

(Wireless sensor camera

is described as "camera" in this guide.)

□ Sensor range cap

Used for the heat

attaching the safety

wire to the wall

□ Cable binder × 1

 $(4 \text{ mm} \times 40 \text{ mm})$

sensor

□ Washer × 1

× 1 set of 4

Model No. VL-WD812AZ

Note to the installer

Please read this guide carefully, and install the product safely and correctly by following the instructions. Carefully read the information found in the section titled "For your safety" in

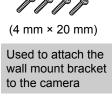
- Only use attachments/accessories specified by the manufacturer.
- The installation shall be carried out in accordance with all applicable installation rules. Panasonic assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with this guide. Additionally, any
- resulting malfunction will not be covered under the warranty. After installation, make sure to leave this guide with the customer.

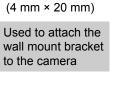
Supplied accessories for installation





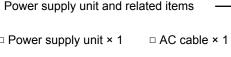




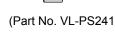




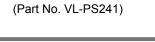












• You will need the following additional items to install and configure the camera. [Locally procured]

- Screws (for wall mount bracket: × 4, for safety wire: × 1): Prepare the screws (property the drawing on the right) according to the material, structure, strength and other factors of the mounting area
- and the total weight of objects to be mounted. –DC cable and wires (for an external sensor connection):
- Prepare a cable and wires of the appropriate specification. () "Wire type and length") • Retain the cap removement tool and any unused sensor range caps as they may be needed when making adjustments in the future.

• The illustrations in the supplied manual(s) may vary slightly from the actual product.

For your safety

To prevent severe injury and loss of life/property, read this section carefully before using the product to ensure proper and safe operation of your product.

! WARNING

Preventing fire, electric shock and short circuits

Refer installation work to the dealer.

- Installation work requires technique and experiences. Failure to observe this may cause fire, electric shock, injury, or damage to the product. Consult the dealer. • Electrical connection work should be performed by certified personnel only. Certification
- is required for performing electrical connection work. Consult your dealer. • Use only the specified power supply unit and AC cable.
- Do not attempt to disassemble or modify this product. Contact an authorised service centre for repairs.
- Never install wiring during a lightning storm.
- Do not connect non-specified devices.
- Do not connect a power cable to a terminal that is not specified in this guide.
- When opening holes in walls for installation or wiring, or when securing the power cable, make sure you do not damage existing wiring and ductwork.
- Do not make any wiring connections when the power supply is turned on. • Do not use the supplied power supply unit for outdoor installations (it is for indoor use
- Do not install the power supply unit in the following places:
- Places where the power supply unit may be splashed with water or chemicals.
- Places where there is a high concentration of dust, or high humidity. Do not leave the power cable exposed outdoors.
- Do not perform any actions (such as fabricating, twisting, stretching, bundling, forcibly bending, damaging, altering, exposing to heat sources, or placing heavy objects on the power cable) that may damage the power cable. Using the product with a damaged power cable may cause electric shock, short circuits, or fire. Contact an authorised
- Mount the wall mount bracket so that the "†UP" mark faces up. Caulk the mounting face of the wall mount bracket, except for the bottom part of the bracket, with a waterresistant sealant, making sure to fill in any gaps. If the bracket is mounted upside down or if the bracket is not properly waterproofed, water may enter, which may result in fire or electric shock.

Preventing accidents and injuries

- Do not install or use the product in an inflammable atmosphere. Failure to observe this may cause an explosion resulting in injury.
- Do not install or use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- Do not install or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction, resulting in an accident.
- Do not mount the bracket in an unstable location, in a location subject to frequent vibration, on a ceiling, or on a weak wall. (Do not mount on plaster board, concrete blocks, wooden materials exposed to the outdoors, walls with very rough surfaces, or surfaces that are narrower than the width of the wall mount bracket.) There is a risk of injury if the product falls, or of fire or electric shock if water enters the product. • Keep the sensor range caps out of the reach of children. There is a risk of swallowing.

In the event they are swallowed, seek medical advice immediately.

/ CAUTION

Preventing electric shock

 If the wiring is underground, do not make any connections underground. • If the wiring is underground, make sure the power cable and other wiring is properly waterproofed by running the cables through a conduit.

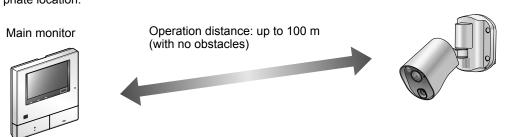
Preventing injury

• The safety wire must be used when mounting the product. There is a risk of injury if the

Precautions for installation

Before installation

The main monitor station (called "main monitor") and the camera use radio waves to communicate with each other. (The product operates in the frequency range of 1.88 GHz to 1.90 GHz, and the RF transmission power is 250 mW (max.).) Read the following and install the product in an appropriate location.



