

INSTALLATION INSTRUCTIONS



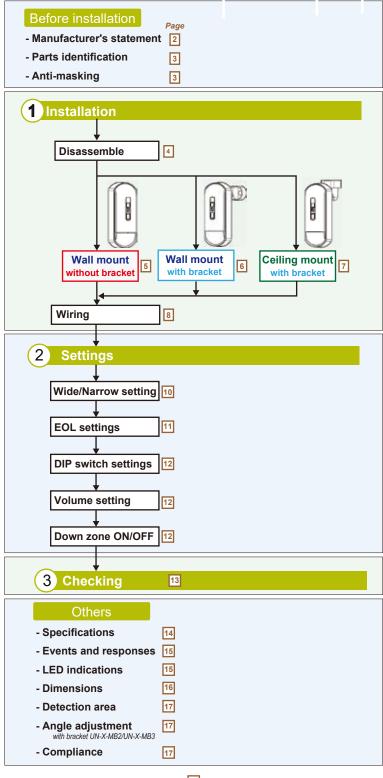


UNii X series

GRADE 3 MODELS

	Wide/Narrow area Flip lens	PIR	Anti-masking	Microwave
UNii UN-X-PIR/AM detector (15m)	~	✓	✓	_
UNii UN-X-DT/AM detector (15m) *1	✓	✓	✓	✓ (10.525 GHz)

<< Contents >>



Before installation

- Manufacturer's statement

Symbol Meaning

Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.

Failure to follow the instructions provided with this indication **⚠** Caution and improper handling may cause injury and/or property damage. Symbol

Meaning



Check mark indicates recommendation.



Nix sign indicates prohibition.

Special attention is required to the section of this symbol.





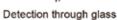




Wetting with water

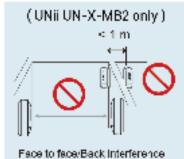








Partial/complete obscuration of the detection area.

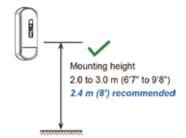












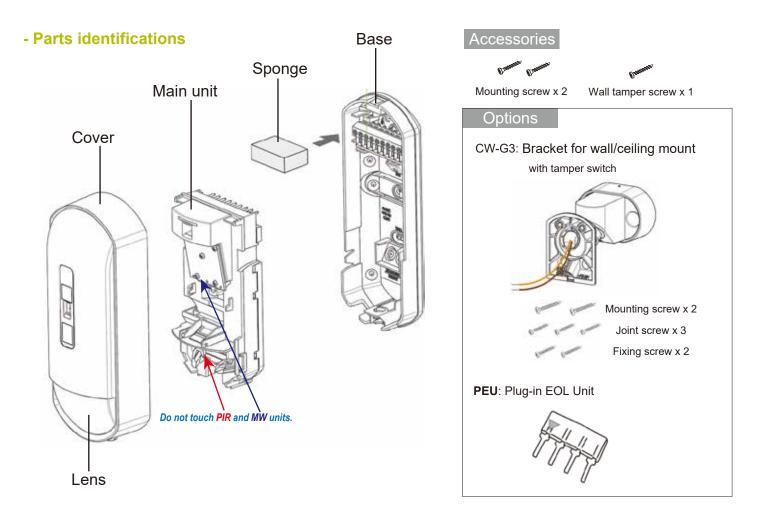








Follow to the regulations



- Anti-masking

Overview of anti-masking

If the front of the lens is covered with obstacles over 20 seconds, an alarm and trouble will be output.

Sensitivity setting

(Refer to "2-3 Dip switch/Volume settings" - " 45 Anti-masking sensitivity")

Normally, use it in "Middle" .

Select the "High" setting if required by any standards or sensitivity is insufficient.

