

9 OPERATION CHECK

1. When the power is turned ON, the alarm LED (red) starts blinking, which shows warm up status. Wait approximately 1 minute until blinking ends. (No blinking operation when the alarm LED is set to OFF) The unit does not issue alarm during warm up.
2. After the LED stops blinking, walk across the detection area. Check that the alarm LED lights up. Close the cover and walk across the detection area, and check operation on both the sensor (LED) and connected device (controller).

* When the alarm LED is set to OFF for operation, use the walk test function and check operation.

10 TROUBLESHOOTING

If the unit does not operate properly, refer to the following table and check the unit.
If the unit cannot be restored to normal operation after checking, contact the dealer or TAKEX.

Status	Cause	Remedy
Unit does not operate at all	<ol style="list-style-type: none"> (1) Power is not turned ON (including cable disconnection), or the power voltage is too low. (2) Approximately 1 minute has not passed since the power is turned ON (The alarm LED is blinking) (3) There are shielding objects in front of the detection area (Note that glass is considered as a shielding object) (4) Detection area setting is inappropriate 	<ol style="list-style-type: none"> (1) Check the power wire and set the power voltage properly (2) Wait approximately 1 minute (3) Remove shielding objects (4) Set the detection area again
Unit does not operate from time to time	<ol style="list-style-type: none"> (1) Detection area setting is inappropriate (2) Cover surface is dirty with dust or water (3) Detection distance is inappropriate (4) Temperature difference between the human body and surrounding area is small 	<ol style="list-style-type: none"> (1) Set the detection area again (2) Wipe off dirt using a soft, dry cloth (Do not use any chemicals, such as thinner or benzene, which may result in damage to the unit) (3) Set the detection distance within the rated distance (Maximum detection distance: 49' (15m), mounting height: between 6.6' to 20' (2.0 to 6.0m)) (4) Set the sensitivity setting to 130%
Unit operates when no human body passes through the area	<ol style="list-style-type: none"> (1) Power voltage is unstable (2) There are moving objects (such as pets), or equipment subject to rapid temperature fluctuations (such as air outlets or outdoor units of air-conditioning equipment, refrigerator, or clothes dryer) (3) There are sources to generate electric noise (4) Unit is subject to strong sunlight reflection or headlights (5) Unit detects human bodies passing outside the detection area (6) Sensitivity setting is high (7) Unit detects pets (8) Unit detects an automatic cleaning robot 	<ol style="list-style-type: none"> (1) Set the power voltage properly (2) Remove objects causing the trouble (3) Change the mounting place (4) Change the mounting place, or shield the light using shades (5) Set the detection area again (6) Set the sensitivity setting to 70% or 40% (7) Keep pets away from the detection area Set to the pet operation mode (installation height: between 8.3' to 10' (2.5 to 3.0m)) (8) Keep automatic cleaning robots away from the detection area
Alarm LED lights up, but the connected device does not operate	<ol style="list-style-type: none"> (1) Alarm signal is not transmitted properly, or wiring is disconnected or short-circuited (2) Alarm contact output is not issued (3) Alarm output setting is inappropriate (4) Connected devices do not operate properly 	<ol style="list-style-type: none"> (1) Fix poor wiring, disconnection, and short-circuit (2) Use a tester and check the output terminals (3) Change the alarm output setting (4) Check connected devices
Alarm LED continues to light or blink, and the alarm goes on continuously (Abnormal detection)	<ol style="list-style-type: none"> (1) Check if the abnormal detection status is generated after warming up even if the power is reset 	<ol style="list-style-type: none"> (1) Disconnection or damage may occur inside the unit

