2 INSTALLATION AND MAINTENANCE NOTES

<table>
<thead>
<tr>
<th>Warning</th>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold the main unit securely when you install or service it. If you remove your hands from the main unit when cables are connected to it, the main unit may fall and the connector cables may break or the circuit board may be damaged.</td>
<td></td>
</tr>
</tbody>
</table>

When servicing, the sensor can be hooked onto the base using the nylon wire loop.

2-1 INSTALLATION HINTS

- Mount the detector so that the majority of traffic flow is across the detection pattern.

1 PARTS IDENTIFICATION

- Far area mirror
- Masking plate for far area
- Fixing rubber form
- Near area mirror
- Fixing screw for far area
- Near area mirror
- Fixing screw for near area
- Fixing rubber form
- Angle adjustment guide
- Base
- Main unit
- Creep unit
- Window
- Fixing screw for the base
- Fixing screw for the cover
- Fixing rubber form (*1)
- Fixing rubber form (*1)
- Masking plate for near area (*1)
- Fixing screw for near area (*1)
- Arrow marking

*1: Not used for the SIP-4010/5 and SIP-404/5.

- 2.3-4.0 m (7.6-13 ft.)
3 INSTALLATION AND ANGLE ADJUSTMENT

3-1 Wall Mounting

(1) Attach the paper template (an accessory) onto the wall, and drill a 6-mm dia. mounting hole and a cabling hole. Insert the anchor bolt (an accessory) into the board mount hole.

(2) Using an allen key, remove the main unit from the base.

(3) Drill through the bushing of the wiring hole, pass the cable through the hole, and secure the base to the wall.

(4) Connect the cable to the terminal block (see Step 3-3).

(5) Mount the main unit onto the base.

Cautions>>
When mounting the main unit, take care not to trap the nylon wire loop. Also, take care not to get your fingers caught.

(6) Check to see that the various settings and operations are correct.

Caution>>
When the red LED flashes after the power turns on, this signifies that the system is warming up. Wait for approximately 60 seconds.

3-2 Inside View of the Base

3-3 WIRING

*1: TAMPER terminals to be connected to a 24 hour supervisory loop.

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TROUBLE OUTPUT</td>
<td>Trouble out is used for anti-masking signal. When an object is placed close to the lens surface, for a period of more than 20 seconds (approx.), the IR anti-masking circuit will activate and generate a trouble signal.</td>
</tr>
<tr>
<td>TAMPER OUTPUT</td>
<td>It is detected when the cover is opened.</td>
</tr>
<tr>
<td></td>
<td>It is detected when the main unit is removed from its base.</td>
</tr>
<tr>
<td></td>
<td>Anti-Rotation: Damage sustained by the main unit is detected. When the system power switch is turned on while the cover is closed, the mounting position of the main unit itself will be determined and stored in memory after approximately 10 seconds. Then, if the main unit is impacted in a horizontal or vertical direction and if the position of the main unit has changed, damage sustained by the main unit will be detected. However, if you remove the cover while keeping the system power turned on, and if you close the cover again after correcting the position of the main unit, the new position of the main unit will be stored in memory after approximately 10 seconds.</td>
</tr>
</tbody>
</table>
DETECTION AREA SETTING

You can adjust the detection area by 90 degrees in a horizontal direction and by 10 degrees in a vertical direction. Correct the vertical detection angle according to the mounting height of the sensor unit.

<table>
<thead>
<tr>
<th>WIRE SIZE</th>
<th>SIP-3020/5, SIP-4010/5, SIP-404/5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12V DC</td>
</tr>
<tr>
<td>0.33 mm²</td>
<td>460</td>
</tr>
<tr>
<td>(AWG22)</td>
<td>(1570)</td>
</tr>
<tr>
<td>0.52 mm²</td>
<td>760</td>
</tr>
<tr>
<td>(AWG20)</td>
<td>(2490)</td>
</tr>
<tr>
<td>0.83 mm²</td>
<td>1210</td>
</tr>
<tr>
<td>(AWG18)</td>
<td>(3970)</td>
</tr>
</tbody>
</table>

Cautions:
To rotate the main unit counterclockwise, loosen the RH-side adjustment screw. To rotate the main unit clockwise, loosen the LH-side adjustment screw. Otherwise, you may find it difficult to tighten or you may find that you cannot tighten the adjustment screw when you are securing the main unit.

4-1 Main Detection Area Setting

(1) Adjust the angle of the main unit in a horizontal direction so that you can cover the desired detection area.

