# Panasonic

## Installation Guide

Included Installation Instructions

### **Network Camera**



- · Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.
- Before reading this manual, be sure to read the Important Information(included in the CD-ROM). · For information about how to perform the settings and how to operate the camera, refer to the
- Operating Instructions on the provided CD-ROM. The model number is abbreviated in some descriptions in this manual.
- WV-X6531NRF and WV-X6531NEG are the same model as the Network Camera WV-X6531N. For Europe and other countries:

For U.S. and Canada:

Panasonic Corporation of North America Panasonic Corporation Two Riverfront Plaza, Newark, NJ 07102-5490 http://business.panasonic.com

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada 1-877-495-0580 https://www.panasonic.com/ca/

http://www.panasonic.com Panasonic Corporation

Osaka, Japan Authorised Representative in EU: Panasonic Testing Centre

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### Important safety instructions

- 1) Read these instructions
- Keep these instructions.
- Heed all warnings
- 4) Follow all instructions.
- 5) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 6) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- 7) Only use attachments/accessories specified by the manufacturer.
- 8) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 10) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Troubleshooting

Before requesting service, refer to the Important Information (included in the CD-ROM) and "Troubleshooting" in the Operating Instructions (included in the CD-ROM) and confirm the trouble.

## **Open Source Software**

- This product contains open source software licensed under GPL (GNU General Public License), LGPL (GNU Lesser General Public License), etc.
- Customers can duplicate, distribute and modify the source code of the software under license of GPL and/ or LGPL. Refer to the "readme.txt" file on the provided CD-ROM for further information about open source software
- licenses and the source code.
- Please note that Panasonic shall not respond to any inquiries regarding the contents of the source code.

### WARNING:

- · To prevent injury, this apparatus must be securely attached to the wall/ceiling in accordance with the installation instructions
- All work related to the installation of this product should be made by qualified service personnel
- or system installers. The installation shall be carried out in accor-
- dance with all applicable installation rules. The connections should comply with local elec-
- trical code • This equipment is compliant with Class A of CISPR 32. In a residential environment this
- equipment may cause radio interference. Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunlight, fire or the like.

### CAUTION:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate
- the equipment. The network camera is only intended for a connection to an ethernet or PoE+ network without routing to the outside plant.

For Canada CAN ICES-3(A)/NMB-3(A)

#### : Direct current symbol

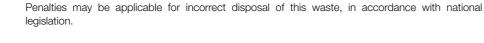
 $\sim$  : Alternating current symbol

#### **Disposal of Old Equipment and Batteries** Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment. For more information about collection and recycling, please contact your local municipality.





Note for the battery symbol (bottom symbol) This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

## About notations

The following notations are used when describing the functions limited for specified models. The functions without the notations are supported by all models

- (X6531) : The functions with this notation are available when using the model WV-X6531N.
- (X6511) : The functions with this notation are available when using the model WV-X6511N.
- (\$6530) :The functions with this notation are available when using the model WV-S6530N.

### About the user manuals

Product documentation is composed of the following documents.

- Installation Guide (this document and additional leaflet): Explains installation, mounting, cable connections, and network connections. This manual uses the WV-X6531N as an example in the explanations. • Important Information (included in the CD-ROM): Provides basic information about the product.
- · Operating Instructions (included in the CD-ROM): Explains how to perform the settings and how to operate this camera.

Adobe<sup>®</sup> Reader<sup>®</sup> is required to read these operating instructions on the provided CD-ROM. When the Adobe Reader is not installed on the PC, download the latest Adobe Reader from the Adobe web site and install it.

The external appearance and other parts shown in this manual may differ from the actual product within the scope that will not interfere with normal use due to improvement of the product.

### Standard accessories

Installation Guide (this document and additional leaflet) 1 pc. IMPORTANT SAFETY INSTRUCTIONS 1 pc.	Warranty card*1         1 pc.           CD-ROM*2         1 pc.           Code label*3         1 pc.	
<ul> <li>*1 Excluding WV-X6531NRF and WV-X6531NEG.</li> <li>*2 The CD-ROM contains the operating instructions and different kinds of tool software programs.</li> <li>*3 This label may be required for network management. Use caution not to lose this label.</li> </ul>		
The following parts are used during installation are	and uron	

he following parts are used during installation pro	cedules.
able cover1 pc.	8P alarm cable 1 pc.
ttachment pipe1 pc.	24 V AC power supply connector kit1 set
ront/rear sunshields1 set	(Power supply connector housing: 1 pc., Contact: 3 pcs.)
ront/rear sunshields fixing screw	Hexagon screw (M5) <sup>*4</sup> 5 pcs.
	(of them, 1 for spare)
/aterproof tape1 pc.	Rain wash coating caution label1 pc.
J45 waterproof connector cover 1 pc.	
J45 waterproof connector cap 1 pc.	

