

ENGLISH

BIE-7018-002

Network Camera

Canon

VB-S30D/VB-S31D/VB-S800D/VB-S805D

Installation Guide

Please be sure to read the "Safety Precautions" section for correct use. After reading this Installation Guide, keep it in a readily accessible location for future reference. This camera is for indoor use only.

* Some cameras are not sold in some regions.

/!\WARNING To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.



! Caution Request a professional installer for all camera installation work. Never try to install the camera yourself. Doing so may result in unforeseen accidents such as dropping the camera or electric shock.

Check Included Items

Camera (VB-S30D/VB-S31D/ VB-S800D/VB-S805D) Setup CD-ROM

Template Installation Guide (This document) Warranty Card

Symbols Indicating Camera Model

Camera specific functions will be listed using the icons below.

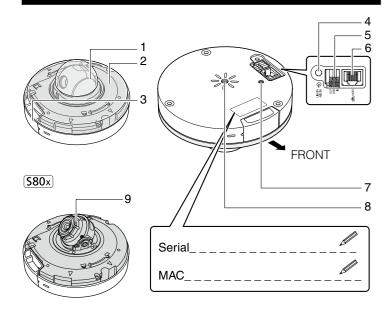
\$30 : VB-S30D \$31 : VB-S31D \$80x : VB-S800D/VB-S805D

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Safety Wire

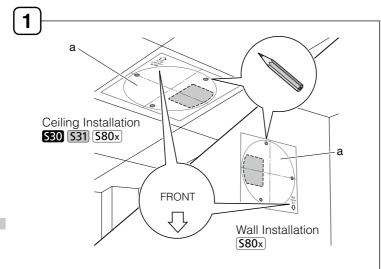
Printed in Taiwan

Part Names

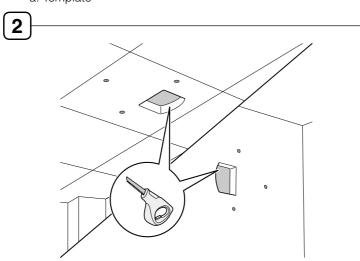


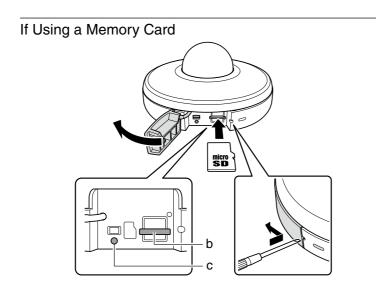
- 1. Camera Head / 2. Top Cover / 3. Memory Card Slot Cover /
- 4. Audio Input Terminal / 5. External Device I/O Terminal /
- 6. 100Base-TX LAN Connector / 7. Safety Wire Attachment /
- 8. Tripod Mounting Screw Hole (a 1/4-20 UNC tripod mounting screw less than 5.5 mm (0.22 in.) in length will fit the screw hole) /
- 9. Rotation Dial S80x

Installing the Camera



a. Template



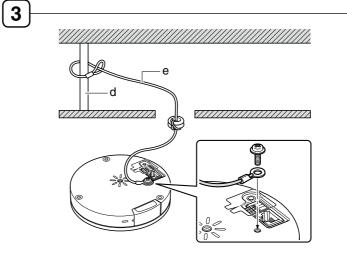


- b. Memory Card Slot
- c. Reset Switch (see "Operation Guide")

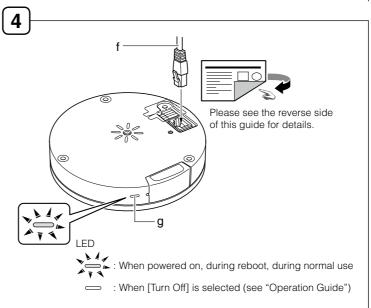
To remove the memory card, push it in and release it so it pops out slightly. Grasp the card and remove it.

9 Important

- · Insert a memory card before installing the camera.
- When using a memory card with the camera for the first time, it is recommended to format the card after inserting it into the camera (see "Operation Guide").



d. Anchor or Structure / e. Safety Wire



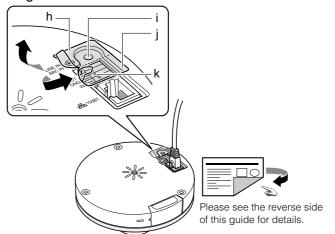
f. LAN cable / g. LED

Important §30 §31

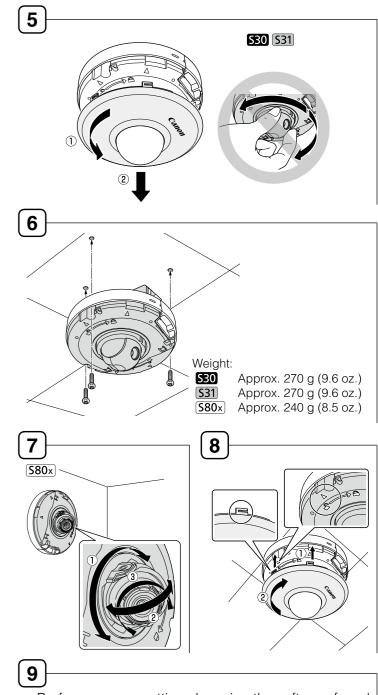
The camera head will move and make noise when the power is

- Do not touch the camera head.
- · After the head stops moving, mount the camera.

