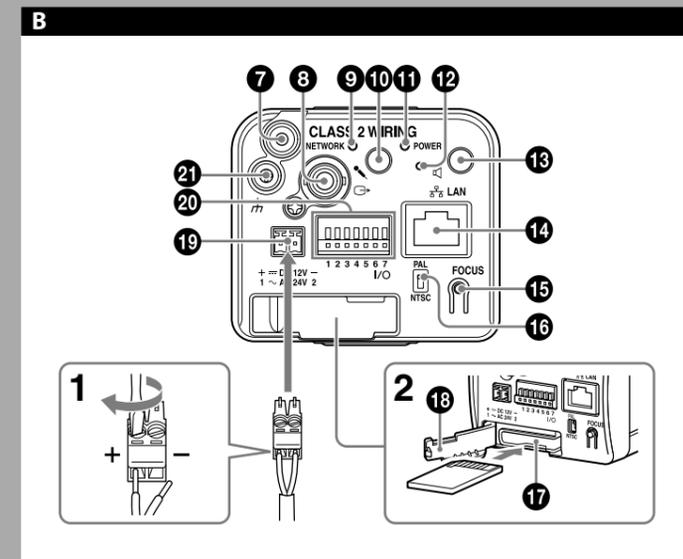
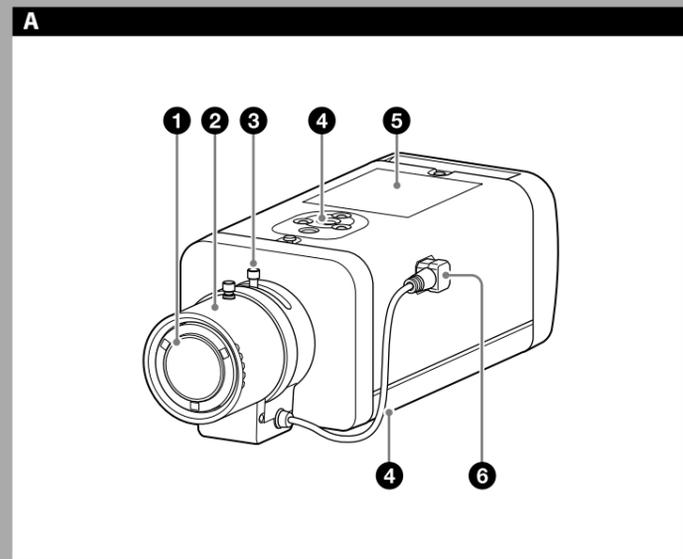


# Network Camera

## Installation Manual

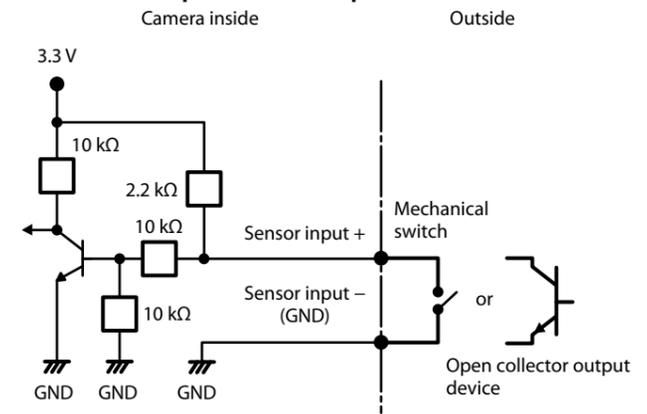
Before operating the unit, please read this manual thoroughly and retain it for future reference.



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

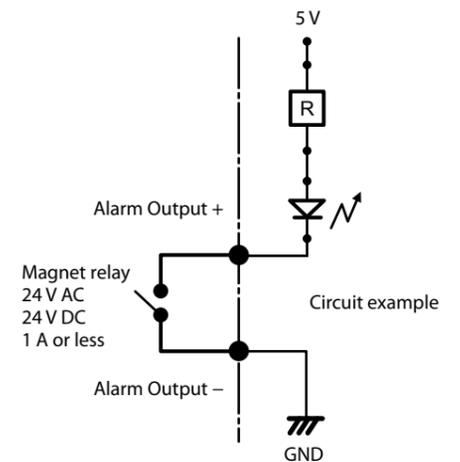
### Wiring diagram for sensor input

#### Mechanical switch/open collector output device



### Wiring diagram for alarm output

#### Camera inside / Outside



**21 h (ground) terminal**  
This is a ground terminal for the chassis.

(continued on the reverse side)

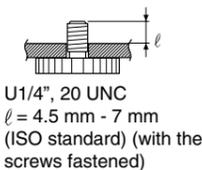
### Assigning the IP address

Assign the IP address using the setup program in the supplied CD-ROM. For details on how to set up the IP address, see SNC easy IP Setup Guide.