\*4 The screws are necessary when installing the camera on a separately sold mount bracket.



### For U.S.A.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Bules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The model number and serial number of this product may be found on the surface of the unit. You should note the model number and serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No.	
Serial No.	

,	-	_	

\*2

mount bracket.

IMPORTANT:

Use the ceiling mount bracket (WV-Q121B<sup>\*2</sup>).

Use the wall mount bracket (WV-Q122A\*2).

The minimum pull-out strength is the value per screw.

and camera, read the operating instructions of each

• Prepare four mounting screws (M10) to be mount-

location that the camera will be mounted to. In this

case, wood screws and nails should not be used.

• If the mounting location such as plaster board is

Select screws according to the material of the

For details on procedure for attaching mount bracket

BWhen installing the camera on a wall

ed on ceiling and wall separately.

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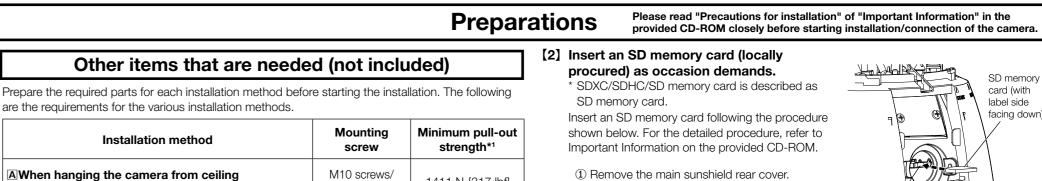
The instal

Step1

Mount bracket

Attachment pipe (accessory

Cable cover1 pc.	8P alarm cable 1 pc.
Attachment pipe1 pc.	24 V AC power supply connector kit1 set
Front/rear sunshields1 set	(Power supply connector housing: 1 pc., Contact: 3 pcs.)
Front/rear sunshields fixing screw	Hexagon screw (M5) <sup>*4</sup> 5 pcs.
	(of them, 1 for spare)
Waterproof tape1 pc.	Rain wash coating caution label1 pc.
RJ45 waterproof connector cover	
RJ45 waterproof connector cap1 pc.	



M10 screws/

4pcs.

M10 screws/

4pcs.

WV-Q121B

1411 N {317 lbf}

823 N {185 lbf}

WV-Q122A

B

- 2 Loosen two locking screws of water-resistant cap and pull the water-resistant cap and toward you.
- ③ Insert an SD memory card into the SD memory card slot.
- (4) Attach water-resistant cap and sunshield rear cover to the original position in order. Recommended tightening torque of the waterresistant cap locking screws:

0.69 N·m {0.51 lbf·ft}

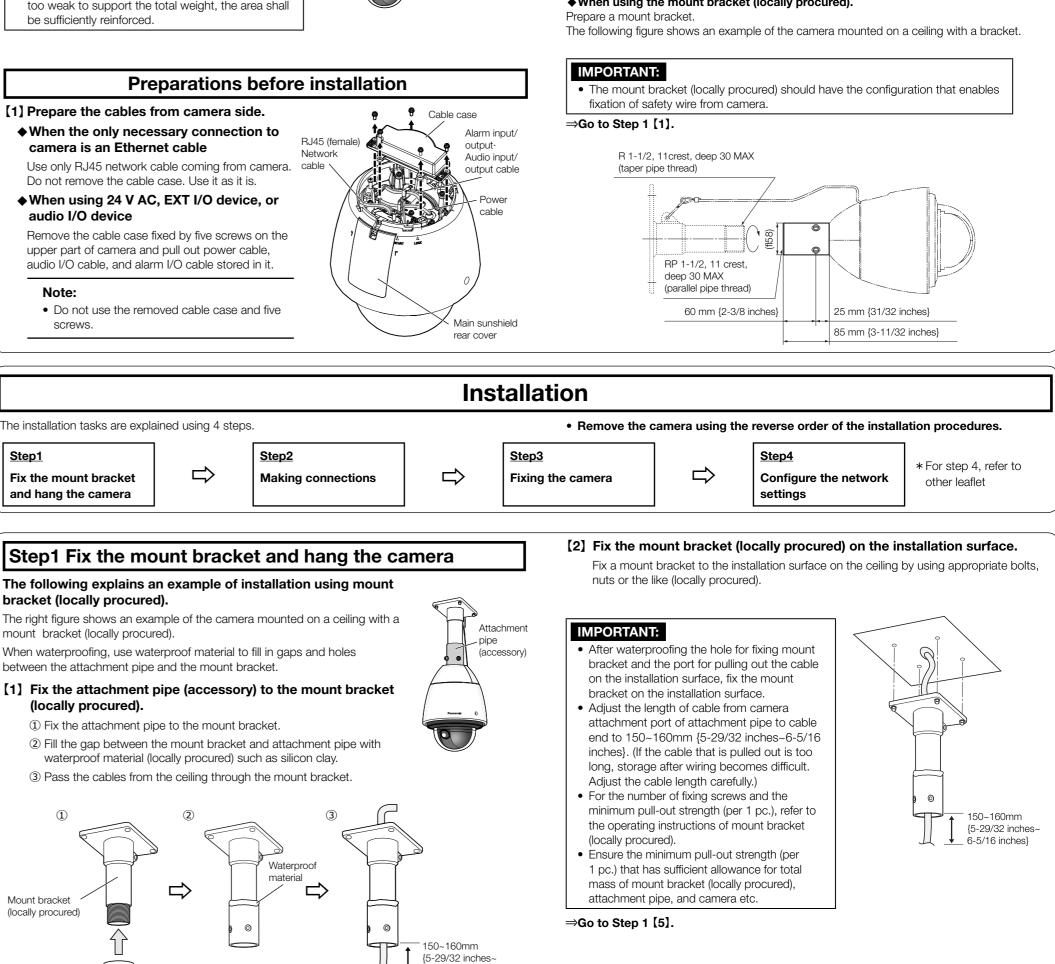
SD memor

Water-resistant cap

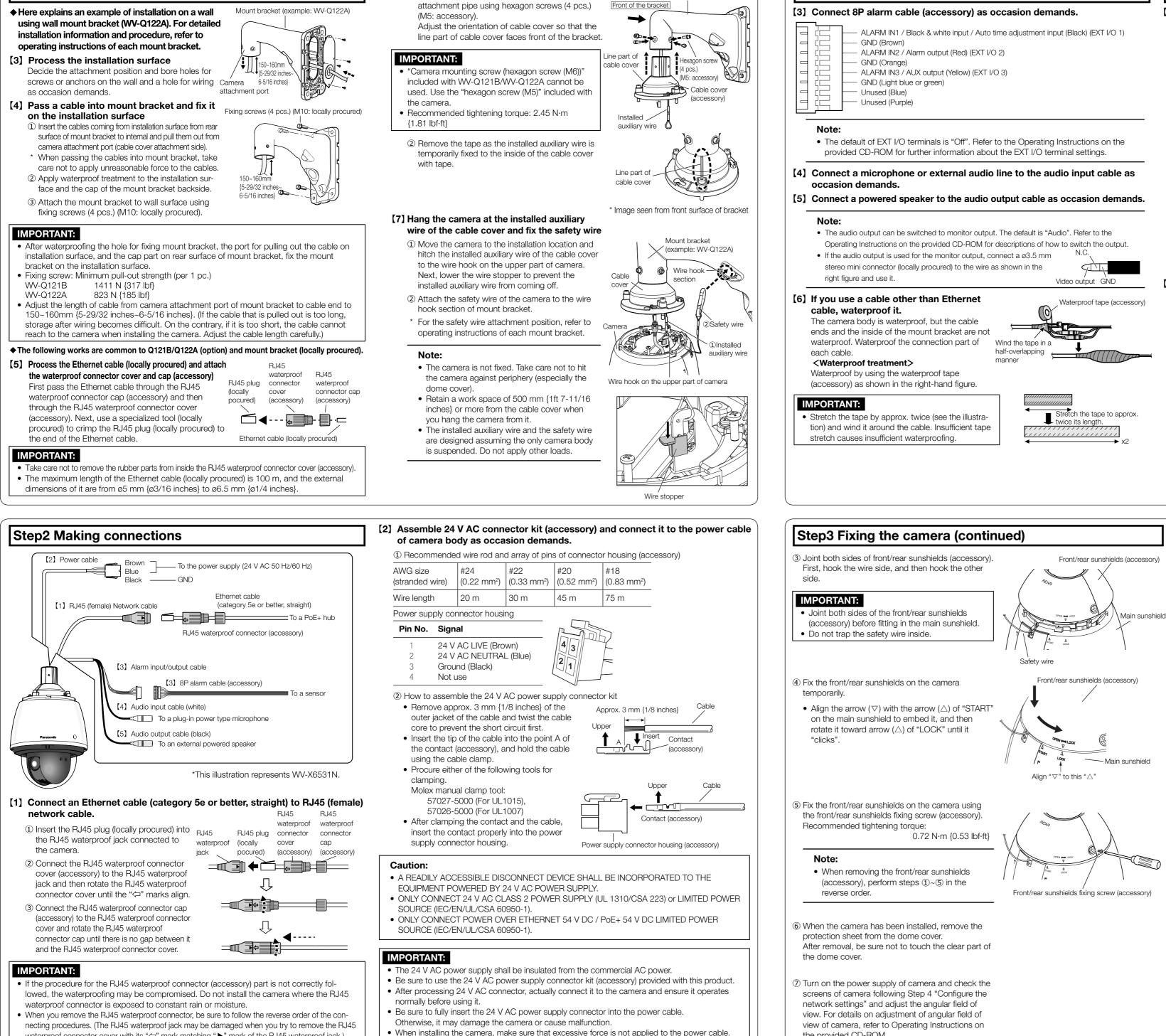
card slot

#### When using Q121B (option) or Q122A (option) $\Rightarrow$ Go to Step 1 [3].

#### When using the mount bracket (locally procured).



6-5/16 inches}



[6] Attach the cable cover (accessory)

① Fix the cable cover to WV-Q121B/WV-Q122A or

waterproof connector cover with its "⇐" mark matching "▶" mark of the RJ45 waterproof jack.)

Step1 Fix the mount bracket and hang the camera (continued)

the provided CD-ROM.

## Step2 Making connections (continued)

Mount bracket

(example: WV-Q122A)

## Step3 Fixing the camera

### [1] Attach the camera to the cable cover (accessory).

- ① Make the Panasonic logo mark on the camera body face the front side and the main sunshield rear cover (where SD memory Cable cover card is inserted) face the mount bracket side. (accessory) Insert the positioning pins on the upper part Fitting hole of
- of camera into cable cover attachment hole. the cable cover 3 points ③ Rotate the camera part in a clockwise
- direction when looking from the bottom and Positioning confirm it is temporarily fixed.
- ④ Tighten it securely with 3 special screws (fixing screws) of the cable cover.

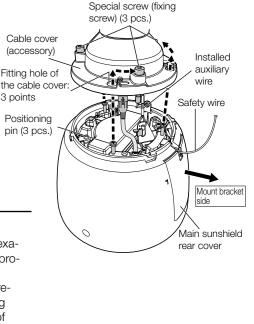
Recommended tightening torque: 2.45 N·m {1.81 lbf·ft}

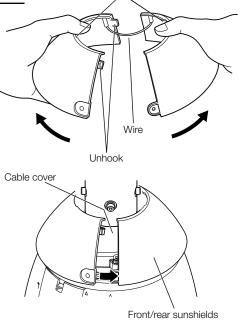
### Note:

- Special screw (fixing screw): As these are hexagon screws, use a hexagon wrench (locally procured) "for M6".
- · Bend it to the inside of the cable cover to prevent the installed auxiliary wire and the wiring section from being caught in the periphery of the cable cover.

