SENSOR SPEAKER
PVW-12TE

PVW-12TE is a sensor speaker which detects passive infrared emitted from human beings and sound two different messages depending on the day light or control input settings.

Suitable for indoor and outdoor use

Designed to be rainproof, PVW-12TE can be used outside.
It is equipped with AND detection system which will offer more reliable protection.
AND detection system will issue an alarm signal only when detection occurs in both horizontal and downward zones simultaneously.

Two recordable messages / Dual control (daylight or ARM/DISARM settings)

The unit can record two different messages (Max. 8sec. each).
At detection, it will trigger one of the messages depending on the day light or control input (ARM/DISARM) settings.

Day light control	
Night	Message 1
Day	Message 2

External input control	
ARM	Message 1
DISARM	Message 2

Two recording methods available

Message can be recorded through built-in microphone or jack input which fits to external equipments such as tape recorders or personal computers.

Trigger input equipped

A replay input can trigger a message.
Connected to two or more sensors or controllers, the unit can be used as a sounder to intimidate intruders.
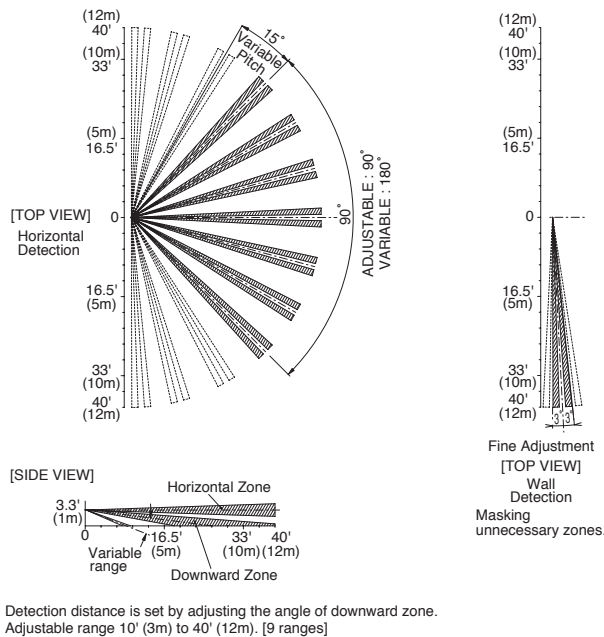
Alarm contact output equipped

Equipped with alarm contact output, the unit can send a signal to remote areas when detection occurs.
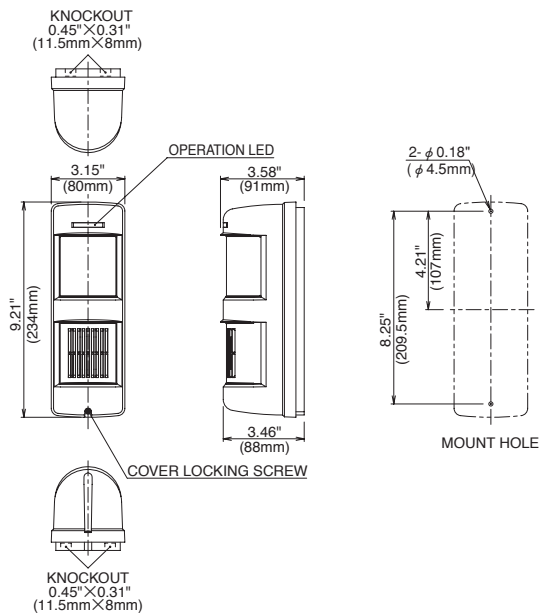
Replay time adjustable

Replay time of messages is adjustable between 2sec. and 5min.

PHOTOELECTRIC BEAM SENSOR

■DETECTION AREA

[TOP VIEW] Horizontal Detection

15° Variable Pitch

ADJUSTABLE : 90°   VARIABLE : 180°

Fine Adjustment [TOP VIEW] Wall Detection

Masking unnecessary zones.