Align the arrow of the main unit with the ‘Angle adjustment guide’ of the adjustment screw. The main unit is usually adjusted within the width of this guide.

Cautions:
If the mounting wall is at an angle, the arrow of the main unit may exceed the top or bottom limit of ‘Angle adjustment guide’. Always check this using the area viewfinder or the walk tester. If the detection area is too high or too low, an object outside the detection area may be detected or incorrect object detection may occur.

(2) Adjust the angle of the main unit in a vertical direction so that you can cover the desired detection area.

(3) Remove the cover.

The cover is linked to the main unit by nylon wire loop so that the cover does not fall. Do not pull the cover using excessive force.
(4) Mount the area viewfinder.

1. Put the red string round the main unit.
2. Insert and mount to the main unit.
3. Insert the area plate into the slot.
4. Determine the detection direction (see Step 4).

Mounting tips:
- Engage the convex section of the area viewfinder fixing arms with the notches of the main unit, and insert and mount the arms.
- Mount the area plate so that an arrow of the plate center section faces upward and the letter surface can be seen.
- Insert the area plate into the top and bottom grooves of the area viewfinder until the plate is stopped by the ribs.

Area plate (optional)

Inspection window

(5) Fine adjust the main unit angle in vertical and horizontal direction by observing the target area through the area viewfinder.

1. To change the direction of the inspection window, rotate the area viewfinder in a horizontal direction until it clicks and stops.
2. Move your face close to the viewfinder so that your eye comes within 5 mm of the inspection window (lens surface).

Area viewfinder AVF-1 (optional)

(6) Securely tighten the adjustment screw that you have loosened.

(7) Connect the walk tester (optional) to the sensor unit, and check that the detection area is correct.

Adjusting tips:
If you experience any of the following, see Step 10.

Cautions:
- The area viewfinder is a supporting tool for detection area adjustment.
- After you have adjusted the detection area using the area viewfinder, always check the area using the walk tester.
- Never look directly into the sun through the area viewfinder.
- After you have used the area viewfinder, store it away from direct sunlight.

Securely tighten the adjustment screw that you have loosened.

Connect the walk tester (optional) to the sensor unit, and check that the detection area is correct.

When the power selector switch is turned to "POWER SUPPLY FROM SENSOR" position after plugging the cable into the walk tester connector, a continuous beeping sound will be heard.

When a pedestrian first enters the detection area, the strong and weak beeps will sound alternately.

When the entirety of a pedestrian's body is detected, the strong beep will sound continuously.
4-2 Creep Zone Detection Area Setting

(1) Adjust the creep zone horizontally.

The creep zone detection area can be adjusted between -90° and 90° horizontally.

![Creep zone adjustment guides](image)

(2) Adjust the creep zone vertically.

The creep zone detection area can be adjusted between -3° and 3° vertically.

![Creep zone adjustment guides](image)

(3) Connect the walk tester (optional) to the sensor unit, and check that the detection area is correct.

1. When the power selector switch is turned to “POWER SUPPLY FROM SENSOR” position after plugging the cable into the walk tester connector, a continuous beeping sound will be heard.
2. When a pedestrian first enters the detection area, the strong and weak beeps will sound alternately.
3. When the entirety of a pedestrian’s body is detected, the strong beep will sound continuously.

Cautions>>

When you are checking the detection area, take care not to cover the shaded area of the window with the walk tester or its cable. If infrared beams to the sensor are partially shielded, the detection sensitivity will drop and the detection operation may fail.

If it is difficult to detect an object>>

1. Set the detection logic switch to the “OR” position (see Step 5-2). If the sensor is OK when you have completed the walk test, return the logic switch to the “AND” position.
2. Adjust the sensor sensitivity switch (see Step 5-1).

To mask the detection area>>

<table>
<thead>
<tr>
<th>Detection area</th>
<th>How to mask the area</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Near area</td>
<td>Use the masking plate (mounted in the main unit).</td>
<td>8-1</td>
</tr>
<tr>
<td></td>
<td>Attach the masking seal (an accessory) to the area mirror surface.</td>
<td>8-2</td>
</tr>
<tr>
<td>Far area</td>
<td>Use the switch.</td>
<td>5-3</td>
</tr>
<tr>
<td></td>
<td>Use the masking plate (mounted in the main unit).</td>
<td>Step 7</td>
</tr>
</tbody>
</table>

* Creep zone cannot be masked.
5 FUNCTION SETTING

5-1 Sensitivity Selector Switch for Far Area, Near Area and Creep Zone

You can change the sensitivity for far area detection, near area detection and creep zone detection independently.