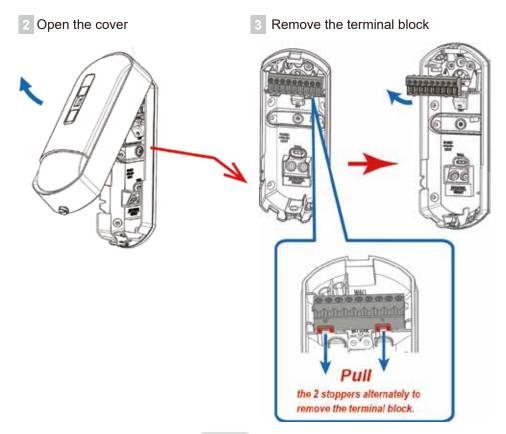
If there are many false alarms, you can use "Low", but please note that it may not be output depending on the materials and colors of the obstacles.

1 Installation

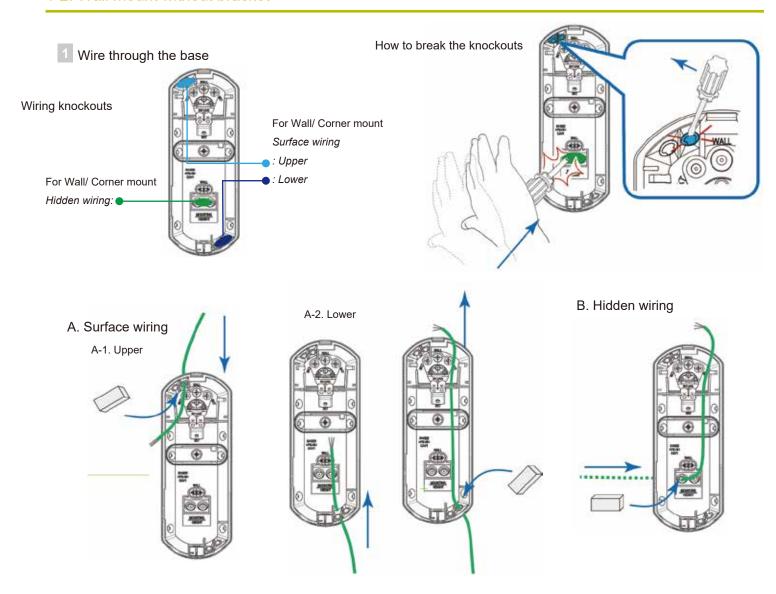
1-1. Disassemble

1 Unlock the cover

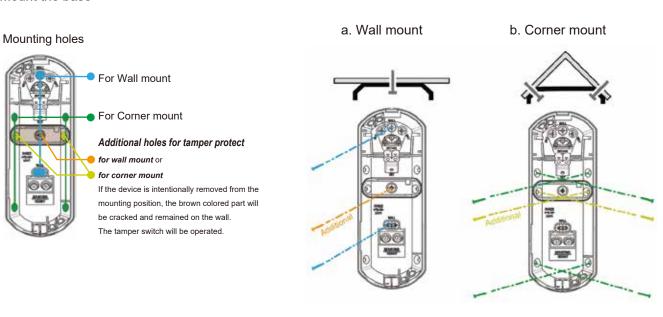




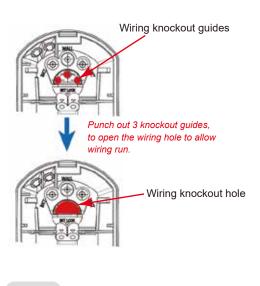
NOTE You do not need to remove the terminal block if it does not interfere with the mounting of the base.



2 Mount the base



1 Wire and mount on the wall



Mounting screw
x 2

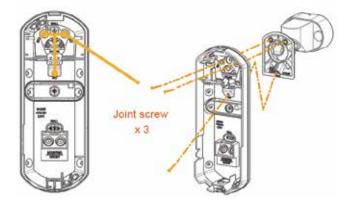
A Caution

If the mounting surface is uneven, the tamper may not work well.

