4-696-255-**11**(1)

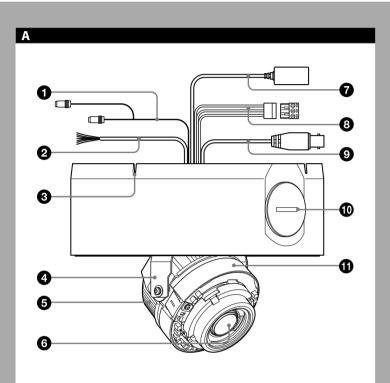
Network Camera

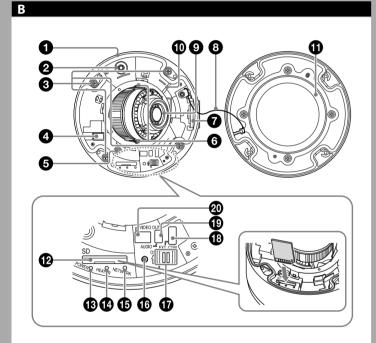
Installation Manual

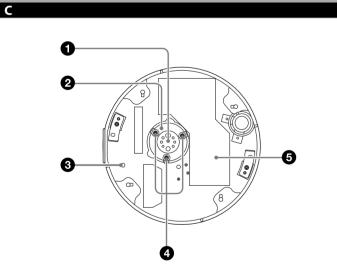
Before operating the unit, please read this manual thoroughly and retain it for future reference.

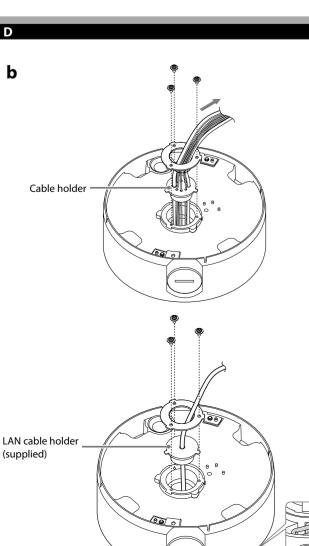
SNC-VM642R/EM642R

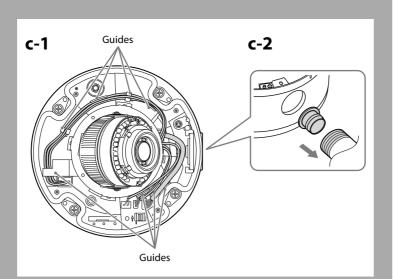
© 2017 Sony Corporation

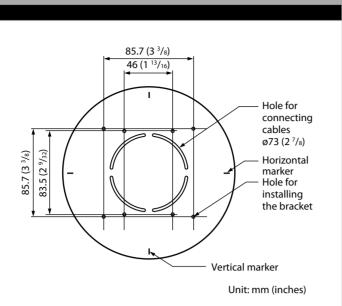


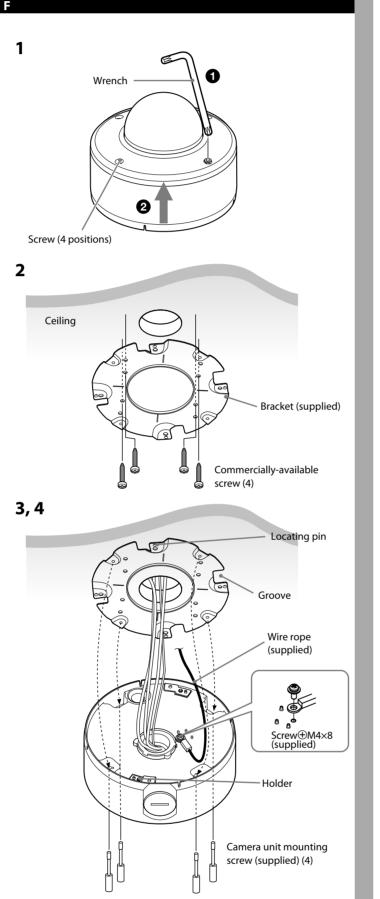












About the Manuals

Safety Regulations (included)

The Safety Regulations describes notes for the secure usage of camera. Be sure to read it.

Installation Manual (this document)

Describes the names and functions of parts and controls of the Network Camera, gives connection examples and explains how to set up the camera. Be sure to read the Installation Manual before operating.

The illustration of SNC-VM642R is used for example purpose. An I/O cable or power input cable is not supplied for SNC-EM642R.

