

# Installation Guide

Included Installation Instructions

Network Camera For professional use only Indoor use

Model No. WV-S2236L WV-S2136L WV-S2136



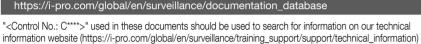


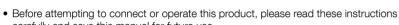
#### About the user manuals

and will guide you to the right information.

Product documentation is composed of the following documents. **Installation Guide (this document):** Provides information about "Precautions", "Precautions for installation" and the installation method.

 Basic Information (Refer to the link on the following support website): Provides informa about "Precautions for use", "Parts and functions" and "Detail specifications". Operating Instructions (Refer to the link on the following support website): Explains how orm the settings and how to operate this camera. /i-pro.com/global/en/surveillance/documentation\_database





carefully and save this manual for future use. microSDXC/ microSDHC/ microSD memory card is described as microSD 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 U.S. and Canada:

# i-PRO Americas Inc.

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

i-PRO Co., Ltd. Fukuoka, Japan https://www.i-pro.com/

For Europe and other countries:

1010 Cambourne Business Park, Cambridgeshire CB23 6DP Authorised Representative in EU: i-PRO EMEA B.V.

Laarderhoogtweg 25, 1101 EB

i-PRO EMEA B.V. UK Branch

expressly approved by the party responsible for com-

pliance could void the user's authority to operate the

WV-S2136L / WV-S2136

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

8550 Fallbrook Drive, Suite 200 Houston,

Support Contact : 1-800-513-5417

Supplier's Declaration of conformity

\* PGQX2503YA \*

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# **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.

equipment.

Trade name: i-PRO

Responsible Party

i-PRO Americas Inc

undesired operation.

Texas 77064

For U.S.A.

Model No.: WV-S2236L

#### 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.

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

07 11 10 LO 0(1)/11 11 11 0(1)		
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 x 16 mm {5/8 pouces} / 2 él.	196 N {44 lbf}

# 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), limited power source (IEC/EN/UL/CSA 60950-1, IEC/EN/UL/CSA 62368-1 Annex Q) or IEC/EN/UL/CSA 62368-1

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

#### Notice:

- 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
  - 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

persons can easily reach.

## Precautions

Caution:

#### ■ 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.

#### ■ 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 microSD memory cards away from infants and children.

Otherwise, they may swallow the cards by mistake.

## ■ 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.

In this case, consult a doctor immediately.

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.

■ Do not install or clean the camera, or touch this product, the power 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 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.

#### ■ 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 high temperature parts of the product may cause burns.

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.

S2236L The functions with this notation are available when using the WV-S2236L series.

S2136L The functions with this notation are available when using the WV-S2136L series. S2136 The functions with this notation are available when using the WV-S2136 series.

The functions with this notation are available when using the model with the i-PRO white body.

В The functions with this notation are available when using the model with the black body.

The functions with this notation are available when using the model with the clear dome cover. The functions with this notation are available when using the model with the smoke dome cover.

#### Open Source Software

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- 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.

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#### Precautions for installation

i-PRO Co., Ltd. assumes no responsibility for injuries or property damage resulting 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
- 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 technical information website <Control No.: C0109> for image examples and measures to take. ■ Take notice of humidity

Install this product when the humidity is low. If installation is performed when it is raining or in very humid condition the inside may be affected by humidity, causing mist-over inside the dome cover.

#### ■ 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 or 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

### ■ 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 information.

#### Troubleshooting

result of sunlight or fire.

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

**Specifications**\* \*For further information, refer to the Basic Information. Power source \* PoE (IEEE802.3af compliant) **S2236L** DC 12 V: Power consumption \*1 720 mA/Approx. 8.6 W PoE DC 48 V: 180 mA/Approx. 8.7 W (Class 0 device) S2136L DC 12 V: 410 mA/Approx. 4.9 W PoE DC 48 V: 110 mA/Approx. 5.3 W (Class 2 device) Operating environment -10 °C to +50 °C {14 °F to 122 °F} Ambient operating temperature: (Power on range 0 °C to 50 °C {32 °F to 122 °F}) Ambient operating humidity: 10 % to 90 % (no condensation) Storage environment Storage temperature: -30 °C to +60 °C {-22 °F to +140 °F} Storage humidity: 10 % to 95 % (no condensation) Monitor output VBS: 1.0 V [p-p]/75 Ω, composite, Pin jack An NTSC or PAL signal can be outputted from camera (either press the INITIAL SET button quickly (within 1 second) or use (for adjustment) software to select NTSC or PAL signal). EXT I/O terminals: ALARM IN1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ø3.5 mm stereo mini jack Audio input: For microphone input: Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 k $\Omega$  (unbalanced) Supply voltage: 2.5 V ±0.5 V For line input: Input level: Approx. -10 dBV Audio output \*2 ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600  $\Omega$  (unbalanced) Output level: -20 dBV Shock resistance: S2236L IK10 (IEC 62262) \$2236L Ø129.5 mm × 102.5 mm (H) (ø5-3/32 inches × 4-1/32 inches (H)) Dome radius 41.5 mm {1-5/8 inches} {ø5-3/32 inches × 3-31/32 inches (H)} S2136 Dome radius 40 mm {1-9/16 inches} **S2236L** Approx. 570 g {1.26 lbs} Mass S2136L Approx. 470 g {1.04 lbs} S2136 S2236L Main body: PC resin, Finish: Dome cover: PC resin, \_\_\_\_\_\_ Main body: ABS resin, W S2136L S2136 Others: Tamper-resistant enclosure \*3 S2236L