### Location and Function of Part

#### Front A

- 1 Lens**  
A vari-focal lens is mounted as standard equipment.
- 2 Focus ring**  
Turn this ring toward N (near) to focus on a closer object. Turn it toward ∞ (infinite) to focus on a farther object.
- 3 Zoom ring**  
Turn this ring toward T for telephoto, or toward W for wide-angle.
- 4 Tripod screw hole**  
Use this screw hole when attaching the camera to a tripod (screw: 1/4", 20 UNC). You can attach a tripod to either the top or bottom of the camera.



**Caution**  
Use the mounting screw whose length is 4.5 mm – 7 mm only. Use of other screws may cause improper mounting and damage parts inside the camera.

- 5 Rating Label**  
This label shows the name of device and its electric rating.
- 6 Lens connector (4-pin socket)**  
Supplies power and control signals to an auto-iris lens.

#### Rear B

- 7 Fall-prevention wire rope mounting screw hole**  
When installing the camera to the ceiling or the wall, secure the supplied wire rope to this hole using the supplied screw.
- 8 VIDEO OUT (video output) connector**  
Connect the BNC cable (not supplied) to this connector.
- 9 NETWORK indicator**  
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.
- 10 (microphone input) jack (minijack, monaural)**  
Connect a commercially available microphone. This jack supports plug-in-power microphones (rated voltage: 2.5 V DC).
- 11 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.

- 12 Reset switch**  
To reset the camera to the factory default settings, turn on the power to the camera while holding down this switch with a pointed object.
- 13 (line output) jack (minijack, monaural)**  
Connect a commercially available speaker system with a built-in amplifier.
- 14 LAN network port (RJ-45)**  
Connect a network cable (UTP, category 5) to this port to communicate with a network or PoE\* system. For details on connection, see the Instruction Manual of the power supply equipment. (\*PoE stands for Power over Ethernet. It is pursuant to IEEE802.3af.)
- 15 Easy Focus button**  
Press this button to automatically adjust the focus. To load the default setting, press and hold this button for 4 seconds.
- 16 NTSC/PAL switch**  
Switching the video output.
- 17 SD card slot**  
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 the slot. When inserting, refer to the illustration and be sure to insert it completely. (B-2) This unit is only compatible with SD and SDHC memory cards.

**Note**  
For inquiries regarding verified SD memory cards, contact your authorized Sony dealer.

- 18 SD card slot cover**  
To remove the SD card slot cover, pull the cover forward, and insert the memory card. When closing the cover, be sure to close it completely by pushing on the hook on the end until it locks in place.
- 19 DC 12 V/AC 24 V (power input) terminal**  
Connect to a 12 V DC or 24 V AC power supply system. (B-1)
- 20 I/O (Input/Output) port**  
This port provides two sensor inputs and two alarm outputs. The signal pin assignment is as follows.

PinNo.	Signal
1	Sensor input 1+
2	Sensor input 2+
3	Sensor input- (GND)
4	Alarm output 1+
5	Alarm output 1-
6	Alarm output 2+
7	Alarm output 2-

For details on each function and required settings, see the User's Guide.

## SNC-VB600/VB600B/VB630



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### About the Manuals

#### Installation Manual (this document)

This Installation Manual 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.

#### SNC easy IP setup Guide (stored in the CD-ROM)

#### User's Guide/Application Guide (Web)

The User's Guide describes how to set up the camera and how to control the camera via a Web browser. After installing and connecting the camera correctly, operate referring to this User's Guide.

### Using the software

The supplied CD-ROM includes the setup program for assigning an IP address. The information for how to set up an IP address is also included in the disc in PDF format.