If Using the External Device Terminal or Audio Terminal



- h. Protective Cover for Audio Input Terminal
- i. Audio Input Terminal
- j. Protective Cover for External Device I/O Terminal
- k. External Device I/O Terminal



Perform camera settings by using the software found on the Setup CD-ROM (see "Operation Guide").

Accessories

The following accessories can be purchased separately as necessary. Some accessories are not sold in some regions.

Pendant Mounting Kit PC30-VB

This is an attachment for large stores with high ceilings used to install the camera at the end of a pipe stretching down from the ceiling.

Surface Mounting Spacer SS30-VB

This is an attachment used to install a camera without having to drill any holes in the wall or ceiling for cables

Junction Box Mounting Kit PS30-VB

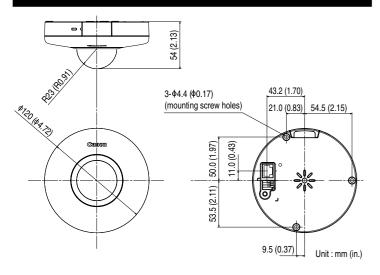
This is an attachment used to install a camera using an electrical junction box.

Plenum Mounting Kit SR30-P-VB

Dedicated accessory used to install the camera recessed into a ceiling. The part projecting out within the ceiling can be covered.

The contents of this guide are subject to change without any prior notice.

External Dimensions



Connecting the Camera

Power Supply

See "Specifications" > "Others" > "Power Supply".



- Check with your dealer for more information about PoE devices.
- Some PoE devices allow power limits for each port, but applying limits may interfere with performance. If using this type of PoE device, do not limit the operating power.
- Some PoE devices have total consumption power limits for ports, which can interfere with performance when multiple ports are in use. For more information, check the instruction guide for your PoE device.

External Device I/O Terminals

■ External Device Input Terminals (IN)

The external device input terminal consists of a positive terminal (IN) and negative terminal (GND). Connecting cables to the positive and negative terminals and opening or closing the circuit notifies the Viewer.



When connecting sensors and switches, use those that have terminals which are isolated from internal power and GND.

■ External Device Output Terminals (OUT)

The external device output terminal consists of an OUT terminal and a GND terminal. Controls from the viewer can be used to open and close the circuit between the terminals. A MOSFET device is used for the output terminal.

Rating range for load connected to output terminals Rating between output terminals:

Maximum voltage 50 V DC

Continuous load current at or below 100 mA On resistance: Below 1 Ω

Adaptive wiring for external device cables

Rating Range: (same for contact input and output)

Conductor Size: AWG: No. 26 - 20

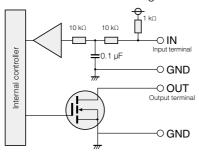
Stripped cable length should be approximately 11 – 13 mm (0.43 – 0.51 in.)



- The External Device I/O Terminal consists of three terminals (IN, OUT, and GND). The GND terminal serves as both the external device input GND and the external device output GND.
- The GND terminal is connected to the camera interior GND.

- When using the external device input and output at the same time, couple the GND wire from the input cable with the GND wire from the output cable, conforming to the rating range, and connect it to the GND terminal.
- Do not push the external device I/O terminal button with too much force. Doing so may cause the button to remain pushed-in.

Internal Connection Diagram



Audio Input Terminals

Camera has single audio input system supporting two types of microphone input: LINE IN and MIC IN. Before use, change [Audio Input] on the Setting Page (see "Operation Guide"). LINE IN is selected by default.

Dvnamic MIC IN

Input impedence: $20 \text{ k}\Omega - 40 \text{ k}\Omega$

Condenser MIC IN

Input impedence (microphone bias resistance): 2.2 kΩ ±20% Microphone power supply: plug-in power (voltage: 2.3 V)

* Supported microphones: Condenser microphones with plug-in power support

LINE IN

Input level: up to 1 Vp-p

* Use a microphone with an amplifier.

Specifications

Please refer to the installation procedures or "Operation Guide" for specifications not listed below.

