Canon



BIE-7202-000

ENGLISH

Network Camera

VB-S30D MkII / VB-S31D MkII / VB-S800D Mk II / VB-S805D Mk II 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 available in certain countries or 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 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

Installation Guide (This document) Safety Wire, Screws (M4) x 1

Symbols Indicating Camera Model

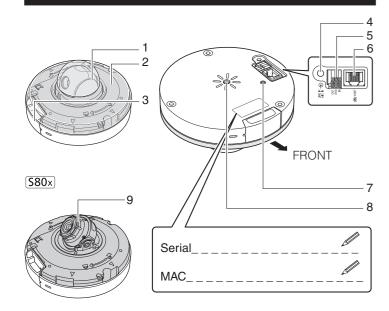
\$30 : VB-S30D Mk II \$31 : VB-S31D Mk II \$80x : VB-S800D Mk II/VB-S805D Mk II

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Warranty Card

Printed in Taiwan

Part Names



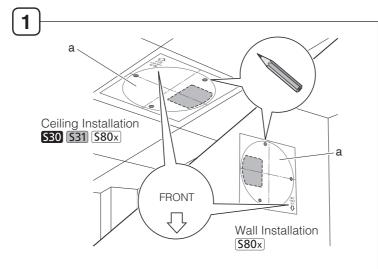
- 1. Camera Head / 2. Top Cover / 3. Memory Card Slot Cover /
- 4. Audio Input Terminal / 5. External Device I/O Terminal /
- 6. 100Base-TX LAN Connector / 7. Safety Wire Attachment /
- 8. Tripod Mounting Screw Hole (a 1/4-20 UNC tripod mounting screw less than 5.5 mm (0.22 in.) in length will fit the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

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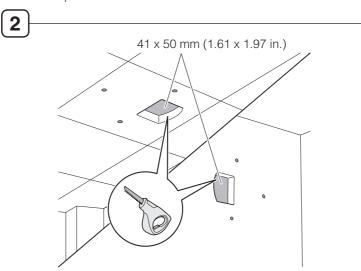
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan CANON EUROPA N.V.

Bovenkerkerweg 59, 1185 XB Amstelveen, The Netherlands

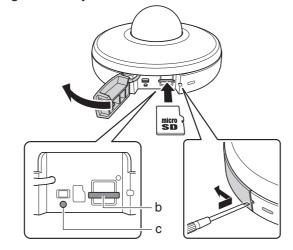
Installing the Camera



a. Template



If Using a Memory Card



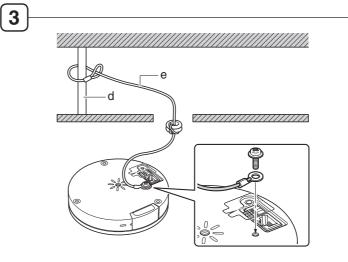
- b. Memory Card Slot
- c. Reset Switch (please refer to the "Operation Guide")

To remove the memory card, push it in all the way until the card slightly pops out and remove.

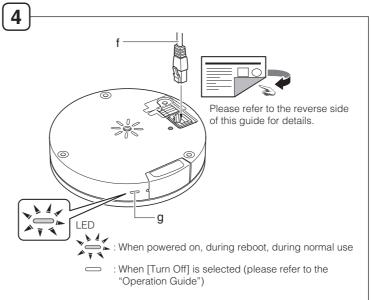


1 Important

Insert a memory card before installing the camera.



d. Anchor or Structure / e. Safety Wire



f. LAN cable / g. LED

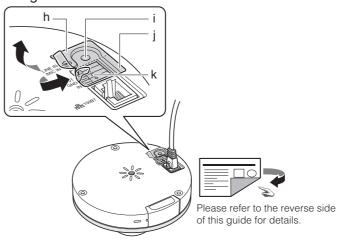


Important S30 S31

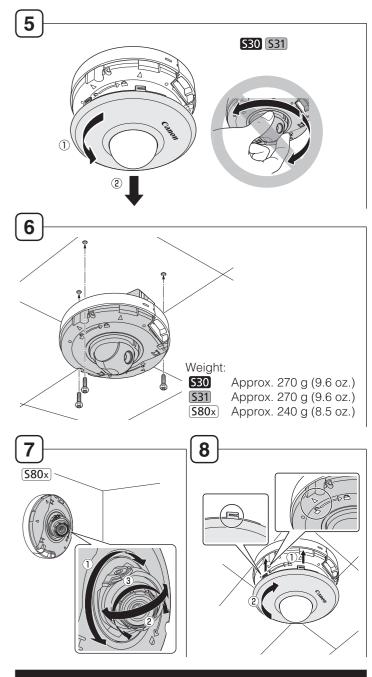
The camera head will move and make noise when the power is turned on.