<table>
<thead>
<tr>
<th>SELECTOR POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH</td>
<td>Suitable for sites requiring a level of sensitivity higher than &quot;H&quot;</td>
</tr>
<tr>
<td>H</td>
<td>Suitable for sites requiring a level of sensitivity higher than &quot;M&quot;</td>
</tr>
<tr>
<td>M (Factory default)</td>
<td>Suitable for standard applications</td>
</tr>
<tr>
<td>L</td>
<td>Suitable for hostile and narrow area</td>
</tr>
</tbody>
</table>

5-2 Detection Logic Selector Switch

Detection area of SIP-3020/5, SIP-4010/5 and SIP-404/5 consist of two types of plane detection areas in an alternative manner constructed by two pairs of pyro-elements, for the near and the creep zone.

<table>
<thead>
<tr>
<th>SELECTOR POSITION</th>
<th>STATUS</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>OR (Factory default)</td>
<td>A sensor signal is output when an object is detected in either of the two detection areas. Use this mode when you adjust the detection area. Switch to AND mode after you have finished the detection area adjustment.</td>
</tr>
<tr>
<td>DWN</td>
<td>AND</td>
<td>Use this mode to reduce instances of incorrect detection of objects. The sensor signal is output only when an object is detected within the two detection areas. If any objects are blocking multiple detection areas, use OR mode.</td>
</tr>
</tbody>
</table>

Cautions>>
If the red LED keeps blinking for approx. 60 seconds after turning the power on, turn the power off and then on again.

5-3 Detection Range Selector Switch

Cancels the far area detection. The detection area is reduced as shown below.

<table>
<thead>
<tr>
<th>SELECTOR POSITION</th>
<th>STATUS</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>OFF</td>
<td>Cancels the far area detection. The detection area is reduced as shown below.</td>
</tr>
<tr>
<td>DWN</td>
<td>ON (Factory default)</td>
<td>Enables the far area detection.</td>
</tr>
</tbody>
</table>

Cautions>>
If you cancel the far area detection, the detection distance is limited to approximately 20 meters (65ft.). Be sure to readjust and check the detection area using the area viewfinder and the walk tester.

5-4 Alarm Interval Switch

You can set an interval (4 different times) to suspend the alarm signal output.

<table>
<thead>
<tr>
<th>SELECTOR POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>0 sec (Factory default)</td>
</tr>
<tr>
<td>DWN</td>
<td>15 sec</td>
</tr>
<tr>
<td>DWN</td>
<td>30 sec</td>
</tr>
<tr>
<td>DWN</td>
<td>60 sec</td>
</tr>
</tbody>
</table>

Cautions>>
If the red LED keeps blinking for approx. 60 seconds after turning the power on, turn the power off and then on again.
DETECTION AREA

Applicable models: SIP-3020/5 SIP-4010/5 SIP-404/5

TOP VIEW (Installation height 4.0 m (13ft.))

SIDE VIEW (Installation height 4.0 m (13ft.))

Applicable models: SIP-3020/5 SIP-4010/5 SIP-404/5

TOP VIEW (Installation height 2.3 m (7.6ft.))

SIDE VIEW (Installation height 2.3 m (7.6ft.))

Applicable models: SIP-3020/5 SIP-4010/5 SIP-404/5

TOP VIEW (Installation height 2.3 m (7.6ft.))

SIDE VIEW (Installation height 2.3 m (7.6ft.))

Applicable models: SIP-3020/5 SIP-4010/5 SIP-404/5

TOP VIEW (Installation height 2.3 m (7.6ft.))

SIDE VIEW (Installation height 2.3 m (7.6ft.))
7 MASKING THE FAR AREA SENSOR

The far area mirror mounted in the main unit has 2 far masking plates; one at the right side of this mirror and the other at the left side of this mirror. You can mask the detection area by changing the position of these masking plates.

**Cautions>>**
- You can only mask the detection area from its outside to its inside using the masking plates. You cannot mask only the inside detection area.
- However, if you need to mask the inside detection area only, use the white space (margin) of the near area masking seal (an accessory) for the masking. Attach the seal and mask all mirrors that you need to shield.

**Cautions>>**
- The window is linked to the main unit by nylon wire loop so that the window does not fall. Do not pull the window using excessive force.
- After you have masked the detection areas, mount the window and place the excessive nylon wire loop inside the main unit.