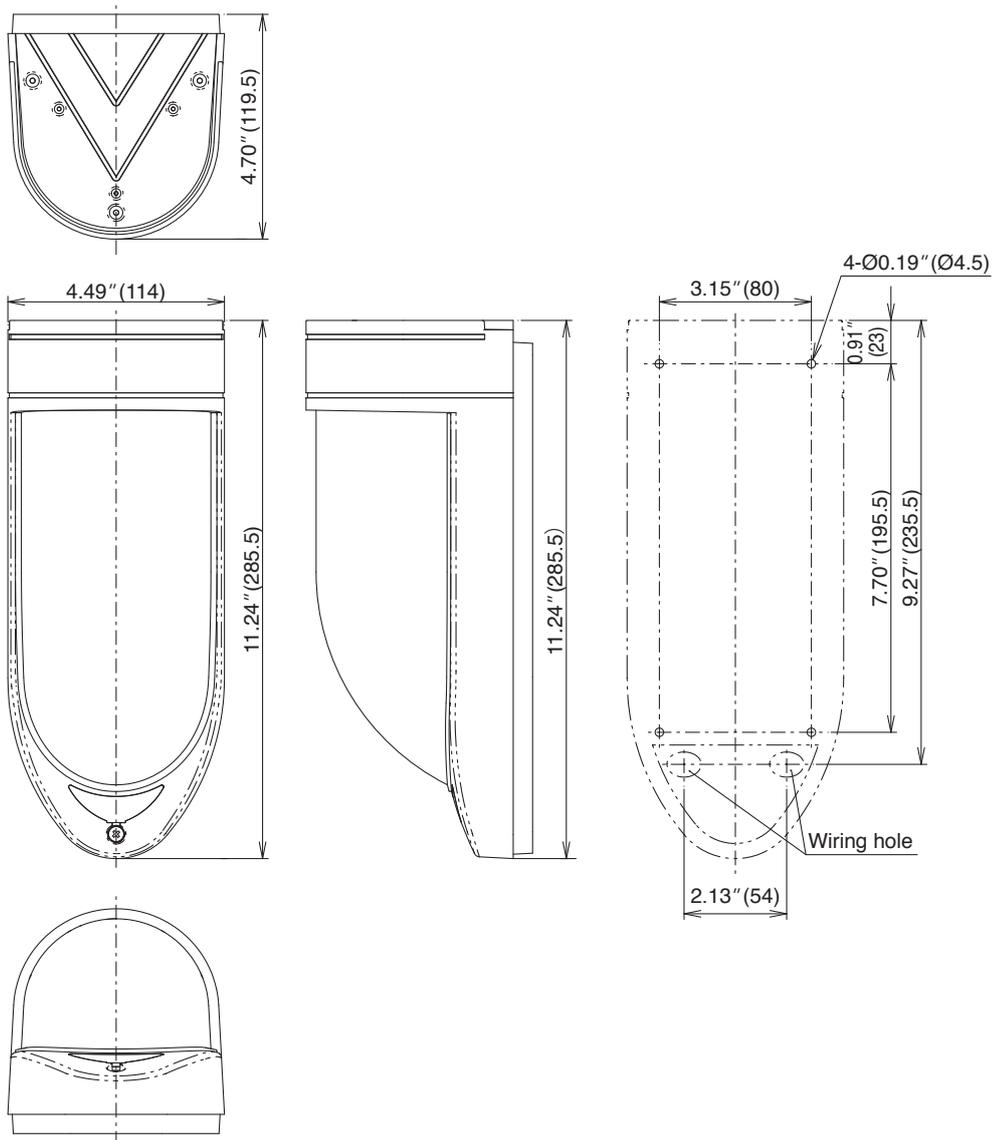
Daily inspection

1. For maintenance, wipe the unit clean using a soft, wet cloth, and wipe off any water. If the unit is seriously dirty, lightly wipe the unit clean using a soft cloth that has been immersed in water diluted neutral detergent, and the wipe off the detergent completely. Do not use thinners or benzene. (Otherwise plastic components may become deformed, discolored, or changed)
2. Check operation periodically, approximately every week. Also make sure to check operation when you move tables and partitions and change the layout in protected rooms.