Communication between the main monitor and the camera

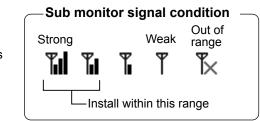
- The maximum communication distance between the main monitor and the camera (up to 100 m) may be shortened when the product is used in places where there are the following obstacles between the main monitor and the camera.
 - Metal doors or metal shutters.
- Heat insulation including aluminium foil.
 - Concrete walls or walls made of galvanized iron sheet. • If the wireless monitor station (called "sub monitor") is being used in a different
 - building, or a different part of the house, i.e. a different floor to the where the main monitor has been installed Many walls
 - Double insulated glass windows
 - If there are the above obstacles, images displayed on the main monitor may be distorted or delayed, audio may cut out, and the product may not be usable. In this case, the camera's indicator lamp lights or flashes red. (Camera signal status" below.)
 - You can rectify these problems by using an optional DECT Repeater VL-FKD2AZ to relay the signal from the main monitor. (Proposition of the Video Intercom

Confirming the signal condition at the installation location

If your Video Intercom System includes a sub monitor, it can be used to easily check the signal status. (If there is no sub monitor, use a camera.)

Using the sub monitor to confirm

By taking the sub monitor to the installation site, you can confirm the signal status on the sub monitor's screen.



Using the camera to confirm Temporarily connect the camera and the power supply unit to turn on the camera, and then register it to the main monitor.

Later, you can take the camera to the installation site and confirm the signal status using the camera's indicator lamp.

—— Calliera Signal Status ——						
Strong		Weak	Out of range			
Lit green	Lit orange	Lit red	Flashing red			
☐ Install within this range						

• Areas subject to extreme temperature

• Near ocean coasts, where sea breezes

will contact the product directly, or near

reduce the product's life expectancy)

conditioners, boiler control panels with

intercom, or home security equipment

Near satellite broadcast receiving devices,

including tuners, TVs with built-in satellite tuners, and recorders (broadcast images

• Near TVs, radios, computers, air

(these may cause noise)

variation (which can lead to condensation)

sulphuric hot springs (exposure to salt can

Do not install in these locations

■ To prevent deformation, discolouration, malfunction, operational failure

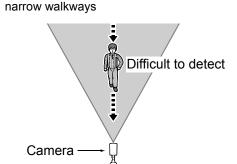
- In direct sunlight or directly under an outdoor light (even if the surrounding areas are within the operational
- temperature range, portions of the product may become hot)
- Areas subject to frequent vibration, shock, or impact
- Near fire, heating devices, or magnetic fields (such as near magnets) · Near heating or cooling systems,
- including outdoor equipment such as air
- conditioning unit compressors In greasy or moist locations

directly in front of the camera, such as

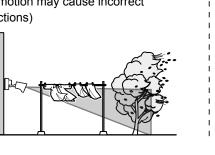
- as mobile phones

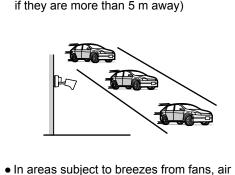
- may be distorted) Areas where hydrogen sulphide, ammonia.
- Near devices that emit radio waves, such

- dust, or noxious gases are present ■ Incorrect detections may occur in the following locations Areas where people approach from On high-traffic streets



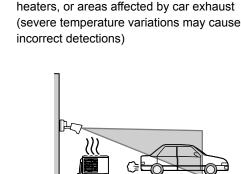
 In areas where objects move naturally, such as where the wind blows trees or hanging laundry (temperature variation and motion may cause incorrect detections)





conditioning unit compressors, or hot water

(passing cars may cause detections even



- In areas with strong winds (wind can vibrate the camera, causing incorrect motion detection.) • Where reflective objects are in front of the camera and can interfere with the heat detection, such as glass.
- In areas where brightness changes easily (for example where shadows form in the afternoon and where lights turn on at night)
- In areas where backlight occurs (faces in the dark may not be able to be identified.) • If a strong light is shining on the camera, the visitor's face may not be distinguishable. Do not place the camera in the following locations.
- Where the background is a white wall, and direct sunlight will reflect off it.

- Where most of the background is the sky.

Where direct sunlight will shine on the camera.

Privacy and rights of portrait

When installing or using the camera, please take into consideration the rights of others with regard

• It is generally said that "privacy" means the ability of an individual or group to stop information about themselves from becoming known to people other than those whom they choose to give the information. "Rights of portrait" means the right to be safe from having your own image taken and used indiscriminately without consent.