**How to remove the window>>**
1. Remove the masking plate from the storage, and check the detection area and the mirror you use by referring to the area chart.
2. Attach the masking plate to the mirror, and secure it to the ribs.
3. Insert the fixing rubber form to secure the knob of the masking plate.

**How to mount the window>>**
- Press the left bottom hole with your finger, and pull the window up.

**Applicable models**
- SIP-3020/5
- SIP-4010/5
- SIP-404/5

**Applicable models**
- SIP-3020/5
- SIP-4010/5
- SIP-404/5

**Applicable models**
- SIP-3020/5
- SIP-4010/5
- SIP-404/5

**Applicable models**
- SIP-3020/5
- SIP-4010/5
- SIP-404/5
8 MASKING THE NEAR AREA SENSOR

8-1 Masking the Detection Areas using Masking Plates

The near area mirror mounted in the main unit has 2 near masking plates; one at the right side of this mirror and another at the left side of this mirror. You can mask the detection area by changing the position of these masking plates.

<caution>
You can mask the outside detection areas only; they are areas 1 and 6. Use the area masking seals (an accessory) to mask the other detection areas (see Step 8-2).
</caution>

Applicable models

SIP-3020/5 SIP-4010/5 SIP-404/5

---

1. Remove the masking plate from the storage, and check the detection area and the mirror you use by referring to the area chart.
2. Attach the masking plate to the mirror, and secure it to the ribs.
3. Insert the fixing rubber form to secure the knob of the masking plate.

---

If tree branches or other moving objects are in the path of the detection beam.
8-2 Masking the Detection Areas using Masking Seals

Using the tweezers (an accessory), carefully attach the area masking seals (an accessory) to the near area mirror.

Cautions>>
- If you need to adjust the detection area again, be sure to loosen the fixing screw. If you try to move the main unit without loosening the fixing screw, the unit may be damaged.
- When you mount the cover, place the excessive nylon wire loop in the main unit. If the wire has been pinched by the window and the cover, rain drops may be able to enter into the main unit.

(1) After you have adjusted all sensor items, securely tighten all adjustment screws that you have loosened. Finally, securely tighten the bottom fixing screws.

(2) Mount the cover.

9 TERMINATION PROCEDURE
10 OPERATION TEST

10-1 If There is a Public Street Where People Walk or Cars Drive by the Detection Area

Points>>
Reduce the size of the detection area so that it does not include any public streets.

(1) Check to see that the arrow of the main unit is within the width of "Angle adjustment guide" on the adjustment screw.

(2) Using the area viewfinder, check to see that the detection area does not include any public streets.

(3) If the detection area does go beyond a public street, correct the vertical angle of the main unit. However, exercise care so that the arrow does not move away significantly from the “Angle adjustment guide” position.

If the arrow does move away significantly from the “Angle adjustment guide” position:
Mask the far area detection area using the masking plate or by using the far area masking switch. You may be required to also mask the near area detection area under specific sensor installation conditions (see Steps 5 and 8).

(4) When a person walks along the street or a car drives along it, check the detection area using the walk tester.

Points>>
You cannot mount and use both the area viewfinder and walk tester simultaneously.

Cautions>>
The detection area may increase if there is a large difference in temperature between the moving object and the background.

Cautions>>
A heat source beyond the detection area may cause a false alarm due to the reflection of heat off the ground. Examples of types of surfaces that reflect include water (puddles), wet roads, smooth concrete surfaces and asphalt roads. If the source of the heat is strong and/or the reflection rate is high, the detection distance will be longer than required and may detect unnecessary objects beyond the target area. Therefore, select the detection range position according to the ground conditions of the installation site.

10-2 If Tree Branches or Grass are Detected When They Move Within the Detection Area

Points>>
Adjust the detection area so that it does not cover tree branches or grass that may move when the wind blows.

(1) Check to see that the arrow of the main unit is within the width of "Angle adjustment guide" on the adjustment screw.

(2) Using the area viewfinder, check to see that the detection area does not cover tree branches or grass that may move when the wind blows.

(3) Use the walk tester to listen for sound level changes when there is no apparent activity in the detection area. Adjust the detection area so that it does not detect unwanted areas.

If the sound level changes, some part of the detection area must be active (i.e.: an object is moving).

(4) Use the walk tester and locate the part of the detection area that is active. Change the walk tester selector switch position and determine whether the active part of the detection area is far or near.

(5) Using the area viewfinder again, locate the active detection area.

(6) Mask the active detection area. To do this, mask the area using the masking plate or the masking seal. Otherwise mask the area using the far area masking switch (see Steps 5, 7, and 8). Creep zone cannot be masked. Adjust the detection area again (see Step 4-2).