Electronic Instruction Manual (Web) How to control the camera via a web browser

How to setup the camera

Operate the camera referring to the guide above after having installed and connected the camera properly based on the Installation Manual.

Assigning the IP address

1 Download the installer for "SNC toolbox" to a folder from the download site.

2 Install the SNC toolbox.

Unzip the ZIP file of the downloaded installer. Double-click "SncToolbox_Setup.exe." For details on installing and use refer to the Application Guide.

3 Assign an IP address.

Assign an IP address using the installed SNC toolbox. For details, see "Using SNC toolbox" - "Assign an IP address" in the Application Guide.

SNC toolbox stands for Sony Network Camera toolbox.

Location and Function of Part

The figure shows the camera without the dome casing.

LAN port

Side

- and the shorter cable (MIC) is used for the microphone/line input connector. SP terminal (minijack, monaural)
- Connect a commercially available speaker system with a built-in amplifier.
- MIC terminal (minijack, monaural) Connect a commercially available microphone. This jack supports pluginpower microphones (rated voltage: 2.5 V DC).

The connector with the longer cable (SP) is used for the line output connector,

2 I/O (Input/Output) cable (SNC-VM642R only)

This cable is provided with two sensor inputs and two alarm outputs. The wires of the cable control the following signals.

Color of wire	Name
Red	Sensor In 1+
White	Sensor In 2+
Black	Sensor In – (GND)
Yellow	Alarm Out 1+
Brown	Alarm Out 1–
Green	Alarm Out 2+
Blue	Alarm Out 2–

Wiring slit

For details, see "Installing the Camera."

Base (PAN)

6 Lens

1 LAN cable (RJ-45) Connect a commercially available network cable (UTP, category 5) to communicate with a network or PoE/PoE+* system For details on connection, see the Instruction Manual of the power supply equipment.

Power input cable (SNC-VM642R only)

Connect this cable to a 24 V AC or 12 V DC power supply system. You can screw an extension cable in the connector tip attached at the end of the cable. Connect GND to the FG terminal (center of 3-pin connector). See

(*PoE/PoE+ stands for Power over Ethernet. It is pursuant to IEEE802.3at.)

BNC cable

Outputs a composite video signal.

Side conduit hole (3/4 inches NPT or M27 (2.0 mm (3/32 inches)-pitched, hole diameter ø27 mm (1 1/8 inches)))

Connect a pipe to this hole. There is a conduit hole on the side of the camera unit. The conduit hole cover is installed in the side conduit hole at the factory. Remove the cover as needed and connect the pipe to the hole. An M25 cable gland can be connected to the hole by removing the nut inside the camera unit.

Note

Take care not to trap the cables between the camera and the ceiling or the wall. If the cable is trapped, it may cause a fire or electric shock due to breaking.

1 Camera head

Inside

The cables below are connected when the unit comes from the factory. SNC-VM642R: 40, 100, 110, 110, 120 SNC-EM642R: 10, 19, 20

1 Camera unit

2 ZOOM/FOCUS switch

Use this switch to adjust lens' zoom and focus. Slide the switch lever to select the

[W] WIDE: Zoom out

[T] TELE: Zoom in [N] NEAR: Focus on a nearby subject

[F] FAR: Focus on a distant subject

Hold down the center of the ZOOM/FOCUS switch for a moment to focus automatically.

Camera unit mounting screws (four positions)

Make sure to tighten the screws securely when installing the camera.

4 AC / DC IN (power input) connector (SNC-VM642R only) Connect the power input cable.

6 MONITOR output jack Connect this jack to a video input connector of a video monitor. You can adjust

the camera or lens while looking at the image on the video monitor. After adjusting the camera or lens, disconnect the cable.

6 Camera block fixing screws (tilt) (two positions) Firstly, loosen the screws and point the camera block in the desired direction,

then tighten the screws to secure in place.

Nut (3/4 inches NPT or M27 (2.0 mm (3/32 inches)-pitched))

3 Safety cord

This cord prevents the dome casing from falling off the unit.

② △ **TOP** mark Indicates the image direction.

• LAN network port (RJ-45)

Connect the LAN cable (RJ-45). Dome casing

provided on the joint surface to the unit.

This slot is used for optional SD memory cards. Image data in the camera can be recorded to a memory card by inserting it into

Gently insert an SD card in (see illustration) until it clicks into place. This unit is only compatible with SD and SDHC memory cards.

