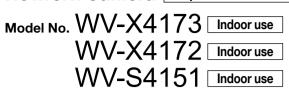
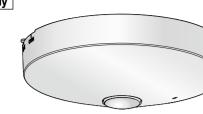
# Panasonic

# Installation Guide

**Included Installation Instructions** 

**Network Camera** For professional use only





WV-X4173

SÏ

XC

About the user manuals	
Product documentation is composed of the following documents.	
• Installation Guide (this document): Provides information about "Precautions", "Precautions for installation" and the installation method.	18193
<ul> <li>Basic Information (in the following website): Provides information about "Precautions for use" and "Detail specifications".</li> </ul>	
<ul> <li>Operating Instructions (in the following website): Explains how to perform the settings and how to operate this camera.</li> </ul>	<u></u>
https://security.panasonic.com/training_support/documentation_database/	
" <control :="" c****="" no="">" used in these documents should be used to search for information</control>	

<Control No.: C^^^^>" used in these documents should be used to search for informa on our support website (https://security.panasonic.com/training\_support/support/info/) and will guide you to the right information.

· Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

- SDXC/ SDHC/ SD memory card is described as SD memory card.
- 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

For Europe and other countries:

Panasonic i-PRO Sensing Solutions Co., Ltd.

\* PGQX2435ZA \*

avs1020-0

Printed in China

Panasonic Corporation

http://www.panasonic.com

### For U.S. and Canada:

Panasonic i-PRO Sensing Solutions Corporation of America 800 Gessner Rd, Suite 700 Houston, TX 77024 https://www.security.us.panasonic.com

Fukuoka, Japan Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada Authorised Representative in EU: 1-877-495-0580 https://www.panasonic.com/ca/ Panasonic Testing Centre Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany

© Panasonic i-PRO Sensing Solutions Co., Ltd. 2020

### **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 authority.
- Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation. 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.

### For U.S.A

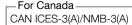
NOTE: This equipment has been tested and found to FCC CAUTION: Changes or modifications not comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated 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.

### For U.S.A.

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.



Méthode d'installation	Vis de fixation recommandée	La capacité de traction minimale requise
Quand la caméra vidéo est directement installée au plafond ou sur le mur.	M4/ 4 él.	196 N {44 lbf}

expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Supplier's Declaration of conformity Trade name : Panasonic Model No. : WV-X4173 / WV-X4172 / WV-S4151 Responsible Party : Panasonic Corporation of North America

Two Riverfront Plaza, Newark, New Jersey 07102-5490

Support Contact : 1-800-528-6747

-For U.S.A. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# Caution:

- be in the same building
- The network camera is only intended for a connection to an ethernet or PoE network without
- routing to the outside plant. This product has no power switch. Be sure to install disconnect devices such as a circuit breaker to shut
- down the main power of power supplying equipment to this product. Only connect 12 V DC Class 2 power supply (UL
- 1310/CSA 223) or limited power source (IEC/EN/UL/ CSA 60950-1 or IEC/EN/UL/CSA 62368-1 Annex Q). X4173 S4151

Before attempting to connect or operate this product, please read these instructions carefully.

# Precautions

### Do not insert any foreign objects.

Fire or electrical shock may be caused if water or any foreign objects, such as metal objects, enter inside the unit. Turn the power off immediately and contact qualified service personnel for service.

Notice:

■ Do not use this product in an inflammable atmosphere.

Failure to observe this may cause an explosion resulting in injury.

### Avoid installing this product in the locations where salt damage occurs or corrosive gas is produced.

Otherwise, the mounting portions will deteriorate and injury or accidents due to a fall of the product may occur. ■ Do not strike or give a strong shock to this product.

Failure to observe this may cause injury or fire.

Keep SD memory cards away from infants and children.

Otherwise, they may swallow the cards by mistake.

In this case, consult a doctor immediately.

Do not hang down from this product or use this product as a pedestal. Failure to observe this may cause injury or accidents

### ■ Do not damage the power cable. X4173 S4151

Do not damage, fabricate, twist, stretch, bundle, or forcibly bend the power cable. Do not place heavy objects on it, and keep it away from heat sources.

Use of a damaged power cable may cause electric shock, short circuit, or fire. Consult the dealer for repair.

■ Do not attempt to disassemble or modify this product.