NOTE

See page 5 for how to break the knockouts.

2 Join the base on the bracket

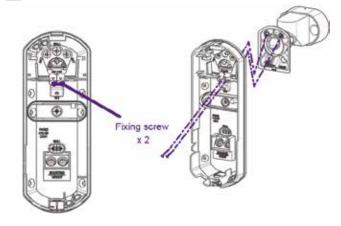


NOTE

Adjust the detection direction while jointing. Confirming with a walk test is required.

--> Refer to "3-1. Walk test"

3 Fix the base with the fixing screws



The bracket is basically jointed using 3 holes and 3 joint screws.

Also use 2 additional fixing holes if a stronger fixation is required.

NOTE

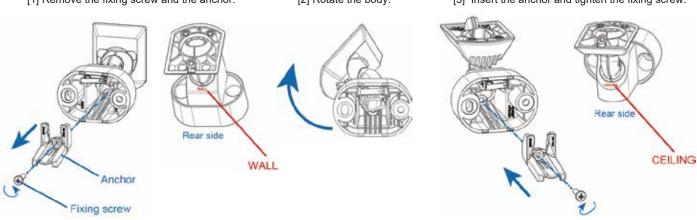
2 fixing screws are required for the Grade 2 and higher grade installation.

How to change the bracket to the ceiling mounting

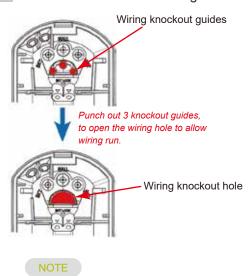
[1] Remove the fixing screw and the anchor.

[2] Rotate the body.

[3] Insert the anchor and tighten the fixing screw.

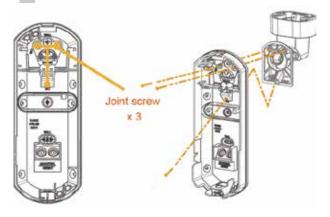


Wire and mount on the ceiling



See page 5 for how to break the knockouts.

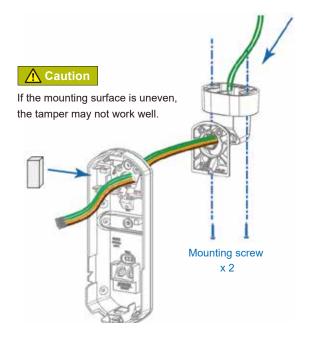
2 Join the base on the bracket



NOTE

Adjust the detection direction while jointing. Confirming with a walk test is required.

--> Refer to "3-1. Walk test"



Fixing screw x 2

The bracket is basically jointed using 3 holes and 3 joint screws.

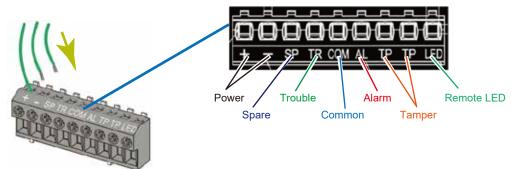
Also use 2 additional fixing holes if a stronger fixation is required.

NOTE

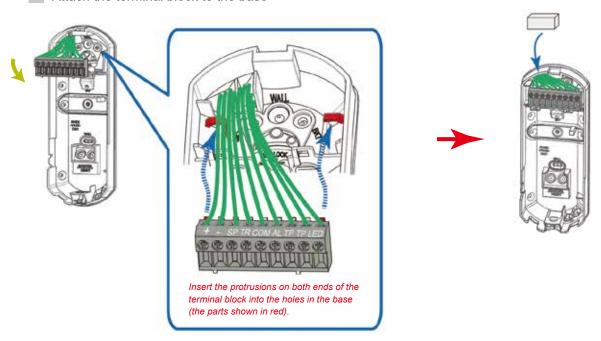
2 fixing screws are required for the Grade 2 and higher grade installation.

