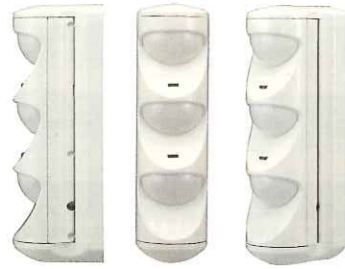
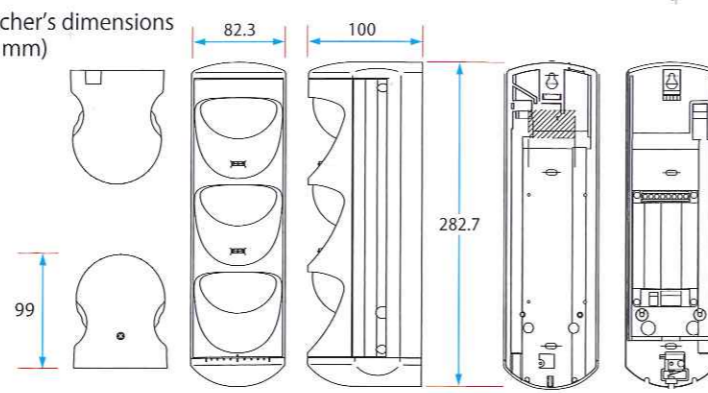


TriWatcher

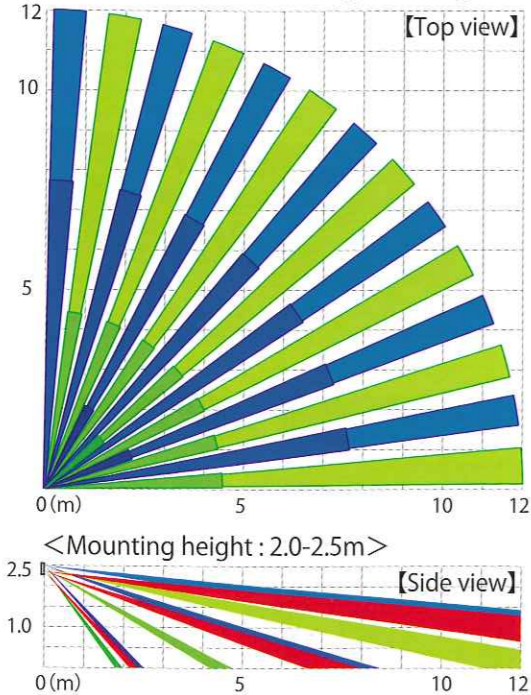
SIR10S Intelligent Outdoor Detector



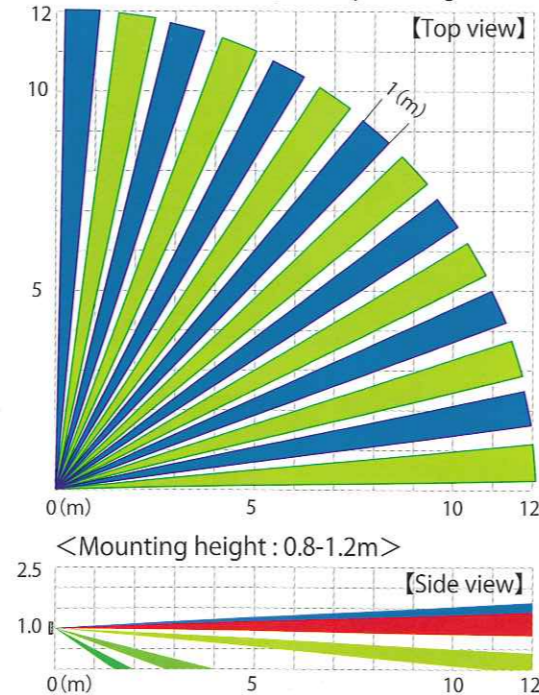
TriWatcher's dimensions (unit : mm)



Detection area of wide angle coverage



Detection area of pet alley coverage



Description		INTELLIGENT OUTDOOR DETECTOR	
Model	SIR10S		
Input voltage	9-28VDC (non-polar)		
Current draw	30mA (max.)		
Operating temp./humid.	-25~+50°C RH95% or less		
Storage temp./humid.	-30~+60°C RH95% or less		
Coverage patterns	Wide angle	Pet alley	
	(selectable by sliding PCB)		
Detection area	12m, 84°(mounting height : 2.0-3.0m)	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.)
Alarm output	Contact form 1b		
	Output period	One-shot 3seconds	
	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		
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.atsumielectric.com>