Failure to observe this may cause fire or electric shock. Consult the dealer for the repair or inspections 

cable or the connected cables during thunder storms. Failure to observe this may cause electric shock.

# Refer installation work to the dealer.

Installation work requires technique and experience. Failure to observe this may cause fire, electric shock, injury, or damage to the product. Be sure to consult the dealer.

Stop the operation immediately when something is wrong with this product.

When smoke goes up from the product, the smell of smoke comes from the product, or the exterior of the product has deteriorated, continued use will cause a fire or fall of the product resulting in injury, or damage to the product. In this case, turn the power off immediately and contact qualified service personnel for service.

## Select an installation area that can support the total weight.

Selecting an inappropriate installation surface may cause this product to fall down or topple over, resulting in injury or accidents. Installation work shall be started after sufficient reinforcement.

## Periodic inspections shall be conducted.

Rust on the metal parts or screws may cause a fall of the product resulting in injury or accidents. Consult the dealer for the inspections.

### The exclusively designed mount bracket shall be used.

Failure to observe this may cause a drop resulting in injury or accidents.

Use the exclusively designed mount bracket for installation.

The screws and bolts must be tightened to the specified torque. Failure to observe this may cause a drop resulting in injury or accidents.

Turn the power off when do wiring of this product.

Failure to observe this may cause electric shock. In addition, short circuit or wrong wiring may cause fire.

■ Install this product in a location high enough to avoid people and objects from bumping the

product. Failure to observe this may cause injury.

- The measures of protection against a fall of this product shall be taken. (in the case of
- installing without using attachment plate (accessory)). X4173 S4151 Failure to observe this may cause a drop resulting in injury or accidents. Be sure to install the safety wire.

■ Do not install this product in locations subject to vibration.

- Loosening of mounting screws or bolts may cause a fall of the product resulting in injury or accidents.
- Correctly perform all wiring. Short circuits in the wiring or incorrect wiring may cause fire or electrical shock.
- Install the product securely on a wall or a ceiling in accordance with the installation instructions. Failure to observe this may cause injury or accidents
- Do not rub the edges of metal parts with your hand. Failure to observe this may cause injury.
- Do not touch the metal part of the bottom side of the product.

The metal part of the bottom side may become hot while the product is in use. Direct skin contact with hightemperature parts of the product may cause burns.

Turn the power off when cleaning this product.

Failure to observe this may cause injury.

# 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.

- X4173 The functions with this notation are available when using the model WV-X4173 (9-megapixel model).
- X4172 The functions with this notation are available when using the model WV-X4172 (9-megapixel model).
- S4151 The functions with this notation are available when using the model WV-S4151 (5-megapixel model).

• The DC power supply connected to the camera must • This product is not suitable for use in locations where children are likely to be present

- Do not install this product in locations where ordinary persons can easily reach.
- This product is a professional equipment. • For information about screws and other parts required for installation, refer to the corresponding section of this document.

: Direct current symbol

### 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. For details concerning licensing and source code of open source software, click "Click here for OSS information" on "Support" page of the setup menu of this product and read the displayed content.

• Please note that we shall not respond to any inquiries regarding the contents of the source code.

### Copyright

Except for open source software licensed under GPL/LGPL and so on, distributing, copying, disassembling, reverse compiling and reverse engineering of the software provided with this product are all expressly prohibited. In addition, exporting any software provided with this product violating export laws is prohibited.

### Trademarks and registered trademarks

• Microsoft, Windows, Windows Media, Internet Explorer, Microsoft Edge, and ActiveX are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Intel and Intel Core are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. • Adobe, Acrobat, and Reader are either registered trademarks or trademarks of Adobe in the United States and/or other countries.

• SDXC Logo is a trademark of SD-3C, LLC.

• iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

• Android and Google Chrome are trademark of Google LLC.

• Firefox is a trademark of the Mozilla Foundation in the US and other countries.

• The word "QR Code" is a registered trademark of DENSO WAVE INCORPORATED in Japan and other countries. • All other trademarks identified herein are the property of their respective owners.

### Precautions for installation

Panasonic i-PRO Sensing Solutions Co., Ltd. assumes no responsibility for injuries or property damage esulting from failures arising out of improper installation or operation inconsistent with this documentation

### In order to prevent injury, the product must be securely mounted to a ceiling or wall according to Installation Guide.

