



Network Camera

VB-S910F/VB-S900F/VB-S905F
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.

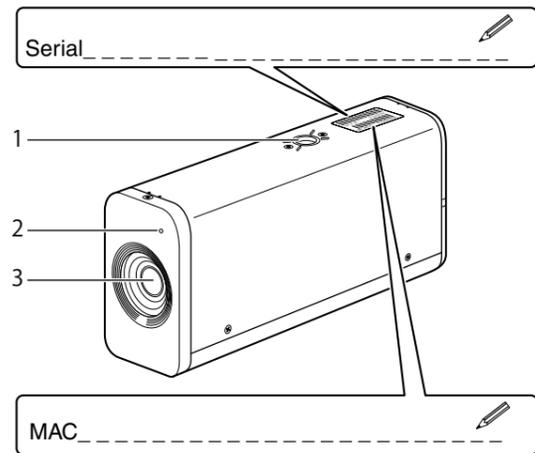
Check Included Items

- Camera
- Warranty Card
- Installation Guide (This document)
- Setup CD-ROM

Symbols Indicating Camera Model

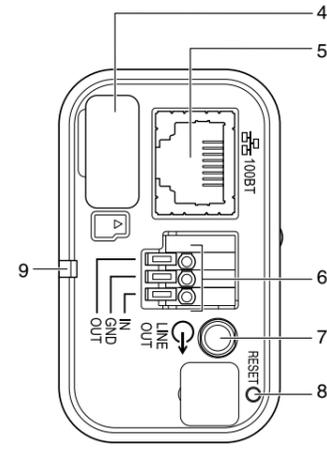
S910F : VB-S910F **S900F/S905F** : VB-S900F/VB-S905F

Part Names

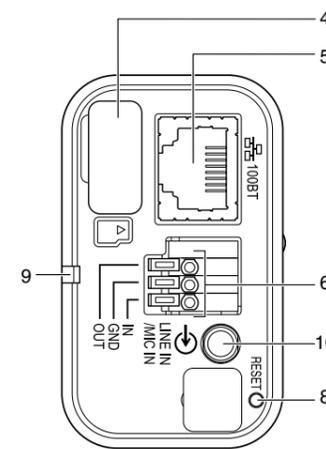


1. Mounting Screw Hole (a 1/4-20 UNC mounting screw less than 5.5 mm (0.22 in.) in length will fit the screw hole)
2. Microphones **S910F**
3. Lens

S910F



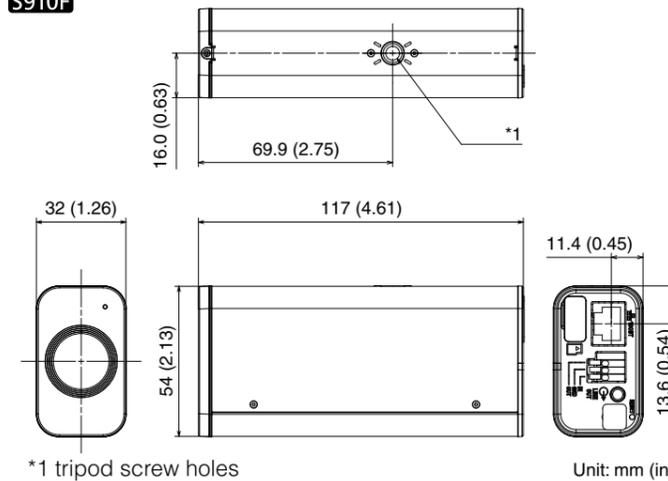
S900F/S905F



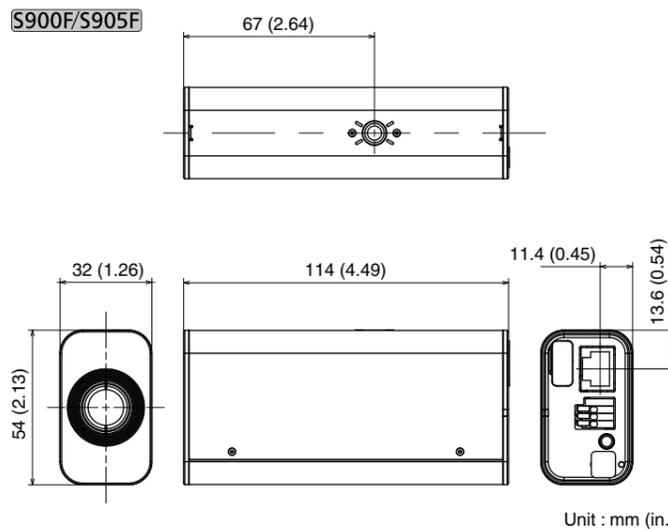
4. Memory card slot cover
5. 100Base-TX LAN connector
6. External device I/O terminal
7. Audio output terminal
8. Reset switch (please refer to the "Operation Guide")
9. LED
10. Audio input terminal

External Dimensions

S910F

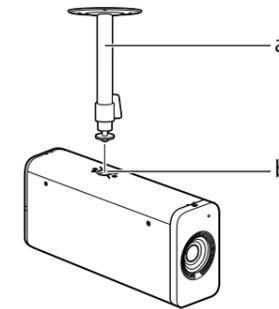


S900F/S905F



Installing the Camera

1

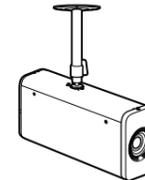


Weight: Approx. 180 g (6.4 oz.)
(camera only)

