SNC-CM120: 9W max. SNC-CS20: 7.5W max.
Operating temperature	-10 °C to +50 °C (22 °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 (w/h/d)	82.5 × 63 × 135 mm (3 1/4 × 2 1/2 × 5 3/8 inches), not including the projecting parts
Mass	Approx. 610 g (1 lb 5 1/2 oz) (SNC-CM120), with lens not including the accessories Approx. 600 g (1 lb 5 oz) (SNC-CS20), with lens not including the accessories
Supplied accessories	CD-ROM (Users Guides, Easy Setup Guides and supplied programs) (1) Fall-prevention wire rope (1) Shoulder screw M4 (1) Installation Manual (this document) (1) B&P Warranty Booklet (1) Warranty Sheet (1)
Design and specifications are subject to change without notice.	