11 SPECIFICATIONS

Model	Triple mirror passive sensor	
Model number	PIR-T15AM(W)	PIR-T15AM(G)
Detection system	Passive infrared	
Detection area	Wide angle (80°) detection Detection distance: 49'(15m), 108 rays (54 pairs)	
Power supply	9 to 28V DC (non-polarity)	
Current consumption	Max. 50mA	
Alarm output	Contact method : Dry semi-conductor contact, N.C./N.O. selectable Contact operation : One-shot operation when detecting intrusion Continuous output in the event of cover monitor error Continuous output in the event of alignment position error Continuous output in the event of self diagnosis error Continuous output in the event of power voltage error Continuous output in the event of long-term diagnosis error Contact rating : 24V (AC/DC) 0.25A (resistive load) (built-in contact protective resistor 3.3Ω)	
External output	Contact method : Dry semi-conductor contact N.O. Contact operation : One-shot operation/Off delay operation selectable when detecting intrusion Contact rating : 24V (AC/DC) 0.25A (resistive load) (built-in contact protective resistor 3.3Ω)	
Tamper output	Contact method : Dry mechanical contact, N.C. Contact operation : Continuous output Contact rating : 24V (AC/DC) 0.1A (resistive load) (built-in contact protective resistor 3.3Ω)	
Anti-masking output	Contact method : Dry semi-conductor contact N.C. Contact operation : Continuously output when an object is placed in front of the lens (until normal recovery) Contact rating : 24V (AC/DC) 0.25A (resistive load) (built-in contact protective resistor 3.3Ω)	
Alarm LED	Red LED : Blinks* during warm up Lights up* when detecting intrusion Continuously blinks in the event of cover monitor error Continuously lit in the event of alignment position error Continuously blinks in the event of self diagnosis error Continuously lit in the event of power voltage error Continuously blinks in the event of long-term diagnosis error Continuously blinks in the event of Anti-masking error (*ON/OFF selectable using the mode selector)	
Memory LED	Red LED : Blinks for 3 minutes during memory display. Auto reset operation either of continuous lighting for 47 minutes or blinking for 50 minutes selectable (Blinks to lights/blinks, ON/OFF selectable using the mode selector)	
Functions	Sensitivity selection Operation mode selection Alarm memory LED Self diagnosis Low voltage monitoring Temperature compensation Front & back tamper LED area checker Environmental adjustment Creep zone detection Walk test mode Near area cancellation Long-term diagnosis Anti-masking	
Installation height	6.6' to 20'(2.0 to 6.0m) (varies depending on the operation mode) • Low position mode : 6.6' to 9'(2.0 to 2.7m) • High position mode : 9' to 11.5'(2.7 to 3.5m) • Pet mode : 8.3' to 10'(2.5 to 3.0m) • High density mode : 6.6' to 20'(2.0 to 6.0m)	
Area angle adjustment range	Horizontal direction: ±45° (in 5° steps) Vertical direction : 17° (no stage adjustment)	
Ambient temperature range	-25 to +55°C (no condensation and freezing)	
Mounting position	Indoor/outdoor wall surface * Can be mounted on poles and ceilings (or under eaves) using optional accessories	
IP rating	IP55	
Connections	Terminals (M2.6 self up terminal)	
Weight	Approx. 600g	
Appearance	Body:Resin (white), Window:Resin (white)	Body:Resin (gray), Window:Resin (white)

12 EXTERNAL DIMENSIONS Unit: inch (mm)



- Options : Pole attachment BP-22F
- Pole attachment BP-02
- Ceiling attachment KP-32

Limited Warranty :

TAKEX products are warranted to be free from defects in material and workmanship for 12 months from original date of shipment. Our warranty does not cover damage or failure caused by natural disasters, abuse, misuse, abnormal usage, faulty installation, improper maintenance or any repairs other than those provided by TAKEX. All implied warranties with respect to TAKEX, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to 12 months from original date of shipment. During the Warranty Period, TAKEX will repair or replace, at its sole option, free of charge, any defective parts returned prepaid. Please provide the model number of the products, original date of shipment and nature of difficulty being experienced. There will be charges rendered for product repairs made after our Warranty Period has expired.



In Japan
Takenaka Engineering Co., Ltd.
 83-1, Gojo-sotokan,
 Higashino, Yamashina-ku,
 Kyoto 607-8156, Japan
 Tel : 81-75-501-6651
 Fax : 81-75-593-3816
<http://www.takex-eng.co.jp/>

In the U.S.
Takex America Inc.
 151 San Zeno Way
 Sunnyvale,
 CA 94086, U.S.A
 Tel : 408-747-0100
 Fax : 408-734-1100
<http://www.takex.com>

In Australia
Takex America Inc.
 4/15 Howleys Road, Notting Hill,
 VIC, 3168
 Tel : +61 (03) 9544-2477
 Fax : +61 (03) 9543-2342

In the U.K.
Takex Europe Ltd.
 Takex House, Aviary Court, Wade Road,
 Basingstoke, Hampshire. RG24 8PE, U.K.
 Tel : (+44) 01256-475555
 Fax : (+44) 01256-466268
<http://www.takexeurope.com>