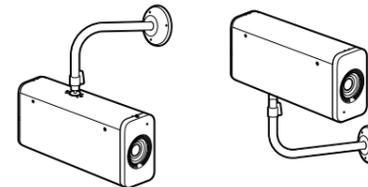
- a. Mounting pole
- b. Mounting screw hole

Example installations

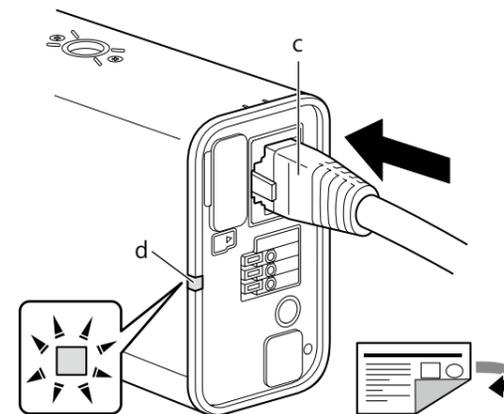
Using a ceiling mounting pole



Using a wall mounting pole



2



- LED
 - When powered on, during reboot, during normal use
 - When [Turn Off] is selected (please refer to the "Operation Guide")

Please refer to the reverse side of this guide for details.

- c. LAN cable
- d. LED

3

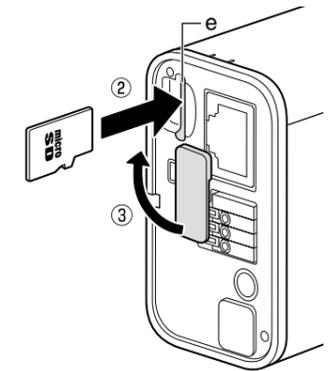
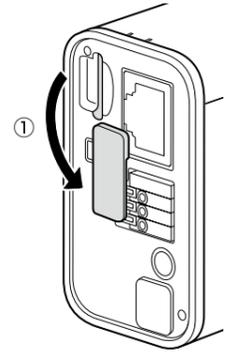
Set the camera angle

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

4

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

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.
- 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 (please refer to the "Operation Guide").

Specifications

Please refer to the installation procedures, “Operation Guide” or “Appendix - Specifications” for specifications not listed below.

Camera

Lens	S910F	3.5x optical (4x digital zoom) zoom lens with auto focus
Viewing Angle	S900F/S905F	Fixed focal length lens (4x digital zoom)
	S910F	For 16:9 aspect ratios 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)
	S900F/S905F	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/full-duplex/half-duplex)) * Use a category 5 or better LAN cable, 100 m (328 ft.) or less in length.
Audio Input	S910F Internal microphone
Audio Input Terminal	S900F/S905F Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural)
Audio Output Terminal (LINE OUT)	S910F Φ3.5 mm (Φ0.14 in.) mini-jack connector (monaural)
External Device I/O Terminal	Input x 1, Output x 1
Memory Card	microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible.

Others

Operating Environment	Temperature: -10°C – +50°C (+14°F – +122°F) Humidity: 5% – 85% (without condensation)
Storage Environment	Temperature: -30°C – +60°C (-22°F – +140°F) Humidity: 5% – 90% (without condensation)
Installation	With use of mounting pole (third party product)
Power Supply	PoE function : PoE power supply via LAN connector (IEEE802.3af compliant)
Power Consumption	S910F Max. 4.8 W S900F/S905F Max. 4.3 W
	– Class 2 power sourcing equipment (requests 7.0 W)
Weight	Approx. 180 g (6.4 oz.) (camera only)

Connecting the Camera

Power Supply

Please refer to “Specifications” > “Others” > “Power Supply”.

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 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.

Important

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

External Device Output Terminals (OUT)

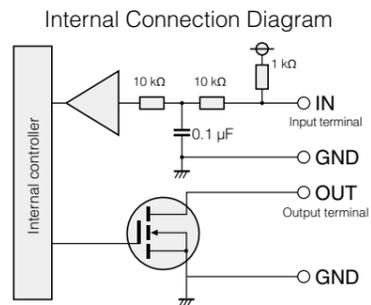
The external device output terminal consists of an OUT terminal and a GND terminal. Controls from the viewer can be used to open and close the circuit between the terminals. A MOSFET device is used for the output terminal.

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
Cable strip should be approx. 11 mm (0.43 in.).

Note

- 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.



Audio Input Terminals **S900F/S905F**

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 (please refer to the “Operation Guide”). LINE IN is selected by default.

- Dynamic MIC IN
Input impedance: 20 kΩ – 40 kΩ
- Condenser MIC IN
Input impedance (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) **S910F**

Connect the camera to a speaker with an amplifier. Audio can be sent to the speaker from the Viewer.
Output terminal: Φ3.5 mm (Φ0.14 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 plant.

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

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

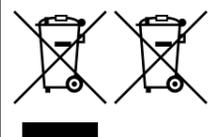
- If you discover defective conditions such as smoke, strange sounds, heat or strange odors, immediately stop using the camera and contact your nearest dealer.

Fire or electric shock may result from continued use of the 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 spray the camera with water, or otherwise make it wet.
- 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 benzene when cleaning the camera.

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

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.

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

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