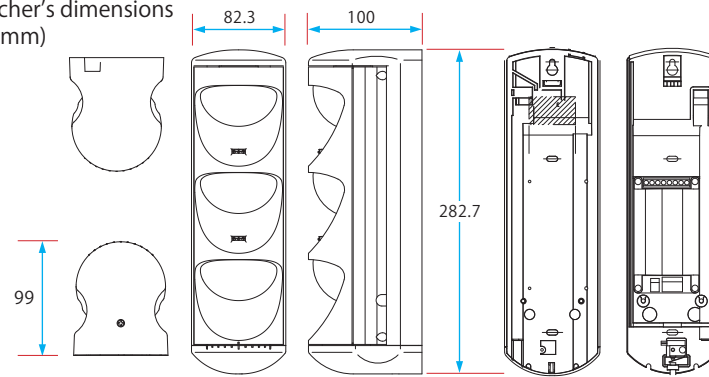


TriWatcher

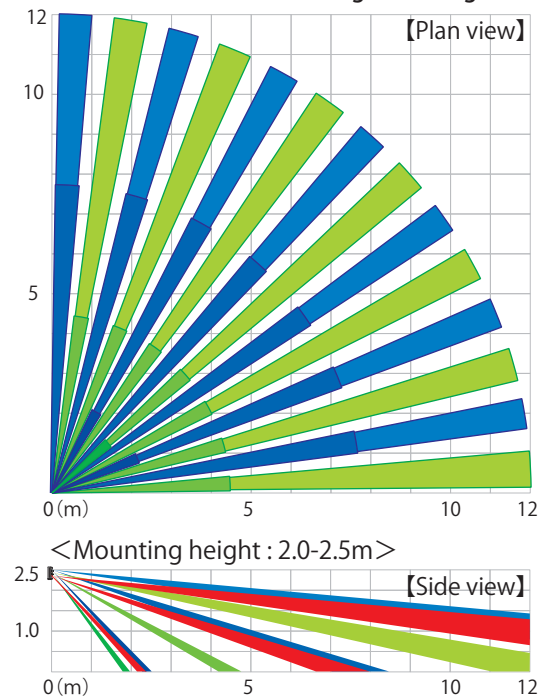
Intelligent Outdoor Detector **SIR10**



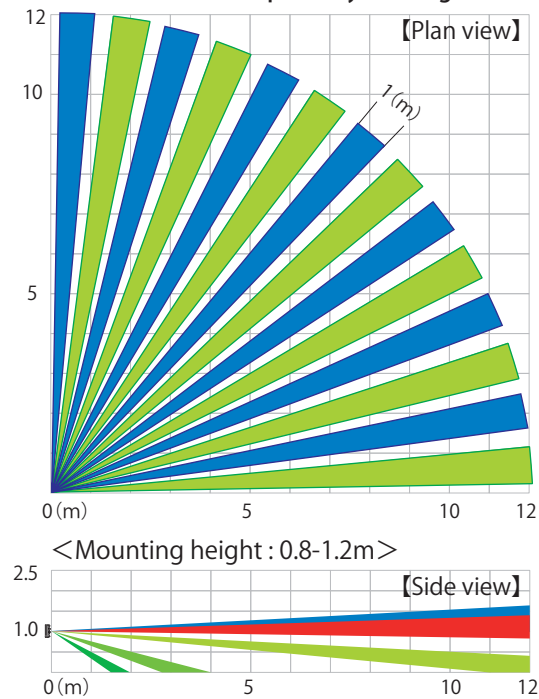
■TriWatcher's dimensions
(unit : mm)



■Detection area of wide angle coverage



■Detection area of pet alley coverage



Description		INTELLIGENT OUTDOOR DETECTOR			
Model	SIR10				
Input voltage	9-28VDC (non-polar)				
Current draw	30mA (max.)				
Operating temp./humid.	-25~+50℃ RH95% or less				
Storage temp./humid.	-30~+60℃ RH95% or less				
Coverage patterns	Wide angle	Pet alley			
	(selectable by sliding PCB)				
Detection area	12m, 84°(mounting height : 2.0-2.5m)	12m, 84°(mounting height : 0.8-1.2m)			
Detection zones (sectors)	47 pairs (94 sectors)	29 pairs (54 sectors)			
Detection method	Passive infrared method				
LED indicators	Power-on and Warm-up	LED (red)	Flashes (1/sec.)		
	Alarm	LED (red)	Lights up (lights off setting available)		
	Self-diagnosis	LED (red)	Flashes (1/sec.)		
	Precaution	LED (red)	Flashes (once/2.5 sec.)		
	Test mode	LED (red)	Lights up or flashes (depends on detection status)		
Alarm output		Contact form 1c			
		Output period	One-shot (3-300 seconds : volume adjustment)		
		Rated load	30VDC, 0.1A (resistance load)		
		Output resistance when closed	3.0Ω or less		
Tamper output		Contact form 1b			
		Output period	Open while lower cover is open		
		Rated load	30VDC, 0.1A (resistance load)		
		Output resistance when closed	3.0Ω or less		
Sensitivity adjustment		50-150% (volume adjustment)			
Detection mode		AND/OR (switch selection)			
Pulse count		1/2/3/4 pulses (switch selection)			
Movable range		Horizontal direction: ± 45°(at 9°intervals)			
Installation		Indoor / Outdoor, on walls or poles			
Weight		800g			
Color		White (DIC G-21)			