Note

For inquiries regarding verified SD memory cards, contact your authorized Sony

POWER indicator (Green) When the power is supplied to the camera, the camera starts checking the

system. If the system is normal, this indicator lights up.

HEATER indicator (Green)

The indicator lights up in green when the built-in heater is working normally. NETWORK indicator (Green/Orange)

The indicator lights up or flashes when the camera is connected to the network. The indicator is off when the camera is not connected to the network.

To reset the camera to the factory default settings, hold down this switch with a point and supply the power to the camera.

1 Mode setting DIP switches

DIP switch function/settings

SNC-VM642R

	Switch No.					
	Switch No.	VIDEO	POWER			
	Up (ON)	PAL	PoE+, AC, DC			
	Down (OFF)	NTSC	PoE			
1 VIDEO (NTSC/PAL) switch (Initial setting: NTSC)						

Switches the video output.

After setting the switch, reboot the camera unit 2 POWER (PoE+, AC, DC/PoE) switch (Initial setting: PoE+, AC, DC)

Switch PoE+, AC, DC/PoE, depending on the power source you are using.

Note

When power is supplied by IEEE802.3af (PoE) equipment, if the switch is set to PoE+, the camera will not work properly.

When the power is supplied via power supply equipment that complies with IEEE802.3at (PoE+), an AC power adaptor, or a DC power adaptor, the heater will not work if the switch is set to PoE. Please note that the camera may not work in a cold environment.

SNC-EM642R

Switch No.	I				
	VIDEO	PoE PWR			
Up (ON)	PAL	PoE+ (at) -40°C to +50°C (-40°F to +122°F)			
Down (OFF)	NTSC	PoE (af) -30°C to +50°C (-22°F to +122°F)			
1 VIDEO (NTSC/PAL) switch (Initial setting: NTSC)					

Switches the video output.

After setting the switch, reboot the camera unit. 2 PoE PWR switch (Initial setting: PoE)

Switch between PoE+/PoE based on your PoE hub.

Note When power is supplied by IEEE802.3at (PoE+) equipment, if the switch is set to

Α

PoE, the range of activation and operating temperature is limited. When power is supplied by IEEE802.3af (PoE) equipment, if the switch is set to PoE+, the camera will not work properly. EXT CTRL (external control input/output) connector (SNC-VM642R)

only)

Connect the I/O (Input/Output) cable. AUDIO connector

Connect the audio cable

Sottom	

1 Cable holder

Fixes the cable holder. **3** GND

Packing for waterproofing the cables.

Ground the camera when you install it.

6 Rating label

4 Holder plate

Use the supplied Screws \oplus (M4 × 8)

4 Holder plate fixing screws (three positions)

Shows the name of this camera and its electric rating.

Preparations

Change connections and cable wiring

To change connections and cable wiring to suit your requirements, perform the When you route the cables from the side of the camera unit, see "Connecting to the side conduit hole".

a) If you use the camera with its factory setting The preparation is completed

b) If you use the LAN cable only

- 1 Loosen the four screws of the dome casing using the supplied wrench and remove the dome casing.
- **2** Loosen the three holder plate fixing screws on the bottom to remove the
- holder plate and cable holder **3** Disconnect all the cables from the connectors and remove them from the
- 4 Insert the LAN cable through the hole of the LAN cable holder (replace the
- cable holder with the LAN cable holder). 5 Insert the LAN cable through the bottom hole and adjust the length of the LAN cable from the hole to the LAN port.
- **6** Connect the LAN cable to the LAN port.
- plate fixing screws.

7 Attach the removed holder plate to the bottom hole with the three holder

c) For other cases

- 1 Loosen the four screws of the dome casing using the supplied wrench and remove the dome casing.
- **2** Loosen the three holder plate fixing screws to remove the holder plate and
- **3** Remove all the cables from the cable holder and disconnect unnecessary cables from the connectors.

В

- For case b), if you use your own LAN cable, keep its diameter ø5.0 mm (7/32
- inches) ø6.0 mm (1/4 inches). Otherwise, waterproof the bottom hole. • For case c), if you need to waterproof the camera, see "Important precautions"
- Do not pull on any cables forcefully, as a connection may become loose. • If the cables are removed from the guides, pass the cables through the guides
- and secure them again. • For case c), do not attach the cable plate and cable holder.

d) Connecting to the side conduit hole

All the cables are connected to the camera through the bottom hole at the factory. If you want to use the side conduit hole, perform the following steps: **1** Remove the conduit hole cover.

