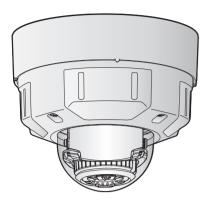


Installation Guide

Included Installation Instructions

Network Camera

Model No. WV-S2531LTN / WV-S2531LN WV-S2511LN





WV-S2531LN

- Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.
- For information about the basic description of this product, refer to the Important Information on the provided 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.

For U.S. and Canada:

i-PRO Americas Inc. https://www.i-pro.com/

For Europe and other countries:

i-PRO Co., Ltd. Fukuoka, Japan

i-PRO EMEA B.V. UK Branch

https://www.i-pro.com/

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i-PRO EMEA B.V. Laarderhoogtweg 25, 1101 EB Amsterdam, Netherlands

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Important safety instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) 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.



- 9) 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

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 we 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 accordance with all applicable installation rules.
- The connections should comply with local electrical code.
- 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.

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

: Direct current symbol

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

Model No.

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 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

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

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

For Canada

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. Penalties may be applicable for incorrect disposal of this waste, in accordance with national



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.

(\$2531D): The functions with this notation are available when using the model WV-S2531LTN / WV-S2531LN. S2511L :The functions with this notation are available when using the model WV-S2511LN.

About the user manuals

Product documentation is composed of the following documents.

- Installation Guide (this document): Explains installation, mounting, cable connections, and adjusting the field of view. This manual uses the WV-S2511LN 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

Adobe® Reader® 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

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)1 set	CD-ROM*1
IMPORTANT SAFETY INSTRUCTIONS 1 pc.	Code label*2 1 pc.

*1 The CD-ROM contains the operating instructions and different kinds of tool software programs. *2 This label may be required for network management. Use caution not to lose this label.

The following parts are used during installation procedures. Base bracket

Dase Dracket 1 pc.
Attachment plate 1 pc.
Fixing screws for attachment plate
(M4 × 8 mm {5/16 inches})5 pcs.
(of them, 1 for spare)
Template A (for the attachment plate)1 sheet
Template B (for the base bracket)1 sheet
Waterproof tape1 pc.

. 1 pc. RJ45 waterproof connector cover . R.I45 waterproof connector cap. 1 pc. Bit (Hex wrench, screw size 6.35 mm {1/4 inches} T20) 1 pc. 2P power cable 1 pc. 4P alarm cable 1 pc. MONITOR OUT conversion plug. 1 pc. Auxiliary handle **\$2511L**) 1 pc.



Waterproof tape







Auxiliary handle



Preparations

Prepare the required parts for each installation method before starting the installation. The following are the requirements for the various installation methods

IMPORTANT:

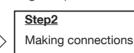
- Procure 4 screws (M4) to secure the attachment plate (accessory) to a ceiling or a wall. • The minimum required pull-out capacity of a single screw or anchor bolt is 196 N {44 lbf} or more when mounting with the installation method [Type 1], [Type 2], or [Type 3] described in the right table.
- Select 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.
- If the mounting location such as plaster board is too weak to support the total weight, the area shall be sufficiently reinforced.
- This product can only be installed indoors when WV-Q105A or WV-Q169A is used to install it on the ceiling.

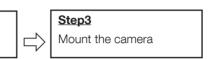
Installation method	Description of installation method		
Mount the camera on the two-gang junction box using the attachment plate (accessory).	【Type 1】		
Directly mount the camera onto the ceiling or wall using the attachment plate (when wiring can be installed in the ceiling or wall).	[Type 2]		
Mount the camera onto the ceiling or wall using the base bracket (accessory) (when conduits are used for wiring, or when there is no space available for wiring in the ceiling or the wall).*	[Type 3]		
Mount the camera using WV-Q105A (Ceiling mount bracket), WV-Q169A (Ceiling mount bracket), WV-Q121B (Ceiling mount bracket), WV-Q122A (Wall mount bracket), or WV-Q124 (Mount bracket).	Refer to each instruction guide of the bracket.		

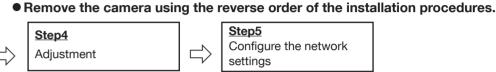
Installation

The installation tasks are explained using 5 steps.