About the sensors (motion detection sensor and heat sensor)

The camera has 2 sensors: the motion detection sensor and the heat sensor. Please read the following information about the camera's motion detection sensor and heat sensor before deciding where to mount the camera.

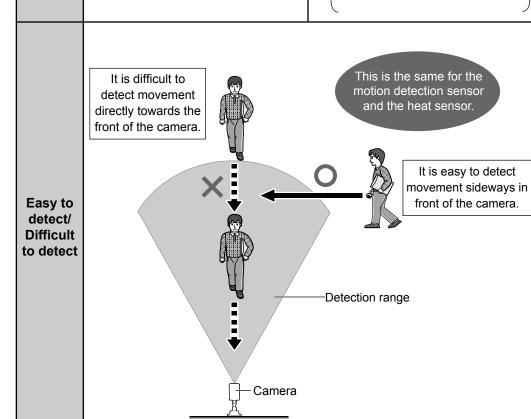
	Motion detection sensor	Heat sensor
Detection method	The camera detects changes in the images being displayed. • The camera detects changes in the brightness levels of moving objects.	The camera detects temperature differences of objects in the images being displayed. The heat sensor uses infrared rays to detect temperature differences within its range that are emitted naturally by people, animals, etc.
Main character- istics	Easily detects movement in the day- time or when it is bright. • Movement may be incorrectly detected when the moving object and the background have a similar colour. • Movement may be incorrectly detected when there are sudden changes to the overall brightness levels such as when external lights are used.	Easily detects when there is a big difference between the temperatures of objects and the surrounding environment, such as in winter or late at night. The sensor cannot easily detect when there is no difference between the temperatures of objects and the surrounding environment, such as in summer or during the daytime. If the camera is mounted facing a road, the sensor may detect incorrectly due to interference caused by the heat from passing cars.
Detection range	Entire viewed image	Part of viewed image (grey area)

The detection range can be changed.

"Using the sensor range caps" on

heat sensor

the reverse side



The detection range can be reduced.

range of the motion detection sen-

("Changing the detection

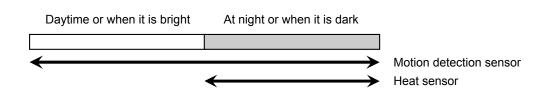
sor" on the reverse side

- The motion detection sensor and heat sensor are not designed to be used in situations that require high reliability. We do not recommend use of the motion detection sensor and heat sensor
- Panasonic takes no responsibility for any injury or damages caused by use of the motion detection sensor and heat sensor.

Sensor operating range

depending on changes to the brightness levels.

In the default settings, the motion detection sensor and heat sensor operate in the following way



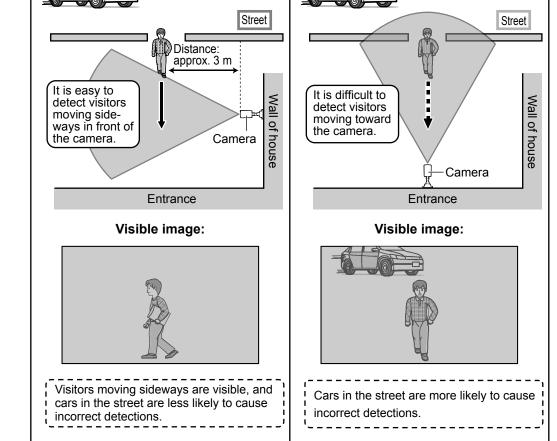
- The brightness level is automatically determined by the camera when viewing images. A timer can be configured to switch the modes between day and night modes at specified times. (Pay and night switch] setting in the Operating Instructions of the Video Intercom
- The settings can be configured to match the installation environment by only operating the motion detection sensor and heat sensor at certain times, for example only during the day or only at night. (1287 [Heat sensor detection] and [Motion detection] settings in the Operating Instructions of the Video Intercom System)

Installation example ① (detect visitors)

Poor example

To detect visitors at the entrance (gate) without detecting cars in the street

Ideal example



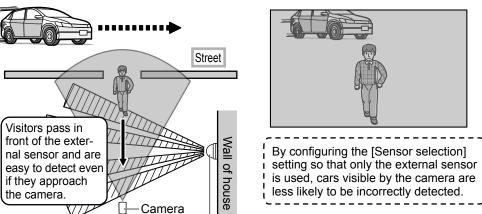
If you want to detect visitors as well as see the view directly in front of the camera, use a commercially available external sensor.