- **2** Loosen the three holder plate fixing screws on the bottom to remove the holder plate and cable holder. **3** Disconnect all the cables from the connectors, and pull them out through the
- 4 Insert the necessary cables through the pipe, then through the supplied
- cable holder (for conduit), and finally through the side conduit hole. (D-c-2) **5** Connect the cables to the connectors.

conduit hole cover to the bottom hole.

6 Secure the cables through the guides. (D-c-1)

7 Screw the removed conduit hole cover into the bottom hole.

- If the bottom 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.
- Cover the joint part of the pipe/cover with silicon sealant, etc. to prevent moisture from getting inside the casing. • The holder plate and the cable holder are not necessary when you attach the

Wipe off the dust with a soft cloth, and fix the conduit hole cover firmly.

• Be careful not to drop the conduit hole cover and nut (B-7) when installing or removing the camera. • For details on using the supplied cable holder (for Conduit), see "Important

precautions" (P2) Installation

- WARNING • If you attach the camera in the height such as the wall or the ceiling, etc.,
- 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 15 kg (33 lb 11 oz) or more, and then install the camera securely. If the ceiling is not strong enough, the camera may fall and cause serious injury.
- To prevent the camera from falling, make sure to attach the supplied wire rope.
- If you attach the camera to the ceiling, check periodically, at least once a year, to ensure that the connection has not loosened. If conditions warrant, make this periodic check more frequently.

Deciding the Installation Location of the Camera

hole (Ø73 mm (2 ⁷/₈ inches)) for the connecting cables using the supplied template. Then decide the four mounting hole positions to install the bracket. Mounting screws The supplied bracket is provided with eight Ø4.5 mm (3/16 inches) mounting

holes. Install the bracket on a ceiling or wall with screws through four mounting holes: two 83.5 mm (3 $^9/_{32}$ inches)-pitched holes or four 85.7 mm (3 $^3/_8$ inches)-

pitched holes. The required mounting screws differ depending on the installation

After deciding the direction in which the camera will shoot, make the required

location and its material. Use commercially-available screws. **Steel wall or ceiling:** Use M4 bolts and nuts.

Wooden wall or ceiling: Use M4 tapping screws. The panel thickness must be 15 mm (5/8 inches) or more. Concrete wall: Use anchors, bolts and plugs suitable for concrete walls.

Junction box: Use screws to match the holes on the junction box.

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.

F

Installing the Camera 1 Remove the dome casing.

1) Loosen the screws with the wrench (supplied).

(2) Pull up and remove the dome casing. When the screw catches on the screw hole, pull up the screw.

2 Install the supplied bracket on the ceiling or wall. Refer to "Mounting screws" for screws to be used.

3 Fix the supplied wire rope to the camera unit and the ceiling or wall. 1) Fix the wire rope with the supplied Screw \oplus M4 \times 8 to the hole for the

wire rope on the bottom of the camera unit. ② Fix the wire rope to the ceiling or wall.

wiring slits. (A-3) 4 Attach the camera unit to the bracket with the supplied four camera unit

When you install the camera on a wall, feed the cables through one of the

The screws have a fall-prevention mechanism. The screws inserted into the screw holes of the camera unit do not fall even if you turn the camera unit Insert the two holders to any two of the four grooves on the bracket.

the bracket accordingly. There are four projections with an angle of 90 degrees, so you can select one of four directions. Then tighten the four camera unit mounting screws to attach the camera unit to the bracket through the camera installation holes.

Turn the camera clockwise until the locating pins snap to the holes on the

holders. Then the four camera installation holes will align the projections on

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

YT-ICB45. Refer to the Installation Instructions of YT-ICB45 for detail information.

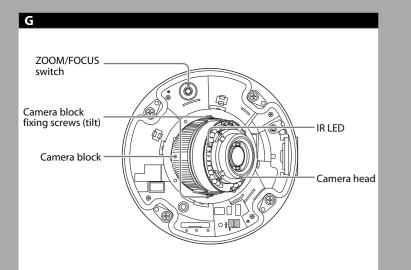
For this model, install the camera to the **D** position on the side brackets of

10 VIDEO OUT (video output) connector Connect the BNC cable.

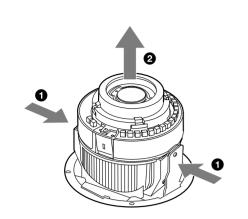
For details on each function and required settings, see the User's Guide. For wiring, see "Connecting the I/O Cable" (P2).