Step1 Fixing the brackets







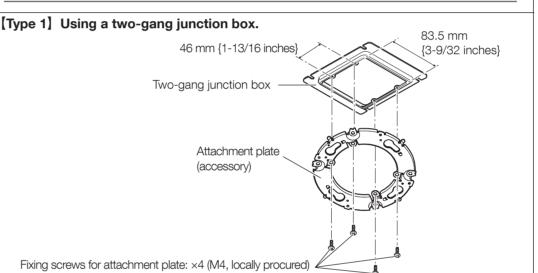
Configure the network settings

Step 1 Fixing the brackets *There are 3 methods to install the camera to a ceiling or wall.

[Common]

Note:

• Attach the attachment plate (accessory) so that the marking (PGYE1054) faces toward the ceiling or wall to be installed.

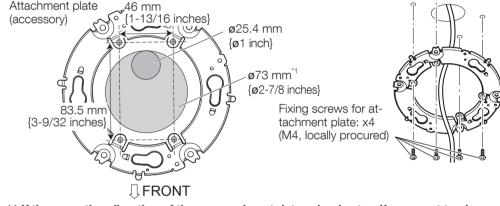


direction of the marker "FRONT⊕" on the camera (see the figure in [4] of "Step 3 Mount the camera") should face the desired direction of the camera. Attachment plate 1-13/16 inches}

[Type 2] Directly mount the camera to the ceiling or wall using the attachment plate.

Align the FRONT direction of the template A (accessory) with the desired direction, and

drill through a 25.4 mm {1 inch} diameter hole to attach the attachment plate. Then, the



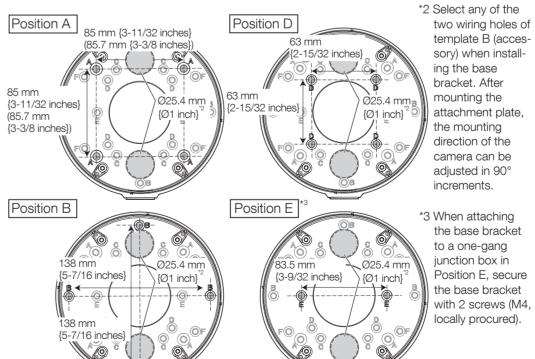
*1 If the mounting direction of the camera is not determined yet or if you want to change the direction of the camera after it has been installed

If you want to be able to change the direction of the camera, drill through a 73 mm {2-7/8 inches} diameter hole in the center. By doing so you can adjust the mounting direction of the camera in 90° increments.

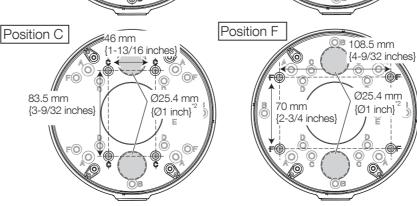
Base bracket (accessory)

[Type 3] Mount the camera to a ceiling or a wall using base bracket (accessory).

①Using the template B (accessory), make screw holes for fixing the base bracket and wiring holes. The base bracket can be fixed in any of the following 6 screwing positions according to ceiling and wall conditions. Match the hole used when installing the camera to any of positions A to F.



increments. *3 When attaching to a one-gang junction box in Position E, secure the base bracket with 2 screws (M4, locally procured).



conduit by using a hexagon wrench (ISO 2936, width across flats S=5 mm {3/16 inches}). The female thread for conduit is compli-Cap for the female ant with ANSI NPSM (parallel pipe thread for the

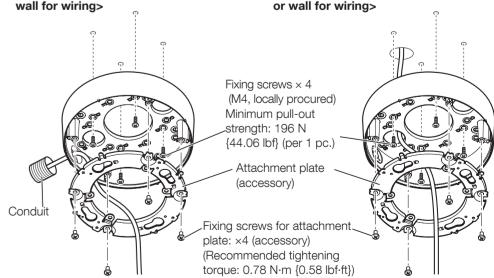
threads) 3/4 or ISO 228-1 (parallel pipe conduit threads) G3/4.