Installation example (using a commercially available external sensor)

You can connect commercially available external sensors to the external input terminal

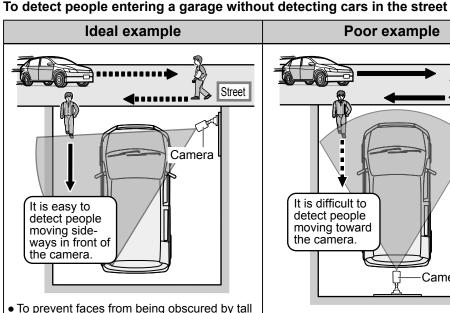
 In this case you must use the main monitor to change the camera's [Sensor selection] setting. (Operating Instructions of the Video Intercom System) Refer to "About the external input terminal" (It → above right) and connect the external sensor properly according to its specifications.

Commercially available external sensor

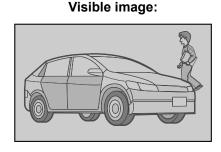


Installation example ② (detect people entering a garage)

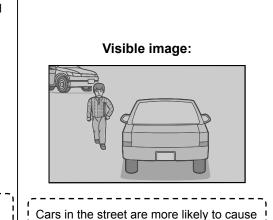
Entrance



vehicles, adjust the installation location and angle of the camera.



People moving sideways are visible, and cars in the street are less likely to cause incorrect detections.



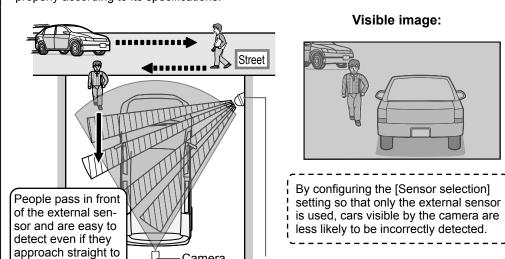
Commercially available external sensor

incorrect detections.

If you want to detect people as well as see the view directly in front of the camera, use a commercially available external sensor.

Installation example (using a commercially available external sensor)

You can connect commercially available external sensors to the external input terminal. In this case you must use the main monitor to change the camera's [Sensor selection] setting. (Operating Instructions of the Video Intercom System) Refer to "About the external input terminal" (IS above right) and connect the external sensor properly according to its specifications.



the camera.

Instructions of the Video Intercom System)

anything to this Bracket cover Lift the tab to open the terminal cover

External input terminal

■ External input terminal specifications

- Detection can occur when the terminal is closed or opened.
- Voltage when open: approx. 9 V • Current when closed: approx. 6 mA (detection occurs after 0.1 s of continual close/open)

About the external input terminal (for an external sensor connection)

Choose an external sensor that is compatible with the specifications of the external input terminal

[Break contact]) that matches the device. ((ST) [External sensor] setting in the Operating

• After connection, use the main monitor to select the contact type ([Make contact] or

■ Wire type and length ("W" "Wire type and length" below)

About installation

• Install so that the power shutoff device is located near the power supply unit and is easily

• Use 600 V AC or higher insulated wiring.

Wiring run	Wire type '			
Willing rull	Diameter		Length (Max.)	
Camera -	ø 0.65 mm	22 AWG	50 m	
Power supply unit	ø 1.0 mm	18 AWG	100 m	
Camera -	Ø 0.5 mm	24 AWG	According to specification of connected device. Must be no longer than 20 m.	
External sensor	ø 0.8 mm	20 AWG		

*1 Type: Single-pair cable with outer sheath (jacket)

Conductor: Copper solid

Wire type and length

Outer diameter: Ø 8 mm (Max.)

• A certified power supply wiring has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply wiring not lighter than ordinary polyvinyl chloride flexible wiring according to IEC 60227 shall be used.

Installation overview Before installing the camera on the wall, be sure to register the camera to the main monitor

nearby so that you will be able to check the signal strength at the installation point. Temporarily connect the camera and the power supply unit to turn on the camera, and

- then register the camera to the main monitor. (1287 below) **2** Check that the signal can reach from the camera's installation location.
- (IS "Confirming the signal condition at the installation location") 3 Install the power supply unit. (regreverse side)

4 Install the camera. (regreverse side)

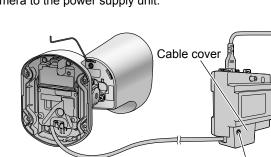
Temporarily connecting to the power supply unit

Temporarily connecting is necessary to register the camera to the main monitor and to confirm the condition of the signal at the installation location.

Refer to "Installing the power supply unit and camera" on the reverse side for information about connecting a cable from the camera to the power supply unit

 Make sure that the power supply unit is unplugged before connecting a power cable. Make sure you attach the cable cover after you make the

temporary connection.