1-5. Wiring

1 Wire to the terminal block



2 Attach the terminal block to the base



Power cable length

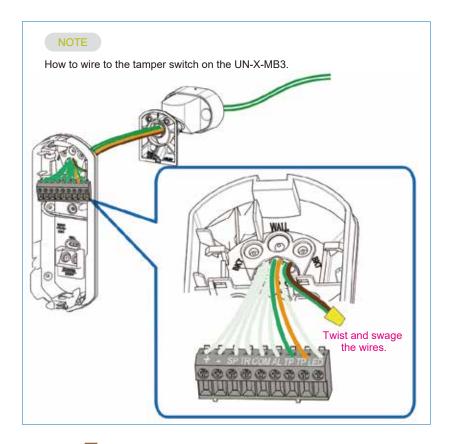
The power cable should be limited to the following length.

UN-X-PIR/AM

WIRE GAUGE	12 V DC	14 V DC
AWG 22	360 m	780 m
(0.33 mm ²)	(1,180 ft.)	(2,560 ft.)
AWG 20	570 m	1,230 m
(0.52 mm ²)	(1,870 ft.)	(4,040 ft.)
AWG 18	900 m	1,960 m
(0.83 mm^2)	(2,950 ft.)	(6,430 ft.)

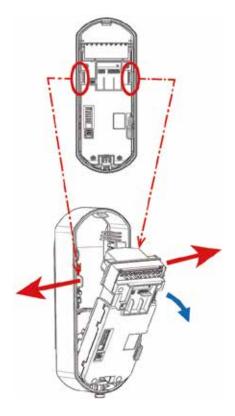
UN-X-DT/AM

WIRE GAUGE	12 V DC	14 V DC
AWG 22	270 m	590 m
(0.33 mm ²)	(890 ft.)	(1,940 ft.)
AWG 20	430 m	940 m
(0.52 mm ²)	(1,410 ft.)	(3,080 ft.)
AWG 18	690 m	1,490 m
(0.83 mm ²)	(2,260 ft.)	(4,890 ft.)



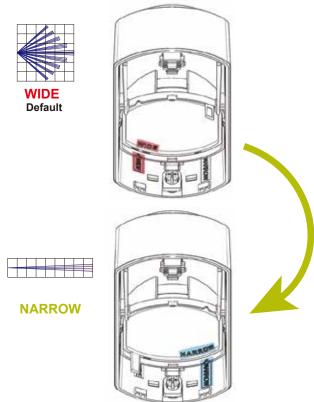
2 Settings

- 2-1. Wide/Narrow setting
- Go to 2-2 on 11 to skip 2-1 when using the default "Wide" setting.
- 1 Remove the main unit