2 When using the conduit on the ceiling or wall for

wiring, remove the cap for the female thread for the

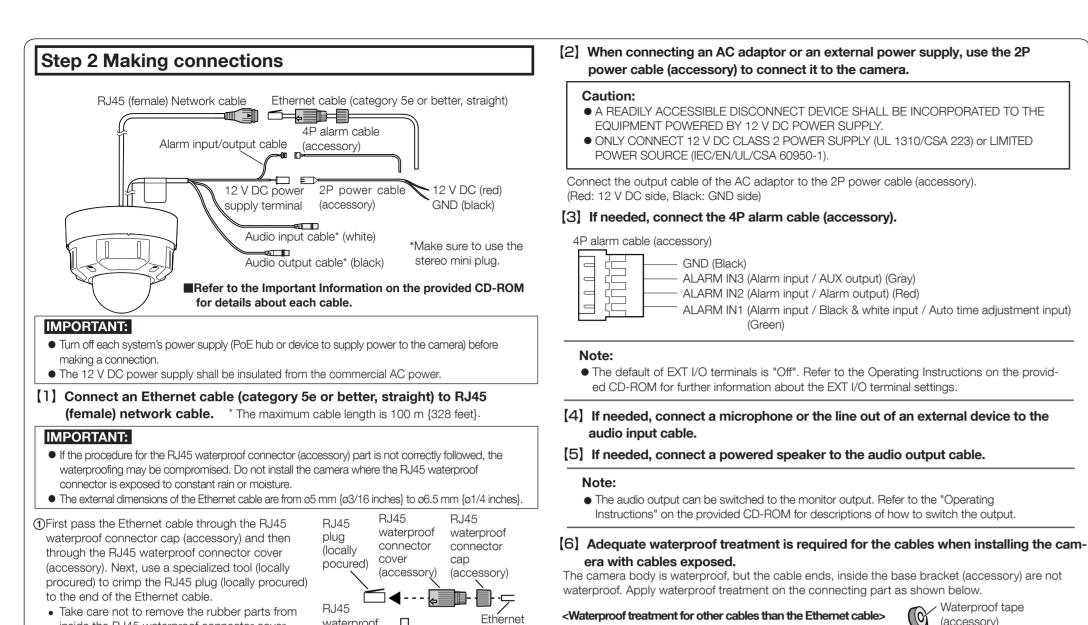
3 Mount the attachment plate and the base bracket.

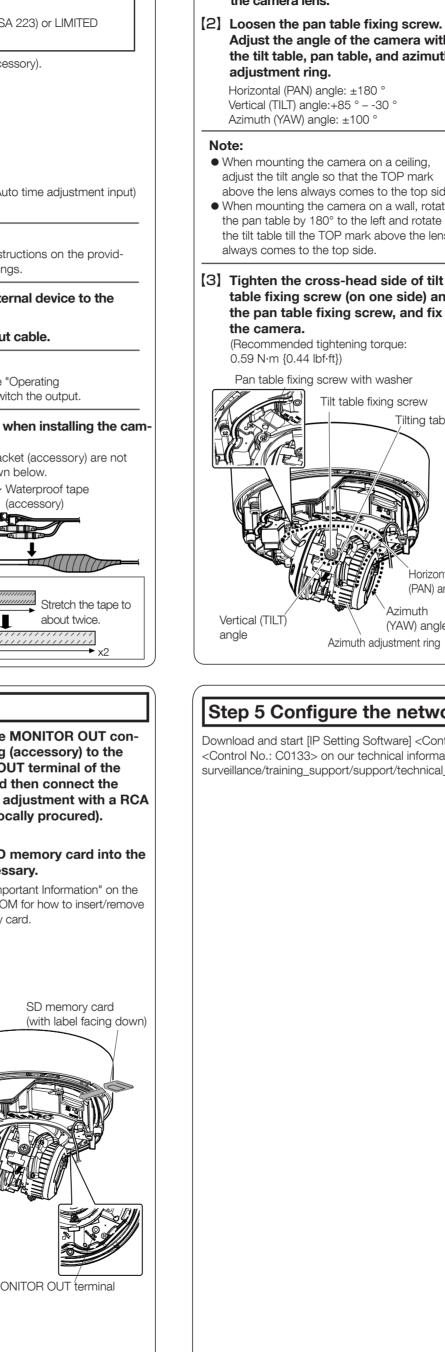
<When using the conduit on the ceiling or</p> <When drilling a hole through the ceiling wall for wiring>