User's Guide and Application Guide can be downloaded from the disc, or the following URL:  
<http://www.sony.net/ipela/snc>

### Using the CD-ROM manual

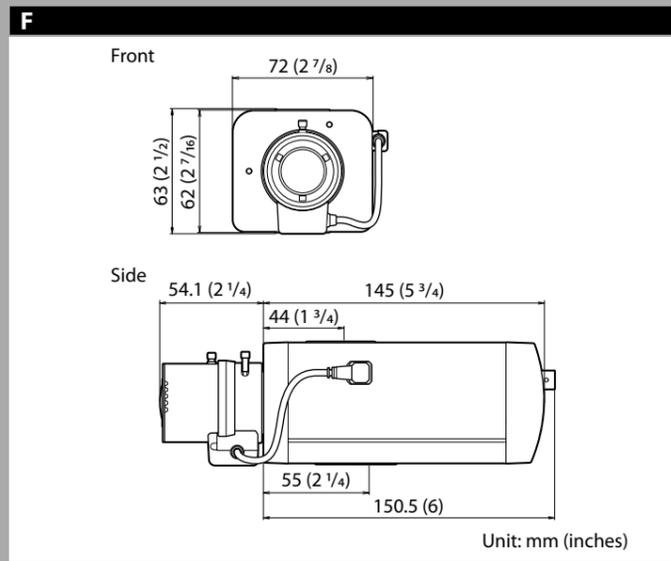
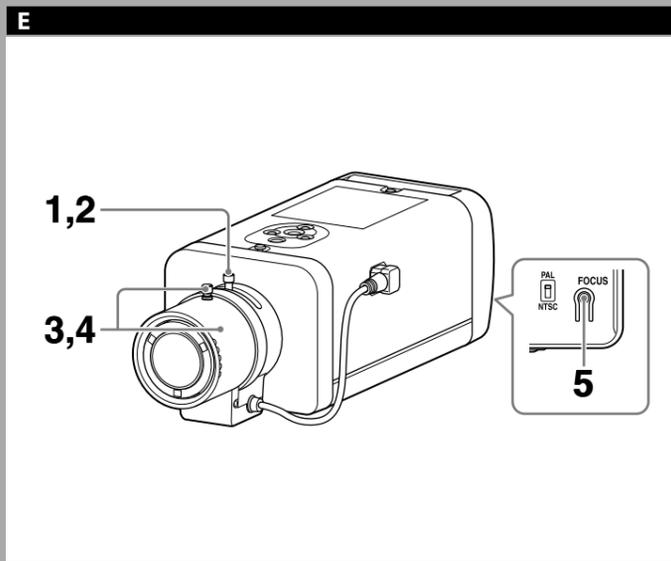
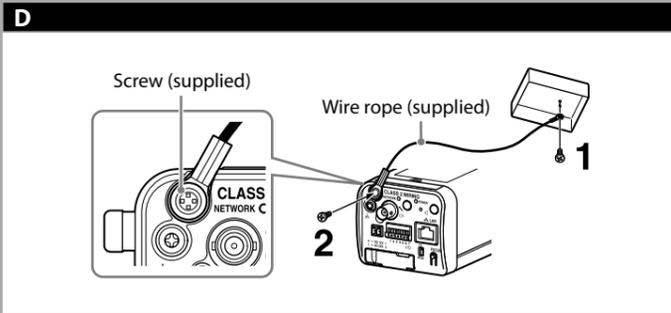
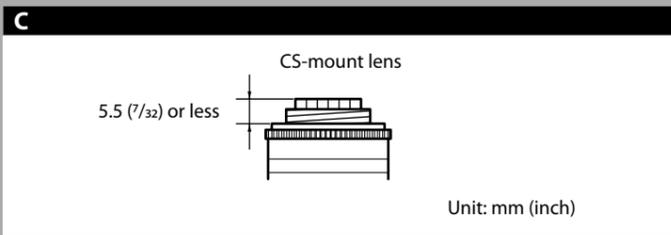
The manual can be read on a computer with Adobe Reader installed. You can download Adobe Reader free from the Adobe website.

- 1 Open the index.html file in the CD-ROM.**
- 2 Select and click on the manual that you want to read.**

#### Note

If you have lost or damaged the CD-ROM, you can purchase a new one from your Sony dealer or Sony service counter.

Adobe and Acrobat Reader are trademarks of Adobe Systems Incorporated in the United States and/or other countries.



I/O port	Sensor input: × 2, make contact, break contact Alarm output: × 2, 24 V AC/DC, 1 A max. (mechanical relay outputs electrically isolated from the camera)
SD memory card slot	
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) Recommended load impedance: 2.2 kΩ
Line input*	Minijack (monaural)
Line output	* The microphone input and the line input are switchable with operating menu. Minijack (monaural), Maximum output level: 1 Vrms
<b>Others</b>	
Power supply	12 V DC ± 10% 24 V AC ± 20%, 50 Hz/60 Hz IEEE802.3af compliant (PoE system) 6.0 W max.
Power consumption	
Operating temperature	Start temperature: 0°C to 50°C (32°F to 122°F) Working 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 (w/h/d) <b>F</b>	72 mm × 63 mm × 145 mm (2 7/8 inches × 2 1/2 inches × 5 3/4 inches) not including the projecting parts and lens Approx. 565 g (1 lb 3.9 oz) with lens
Mass	
Supplied accessories	CD-ROM (Supplied programs) (1) Wire rope (1) Screw M4 (1) DC 12 V/AC 24 V connector (1) Safety Regulations (1) Installation Manual (this document) (1)

Design and specifications are subject to change without notice.