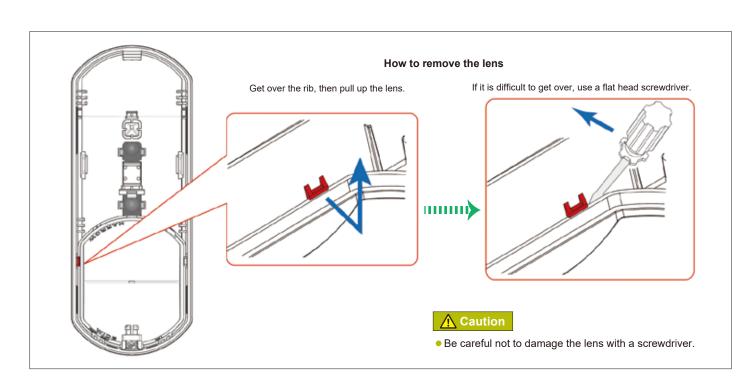
NOTE

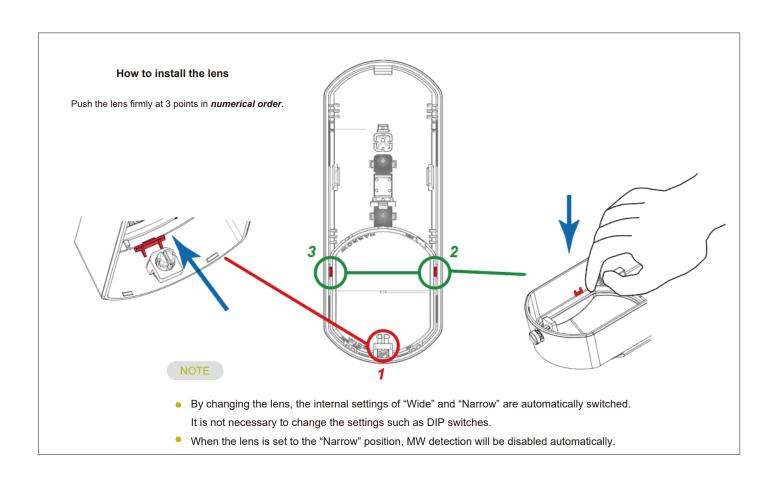
 Opening the hooked part as the red arrows indicate makes it easy to take out the main unit. 2 Change the Flip lens from "Wide" to "Narrow"

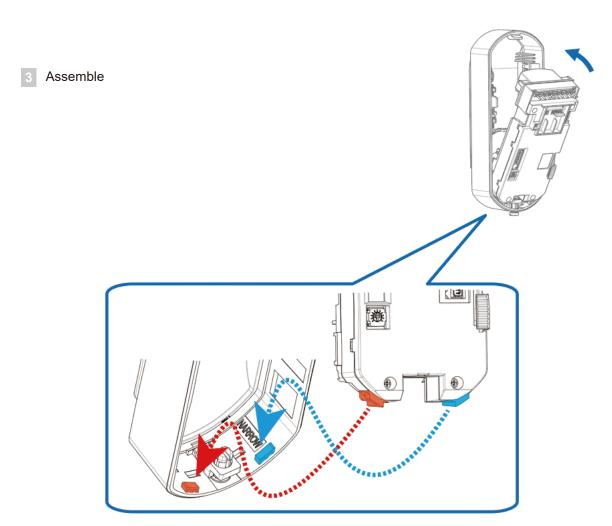


NOTE

- Install the lens so that the letters on the cover and on the lens match your intention.
- By changing the lens setting, the internal circuit automatically switches between Narrow and Wide.