Camera

Viewing Angle

3.5x optical (4x digital zoom) zoom lens with auto focus

S31 S80x Fixed focal length lens (4x digital zoom) For 16:9 aspect ratios Horizontal: 77.7° (W) - 20.7° (T)

Vertical: 40.4° (W) - 11.6° (T) For 4:3 aspect ratios

Horizontal: 55.3° (W) – 15.5° (T) Vertical: 40.4° (W) - 11.6° (T)

S31 S80x For 16:9 aspect ratios Horizontal: 95.0° Vertical: 60.0°

> For 4:3 aspect ratios Horizontal: 76.0°, Vertical: 60.0°

Pan Angle Range 350° (±175°) Tilt Angle Range

90° (ceiling-mounted position: -90° - 0°) When the horizontal direction of the camera is 0° S80x 180° (±90°)

Rotation Angle Range

Interface Network Terminal*

LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex)) * LAN cables are category 5 or higher, with length 100 m

Audio Input Terminal Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural) (common for LINE IN & MIC IN) LINE IN x 1 or MIC IN x 1 External Device I/O Terminal Input x 1, Output x 1

microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card compatible.

Others

Memory Card

Operating Environment Temperature: -10°C - +50°C (+14°F - +122°F)

Installation Angle

Power Supply

Humidity: 5% – 85% (without condensation) Storage Environment Temperature: $-30^{\circ}\text{C} - +60^{\circ}\text{C} (-22^{\circ}\text{F} - +140^{\circ}\text{F})$

Humidity: 5% – 90% (without condensation) +5° (camera) in relation to a horizontal plane PoE: PoE power supply via LAN cable

(IEEE802.3af compliant) Power Consumption

530 Max. 7.8 W

- Class 0 power sourcing equipment (requests 15.4 W) Max. 7.6 W

 Class 0 power sourcing equipment (requests 15.4 W) S80x Max. 4.1 W

- Class 2 power sourcing equipment (requests 7.0 W)

Symbols Indicating Safety Precautions

This Installation Guide uses the following marks to indicate important information the user should know in order to use the product safely. In this section, explanations are provided for each mark so that readers will understand the level of importance for each. Be sure to observe these items.

		Failure to follow the instructions accompanied by this symbol may result in death or serious injury.
-	<u> </u>	Failure to follow the instructions accompanied by this symbol may result in injury.
	Caution	Failure to follow the instructions accompanied by this symbol may result in property damage.
	Important	This symbol indicates important or restricted items.
	Note	Contains reference information for operation or additional explanations.

Safety Precautions

Installation Precautions

/ Warning

Do not install in the following places:

- Places in strong direct sunlight, near heat-generating objects, or subject to high temperatures
- Places near fire sources or flammable solvents (alcohol, thinner, fuel, etc.)
- Humid or dusty places
- Places subject to oily smoke or steam
- Places subject to sea air
- Confined or enclosed places

Fire or electric shock may result.

Precautions for the LAN (power) cable:

- Do not set any heavy objects on the LAN cable.
- Do not pull, forcibly bend, scratch, or modify the LAN cable. Fire or electric shock may result.

! Caution

For installation or inspection of this camera, consult the dealer where you purchased the product.

- This installation should be made by a qualified service person and should conform to all local codes.
- When installing, make sure the surface is capable of withstanding the total weight of the camera and accessories, and sufficiently reinforce if necessary.
- Be sure to use installation screws designed for the type of ceiling the camera is to be installed.
- Periodically check the parts and screws for rust and to see if they have loosened, in order to prevent injuries and equipment damage due to falling items.
- Do not install in unstable places, places subject to significant vibration or impact, or places subject to salt damage or corrosive gas.
- · Be sure to attach the safety wire when installing the camera. Failure to do so may result in the camera falling or other accidents.
- Do not touch the edges of metal parts with bare hands.
- Be careful not to trap your fingers during installation of the camera.

Injury may result.

Caution

- \$30 \$31 Do not turn the camera rotator by hand.
- 530 531 Do not install on an unstable surface. Also, make sure the camera is installed ±5°off horizontal.
- After turning off the power, do not turn the power on again for at least 5 seconds.
- Take measures to remove static electricity before performing any procedures.
- If there is condensation, please wait to power on, until the condensation dissipates.

Malfunction may result.

• Take care not to damage wiring or pipes in the room. Damage to peripheral items may result.

Precautions for Use



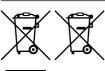
• If you discover defective conditions such as smoke, strange sounds, heat or strange odors, immediately stop using the camera and contact your nearest dealer.

Fire or electric shock may result from continued use of the product.

- If thunder starts, stop installation or inspection etc. and do not touch the camera or continue connecting the cable.
- Do not disassemble or modify the camera.
- Do not damage the connecting cable.
- Do not spill water or other liquid inside the camera, spray the camera with water, or otherwise make it wet.
- Do not insert foreign objects into the camera.
- Do not use flammable sprays near the camera.
- Do not leave LAN cables connected when the camera is not in use for long periods.
- Do not use flammable solvents such as alcohol, paint thinner or benzine when cleaning the camera.

Fire or electric shock may result.

Only for European Union and EEA (Norway, Iceland and Liechtenstein)



These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives.

If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canoneurope.com/weee, or www.canon-europe.com/battery.

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