Panasonic®

microSD XC

Installation Guide
Included Installation Instructions

Network Camera **For professional use only**

Model No.
WV-U1142A **Indoor use**
WV-U1132A **Indoor use**
WV-U1130A **Indoor use**

WV-U1142A

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.
- **Basic Information (in the following manual website):** Provides information about "Precautions for use" and "Detail specifications".
- **Operating Instructions (in the following manual website):** Explains how to perform the settings and how to operate this camera.
  https://security.panasonic.com/training_support/documentation_database/

*<Control No.: C****>* used in these documents should be used to search for information 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.
- 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:

Panasonic i-PRO Sensing Solutions Corporation of America
8550 Fallbrook Drive, Suite 200 Houston, Texas 77064
https://i-pro.com/

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

For Europe and other countries:

Panasonic Corporation
http://www.panasonic.com

Panasonic i-PRO Sensing Solutions Co., Ltd.
Fukuoka, Japan

Authorised Representative in EU:

Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

CE

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: Changes or modifications not 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-U1142A, WV-U1132A, WV-U1130A
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.
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 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.

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

Méthode d'installation	Vis de fixation recommandée	La capacité de traction minimale requise
Pour une installation au plafond Platine de fixation d'installation: 260 g {0,57 lbs} Caméra vidéo: Maxi.200 g {0.44 lbs}	M6 x 16 mm {5/8 pouces}/ 4 él.	562 N {126 lbf}
Pour une installation murale Platine de fixation d'installation: 420 g {0,93 lbs} Caméra vidéo: Maxi.200 g {0.44 lbs}	M6 x 16 mm {5/8 pouces}/ 4 él.	724 N {163 lbf}
Pour fixer le câble de sécurité	M4 x 16 mm {5/8 pouces}/ 1 él.	24.5 N {5.5 lbf}

* 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.

Caution:
- This 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.
- Before attempting to connect or operate this product, please read these instructions carefully.

Notice:
- 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

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.

■ **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.
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 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.

■ **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.**
Failure to observe this may cause a drop resulting in injury.
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.

■ **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.

U1142 The functions with this notation are available when using the model WV-U1142A (4M pixel model).
U1132 The functions with this notation are available when using the model WV-U1132A (Full HD model).
U1130 The functions with this notation are available when using the model WV-U1130A (Full HD model).

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.

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Precautions for installation
Panasonic i-PRO Sensing Solutions 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 wall or ceiling 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 in-vehicle use.)
- Locations where it may get wet directly 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 the cables brought from outdoors are used, 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 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 information.

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

Specifications* *For further information, refer to the Basic Information.

Power source *1:	PoE (IEEE802.3af compliant)
Power consumption *1:	PoE DC 48 V : 100 mA/ Approx. 4.8 W (Class 2 device) **U1142**
	PoE DC 48 V : 90 mA/ Approx. 4.3 W (Class 2 device) **U1132**
	PoE DC 48 V : 80 mA/ Approx. 3.8 W (Class 2 device) **U1130**
Operating environment Ambient operating temperature:	−10 °C to +50 °C {14 °F to 122 °F} (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)
Dimensions:	59 mm (W) × 49 mm (H) × 116 mm (D) {2-5/16 inches (W) × 1-15/16 inches (H) × 4-9/16 inches (D)} (excluding projection of the slide cover)
Mass:	Approx. 200 g {0.44 lbs} **U1142**
	Approx. 155 g {0.34 lbs} **U1132**
	Approx. 150 g {0.33 lbs} **U1130**
Finish:	Main body : ABS/PC resin, i-PRO white

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

Standard accessories
Installation Guide (this document) .... 1 pc.
IMPORTANT SAFETY INSTRUCTIONS .... 1 pc.
Code label*1.. 1 pc.

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

The following parts are used during installation procedures.
Safety wire.. 1 pc.
Spring washer .... 1 pc.
Washer .... 1 pc.

Other items that are needed (not included)
- Fixing screw

| Installation method		Recommended screw *1	Minimum pull-out strength*2
Ceiling **For mounting on ceiling** Mount bracket: 260 g {0.57 lbs}		M6 x 16 mm *3 *4 {5/8 inches} x 4 pcs.	562 N {126 lbf} *5
	Camera: max.200 g {0.44 lbs}	M4 x 16 mm *3 {5/8 inches} x 1 pc.	24.5 N {5.5 lbf}
Wall **For mounting on wall** Mount bracket: 420 g {0.93 lbs}		M6 x 16 mm *3 *4 {5/8 inches} x 4 pcs.	724 N {163 lbf} *5
	Camera: max.200 g {0.44 lbs}	M4 x 16 mm *3 {5/8 inches} x 1 pc.	24.5 N {5.5 lbf}