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

\*2 The audio output can be switched to the monitor output. Refer to the "Operating Instructions" on our support website for descriptions of how to switch the output.

\*3 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

### Optional accessories

Installation Guide (this document) ...

S2236L Dome cover (Smoke type) : WV-CR1S S2136 Dome cover (Smoke type): WV-CF5SA WV-Q105A Ceiling mount bracket W WV-QSR501-W / B WV-QSR501-B W WV-QEM100-W / B WV-QEM100-B Mount bracket: Ceiling mount bracket W WV-QWL500-W / B WV-QWL500-B Wall mount bracket: Ceiling mount bracket (ISO) WW-QCL100-W / WV-QCL100-E B WV-QCL101-B Ceiling mount bracket (ANSI) **W** WV-QCL101-W /



# Standard accessories

...1 pc. Code label \*1

\*1 This label may be required for network management. Use caution not to lose this label.

IMPORTANT SAFETY INSTRUCTIONS................................ pc.

The following parts are used during installation procedures. EXT I/O terminal plug \*2. ...1 pc. Power cord plug \*2 ... S2236L Bit (Hex wrench, Template A . . 1 sheet screw size 6.35 mm {1/4 inches} T10)....

#### \*2 The power cord plug and EXT I/O terminal plug are attached to the camera.

# Other items that are needed (not included)

Minimum pull-out Recommended Installation method screw \*1 strenath \*2 M4 x 16 mm \*3 **Type 1)** Mount the camera to a two-gang junction box. {5/8 inches} 196 N {44 lbf} [Type 2] Directly mount the camera onto the ceiling or wall. x 2 pcs. Refer to the operating Mount the camera using the exclusively designed mount bracket. instructions of each bracket.

\*1 Select screws according to the material of the location that the camera will be mounted to. In this case,

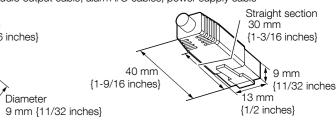
\*3 The screw length is an example when installing the camera on a robust ceiling or wall with a thickness of

wood screws and nails should not be used. \*2 This value indicates the minimum pull-out strength required value per screw. For information about the minimum pull-out strength, refer to our technical information website < Control No.: C0120>.

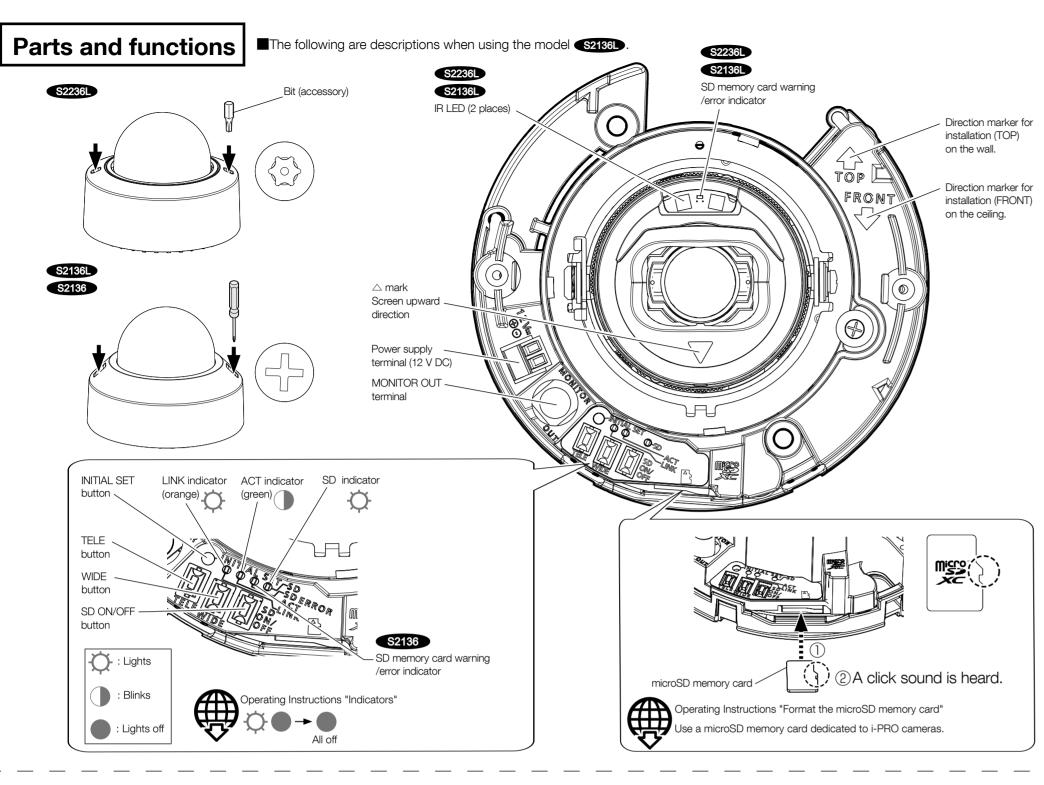
20 mm {25/32 inches} or more.