Registering to the main monitor

the Operating Instructions of the Video Intercom System for more information.

Temporarily connect the camera to turn it on, and then register it to the main monitor as

explained below. • You cannot register more than one camera at a time. Register each camera one at a time. • The operations described here are based on the VL-SWD501AZ series main monitor. See

Main monitor operation

From the top menu of the main monitor, touch \longrightarrow \rightarrow [Register/Cancel] \rightarrow [Register] \rightarrow [Camera] \rightarrow the camera number of the camera to be registered.

• After this, use the camera and complete the following steps within about 5 minutes.



era is turned on. **2-1** Peel open the register button cover (1) and use the thin end of the cap removement tool (accessory) to press and hold the register button (2) for

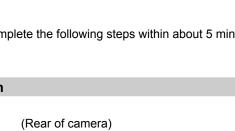
tion procedure while the cam-

about 3 seconds. **2-2** Make sure to firmly close the register button cover.

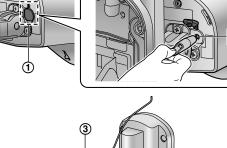
The camera's indicator lamp (3) flashes in green during registration. When registration is complete, a beep sounds and the indicator lamp lights in green.



To end the operation, press OFF on the main monitor.









Installing the power supply unit and camera

- Do not attach to a ceiling • Do not install in areas directly exposed to water or rain.

Make sure to waterproof the holes made in walls.

• Holes must be made in the wall for cables and wires to pass through. Panasonic takes no responsibility for issues related to opening holes in walls.

Install the power supply unit

■ About the installation location

- The AC cable plug is used as the main disconnect device. Ensure that the power outlet is installed near the product and is easily accessible.
- A readily accessible disconnect device shall be incorporated external to the equipment.
- External disconnect device must be certified and have a creepage and clearance distance of 3 mm or more

■ Precautions for wiring

- Make sure that the power supply unit is unplugged before performing any wiring work.
- Always connect AC or DC cables to the appropriate connector or connection terminal. • To prevent the DC cable from disconnecting and to prevent electric shock, secure the DC

How to connect the AC cable and DC cable

cable using the cable binder (accessory) and attach the cable cover.

Connect the power supply unit (accessory), the AC cable (accessory), and a DC cable (locally procured).

Power supply unit (with cable cover

<Bottom view>

DC OUT terminal

— ;;;

CAUTION

into the connector and terminal. If the cables are not inserted all

the way, heat may be generated.

*1 Make sure that there are no bare wires

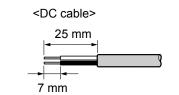
exposed outside the product.

Insert the cables firmly all the way

AC IN connector

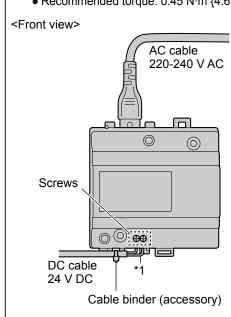
DC cable

Strip the DC cable as follows:



2 Remove the screw (2) and then remove the cable cover (1).

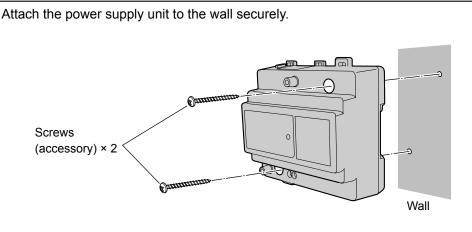
- **3** Connect the AC cable (accessory) to the AC IN connector on the top of the power supply unit. Next, connect the DC cable (locally procured) to the DC OUT terminal on the bottom of the power supply unit, and then secure the wires by tightening the screws.
- Recommended torque: 0.45 N·m {4.6 kgf·cm}



- Use the cable binder (accessory) to secure the DC cable (double-coated area) to the
- (**I** "Wall mounting", below)
- 6 Make sure to replace the cable cover (1).

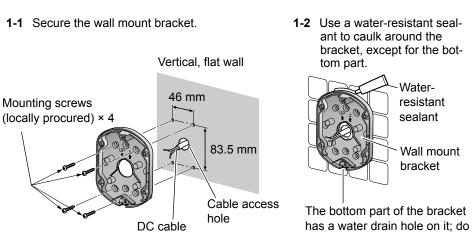
5 Attach the power supply unit to the wall.

Wall mounting



Install the camera

Attach the wall mount bracket to the wall that has the cable access hole and caulk the bracket



• Mount the wall mount bracket so that the "TUP" mark faces up, and caulk as shown

here, making sure to fill in any gaps. (If the bracket is not properly waterproofed, water may enter, which may result in fire or electric shock.)