*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 This value indicates the minimum pull-out strength required value per screw. For information about the minimum pull-out strength, refer to our support website <Control No.: C0120>.
*3 The screw length is an example when installing the camera on a robust ceiling or wall with a thickness of 20 mm {25/32 inches} or more.
*4 The number of required screws or anchor bolts varies depending on the specific cations of the mount bracket (locally procured). Refer to the operating instructions of the mount bracket (locally procured) for information about how to mount the mount bracket.
*5 Make sure that the screws or anchor bolts separately procured when locally procuring a mount bracket for the ceiling or wall are capable of supporting the total weight (including the moment when mounting to a wall).

- RJ45plug, Ethernet cable (category 5e or better, straight, 4 pairs (8 pins))
- Tools

Parts and functions

<Top>
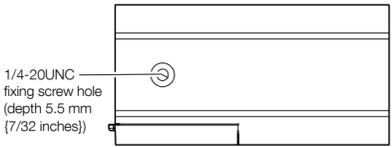
1/4-20UNC fixing screw hole (depth 5.5 mm {7/32 inches})

<Side>
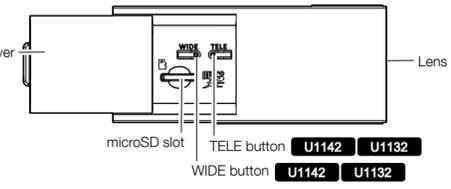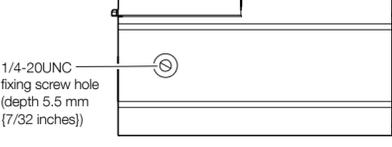
Slide cover

Lens

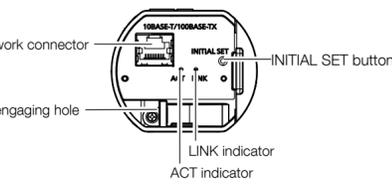microSD slot

TELE button U1142 U1132
WIDE button U1142 U1132

<Bottom>

1/4-20UNC fixing screw hole (depth 5.5 mm {7/32 inches})

<Rear>

RJ45 Network connector

INITIAL SET button

Wire engaging hole

LINK indicator

ACT indicator

■Indicators

Note:
● Lighting/blinking LED can be turned off with the software settings at any time. (The initial state is lighting or blinking.) Refer to the Operating instructions, and set the LED to be solid off if necessary.

LINK indicator	
When the camera is able to communicate with the connected device	Lights orange

ACT indicator	
When data is being sent via the network camera	Blinks green (accessing)

■Buttons

•INITIAL SET button (Initializing)
Follow the steps below to initialize the network camera. Retry if the camera does not start up normally.

Turn off the power of the camera ⇒ Turn on the power of the camera while pressing the INITIAL SET button ⇒ 15 seconds ⇒ Make sure to release the button ⇒ around 2 minutes ⇒ The camera will start up and the settings including the network settings will be initialized

*Do not turn off the power of the camera during the process of initialization. Otherwise, it may fail to initialize and may cause malfunction.

•TELE button
Click the TELE button to adjust the zoom ratio to the "Tele" side.

•WIDE button
Click the WIDE button to adjust the zoom ratio to the "Wide" side.

Step1 Preparations

[1] Attach the safety wire (accessory)

Engage the safety wire (accessory) with the wire engaging hole.

Safety wire (accessory)
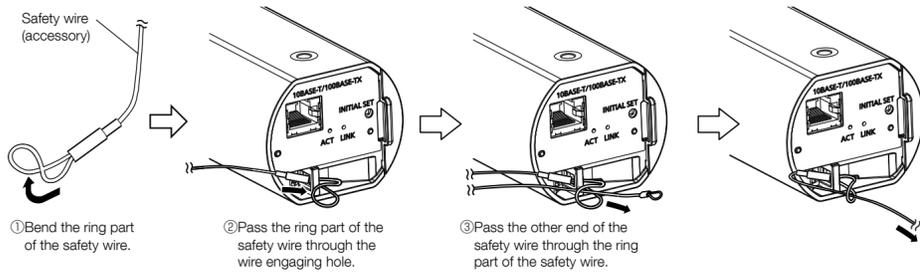
①Bend the ring part of the safety wire.

②Pass the ring part of the safety wire through the wire engaging hole.

③Pass the other end of the safety wire through the ring part of the safety wire.

[2] If necessary, insert a microSD memory card by referring to "Insert / remove a microSD memory card".

