Canon



BIE-7203-000

ENGLISH

Network Camera

VB-S910F / VB-S900F Mk II / VB-S905F MkII 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

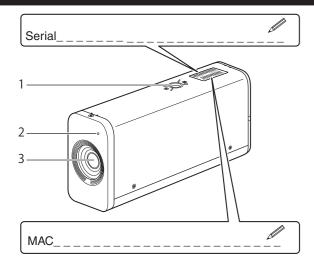
Installation Guide (This document)

Warranty Card

Symbols Indicating Camera Model

S910F: VB-S910F **S900F/S905F**: VB-S900F Mk II/VB-S905F Mk II © CANON INC. 2017 Printed in Taiwan

Part Names

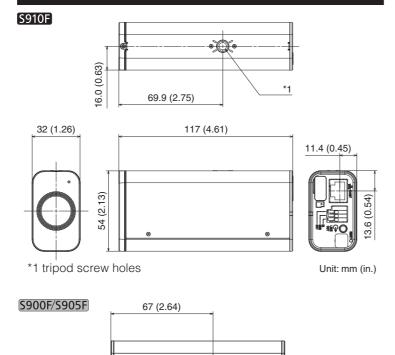


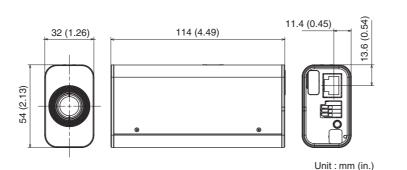
- 1. Mounting Screw Hole (a 1/4-20 UNC mounting screw less than 5.5 mm (0.22 in.) in length will fit the screw hole)
- 2. Microphones **S910F**
- 3. Lens

S910F S900F/S905F

- 4. Memory card slot cover
- 5. 100Base-TX LAN connector
- 6. External device I/O terminal
- 7. Audio output terminal
- 8. Reset switch (please refer to the "Operation Guide")
- 10. Audio input terminal

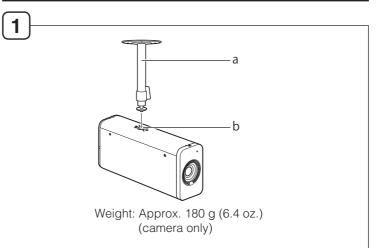
External Dimensions





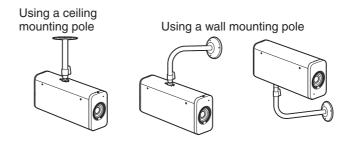
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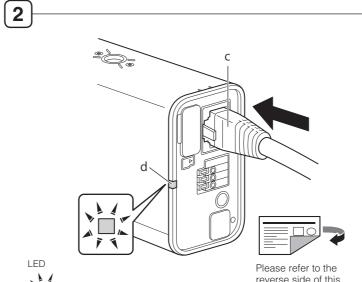
Installing the Camera



- a. Mounting pole
- b. Mounting screw hole

Example installations





When powered on, during reboot during normal use

: When [Turn Off] is selected (please refer to the "Operation Guide")

c. LAN cable d. LED

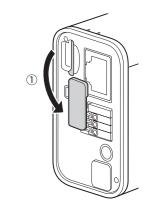
3

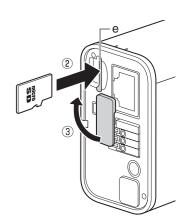
Set the camera angle

Please manually adjust the camera angle while checking the video on a computer (please refer to the "Operation Guide").

guide for details.

If Using a Memory Card





e. Memory Card Slot

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



Important

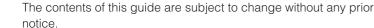
Insert a memory card before installing the camera.

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



Specifications

Please refer to the "Specifications" for specifications not listed below.

Camera

Lens

S910F 3.5x optical zoom (4x digital zoom) lens with auto focus

\$900F/\$905F Fixed focal length lens (4x digital zoom) **S910F** For 16:9 aspect ratios

Viewing Angle Horizontal: 78.6° (W) – 20.8° (T) Vertical: 40.9° (W) - 11.6° (T)

> For 4:3 aspect ratios Horizontal: 55.9° (W) – 15.5° (T)

Vertical: 40.9° (W) - 11.6° (T) \$900F/\$905F For 16:9 aspect ratios Horizontal: 96.0°

Vertical: 60.5°

For 4:3 aspect ratios Horizontal: 77 0° Vertical: 60.5°

Interface

Network Terminal*

LAN x 1 (RJ45, 100Base-TX (auto/fullduplex/half-duplex))

Use a category 5 or better LAN cable, 100 m (328 ft.) or less in length. S910F Audio Input Internal microphone

Audio Input Terminal S900F/S905F Φ3.5 mm (Φ0.14 in.) mini-jack connector (common for LINE IN & MIC IN) (monaural)

Audio Output Terminal \$910F \, \phi_3.5 \, mm (\phi_0.14 \, in.) \, mini-jack \, connector (LINE OUT) (monaural)

Input x 1, Output x 1

microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible.

Others

Memory Card

Operating Environment

External Device I/O Terminal

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

Humidity: 5% - 85% (without condensation) Temperature: -30°C - +60°C (-22°F -Storage Environment

Humidity: 5% – 90% (without condensation) Installation With use of mounting pole (third party

product)

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

Power Consumption **S910F** Max. 4.8 W

S900F/S905F

Max. 4.3 W

Class 2 power sourcing equipment (requests 7.0 W)

Approx. 180 g (6.4 oz.) (camera only)

Connecting the Camera

Power Supply

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



Weiaht

- · 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.

1 Important

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

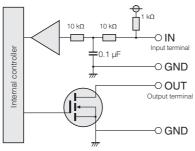
Adaptive wiring for external device cables Rating Range: (same for contact input and output) Solid wire/Stranded wire AWG: No. 26 – 20

Stripped cable length should be approximately 11 mm (0.43 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
- 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 \$900F/\$905F

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

Audio Output Terminal LINE OUT (monaural output) 59103

Connect the camera to a speaker with an amplifier. Audio can be sent to the speaker from the Viewer.

Output terminal: \$3.5 mm (\$0.14 in.) mini jack (monaural) Output level: Max. 1 Vp-p

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 mounting pole, 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.

Failure to do so may result in the camera falling or other accidents.

• 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.

- Do not install on an unstable surface.
- 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 malfunctions.

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

Important

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 it
- Do not insert foreign objects such as water or metal into
- 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.

CANON INC.

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