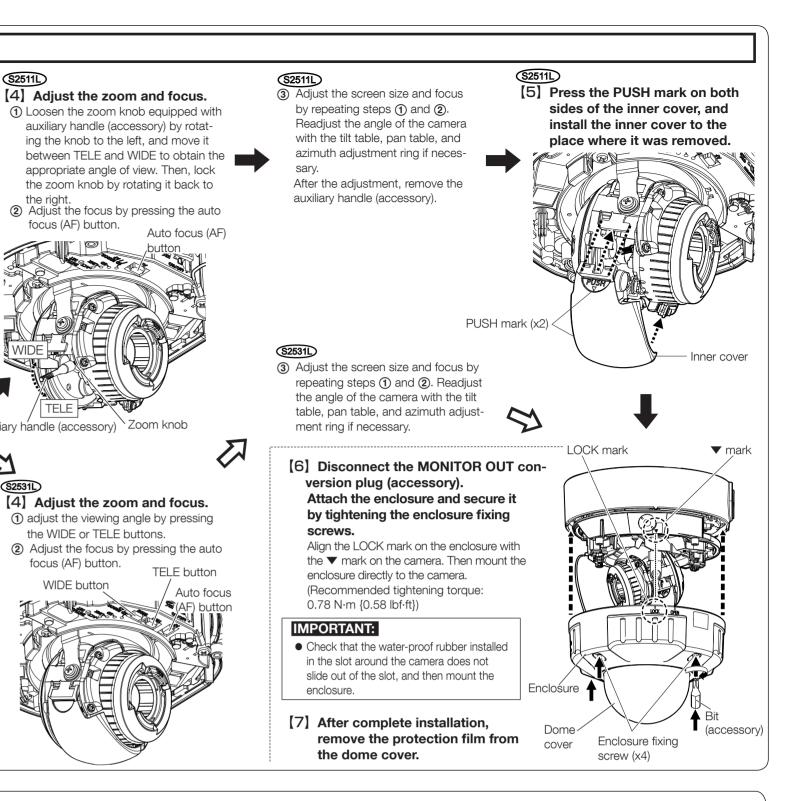


IMPORTANT:

- If open wiring is conducted, be sure to use conduits and run the cables inside the tubes to protect the cables from direct sunlight.
- Installation work shall be such that there is no exposure to water into the architecture through the conduits having been joined...







Step 3 Mount the camera

inside the RJ45 waterproof connector cover.

2 Insert the RJ45 plug into the RJ45 waterproof jack

(3) Connect the RJ45 waterproof connector cover to the

RJ45 waterproof connector cover and rotate the

RJ45 waterproof connector cap until there is no gap

between it and the RJ45 waterproof connector cover.

waterproof connector cover until the "<=" marks align. (4) Connect the RJ45 waterproof connector cap to the

RJ45 waterproof jack and then rotate the RJ45

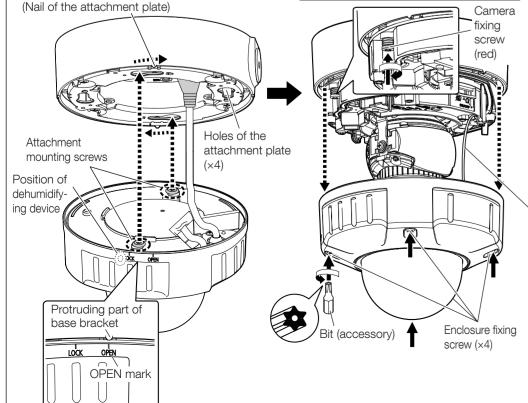
connected to the camera.