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PNQW4431ZA C0814MM0



Wall mount

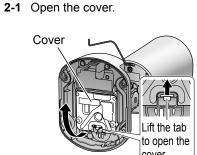
Make sure you use the safety wire attached to the camera to prevent the camera from

- Required pull-out capacity of a single screw is 294 N {30 kgf} or more. If this criteria is not met, make sure to take additional measures to increase strength.
- Do not use an impact driver. (This may lead to damaged screws or over tightening.)

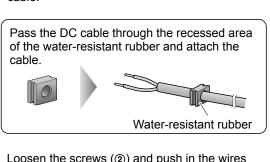
Install the camera (continued)

2-2 Strip the DC cable.

Open the cover on the rear and connect the DC cable.



2-3 Remove the water-resistant rubber (①) from the camera and attach it to the DC



2-4 Loosen the screws (②) and push in the wires of the DC cable to the terminal connectors (non-polar), then tighten the screws.

- Recommended torque 0.8 N·m {8.2 kgf·cm}
- Secure the water-resistant rubber attached to the cable to its original position.

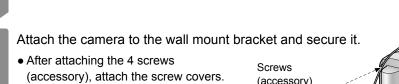
If connecting an external sensor

Connect wires to the external input terminal. • Refer to "About the external input terminal" on the reverse side and connect the wires

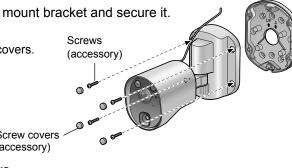
- 3-1 Strip the wires. • Refer to 2-2 of step 2 for stripping wires.
- **3-2** Remove the water-resistant rubber (3) from the camera and attach it to the
 - Refer to the drawing in 2-3 of step 2.
- 3-3 Connect the wires to the terminals (4) and reattach

Close the cover (push closed until it clicks)

- the water-resistant rubber and secure it in its original
- Insert the wires while pressing the terminal buttons with the tip of a screwdriver



Recommended torque: 1.2 N·m {12.2 kgf·cm}

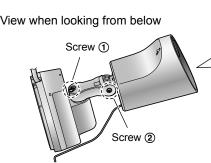


View when looking

—When tightening screws — It is difficult to tighten the screw when the camera is facing forward. Using the method shown to the right, tighten the screw

after rotating the camera body to the left or Loosen this screw and move the camer left or right

Adjusting the camera angle.



Adjusting angle left and right: 1. Loosen screw ① and adjust the

angle left or right. . Tighten screw ①.

2. Tighten screw 2.

Adjusting angle up and down:

1. Hold the camera in one hand and loosen screw ② to adjust the angle up

Recommended torque for screw ①, ②: 0.7 N·m {7.1 kgf·cm}

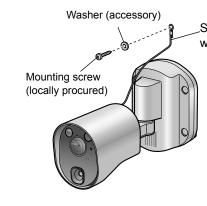
Turn on the camera, monitor the camera image, confirm the viewable area and the camera audio. (Operating Instructions of the Video Intercom System)

• If you're not satisfied with the viewable area, adjust the camera angle and confirm the

• If the Video Intercom System includes a sub monitor, take it to the camera installation location and confirm the image displayed on the sub monitor while adjusting the camera

After you have adjusted the angle, attach the safety wire to the wall.

 Attach the safety wire high on the wall so that the camera does not strike anyone in the event the camera becomes detached from the wall. Do not hang from the camera.



Confirming sensor detections

Use the main monitor to confirm the detections made by the heat sensor or motion detection.

• The operations described here are based on the VL-SWD501AZ series main monitor. See the Operating Instructions of the Video Intercom System for more information.

From the top menu of the main monitor, touch \longrightarrow $[Connected \ devices] \rightarrow [Camera] \rightarrow camera \ number \rightarrow [Sensor \ settings] \rightarrow$ [Check sensors] → tap each type of sensor to confirm.

• The camera waits for the sensors to be triggered and live images from the camera are

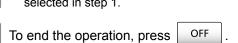
You must trigger the sensor at the camera

within about 20 minutes.



■ Confirm with a subject that you want to detect Check whether the sensor is triggered at the

- location where you want to detect movement, with people moving in the direction you want ■ Confirm with a subject that you do not
- want to detect Check whether the sensor is not triggered by subjects that you do not want to detect, such as people or cars moving on a street.
- When sensors make a detection
- The camera's LED lights and indicator lamp
- The display on the main monitor changes as shown to the right according to the sensor type selected in step 1.