[SIDE VIEW]

Horizontal Zone

Variable range

Downward Zone

Detection distance is set by adjusting the angle of downward zone.
Adjustable range 10' (3m) to 40' (12m). [9 ranges]

■EXTERNAL DIMENSIONS （Unit : inch(mm)）

KNOCKOUT
0.45"✕0.31"
(11.5mm✕8mm)

OPERATION LED

3.15"
(80mm)

3.58"
(91mm)

9.21"
(234mm)

2- φ 0.18"
(φ 4.5mm)

4.21"
(107mm)

8.25"
(209.5mm)

3.46"
(88mm)

MOUNT HOLE

COVER LOCKING SCREW

KNOCKOUT
0.45"✕0.31"
(11.5mm✕8mm)

■OPTIONAL

●Wall mount attachment 〈BW-24〉

●Pole attachment 〈BP-22〉

■SPECIFICATIONS

Product name	Sensor speaker (For indoor/outdoor use)
Model	PVW-12TE
Detection system	Passive infrared
Coverage	Horizontal coverage Max. detection distance: 40' (12m) Horizontal detection zone: 7 zones Detection angle: 90° Downward detection zone: 7 zones
Adjustment range	Horizontal: ±90° (±3° of fine adjustment is available) Detection distance: 10' to 40' (3 to 12m) (By adjusting vertical angle of downward curtain)
Supply voltage	10 to 30VDC (Non polarity)
Current consumption	55mA MAX. for standby 300mA MAX. for operation (When Max. volume)
ARM/DISARM input	・N.O./N.C. selectable with a switch 　N.O.: Armed when closed 　N.C.: Armed when opened ・Response time: 300msec or longer ・Input resistance: 1kΩ or less
Replay input	・N.O./N.C. selectable with a switch 　N.O.: Armed when closed 　N.C.: Armed when opened ・Response time: 300msec or longer ・Input resistance: 1kΩ or less
Day light control	Recognized as night when the illuminance of the surrounding area is lower than the set illuminance.
Contact output	Dry contact relay output N.O./N.C. selectable with a switch Contact capacity: 30V (AC/DC), 0.5A MAX. Contact operation: One shot operation Approx. 2sec.
Sound output	Replay the two different messages through the built-in speaker Operation: off delay operation 　　　　Repeat sounds during detection time + Approx. 2sec. to 5min. Output sounds: [Message 1] and [Message 2] (Max. 8sec. each) Sound volume adjustment: 80dB Max. Recording method: Built-in microphone or Jack input
Operation LED	Red LED Blinks for warming-up - LED can be disabled with a switch. Lights for detection - LED can be disabled with a switch. Fast blinks for recording standby Lights for recording (Max. 8sec.)
Tamper output	Dry contact relay output: NC Capacity: 30V (AC/DC), 0.5A MAX.
Pulse count settings	Once / Three times (Selectable with a switch)
Sensitivity adjustment	30% to 170% (By potentiometer)
Connection	Terminals
Ambient temperature	- 4°F to + 122°F (- 20℃ to + 50℃)
Mounting position	Indoor / Outdoor (Rain-proof)
Weight	16.8 oz (480g)
Appearance	Body: AES resin Lens: PE resin

Note
1) The sensor speaker is designed as a simple warning device.
   When using the sensor outdoor, make sure that the use of the sensor does not have a serious impact on the performance of the connected system or does not cause a nuisance to surrounding environment.

2) When an object within the detection zone is exposed to external environment and subject to temperature fluctuations, the sensor speaker may cause false or no detection.
   Sensitivity of passive infrared sensor deteriorates when ambient temperature is close to human temperature.
   Moving objects like trees or bushes within the detection zone may trigger an alarm.

3) As a component of high security system for outdoor, photoelectric beam sensors, combination sensors or fence sensors are recommended.

Please note : This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

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