[1] Align the OPEN mark of the enclosure side panel with the protruding part of base bracket, insert 2 attachment mounting screws into the attachment plate, and rotate the camera approximately 15°. The LOCK mark is moved to the protruding part of base bracket and the camera is temporarily secured. (When directly attaching the attachment plate to a ceiling or wall, align the OPEN mark to the tab position of the attachment plate.)

IMPORTANT:

 For installations on the wall, to prevent water from accumulating on the surface of the dehumidifying device, install the camera so that the dehumidifying device does not face up. If water accumulates on the surface of the dehumidifying device, it cannot function properly.

Protruding part of base bracket



[2] Loosen 4 enclosure fixing screws using the bit (accessory), and remove the enclosure from the camera.

IMPORTANT:

waterproof

 Enclosure is fixed to the camera body by the installed auxiliary wire, so please do not remove it.

[3] Secure the camera by tightening the camera fixing screws (red).

IMPORTANT:

 Be sure to tighten the camera fixing screw. Failure to observe this may cause camera trouble due to camera falling.

(Recommended tightening torque: 0.78 N·m {0.58 lbf·ft})

[4] Loosen the cross-head side of tilt table fix- [6] Connect the MONITOR OUT coning screw (on one side), and incline the tilt table while keeping the TOP mark on the camera lens head facing the front (i.e. the direction of FRONT mark on the camera).

Apply some waterproof tape (accessory) as

Stretch the tape by approx. twice (see the illustration) and wind it

around the cable. Insufficient tape stretch causes insufficient

shown in the right.

IMPORTANT:

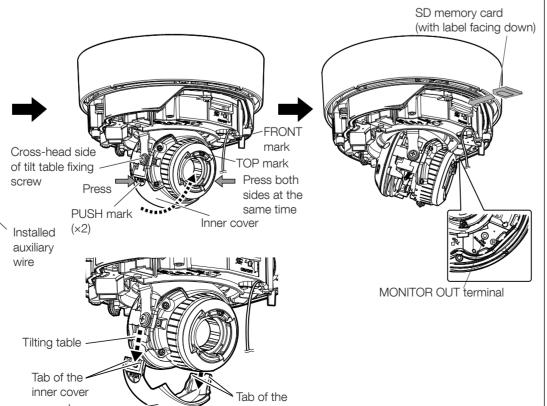
[5] Unhook each piece of four nails provided at both sides of the inner cover from the tilting table by pressing surroundings of the PUSH mark of the cover, and remove the inner cover.

When using WV-S2531LTN / WV-S2531LN, do not remove the inner cover.

version plug (accessory) to the **MONITOR OUT terminal of the** camera, and then connect the monitor for adjustment with a RCA pin cable (locally procured).

[7] Insert an SD memory card into the slot, if necessary.

• Refer to the "Important Information" on the provided CD-ROM for how to insert/remove the SD memory card.



Wind the tape in a half

overlapping manner.

Step 5 Configure the network settings

Step 4 Adjustment

the camera lens.

adjustment ring.

Horizontal (PAN) angle: ±180 °

always comes to the top side.

the camera.

Vertical (TILT)

angle

0.59 N·m {0.44 lbf·ft})

Vertical (TILT) angle:+85 ° - -30 ° Azimuth (YAW) angle: ±100 °

adjust the tilt angle so that the TOP mark

above the lens always comes to the top side.

• When mounting the camera on a wall, rotate

the pan table by 180° to the left and rotate

the tilt table till the TOP mark above the lens

table fixing screw (on one side) and

Tilt table fixing screw

Tilting table

(PAN) angle

Azimuth

Azimuth adjustment ring

(YAW) angle

the pan table fixing screw, and fix

(Recommended tightening torque:

Pan table fixing screw with washer

[1] Turn on power for the camera and

then remove the protection film from

Adjust the angle of the camera with

the tilt table, pan table, and azimuth

\$2511L

focus (AF) button.

Auxiliary handle (accessory)

the WIDE or TELE buttons.

focus (AF) button.

WIDE button

Download and start [IP Setting Software] < Control No.: C0123> or [i-PRO Configuration Tool (iCT)] <Control No.: C0133> on our technical information support site (https://i-pro.com/global/en/ surveillance/training_support/support/technical_information), and connect to the network.