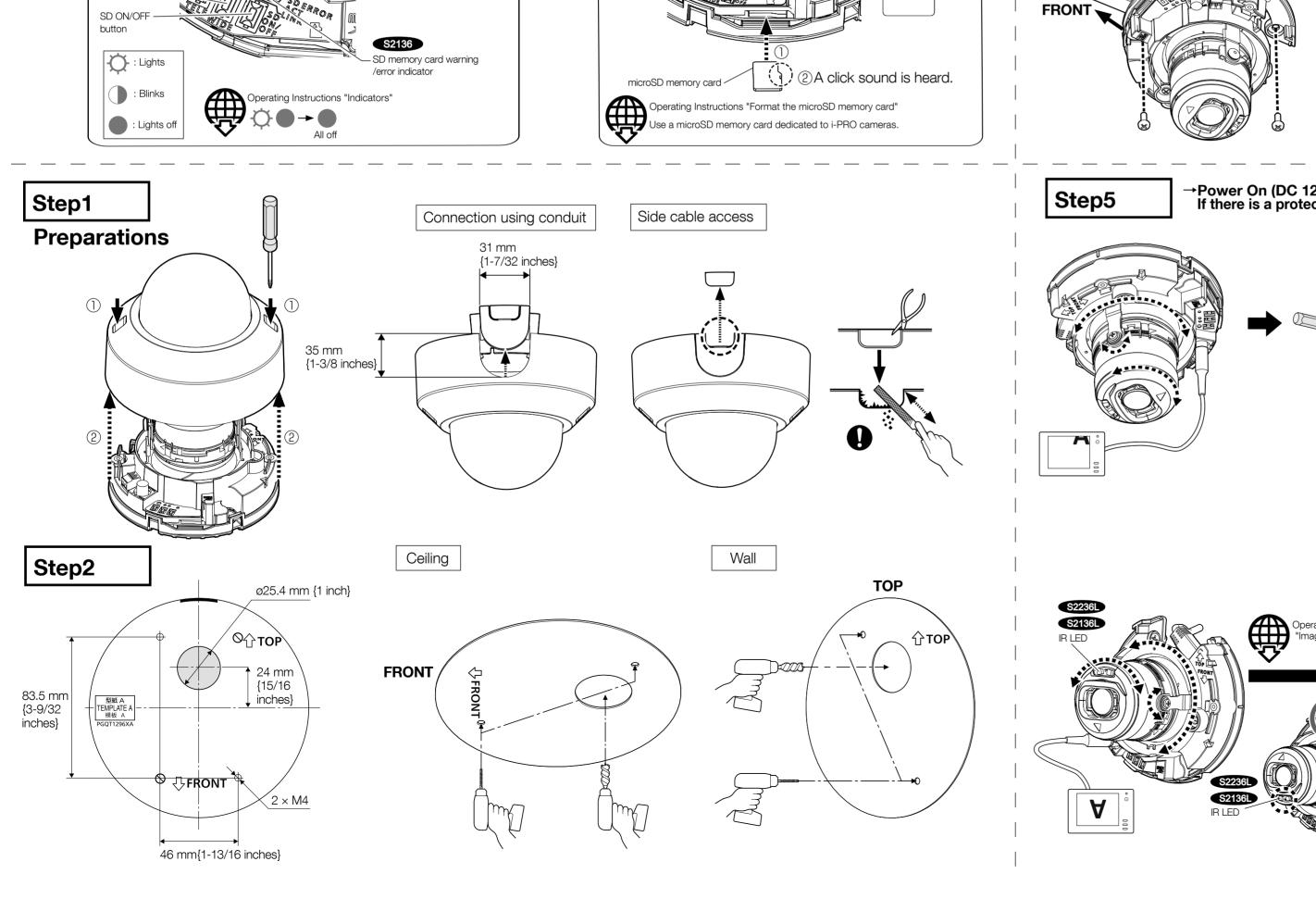
• Ethernet cable with RJ45 plug (category 5e or better, straight, 4 pairs (8 pins)) As necessary, audio input cable, audio output cable, alarm I/O cables, power supply cable