## Installation

**Caution**  
To prevent the camera from falling, make sure to attach the supplied wire rope.

## Suitable lens

The lens must be a CS-mount type and the protrusion behind the mounting surface must be 5.5 mm (7/32 inch) or less.

**Caution**

- When you install it into a wall or a ceiling, check that the wall or the ceiling is strong enough to hold the weight of the camera including the mounting bracket, and install it without fail. If not, the camera falls down and causes a serious injury.  
Also, check if the mounting is not loosened at least once a year. Make the checking interval short according to use condition.
- Performance will depend on the installation environment and the lens itself. For details, contact your authorized Sony dealer.

## Attaching the wire rope

When you install the camera on a ceiling or a high position, be sure to attach the supplied wire rope to prevent the camera from falling.  
Attach the 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 screw.**

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

## Adjusting the Camera Coverage and Focus

- Loosen the zoom ring locking screw to adjust the camera shooting coverage.**
- Tighten the locking screw to fix the zoom.**
- Loosen the focus ring locking screw to adjust the focus.**
- Tighten the locking screw to fix the focus.**
- Press the Easy Focus button on the rear to automatically adjust the focus.**

**Note**  
You may not achieve satisfactory focus with the Easy Focus button due to the shooting environment.  
In this condition, press and hold Easy Focus button for more than 4 seconds to return to the default flange back position. Then, adjust the focus following step 3 and 4.

## Connection

### Connecting to the Network

Connect the network cable of the camera to a router or hub in the network using the network cable.

### 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 stands for Power over Ethernet.

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

### 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: 19.2 V to 28.8 V  
- In the USA, The product shall be powered by a UL Listed Class 2 Power Supply Only.  
- In Canada, The product shall be powered by a CSA certified Class 2 Power Supply Only.
- Use UL cable (VW-1 style 10368) for these connections.

**Recommended cable**

12 V DC:

CABLE(AWG)	#24	#22	#20
Max. length(m(feet))	8 (26.2)	14 (45.9)	20 (65.5)

24 V AC:

CABLE(AWG)	#24	#22	#20
Max. length(m(feet))	11 (36.1)	19 (62.3)	28 (91.9)

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

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

## Specifications

**Compression**

Video compression format	JPEG/H.264
Audio compression format	G.711/G.726/AAC
Maximum frame rate	SNC-VB600/VB630 60 fps SNC-VB600B 30 fps

**Camera**

Signal system	NTSC color system/PAL color system (switchable)
Image device	SNC-VB600/VB600B 1/3type CMOS (Exmor) Effective picture elements: Approx. 1,370,000 SNC-VB630 1/2.9type CMOS (Exmor) Effective picture elements: Approx. 2,140,000
Synchronization	Internal synchronization
Horizontal resolution	SNC-VB600/VB600B: 600 TV lines (analog video) SNC-VB630: 700 TV lines (monitor display ratio 4:3)
Video S/N	More than 50 dB (Auto gain control maximum rate 0 dB)
Minimum illumination	F1.2/View-DR Off/VE* Off/Auto gain control maximum rate MAX/50 IRE (IP)/30 fps SNC-VB600/VB600B Color: 0.05 lx Black & White: 0.04 lx SNC-VB630 Color: 0.10 lx Black & White: 0.07 lx

\* VE stands for Visibility Enhancer.

**Lens**

Focal length	2.8 mm ~ 8 mm
Maximum relative aperture	F1.2 ~ F1.95
View angle*	SNC-VB600/VB600B: 1280 × 1024 (aspect ratio 5:4) Vertical: 78.1° ~ 28.6° Horizontal: 100.0° ~ 35.7° SNC-VB630: 1920 × 1080 (aspect ratio 16:9) Vertical: 60.6° ~ 22.5° Horizontal: 114.2° ~ 40.0°

\* The view angle will change, depending on the setting of the aspect ratio resolution.

Minimum object distance	300 mm
<b>Interface</b>	
LAN (PoE)	10BASE-T/100BASE-TX, auto negotiation (RJ-45)