### Installation area for this product

Select an appropriate place for the installation area (such as a strong wall or ceiling) in your particular environment. • Make sure that the installation area is strong enough to hold this product, such as a concrete ceiling.

 Install the camera in the foundation area of the architecture or where sufficient strength is assured. • Do not mount the product on a plaster board or a wooden section because they are too weak. If the product is

unavoidably mounted on such a section, the section shall be sufficiently reinforced.

### This camera is designed to be used indoors

This product is not operable outdoors. Do not expose this camera to direct sunlight for hours and do not install the product near a heater or an air conditioner. Otherwise, it may cause deformation, discoloration and malfunction. Keep this camera away from water and moisture.

### ■ Do not place this product in the following places

• Locations where a chemical agent is used such as a swimming pool

Locations subject to moisture or oil smoke such as a kitchen

- . Locations that have a specific environment that is subject to an inflammable atmosphere or solvents
- Locations where a radiation, an X-ray, a strong radio wave or a strong magnetic field is generated

. Locations near coasts directly subjected to sea breezes, or locations subject to corrosive gases such as from hot springs, volcanic regions, etc.

• Locations where the temperature is not within the specified range

- Locations subject to vibrations, such as on vehicles, marine vessels, or above product lines (This product is not designed for on-vehicle use.)
- Locations where it may get directly wet from rain or water splash (including under the eaves, etc.)

Locations subject to moisture or dust

• Locations subject to sudden changes in temperature such as near air discharge vents of air conditioners or air circulation inlet doors

• Locations near rubber products (packing, rubber feet, etc.)

### Screw tightening

Do not use an impact driver. Use of an impact driver may damage the screws or cause tightening excessively. About reflection of light from outside or IR light

### A ghost may appear on the screen depending on the incident angle of external light.

In the case of using the IR light, installation of a camera near a wall may cause reflection of infrared rays resulting in a

part of the screen or the entire screen turning whitish Refer to our support website <Control No.: C0109> for image examples and measures to take.

Protection from lightning

When cables are used outdoors, there is a chance that they may be affected by lightning. In such a case, install a lightning arrestor close to the camera, and make the length of the network cable between the camera and lightning arrestor as short as possible to prevent the camera from being affected by lightning.

### When noise disturbance may happen

Noise may appear in video or audio near a strong electric field from a TV or radio antenna, motors and transformers, or a strong electric field/magnetic field from a power line (lamp line) of AC100 V or more. Conduct the power distribution work to keep 1 m {3.28 feet} away from them or conduct the electric conduit work using metal pipes.

(Be sure to make ground connection of the metal pipes.)

# Make sure to remove this product if it will no longer be used.

# ■ This product has no power switch.

When turning off the power, disconnect the power supply from the 12 V DC power supply X4173 \$4151 of the PoE device.

### About the battery

A battery is installed inside the camera. Do not leave the battery exposed in environments of excessive heat as a result of sunlight or fire.

### Equipment classification and power source indication label

Refer to the indication label on the bottom side of this unit for the equipment classification, power source, and other

## Troubleshooting

information.

the trouble.

Before requesting service, refer to "Troubleshooting" of Basic Information and Operating Instructions. Then, confirm