Feed the wire rope through this.

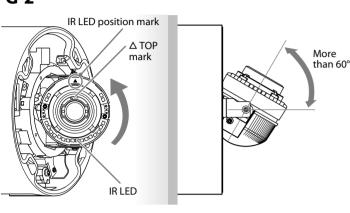
6 Camera block

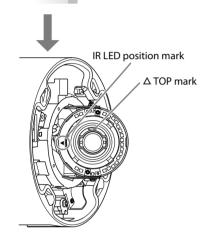




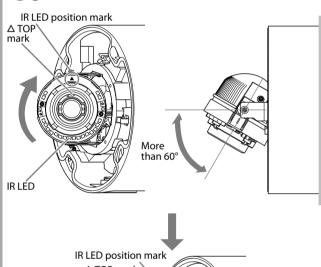


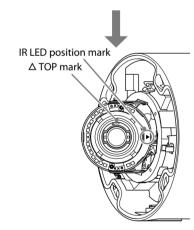




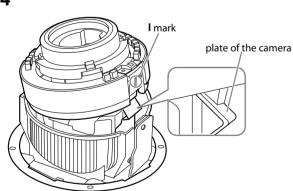


G-3

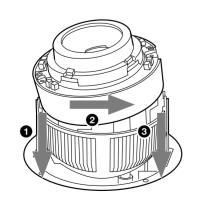




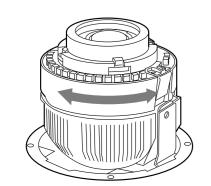
G-4

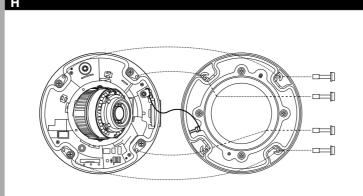


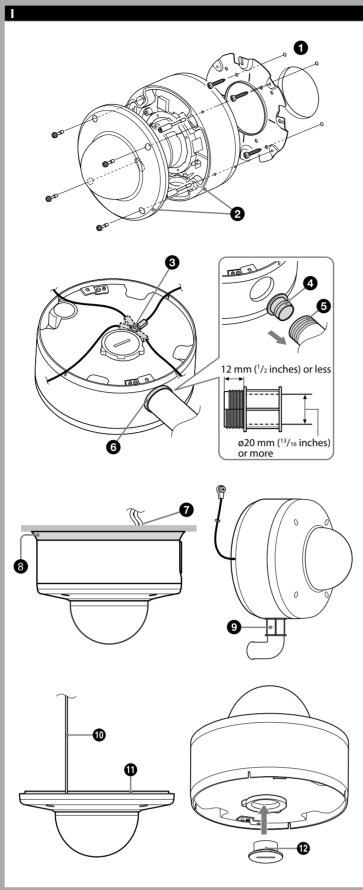
G-5

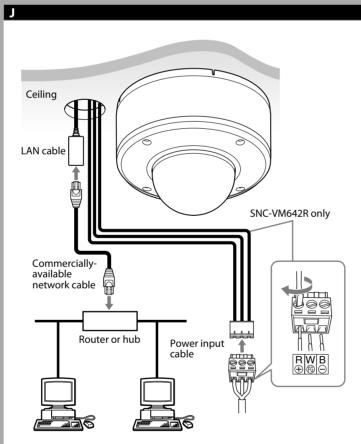


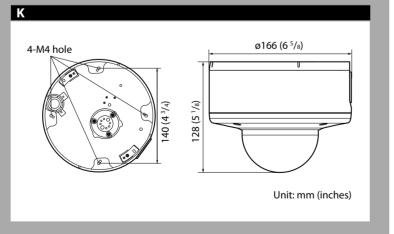
G-6











Adjusting the position of IR LED

You can adjust all tilt and rotation positions. There is no screw for rotation and Base(PAN) position.

Turn the camera head to rotate the camera.

- You can invert the image by using the setting menu.
- 1 Loosen the camera block fixing screws. Loosen the two camera block fixing screws (tilt)
- 2 Adjust the camera to turn the lens in the desired direction.
- 3 If the camera is installed on the wall and the tilt angle is more than 60°, adjust the position of the IR LED depending on the following installation conditions (2)-(1), (2)-(2)). If the IR LED is blocked when the lens is pointed downwards, rotate the camera head 180°, then select the invert the image function from the setting menu to adjust the top and bottom position of the image. For other cases, use the camera in the factory default setting
- 1) Holding both sides of Base(PAN) (arrow 1), hold the black metal part on the camera head and pull up (arrow ②) to remove the camera head. (G-1)

Note

If the harness is removed from the connector, connect it to the connector, again. 2 Turn the camera head clockwise or counterclockwise (90°) to adjust

the position of the IR LED. The adjustment position will depend on the following installation conditions.