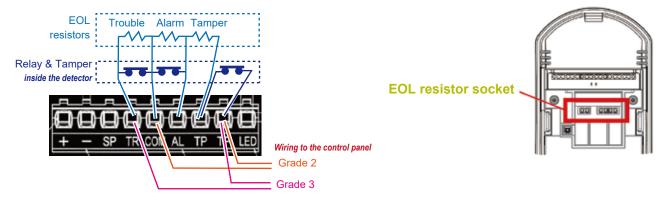




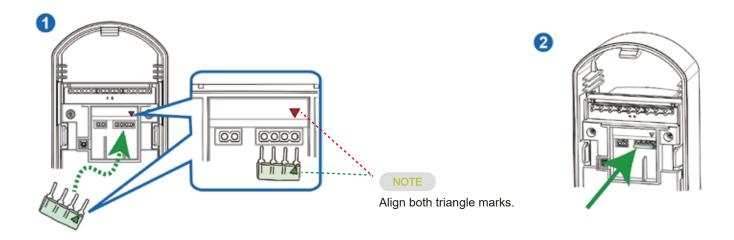
2-2. EOL settings

Select whether to use the EOL resistor (End Of Line resistor) socket for

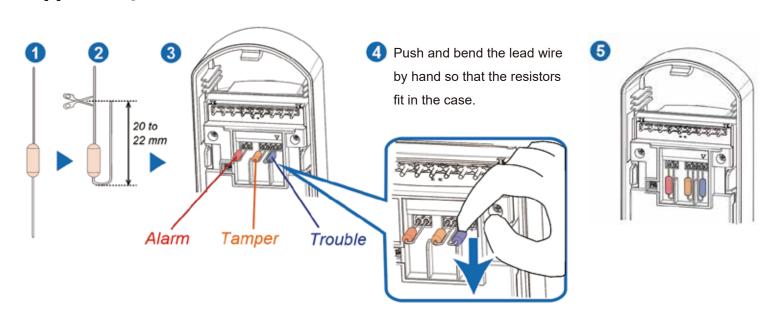
- [1] PEU (option sold separately), or
- [2] Processing lead wires of the resistors (not included)

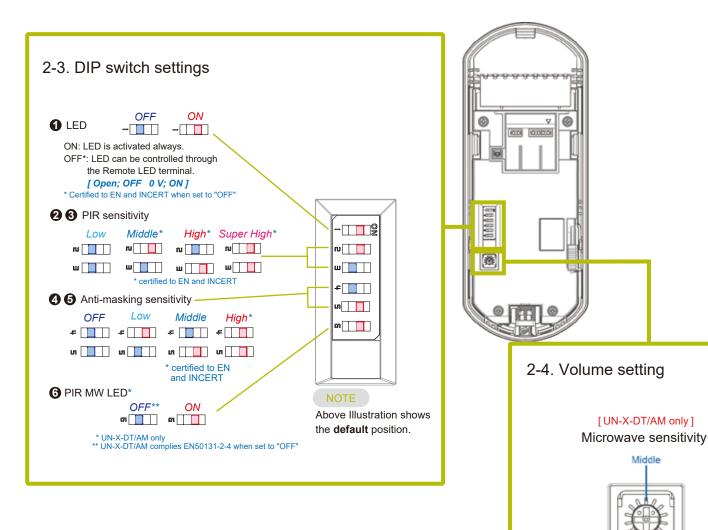


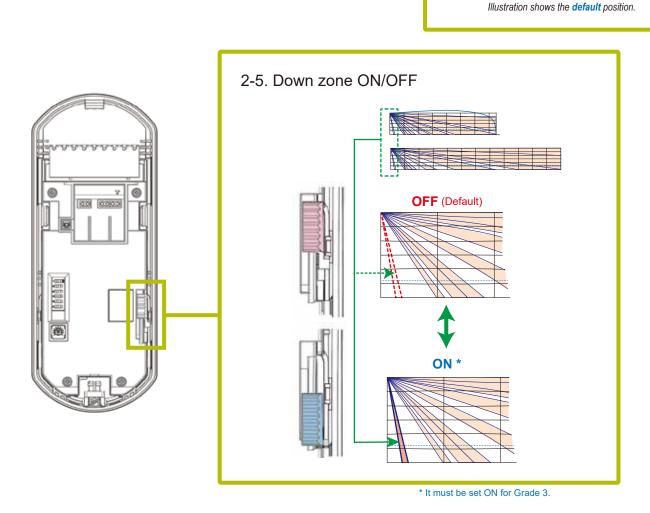
[1] PEU: Plug-in End of line resistor Unit



[2] Processing lead wires of the resistors





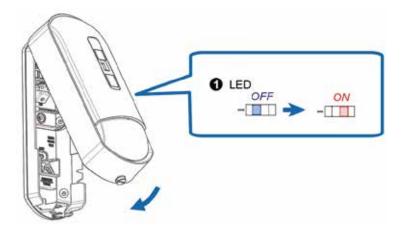


[UN-X-DT/AM only]

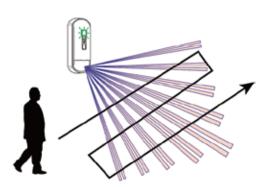
High

3-1. Walk test

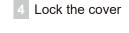
1 Confirm that the LED switch is "ON", then close the cover.