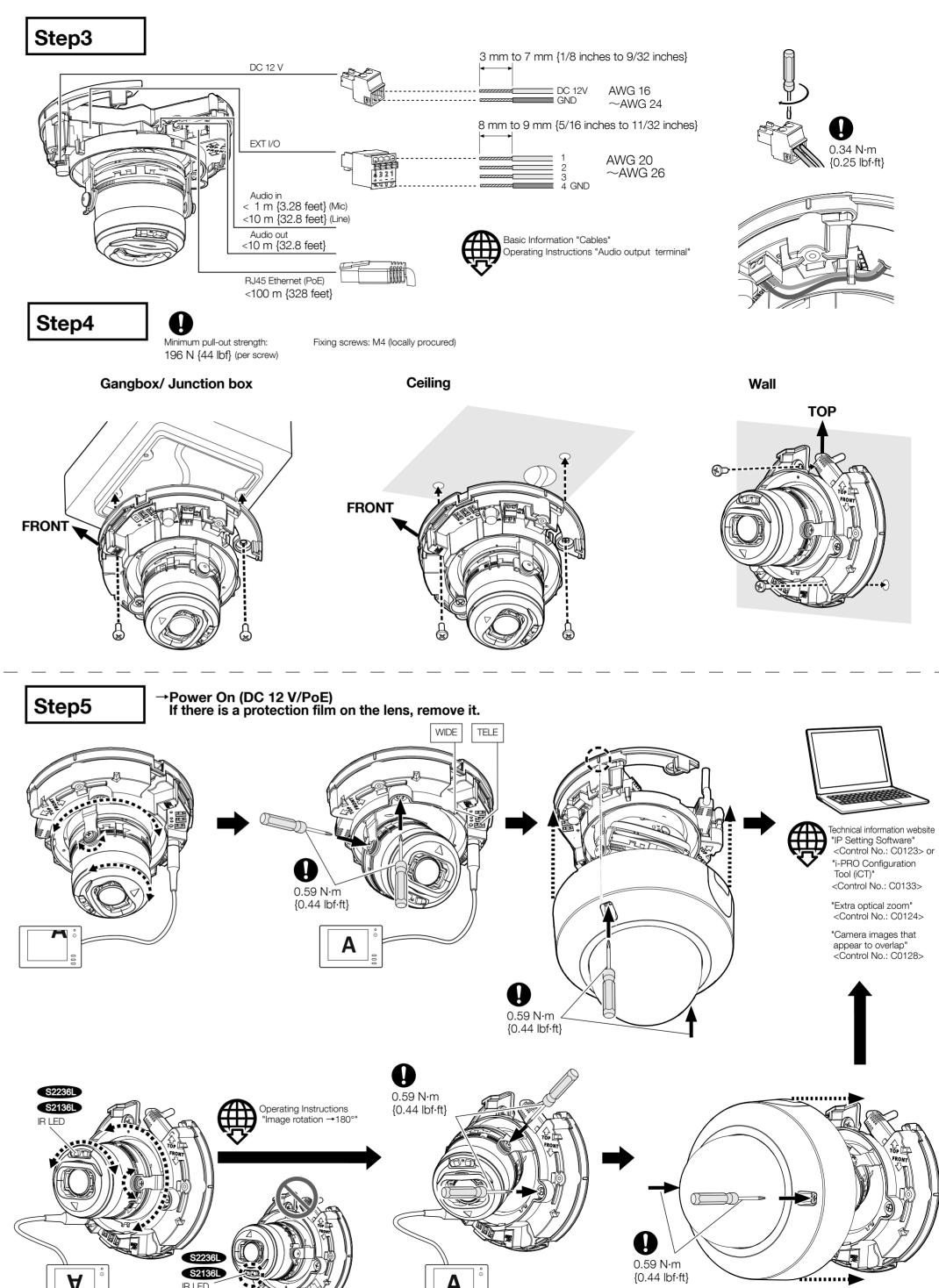
[1-3/16 inches] Straight section 17 mm {21/32 inches}



#### \* La longueur de la vis est un exemple lors de l'installation de la caméra au plafond ou sur un mur robuste d'une épaisseur de 20 mm {25/32 pouces} ou plus.







A