(1) When the camera is pointing to your left (when you are facing in front of the camera) (G-2) Turn the camera head counterclockwise (90°) to move the I mark to "2" on

(2) When the camera is pointing to your right (when you are facing in front of the camera) (G-3) Turn the camera head clockwise (90°) to move the I mark to "3" on the plate of the camera.

Before inserting the camera head, check if the clutches (two positions) on the

(3) Tighten the two camera block fixing screws to fix the camera. Check if the camera head and camera block can be rotated smoothly clockwise and

③ Holding Base(PAN), insert the camera head to the camera block.

(1) Slide one side of the camera head downwards (arrow 1). (G-5) (2) Pushing the camera head to the opposite direction (arrow (2)), slide it

downwards (arrow ③) and insert into the camera block. (G-5)

The I mark is positioned to "1" on the plate of the camera at the factory.

4 Slide the ZOOM/FOCUS switch to W/T to adjust the angle of view.

5 Hold down ZOOM/FOCUS switch for a moment to adjust the focus

6 Repeat step 1 to 5 until the coverage and the focus are determined.

• If you do not follow the steps above to adjust the direction of the IR LED, IR

LED working distance or the image quality may be affected due to the IR LED

• When you insert the camera head to the camera block, be careful not to shut

the harness between the clutch on the camera head and the plate on the

• After you insert the camera head into the camera block, check if the clutches on the camera head (two positions) are inserted properly in the concave

When you adjust the camera head angle without loosening camera block

• If you cannot achieve satisfactory focus by holding down the ZOOM/FOCUS switch due to the shooting environment, slide the ZOOM/FOCUS switch level

Do not turn off this unit as soon as the focus is adjusted. Turn off after five

Poor focus may also be caused by the dome case assembly. Readjust the focus

• When the dome casing is attached it may be visible in the monitor depending

on zoom and rotation. Also, distortion might be observed in images shot

Do not turn the camera block fixing screws (tilt) more than 0.5 to 1 turn, as

Align four screw holes on the dome casing with those on the camera unit, and tighten four screws with the supplied wrench to secure the dome casing.

Make sure the safety cord does not get caught between the dome casing and

Despite the fact that this unit is rated IP66, this section includes important

ingress. Read the precautions below thoroughly before installing the unit.

Make sure that the cables and/or connectors of the unit that join to the

precautions to prevent any malfunction caused by condensation and/or water

ones of the installation surface are waterproofed, before you install the unit.

• Install the camera properly, using the supplied screws, while referring to the

• When feeding the wire rope through one of the wiring slits, fix the wire rope

with the supplied screw to the hole on the bottom of the unit according to

Use a pipe/joint of 3/4 inches-14 NPT or M27 (2.0 mm (3/32 inches)-pitched) with

least ø20 mm (13/16 inches). Any threaded parts should be waterproofed with a

- connectable to the side conduit hole with an opening of ø27 mm (1 1/8 inches)

a thread length of 12 mm (1/2 inches) or less, and an internal diameter is at

When connecting a cable gland to the side conduit hole, use the cable gland

 When connecting flanged pipe to the side conduit hole, seal all around the flange to prevent water entering. Otherwise water enters the unit through the

The bottom of this unit is designed to be waterproof. However, in case b) or

c) in the Preparations section, when connecting the cable to this unit, install

ceiling and the unit with a sealant material to prevent water ingress. (11-8)

Position the side conduit hole downward to prevent water ingress from cables.

• In an environment of high temperature and exposed to direct sunlight, install

a SNCA-WP602 Weather protector (not supplied). The Weather protector can

• Make sure the safety cord does not get caught between the dome casing and

waterproof rubber gasket is clean and fits in the groove of the joint surface

Before attaching the conduit hole cover to the bottom hole, make sure the

Connect the LAN port of the camera to the router or hub on the network using a

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

• Power supply equipment pursuant to IEEE802.3af/at (PoE/PoE+* system)

• Do not turn off the camera immediately after turning it on. Wait for at least five

• Do not turn off the camera immediately after turning it on. Wait for at least five

Connecting to 12 V DC or 24 V AC source (SNC-VM642R)

When power is supplied by IEEE802.3af (PoE) equipment, do not set the

Connect the power input cable of the camera to a 12 V DC or 24 V AC source.

voltage range is as follows. (Assured range of the voltage the camera is

Use a 12 V DC or 24 V AC source isolated from 100 to 240 V AC. Each usable

- In the USA, The product shall be powered by a UL Listed Class 2 Power

- In Canada, The product shall be powered by a CSA certified Class 2 Power

#16

#22

100 (328.1) 63 (206.7)

15 (49.2)

#18

9 (29.5)

#24

39 (128)

• Do not connect the power input cable if power is supplied by a PoE system.