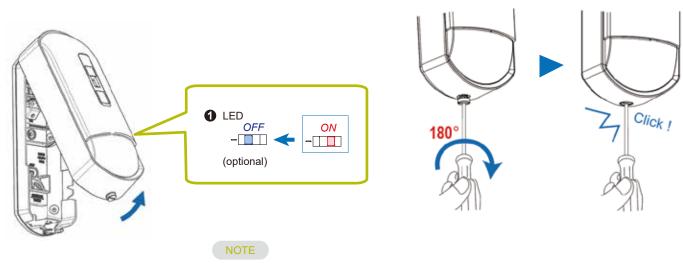


Walk in the detection area to check the detecting performance via LED indication.



- Return the LED switch to "OFF" after the walk test, if necessary.





Conduct a walk test at least once a year.

- Specifications

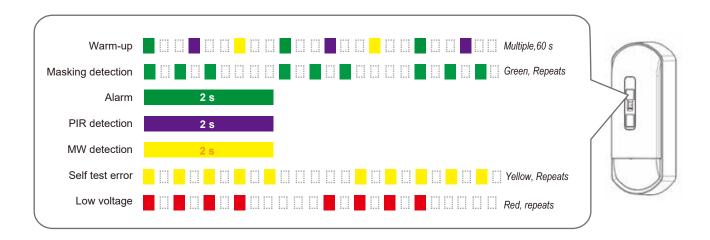
Models		UN-X-PIR/AM	UN-X-DT/AM	
Installation				
Detection meth	nod	Passive infrared	Passive infrared and Microwave	
Coverage		Wide: 15 m (50 ft.) 85°, Narrow: 24 m (80 ft.) 5° (No MW detection at "Narrow" setting)		
Detection zones		Wide: 80 zones/ Narrow: 20 zones		
Mounting height		2.0 to 3.0 m (6'7" to 9'8")		
Alarm period		2.0 ± 0.5 s		
Warm-up period		Approx. 60 s (LED blinks)		
LED indicator		Switchable ON/OFF Multiple: Warm-up Green: Alarm and Masking detection Yellow: Self test error Red: Low voltage	Switchable ON/OFF Multiple: Warm-up Green: Alarm and Masking detection Purple: PIR detection Yellow: Microwave detection and self test error Red: Low voltage	
Electrical				
Power input		9.5 to 16 V DC		
Current draw		12 mA (normal) 16 mA (max.) at 12 V DC	16 mA (normal) 21 mA (max.) at 12 V DC	
Dalamant	Trouble	N.C. 24 V DC 0.1 A max. (Resistive load)		
Relay output	Alarm	N.C. 24 V DC 0.1 A max. (Resistive load)		
	Tamper	N.C. 24 V DC 0.1 A max. (Resistive load) (Open when the cover is removed.)		
Remote LED		Terminal: open = OFF 0 V = ON		
Environmenta	al			
Operation tem	perature	-20°C to +50°C(-4°F to +122°F)	-20°C to +45°C(-4°F to +113°F)	
Temperature compensation		Digital (SMDA)		
Environmental humidity		95% max.		
RF interference	е	No alarm 10 V/m		
Mechanical				
Dimension		H: 159.1 x W: 62.2 x D: 55.7 mm (H: 6.26" x W: 2.45" x D: 2.19")		
Weight		Approx. 180 g (6.35 oz)	Approx. 200 g (7.05 oz)	
Mounting		Wall, Corner (Indoor) (with Bracket : Wall, Corner, Ceiling)		

- Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

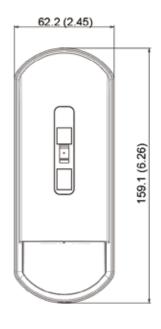
- Events and responses

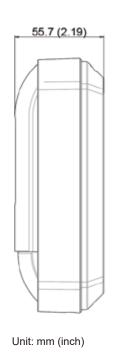
Events	Triggered by	Output & Remarks
Anti-masking detection	Objects close to the lens surface over 20 sec.	Alarm and Trouble signals.
Local self test	Controlled by detector's circuit periodically. (PIR and Microwave are tested at the same time.)	Fail; Trouble signal. (Detector doesn't work for about 10 seconds during local self test.)
Walk test	Conduct a walk test at least once a year.	Keep at least 1 meter from the detector and clear of any objects.
Low voltage detection	Voltage drop.	Trouble signal

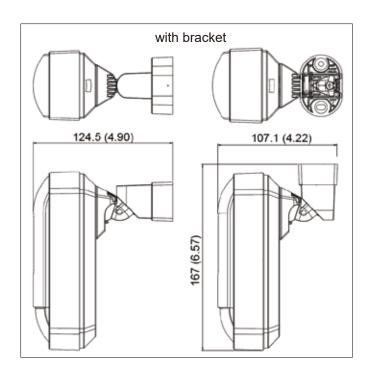
- LED indications



- Dimensions

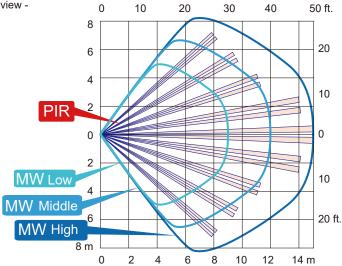




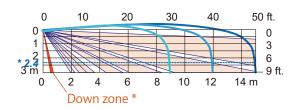


- Detection area

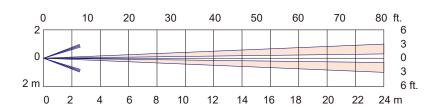
Wide - Top view -



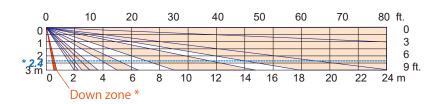
Wide - Side view -



Narrow - Top view -



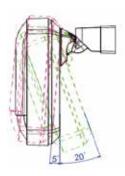
Narrow - Side view -

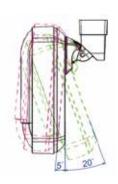


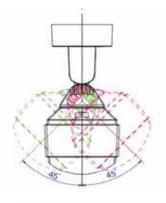
NOTE

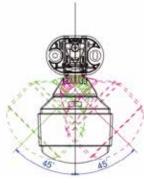
- The above detection ranges are for guidance only.
 The range and sensitivity settings for each detector must be set accordingly for installation conditions.
- For EN and INCERT compliance, refer to "2-3 Dip switch setting.
- The * 2.4 dotted line indicates the recommended mounting height.
- When "Narrow" is selected in the lens setting, MW detection will be stopped.
- Down zone * can be switched off by Down zone ON/OFF (See 2-5).

- Angle adjustment with bracket











* If the detector cover does not reach the ceiling, it can be swung up to +5°.





- Compliance

RE Directive 2014/53/EU

- Alphatronics BV declares that the radio equipment type UN-X-DT/AM, is in compliance with Directive 2014/53/EU.
 The full text of the EU declaration of conformity is available at the following internet address: www.unii-security.com/declarations
- Microwave emission Frequency and Power UN-X-DT/AM: 10.525 GHz 15.78 mW e.i.r.p
- The following list indicates the areas of intended use of the equipment and any known restrictions.
 For countries not included in this list, please consult the responsible Spectrum Management Agency.
 10.525 GHz: Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, The Netherlands, Spain, Sweden, Iceland, Norway, Switzerland
- UN-X-DT/AM also complies with EU radiation exposure limits set forth for an uncontrolled environment.
 This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
- EN 50131-1 Grades and Environmental Class; Security Grade 3, Environmental Class II
 Applied Standards; EN 50131-2-2 (UN-X-PIR/AM), EN 50131-2-4 (UN-X-DT/AM)
 Tested and certified by Kiwa BV, the Netherlands