#### [2] Attach the front/rear sunshields (accessory) to the camera.

- ① Put a finger on the dent of front/rear sunshields and unhook both sides to split it. One side is fixed with wire to prevent loss.
- (2) Locate the front/rear sunshields to the position that covers the cable cover.





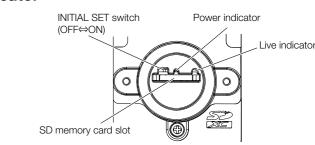
(accessory)

### Precautions

• Attach the "Rain wash coating caution label" carried by the camera to the surface of the camera (Refer to the illustration below).



## Live indicator



### The live indicator will light or blink as follows depending on the camera status.

Camera ope	eration status	Live indicator status	
When the power is	Before the network connection is established	Lights orange $\rightarrow$ Lights off $\rightarrow$ Blinks orange $\rightarrow$ Lights orange	
turned on	When the network connection is established	Lights orange $\rightarrow$ Lights off $\rightarrow$ Blinks orange $\rightarrow$ Blinks green $\rightarrow$ Lights green	
During the stan	dby or connection (Cable is not connected.)	Lights orange	
During the standby or connection (Cable is connected.)		Lights green	
During the upgrade process		Blinks orange	
Initialization (When the network connection is established)		Lights orange $\rightarrow$ Lights off $\rightarrow$ Blinks orange $\rightarrow$ Lights orange $\rightarrow$ Blinks orange $\rightarrow$ Blinks green $\rightarrow$ Lights green	
Port forwarding error caused by the UPnP function		Blinks orange (in 2 seconds intervals (on for 1 second / off for 1 second))	
Trouble happening on the camera		Blinks red	
Failure in writing data on the SD memory card		Lights red	