• When power is supplied by IEEE802.3af (PoE) equipment, do not set the

Power supply equipment pursuant to IEEE802.3af/at (PoE/PoE+* system)

waterproof rubber gasket is clean and fits in the groove properly. (11-12)

• Before attaching the dome casing to the camera unit, make sure the

this unit in a waterproof enclosure or on a waterproof ceiling to prevent water

ingress. Alternatively, seal the bottom hole. (1-7) Cover the joint between the

- waterproof performance suited to the installation environment

Use the supplied cable holder (for conduit) or seal the inside of the pipe to

prevent moisture (condensation) entering the pipe. (11-4)

Otherwise, there may be a risk of water entering the unit through these cables.

camera unit. Rotate the cord and adjust the position of the cord.

camera head are outside of the plates of the camera. (G-4)

counterclockwise. (G-6)

portion of the camera block.

to N/F to focus manually.

using the system menu.

outside the specified optical area.

they may become loose and fall out.

Attaching the Dome Casing

Important precautions

Installation Manual. (1 -2)

sealant material. (1 -5)

which wiring slit is used. (1 -3)

which has following conditions:

- a thread length of 12 mm (1/2 inches) or less

gap between the flange and unit. (11-6)

Install the camera on a wall lengthwise.

also protect against rain and snow.

Connecting to the Network

Connecting the Power Source

minutes before turning off the camera.

minutes before turning off the camera.

receiving (receiving-end voltage))

• Use UL cable (VW-1 style 10368) for these connections.

When the receiving-end voltage of the camera is 12 V DC:

When the receiving-end voltage of the camera is 24 V AC:

#14

24 (78.7)

12 V DC: 10.8 V to 13.2 V

24 V AC: 19.2 V to 28.8 V

Supply Only.

Supply Only

CABLE (AWG)

CABLE (AWG)

Recommended cable

Max. length (m (feet))

Max. length (m (feet))

POWER switch to PoE+, AC, DC.

*PoE means Power over Ethernet.

POWER switch to PoE+

commercially-available network cable (straight cable).

Notes on assembly

Connection

SNC-VM642R

*PoE means Power over Ethernet.

24 V AC

Notes

SNC-EM642R

Notes

G

camera unit. (1-10)

Fix the dome casing and the camera unit.

fixing screw, an internal part may be damaged.

minutes have passed since the focus was adjusted.

For details, refer to the User's Guide of the equipment.

the plate of the camera.

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

The power supply equipment pursuant to IEEE802.3af/at supplies the power through a commercially available network cable. For details, refer to the Instruction Manual of the equipment.

Note

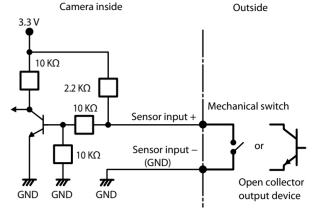
If you connect the camera to power supply equipment pursuant to IEEE802.3at, the equipment may limit the power supply and the camera may stop operating. For details, refer to the instruction manual of the power supply equipment.

Connecting the I/O Cable (SNC-VM642R)

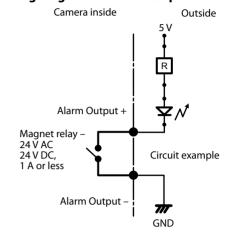
Connect the wires of the I/O cable as follows:

Wiring diagram for sensor input

Mechanical switch/open collector output device



Wiring diagram for alarm output



Specifications

Compression

П

Video compression format JPEG/H.264 G.711/G.726/AAC Audio compression format Maximum frame rate 60 fps

Camera

Image device

IR LED 20 pcs

SNC-VM642R: 100 m (30 IRE) IR working distance SNC-EM642R: 60 m (30 IRE) Signal system NTSC color system/PAL color system (switchable)

1/2.8type CMOS (Exmor R) Effective number of pixels: Approx. 2,130,000

Synchronization Internal synchronization Horizontal resolution 700 TV lines (monitor display ratio 4:3) Video S/N More than 50 dB (Auto gain control maximum

rate 0 dB) View-DR Off/VE* Off/Auto gain maximum rate Minimum illumination MAX/30 IRE (IP)/30 fps

F1.2/Color: 0.006 lx, Black & White: 0.005 lx * VE stands for Visibility Enhancer.