●The product of this catalog is not a burglar-preventing device. Each user is requested to make effective use of this product under each user's sufficient control. ATSUMI shall not be liable for damages caused by thefts, etc.
●The actual color of this product may be slightly different from this catalog's printed image.●Due to ongoing product improvements, specifications and designs are subjected to change without prior notice.

<http://www.atsumi.co.jp>



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TriWatcher

Intelligent Outdoor Detector **SIR10**

Advanced detector that expands the possibility of outdoor security



Newly developed TriWatcher method realizes high precision outdoor vigilance by discriminating/eliminating false alarm factors.

TriWatcher method discriminates false alarm factors

Eliminates false alarm factors

Realizes high precision outdoor vigilance

ATSUMI

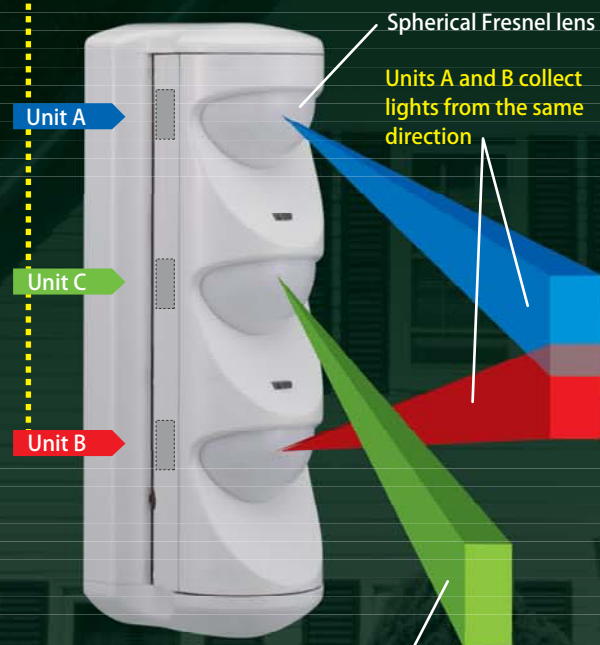
TriWatcher method discriminates false alarm factors

What is TriWatcher method that discriminates false alarm factors?

Our own unique zone formation of 3 sensor units

Processes signals from 3 sensor units by our own unique algorithm

Collects lights from objects by 3 sensor units

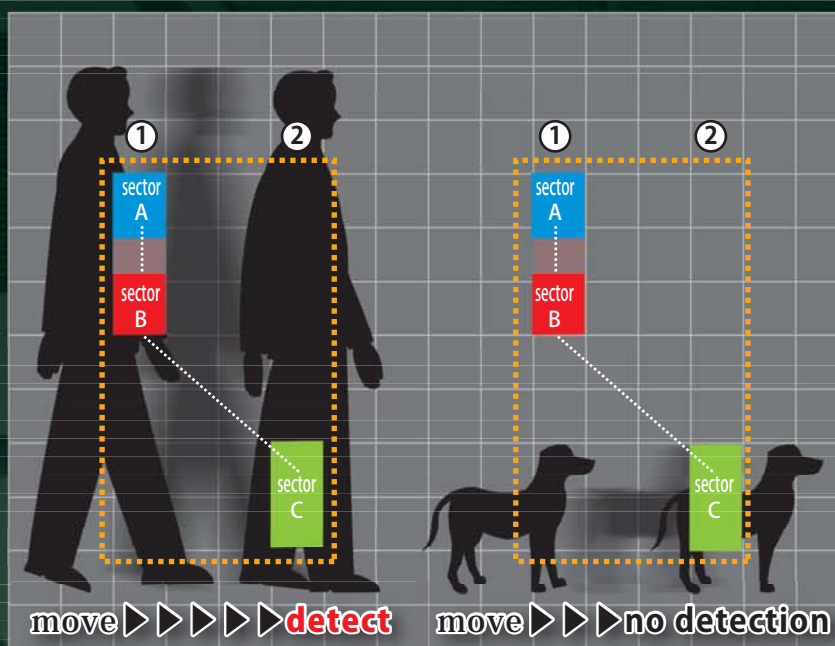


Equipped with 3 sensor units (Pyroelectric element + lens) x 3

3 units' light collecting areas optimally shifted and arranged. Not just subdividing the area, but also applying definite roles to each sensor unit.