Step2 Processing the installation surface (Process in accordance with the installation method)

Common
● Determine the mounting height of the camera so that the lowest part of the camera or the camera mounting bracket after the installation is 2 m 80 cm {110 inches} or higher from the floor.

Ceiling

[1] Mark the position of holes to be made for the ceiling mount bracket (locally procured) on the attachment position of the ceiling, and make those holes for attachment.

[2] Secure the ceiling mount bracket (locally procured) using separately procured fixing screws or anchors.

Minimum pull-out strength:
Refer to the instruction guide of the ceiling mount bracket.
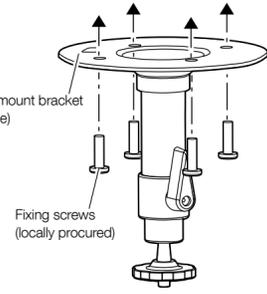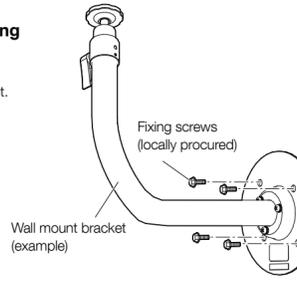
Ceiling mount bracket (example)

Fixing screws (locally procured)

Wall

[1] Mark the position of holes to be made for the wall mount bracket (locally procured) on the attachment position of the wall, and make those holes for attachment.

[2] Secure the wall mount bracket (locally procured) using separately procured fixing screws or anchors.

Minimum pull-out strength:
Refer to the instruction guide of the wall mount bracket.

Wall mount bracket (example)

Fixing screws (locally procured)

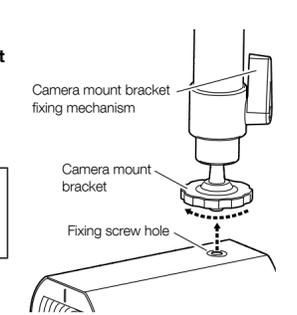## Step3 Mount (Fix in accordance with the installation method)

Ceiling

[1] Loosen the camera mount bracket fixing mechanism to freely move the camera mount bracket.

[2] Align the screw thread with the fixing screw hole of the camera, and rotate the camera mount bracket to secure the camera.

IMPORTANT:
● Be sure to rotate and secure the camera mount bracket. Rotating the camera places a large burden on the camera mount bracket, and may cause damage.

[3] Tighten the camera mount bracket fixing mechanism and secure the camera mount bracket.

Camera mount bracket fixing mechanism
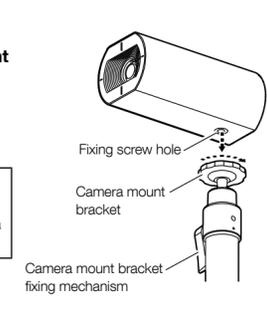
Camera mount bracket

Fixing screw hole

Wall

[1] Loosen the camera mount bracket fixing mechanism to freely move the camera mount bracket.

[2] Align the screw thread with the fixing screw hole of the camera, and rotate the camera mount bracket to secure the camera.

IMPORTANT:
● Be sure to rotate and secure the camera mount bracket. Rotating the camera places a large burden on the camera mount bracket, and may cause damage.

[3] Tighten the camera mount bracket fixing mechanism and secure the camera mount bracket.
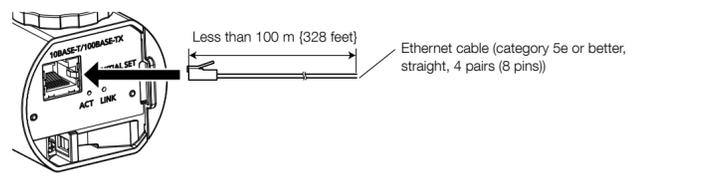
Fixing screw hole

Camera mount bracket

Camera mount bracket fixing mechanism

Step4 Making connections

IMPORTANT:
● Devices to which power can be supplied to this product are PoE hub and PoE power supplying equipment.
● Turn off each system's power supply before making a connection.

Less than 100 m {328 feet}

Ethernet cable (category 5e or better, straight, 4 pairs (8 pins))

Step5 Adjustment

[1] Turn on the camera.

[2] Download and launch the IP Setting Software and connect to the network by following information described on our support website <Control No.: 0123>.
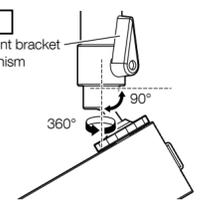
[3] Adjust the camera direction.

①Loosen the camera mount bracket fixing mechanism on the camera mount bracket.
②Adjust the direction while watching the screen of the PC on the network.
③Be sure to tighten the lock lever securely after the adjustment.