ATSUMI ELECTRIC CO.,LTD

4-2-2 Shin-Miyakoda Kita-Ku Hamamatsu, Shizuoka, Japan 431-2103
 TEL:+81-53-428-4116 FAX:+81-53-428-4119 E-Mail:international@atsumi.co.jp

TriWatcher

SIR10S Intelligent Outdoor Detector



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

TriWatcher method discriminates false alarm factors

Eliminates false alarm factors

Realizes high precision outdoor surveillance

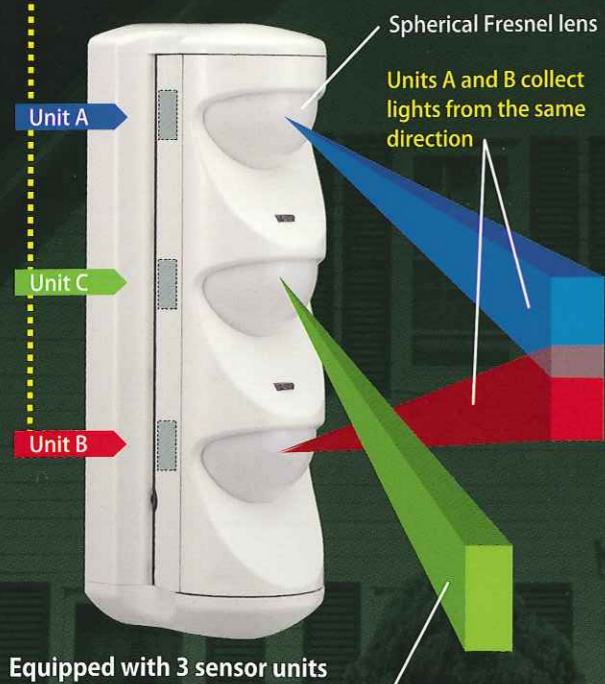
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TriWatcher method discriminates false alarm factors

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

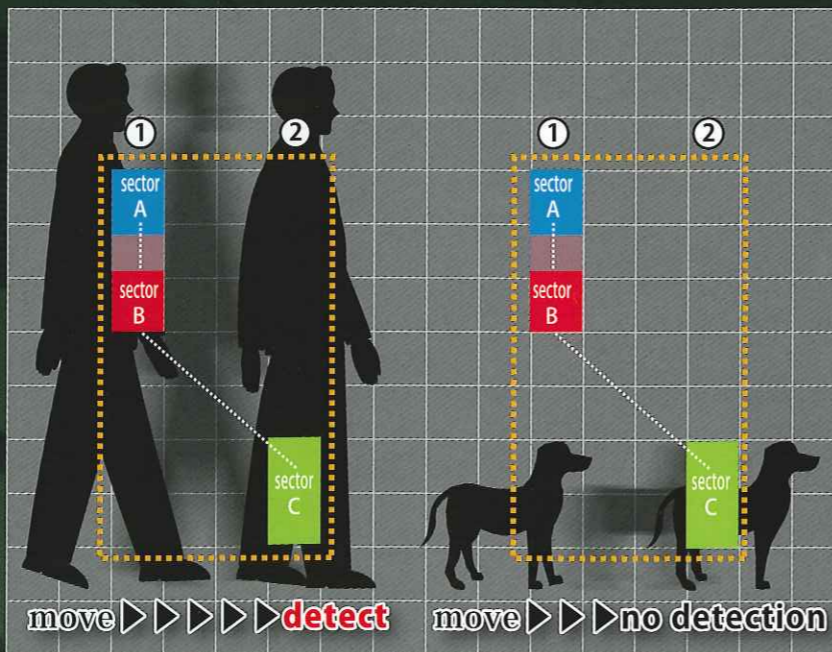


Equipped with 3 sensor units (Pyroelectric element + lens) x 3

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 as 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

Sunlight

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

Insect, bird, and pet

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

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 surveillance with pyro sensors.

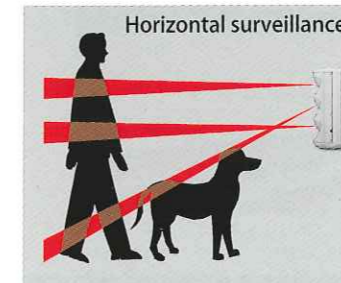


Selectable from 2 kinds of coverage patterns



Mounting height : 2.0-3.0m

Wide angle
With wide angle, the unit is installed at a high place (2.0 - 3.0m), which allows multipurpose application. In addition, installing at a high place prevents vandalism.



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.



- ◆ **Connecting with flash sirens and/or cameras**
By combining with other devices, firm security system can be built.

- ◆ **Variety of installation choices**
Unlike beam detector or microwave detector, as it presents no concern about interference between transmitter and receiver, 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.