• The camera image turns off automatically after about 20 minutes when confirming the sensor. If 20 minutes pass while confirming, start over from the beginning.

• You can also use the above procedure to confirm a commercially available external sensor, if

When detections are not made correctly or when incorrect detections are made

When detections are not made prop-Refer to "Adjusting sensor sensitivity and

detection range" (at right) and make adjustments as explained below.

Heat sensor: • Change the [Heat sensor sensitivity] setting (increase sensitivity)

setting (increase sensitivity)

Motion detection: Change the [Motion detection sensitivity]

■ When incorrect detections are made Refer to "Adjusting sensor sensitivity and detection range" (at right) and make adjustments as explained below.

Name of sensor which made the detection

Area that motion was detected in (shown in yellow)

The sensor name is displayed for ! about 1 second. When the sen-

i sor is triggered again, the name is i

`------

Motion detection:

I displayed.

Heat sensor: Use the sensor range caps Change the angle of the heat sensor

setting (decrease sensitivity) Motion detection:

• Change the [Heat sensor sensitivity]

 Change the [Motion detection sensitivity] setting (decrease sensitivity) Change the [Motion detection range] setting (change the range)

Testing the sensor detection images

Confirm if images are correctly recorded before and after images are recorded for sensor detections • The operations described here are based on the VL-SWD501AZ series main monitor. See the Operating Instructions of the Video Intercom System for more information.

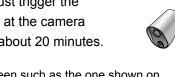
From the top menu of the main monitor, touch \longrightarrow \longrightarrow \longrightarrow $[Connected \ devices] \rightarrow [Camera] \rightarrow camera \ number \rightarrow [Sensor \ settings] \rightarrow$

Confirm the displayed message and then touch [Next].

• The camera waits for the sensors to be triggered.

You must trigger the sensor at the camera within about 20 minutes.

to 4 still images).



• A screen such as the one shown on the right is displayed on the main monitor, and images from when the detection occurred are retained (up

When recording ends, touch [Result] and confirm the recorded images (1-4).

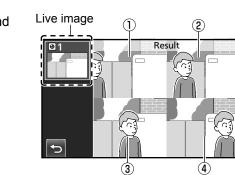
Touch an image (1)-4) to display it full-

To perform a recording test again, touch

and touch [Test again] when the screen

in the screen shown to the right,

in step 3 is displayed.



Displayed when recording is complete

(Example) When the heat sensor

makes a detection

When using default setting:

①: Image from 1 second before detection ② to ④: Images from time of detection until about 2 seconds after detection _____

You can use the [Recording before detection] setting to retain images from up to 2 seconds before the detection. (Operating Instructions of the Video Intercom System) ------

To end the operation, press OFF

-Adjusting sensor sensitivity and detection range –

When using the heat sensor

Using the sensor range caps

Cap type

If there are objects that you do not want the heat sensor to detect, you can limit the detectable area by attaching the sensor range caps.

■ Sensor range cap types and detection range

In addition to the standard cap (already attached to the camera), there are four cap types (caps 1-4). Each cap prevents a different area from being detected and can be attached at 45-degree increments. Refer to the following and attach the proper cap at the proper

• The detection area is an approximation for when the [Heat sensor sensitivity] setting (Lightain "Changing the sensitivity of the heat sensor", below right) is set to [Normal]. (Varies by ambient temperature at camera installation location)

Approximate detection range (view when looking from above)

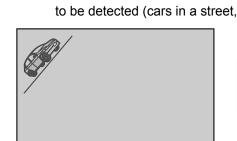
0 °C

Standard (attached to camera)	Detection range About 5 m	Detection range About 6 m	Detection range About 4 m
Cap 1 Cap 2	(Example) Cap 1	(Example) Cap 1	(Example) Cap 1
Cap 3 When you want to make one side not detectable	(Example) Cap 3	(Example) Cap 3	(Example) Cap 3
Cap 4 When you want to make both sides not detectable	About 5 m	About 6 m	About 4 n
The detection ra	nge rotates according to	the sensor range cap angl	e.

(Example 1) When there is an object on the right side of the viewable area that you do not want to be detected (house next door, street, etc.).

Attach one of caps 1-3 as shown on the right according to the area you do not want to be

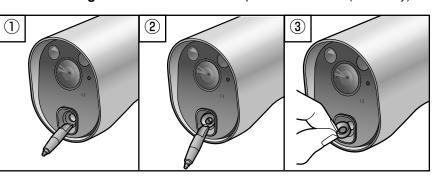
(Example 2) When there is an object in the top left of the viewable area that you do not want to be detected (cars in a street, etc.).