IMPORTANT:
● When adjusting the camera angle, make sure to loosen the camera mount bracket fixing mechanism on the camera mount bracket before making adjustments. If the camera angle is changed when the camera mount bracket fixing mechanism is tightened, excessive force is applied to the camera mount bracket and camera, which may damage them.
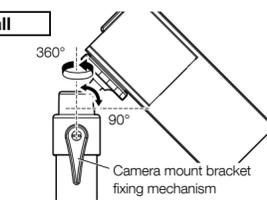
Ceiling

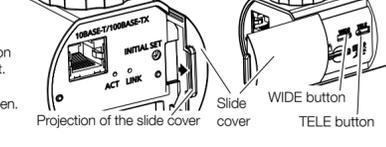Camera mount bracket fixing mechanism

360° 90°

Wall

360° 90°

Camera mount bracket fixing mechanism

[4] Adjust the zoom ratio of the camera. U1142 U1132

①Open the slide cover by placing your finger on the projection of the slide cover and sliding it.
②Adjust the zoom ratio using the TELE button and the WIDE button while watching the screen.
③Close the slide cover.

Projection of the slide cover

Slide cover

WIDE button

TELE button

Note:
● After approx. 3 seconds from releasing the TELE button or the WIDE button, the auto focus function will automatically be executed. Do not touch the camera during execution of the auto focus function.
● When the resolution is set to higher than 640×360, image quality may deteriorate depending on the zoom ratio. Refer to our support website <Control No.: C0124> for further information.

[5] Fix the safety wire on the installation surface.

Ceiling

Attach the safety wire (accessory) to the foundation area of the architecture or where sufficient strength is assured.
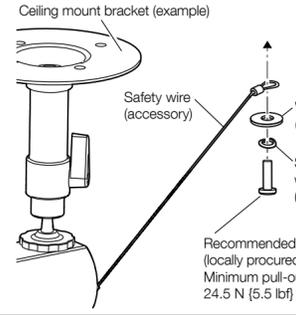
Ceiling mount bracket (example)
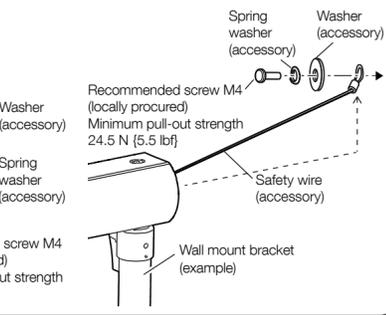
Safety wire (accessory)

Washer (accessory)

Spring washer (accessory)

Recommended screw M4 (locally procured)
Minimum pull-out strength 24.5 N {5.5 lbf}

Wall

Attach the safety wire (accessory) to the foundation area of the architecture or where sufficient strength is assured.

Spring washer (accessory)

Washer (accessory)

Recommended screw M4 (locally procured)
Minimum pull-out strength 24.5 N {5.5 lbf}
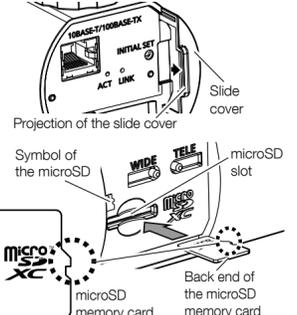
Safety wire (accessory)

Wall mount bracket (example)

Insert / remove a microSD memory card

■ Insert a microSD memory card

①Open the slide cover by placing your finger on the projection of the slide cover and sliding it.
②Insert the microSD memory card into the end of the microSD slot and confirm that a clicking sound is made.

Note:
● Back end of the microSD memory card does not protrude over the surface of the microSD slot (the same surface as the microSD symbol).

③Close the slide cover.
(The right illustration shows an example of WV-U1142A.)

Projection of the slide cover

Slide cover

Symbol of the microSD

WIDE TELE

microSD slot

microSD memory card

Back end of the microSD memory card

■ Remove a microSD memory card

When removing a microSD memory card, reverse the procedure.
①Open the slide cover by placing your finger on the projection of the slide cover and sliding it.
②Remove the microSD memory card by pushing it down until a click sound is heard while holding the card with a finger to prevent it from popping out.
③Close the slide cover.

IMPORTANT:
● When removing a microSD memory card, make sure to set "SD memory card" to "Not use" on the [SD memory card] tab of the setup menu before removing the microSD memory card. After removing the memory card, set back the "SD memory card" to "Use". For information about the setup menu, refer to the Operating Instructions.

Note:
● When using a microSD memory card, format it using this product. Refer to the Operating Instructions for how to format a microSD memory card.
● Use the compatible microSD memory cards. Refer to our support website <Control No.: C0107> for latest information about the compatible microSD memory cards.