(7) Using the walk tester again, check that the sound level changes. If the sound level does not change excessively, you can finish the adjustment.

Points>>
You cannot mount and use both the area viewfinder and walk tester simultaneously.

Cautions>>
If the red LED keeps blinking for approx. 60 seconds after turning the power on, turn the power off and then on again.

If the red LED keeps blinking for approx. 60 seconds after turning the power on, turn the power off and then on again.

LED STATUS

<table>
<thead>
<tr>
<th>Detector Status</th>
<th>LED Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>During power ON</td>
<td>Blinks.</td>
</tr>
<tr>
<td>During standby</td>
<td>Turns OFF.</td>
</tr>
<tr>
<td>When detected (in far/near area)</td>
<td>Lights.</td>
</tr>
<tr>
<td>When detected (in creep zone)</td>
<td>Lights.</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Applicable models</th>
<th>SIP-3020/5</th>
<th>SIP-4010/5</th>
<th>SIP-404/5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection method</td>
<td>Passive infrared</td>
<td>Passive infrared</td>
<td>Passive infrared</td>
</tr>
<tr>
<td>Coverage (Main area)</td>
<td>30 x 20m (100 x 65ft.)</td>
<td>40 x 10m (130 x 33ft.)</td>
<td>40 x 4m (130 x 13ft.)</td>
</tr>
<tr>
<td>Coverage (Creep zone)</td>
<td>3 x 5 m (10 x 17 ft.) at 2.3 m (7.6ft.) height</td>
<td>6 x 9 m (20 x 30 ft.) at 4 m (13ft.) height</td>
<td>Detection angle adjustable</td>
</tr>
<tr>
<td>Number of detection zones</td>
<td>Main area 74 zones</td>
<td>48 zones</td>
<td>24 zones</td>
</tr>
<tr>
<td>Mounting height</td>
<td>2.3 to 4m (7.6 to 13ft.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power input</td>
<td>11 - 16V DC</td>
<td>22 - 26V AC</td>
<td></td>
</tr>
<tr>
<td>With optional heating unit</td>
<td>22 - 26V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current draw</td>
<td>40mA max. (12V DC)</td>
<td>75mA max. (24V AC)</td>
<td></td>
</tr>
<tr>
<td>With optional heating unit</td>
<td>415mA max. (24V AC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation indicator</td>
<td>Far alarm and Near alarm</td>
<td>Red LED</td>
<td>Red LED</td>
</tr>
<tr>
<td>Alarm period</td>
<td>Approx. 2 sec.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warm-up period</td>
<td>Approx. 60 sec.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detection range selector</td>
<td>Far area: ON / OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm interval period</td>
<td>0 / 15 / 30 / 60 sec.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detection logic selector</td>
<td>AND/OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tamper output</td>
<td>N.C. 28V DC, 0.1A max.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trouble output</td>
<td>N.C. 28V DC, 0.2A max.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main area</td>
<td>N.C. 28V DC, 0.2A max.</td>
<td>N.O. 28V DC, 0.2A max.</td>
<td></td>
</tr>
<tr>
<td>Creep zone</td>
<td>N.C. 28V DC, 0.2A max.</td>
<td>N.O. 28V DC, 0.2A max.</td>
<td></td>
</tr>
<tr>
<td>Sensitivity selector</td>
<td>Far: SH/H/M/L Near: SH/H/M/L</td>
<td>Creep zone: SH/H/M/L</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Without optional heating unit: -25 to +60°C (-13 to +140°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With optional heating unit:</td>
<td>-40 to +60°C (-40 to +140°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP rating</td>
<td>Main unit: IP65 Chassis: IP65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>248 x 102 x 266 mm (9.8 x 4.0 x 10.5 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1.4 kg (48 oz.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Screws, Paper template, Allen key, Area masking seal, Tweezers, Instruction manual, Area plate, Fixing rubber form</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OPTION

- OPM-WT, AWT-3 - Audio Walk Tester
- AVF-1 - Area View Finder
- SIP-MINHOOD - Sun/Snow shield
- SIP-HU - Heating unit

**Cautions>>**

When SIP-HU is used, the power for SIP unit should be 22 - 26V AC.

These units are designed to detect movement to activate CCTV system. Being only part of a complete surveillance system, we cannot accept responsibility for any damage or other consequences resulting form the activation of the unit. This product confirms to the EMC Directive 2004/108/EC.

Specifications and design are subject to change without prior notice.

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