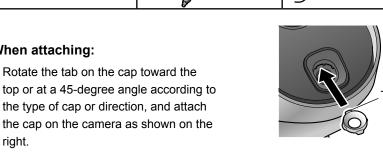
Attach one of caps 1-3 as shown above according to the area you do not want to be detected

■ Removing and attaching sensor range caps

When removing: Use the thick end of the cap removement tool (accessory) to remove.

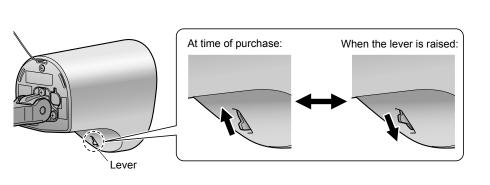


When attaching: Rotate the tab on the cap toward the top or at a 45-degree angle according to the type of cap or direction, and attach



Changing the angle of the heat sensor

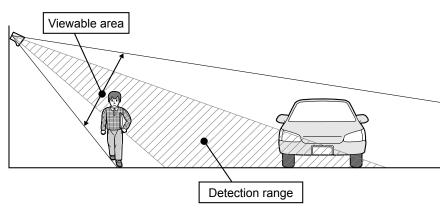
You can use the heat sensor adjustment lever on the camera to set the heat sensor to one of two positions.



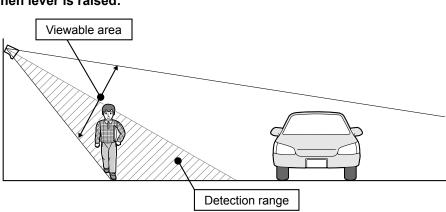
■ Lever position and sensor detection range

The detection range shown below is an approximation. (Varies by ambient temperature and environment of installation location)

At time of purchase:



When lever is raised:



Changing the sensitivity of the heat sensor

Use the main monitor to change the camera's [Heat sensor sensitivity] setting. (The heat sensor's range of detection varies by the selected sensitivity.)

 Changing the setting (Example: Video Intercom System VL-SWD501AZ series) Use the main monitor settings, select [Connected devices] \rightarrow [Camera] \rightarrow camera number \rightarrow [Sensor settings] \rightarrow [Heat sensor sensitivity] \rightarrow the sensitivity from the 4 lev-

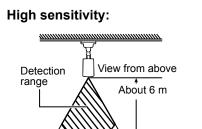
■ Heat sensor sensitivity and detection range

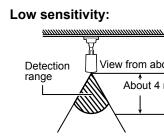
The detection range shown below is an approximation. (Varies by ambient temperature

Ambient temperature: 20 °C

Detection

Detection





environment absolutely requires it)

Very low sensitivity: View from above

Normal (default setting):

View from above

About 3 m

• When [High sensitivity] is selected, it is more likely that wind or objects outside the viewable area will cause detections. (Use this setting only when the installation

When using motion detection

Changing the detection range of the motion detection sensor Use the main monitor to change the camera's [Motion detection range] setting.

• By setting the areas that you do not want motion to be detected from the 12 blocks shown in the screen below, you can narrow down the areas that motion can be detected in.

— Changing the setting (Example: Video Intercom System VL-SWD501AZ series) ——

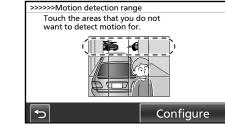
Use the main monitor settings, select [Connected devices] \rightarrow [Camera] \rightarrow camera number

 \rightarrow [Sensor settings] \rightarrow [Motion detection range] \rightarrow the areas not subject to detection from

the 12 blocks, and then touch [Configure]. (Example) When checking motion detection performance, a car in the street that

you do not want to be detected is displayed in the top of the screen

In the motion detection range screen, select the area containing the street that you do not want to be detected.





Changing the sensitivity of the motion detection sensor

Use the main monitor to change the camera's [Motion detection sensitivity] setting. (You can adjust the amount of motion that will be detected by setting the sensitivity setting.)

— Changing the setting (Example: Video Intercom System VL-SWD501AZ series) — Use the main monitor settings, select [Connected devices] \rightarrow [Camera] \rightarrow camera $number \rightarrow [Sensor\ settings] \rightarrow [Motion\ detection\ sensitivity] \rightarrow the\ sensitivity\ from\ the\ 4$

 High sensitivity Normal (default setting) Low sensitivity

motion, select [High sensitivity], and select [Low sensitivity] or [Very low sensitivity] if you

■ Motion detection sensitivity setting (4 levels) ,-----,

Very low sensitivity

If you want to detect small changes in

want to detect only drastic changes in motion. `\-----