Power source *1:	<b>X4173 S4151</b> DC 12 V		
	PoE (IEEE802.3af compliant)		
Power consumption *1:	X4173		
	DC 12 V: 560 mA/Approx. 6.7 W		
	PoE DC 48 V: 150 mA/Approx. 7.2 W (	Class 0 device)	
	X4172		
	PoE DC 48 V: 150 mA/Approx. 7.2 W (	Class U device)	
	<b>S4151</b> DC 12 V: 400 mA/Approx. 4.8 W		
	PoE DC 48 V: 110 mA/Approx. 5.3 W	(Class 2 device)	
Operating environment	X4173 S4151		
Ambient operating temperature:	–10 °C to +50 °C {14 °F to 122 °F}		
Ambient operating humidity:	10 % to 90 % (no condensation)		
	X4172		
	0 °C to 40 °C {32 °F to 104 °F}		
	10 % to 90 % (no condensation)		
Storage environment Storage temperature:	–30 °C to +60 °C {–22 °F to +140 °F}		
Storage temperature. Storage humidity:	10 % to 95 % (no condensation)		
Monitor output *2	X4173 \$4151		
(for adjustment):	VBS: 1.0 V [p-p]/75 Ω, composite, ø3.5		
	An NTSC or PAL signal can be ou to select NTSC or PAL signal).	itputted from camera (use softwar	
EXT I/O terminals:			
	<b>X4173 S4151</b> ALARM IN1		
	(Alarm input 1/Auto time adjustment ing	out): x1	
	ALARM IN2 (Alarm input 2/ ALARM OU ALARM IN3 (Alarm input 3/ AUX OUT):	川): x1 x1	
Built-in microphone:		A1	
	X4173 S4151 Nondirectional electret condenser micro	nhone	
Audio input:			
in a second second	Ø3.5 mm stereo mini jack		
For microphone input:	Recommended applicable microphone		
	(Sensitivity of microphone: Input impedance:	-48 dB±3 dB (0 dB=1 V/Pa, 1 kH: Approx. 2 kΩ (unbalanced)	
	Supply voltage:	2.5 V ±0.5 V	
For line input:		Approx. –10 dBV	
Audio output *2:	ø3.5 mm stereo mini jack (Audio output Output impedance:	t is monaural.) Approx. 600 Ω (unbalanced)	
	Output level:	-20 dBV	
Dimensions:	X4173 X4172		
	ø150 mm × 49.5 mm (H) {ø5-29/32 inc	thes $\times$ 1-15/16 inches (H)}	
	S4151		
	ø150 mm × 50.5 mm (H) {ø5-29/32 inc	hes × 2 inches (H)}	

Mass: X4173 Approx. 420 g {0.93 lbs} VA172 Approx 400 g 10.88 lbs

Finish:	Main body: ABS resin, i-PRO white
	<b>S4151</b> Approx. 390 g {0.86 lbs}
	A4112 Applox. 400 g (0.00 lb3)

\*1 Refer to our support website <Control No.: C0106> for further information about Power source and Power

\*2 The audio output can be switched to the monitor output. Refer to the Operating Instructions on the our

### Optional accessories<sup>\*1</sup>

### <i-PRO white brackets>

\*1 Refer to our support website <Control No.: C0501> for other optional accessories that can be installed.

WV-QWL500-W

Standard accessories				
Installation Guide (this document)	Warranty card Code label*1 t. Use caution not to lo			
The following parts are used during installation pro	ocedures.			
Attachment plate1 pc. Template A1 sheet	Cable tie X4173	S4151		
Audio cable X4173 S4151 1 pc.	Safety wire lug X41	73 S4	<b>4151</b> 1 pc	
Power cord plug*2 X4173 S41511 pc.	Safety wire X4173	S4151	<b>)</b> 1 pc	
EXT I/O terminal plug*2 X4173 S4151 1 pc.	Washer X4173	S4151	1 pc	
Cable for easy kitting <sup>*3</sup> 1 pc.	Spring washer X41	73 S4	<b>151</b> 1 pc	
<ul> <li>*2 The power cord plug and EXT I/O terminal plug are</li> <li>*3 The cable for easy kitting is attached to the camera</li> <li>Other items that are needed (not includ)</li> </ul>		a.		
Fixing screw				
Installation method		mmended crew <sup>*1</sup>	Minimum pull-out strength <sup>*2</sup>	
Junction box : Mount the camera on the two-gang using the attachment plate		1 000	106 N (44 lbf)	
Directly mount : Directly mount the camera onto the using the attachment plate	ceiling or wall	4 pcs.	196 N {44 lbf}	
	Refe	r to the Ins	tallation Guide for	

each bracket

Tools

consumption information

support web site for descriptions of how to switch the output.

# Corner mount bracket: WV-Q105A

Ceiling Mount Bracket (ISO) WV-QCL100-W

### Wall Mount Bracket: Ceiling Mount Bracket (ANSI) WV-QCL101-W

# Standard accessories

Refer to the Installation Guide for When mounting the camera using the optional bracket \*1 Select screws according to the material of the location that the camera will be mounted to. In this case, wood screws and nails should not be used \*2 For information about the minimum pull-out strength, refer to our support website <Control No.: C0120>. • RJ45plug, Ethernet cable (category 5e or better, straight, all 4 pairs (8 pins))

• As necessary, audio input cable, audio output cable, alarm I/O cables, power supply cable