Lens

Focal length 3.0 mm to 9.0 mm Maximum relative aperture F1.2 to F2.1

1920 × 1080 (aspect ratio 16:9) View angle Vertical: 56.9° to 20.1° Horizontal: 105.3° to 35.6°

Movable angle Pan: -192° to +192° Tilt: -7° to $+75^{\circ}$ Rotation: -99° to +180°

Minimum object distance

LAN port (PoE/PoE+) I/O port (SNC-VM642R only)

Sensor input: × 2, make contact, break contact Alarm output: × 2 (maximum 24 V AC/DC, 1A) (mechanical relay outputs electrically isolated from the camera)

10BASE-T/100BASE-TX, auto negotiation (RJ-45)

Video output

SD memory card slot

Power consumption

Operating temperature

unbalanced, sync negative Microphone input* Minijack (monaural)

Plug-in-power supported (rated voltage: 2.5 V DC)

Recommended load impedance: 2.2 k Ω

VIDEO OUT: BNC, 1.0 Vp-p, 75 ohms,

Line input* Minijack (monaural)

* The microphone input and the line input are switchable with operating menu. Line output

Minijack (monaural), Maximum output level:

Others

Power supply

J

SNC-VM642R 12 V DC ± 10%

 $24 \text{ V AC} \pm 20\%$, 50 Hz/60 Hz

IEEE802.3af/at compliant (PoE/PoE+ system) SNC-EM642R IEEE802.3af/at compliant (PoE/PoE+ system)

SNC-VM642R Max. 22 W (AC 24 V/DC 12 V)

Max. 18 W (IEEE802.3at (PoE+)) Max. 12.8 W (IEEE802.3af (PoE))

SNC-EM642R

Max. 18 W (IEEE802.3at (PoE+))

Max. 12.8 W (IEEE802.3af (PoE)) SNC-VM642R

Start temperature: -30°C to +60°C (-22°F to +140°F) (IR OFF,

PoE+, AC 24 V, DC 12 V)

-30°C to +50°C (-22°F to +122°F) (IR ON, PoE+, AC 24 V, DC 12 V) 0°C to +60°C (+32°F to +140°F) (IR OFF, PoE)

0°C to +50°C (+32°F to +122°F) (IR ON, PoE) Working temperature:

 -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F) (IR OFF, PoE+, AC 24 V, DC 12 V) -40°C to +50°C (-40°F to +122°F) (IR ON, PoE+,

AC 24 V, DC 12 V)

-10°C to +60°C (+14°F to +140°F) (IR OFF, PoE)

-10°C to +50°C (+14°F to +122°F) (IR ON, PoE) SNC-EM642R

Start temperature: -30°C to +50°C (-22°F to +122°F) (PoE+) -20°C to +50°C (-4°F to +122°F) (PoE)

Working temperature: -40° C to $+50^{\circ}$ C (-40° F to $+122^{\circ}$ F) (PoE+) -30°C to +50°C (-22°F to +122°F) (PoE)

 -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage temperature 20% to 90% (no condensation) 20% to 80% (no condensation)

Operating humidity Storage humidity Dimensions (diameter/height) **K**

 $166 \text{ mm} \times 128 \text{ mm}$ (6 $^{5}/_{8}$ inches \times 5 $^{1}/_{8}$ inches), not including the projecting parts

SNC-VM642R: Approx. 1,830 g (4 lb 0.6 oz) (excluding

bracket)

SNC-EM642R: Approx. 1,740 g (3 lb 13 oz) (excluding bracket)

Bracket (1), Template (1), Wire rope (1), LAN

cable holder (1), Camera unit mounting screws (4), Screw \oplus M4 \times 8 (2), Wrench (1), Safety Regulations (1 set), Cable holder (for conduit) (1)

Optional accessory
In-ceiling bracket YT-ICB45* * Use the fixture position ① on the bracket. Weather protector SNCA-WP602 Design and specifications are subject to change without notice.

http://www.sony.net/

Mass

Supplied accessories