- 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



Accessories

The following accessories can be purchased separately as necessary. Some accessories are not available in certain countries or regions.

Pendant Mounting Kit PC30-VB

Dedicated accessory used to install the camera to the end of pipe that extends from high ceilings, such as in big-box stores.

Surface Mounting Spacer SS30-VB

Dedicated accessory used to install a camera without having to drill any holes in the wall or ceiling for cables.

Junction Box Mounting Kit PS30-VB

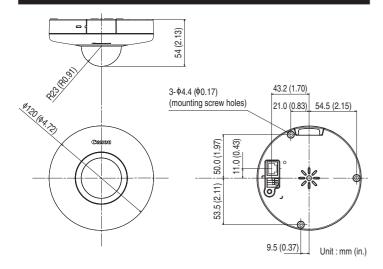
Dedicated accessory used to install a camera using a junction

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

Please refer to the "Specifications" > "Other" > "Power Supply".



- · Power supply should conform to all local codes.
- The power supply should also comply with IEC/UL60950-1 (SELV/LPS) standards.

Important

- 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 an IN terminal and a GND terminal. Connecting cables to the IN and GND 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

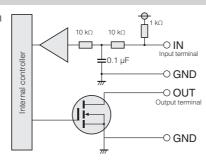
Continuous load current at or below 100 mA On resistance: Below 1 Ω

Adaptive wiring for external device cables Rating Range: (same for contact input and output) Solid wire/Stranded wire AWG: No. 26 – 20 Stripped cable length should be approximately 11 mm (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 Common LINE IN/MIC IN

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

 Dynamic 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 "Specifications" for specifications not listed below.

Camera

S30

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

Viewing Angle

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 Tilt Angle Range

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

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 (328 ft.) or shorter

Audio Input Terminal External Device I/O Terminal Input x 1, Output x 1 Memory Card

(common for LINE IN & MIC IN) LINE IN x 1 or MIC IN x 1

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

Others

Installation

Power Supply

Storage Environment

Operating Environment Temperature: -10°C - +50°C (+14°F - +122°F) Humidity: 5% – 85% (without condensation) Temperature: -30°C – +60°C (-22°F – +140°F) Humidity: 5% – 90% (without condensation)

530 531 Ceiling mount

- Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than ±5° from horizontal or on walls, because this will put a heavy load onto sliding mechanical parts and may affect durability.

Ceiling mount/Surface mount

PoE: PoE power supply via LAN connector (IEEE802.3at Type1 compliant)

Power Consumption

S30 Max. 7.8 W

- Class 0 power sourcing equipment (requests 15.4 W)

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

Class 2 power sourcing equipment (requests 7.0 W)

Safety Precautions

Installation Precautions



Warning Failure to follow the instructions may result in death or serious injury.

Do not install in the following places:

- Places in direct sunlight, near heat-generating objects, or locations 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

Failure to do so may result in fire or electric shock.

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. Failure to do so may result in fire or electric shock.



Caution Failure to follow the instructions may result in injury.

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 surface the camera is to be installed.
- Periodically check the parts and screws for rust and loosening, 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 get your fingers caught when installing.
- Failure to do so may result in injuries.

Caution Failure to follow the instructions may result in property damage.

- §30 §31 Do not turn the camera rotator by hand.
- \$30 \$31 Do not install on an unstable surface. Also, make sure the camera is installed ±5° or less horizontal
- After turning off the power, do not turn the power on again for at least five seconds.
- Take measures to remove static electricity before performing any procedures.
- If there is condensation, please wait to power on, until the condensation dissipates.
- The network camera is only intended for a connection to an Ethernet or PoE network without routing to the outside

Failure to do so may result in malfunction.

• Take care not to damage wiring or piping. Failure to do so may result in damage to peripheral items.



• We recommend the installation of a lightning arrester (a surge protection device) as a measure against failures caused by lightning strikes. Please refer to our website for details.

Precautions for Use

product.

Warning Failure to follow the instructions may result in death or serious injury.

• 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

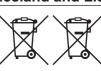
- If thunder starts, stop installation or inspection etc. and do not touch the camera or continue connecting the cable.
- Do not disassemble or modify the camera.
- Do not damage the connecting cable.
- Do not spray the camera with water, or otherwise make
- Do not insert foreign objects such as water or metal 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.

Failure to do so may result in fire or electric shock.

- This camera should not be used with medical devices or other life-support systems.
- Depending on the computer and network environment, high-precision video transmission cannot be guaranteed due to video lag or loss.

Canon will assume no liability for any accident or damage resulting from use of the camera under the conditions above.

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

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.canon-europe.com/weee, or www.canon-europe.com/