Unit C collects lights from obliquely below in relation to units A and B's positioning

【 Zone image seen from TriWatcher 】



TriWatcher method

① AND detection at both sector A and B

+

② Detection at sector C

||

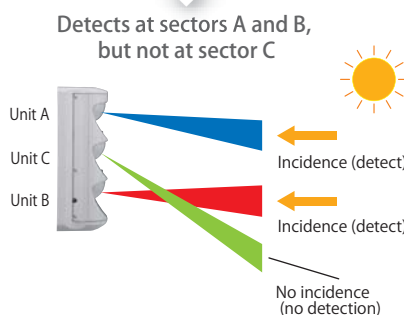
Triggers an alarm only when a human size object moves across a certain distance

TriWatcher method : Patent pending

Eliminates false alarm factors

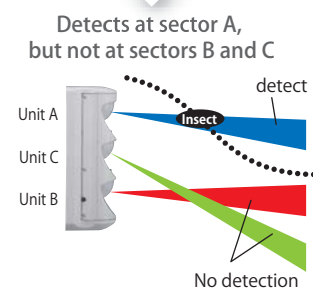
Countermeasures to false alarms by TriWatcher method

Countermeasure to sunlight



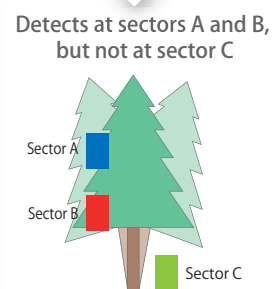
Even when sectors A and B are facing toward the sun, it does not trigger an alarm.

Countermeasure to insects, birds, and pets, etc.



Flying insects or birds, or floating leaves or trash do not trigger an alarm.

Countermeasure to swaying vegetation

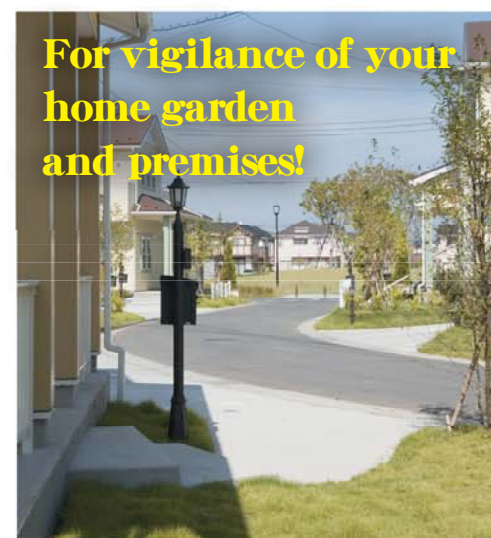


Even when vegetation sways by wind, it does not trigger an alarm.

Realizes high precision outdoor vigilance

TriWatcher method realizes high precision outdoor vigilance with pyro sensors.

For vigilance of your home garden and premises!



For vigilance against intruders into buildings!



For vigilance of places where left unmanned!



Selectable from 2 kinds of coverage patterns

Spatial surveillance

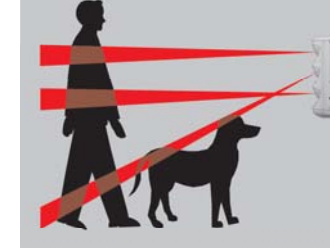


Mounting height : 2.0-2.5m

◆ Wide angle

With wide angle, the unit is installed at a high place (2.0 – 2.5m), which allows multipurpose application. In addition, installing at a high place prevents vandalism.

Horizontal surveillance



Mounting height : 0.8-1.2m

◆ Pet alley

With pet alley, the unit does not detect movements of objects that are lower than the height installed. It is ideal for residences that keep big pets in the garden.

Features of TriWatcher

◆ Unwanted external-light-proof performance

By adopting a special visible-light cut filter, the unit considerably blocks external lights such as sunlight or car headlights, etc.

◆ Equipped with newly designed spherical Fresnel lens

Adopting spherical Fresnel lens has made an improvement on the unit's non-detect performance of small objects such as small animals, etc. Also, use of polyethylene for its material effectively prevents things from sticking on its surface, such as snow, frost, or even bird or insect droppings, thus enabling to maintain its high precision performance.



◆ 2 LED indicators that provide easy operation check, and also warning effects

Equipped with 2 LEDs on the front of the body unit. When detection occurs, the LEDs will light up, thus producing deterrence effects against intruders. In walk test mode, you can confirm by the LED indicators whether or not detection is taking place.



◆ Connecting with flash sirens and/or cameras

Output period is adjustable within the range of 3 to 300 seconds. By combining with other devices, firm security system can be built.

◆ Variety of installation choices

As it presents no concern about interference between transmitter and receiver as in beam detectors or microwave detectors, the unit can be installed as many as required, in the proximity of one another and even facing each other. With the use of optional pole mount kit (PMK-1), the unit can be installed where no walls to mount on.

