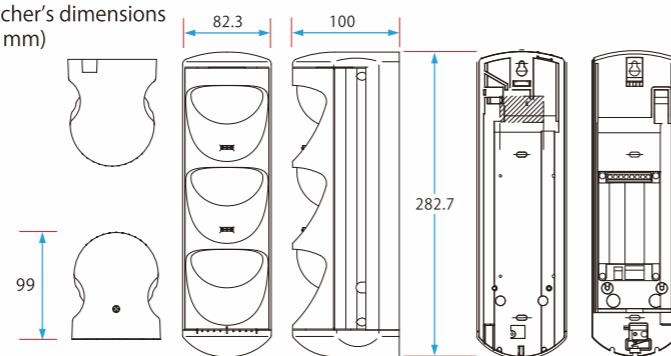


TriWatcher

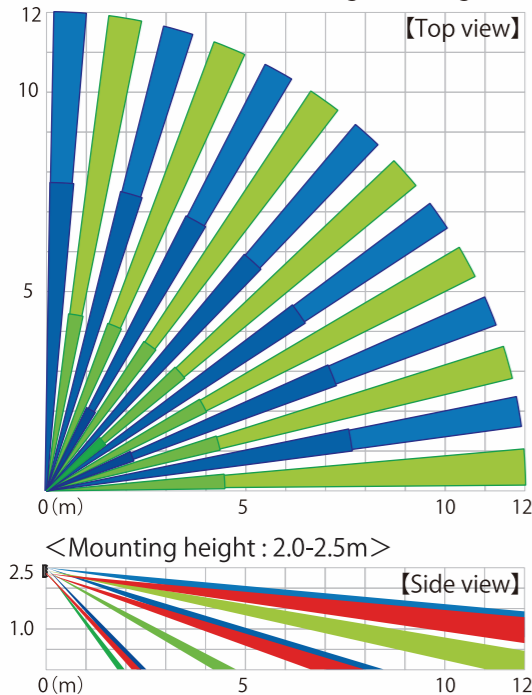
SIR10S Intelligent Outdoor Detector



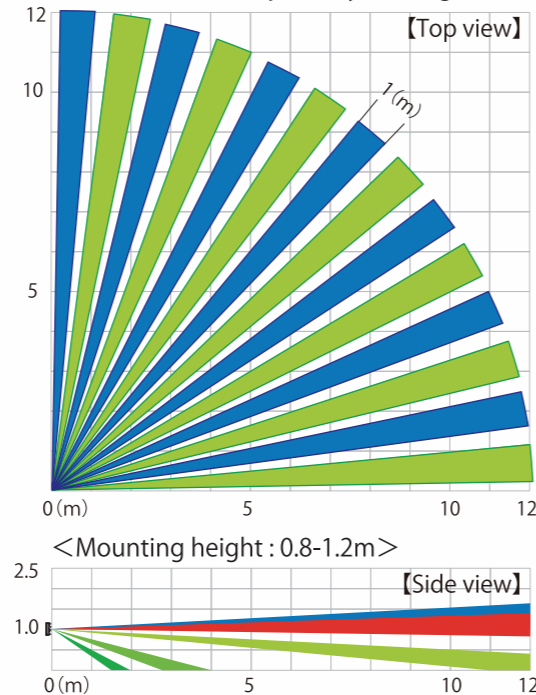
■TriWatcher's dimensions
(unit : mm)



■Detection area of wide angle coverage



■Detection area of pet alley coverage



Description		INTELLIGENT OUTDOOR DETECTOR			
Model		SIR10S		SIR10SA	
Input voltage		9-28VDC			
Current draw		SIR10S:30mA(Max)		SIR10SA:35mA(Max)	
Operating temp./humid.		-25~+50℃ RH95% or less			
Storage temp./humid.		-30~+60℃ RH95% or less			
Wide angle		12m, 84°(mounting height) 2.0~3.0m, 47 pairs (94 sectors)			
Detection area, zones					
Pet alley		12m, 84°(mounting height) 0.8~1.2m, 29 pairs (54 sectors)			
Detection area, zones					
Detection method		Passive infrared method			
LED indicators	Self-diagnosis	LED(red)	Flashes (1/sec)		
	Power-on & Warning-up.	LED(red)	Flashes (1/sec)		
	Alarm	LED(red)	Light up (light off setting available)		
	Anti-masking	LED(red)	Flashes (5/sec)		
	Precaution	LED(red)	Flashes (1/2.5 sec)		
Alarm output	Contact form	1b			
	Output period	One-shot 3 sec.			
	Rated load	30VDC, 0.1A (resistance load)			
	Output resistance	3.0 Ω or less			

Model		SIR10S		SIR10SA	
Tamper output	Contact form	1b			
	Output period	Open while the lower cover opens			
	Rated load	30VDC, 0.1A (resistance load)			
	Output resistance	3.0Ω or less			
Anti-Masking output	Contact form	1b			
	Output period	N/A	Open while the masking is performed		
	Rated load	N/A	30VDC, 0.1A (resistance load)		
	Output resistance	N/A	3.0Ω or less		
Sensitivity		50 - 150% selectable			
Detection mode		AND			
Pulse count		1/2/3/4 pulses selectable			
Optical adjustment		Horizontal direction: ±45°			
Installation		Indoor / outdoor, on wall or pole			
IP rate		IP55			
Weight		800g			
Color		White (DIC G-21)			

Model		SIR10S	SIR10SA
Tamper output	Contact form	1b	
	Output period	Open while the lower cover opens	
	Rated load	30VDC, 0.1A (resistance load)	
	Output resistance	3.0Ω or less	
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IP rate		IP55	
Weight		800g	
Color		White (DIC G-21)	

TriWatcher

SIR10S :Intelligent Outdoor Detector :
SIR10SA :with Anti-Masking



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

ATSUMI ELECTRIC CO.,LTD

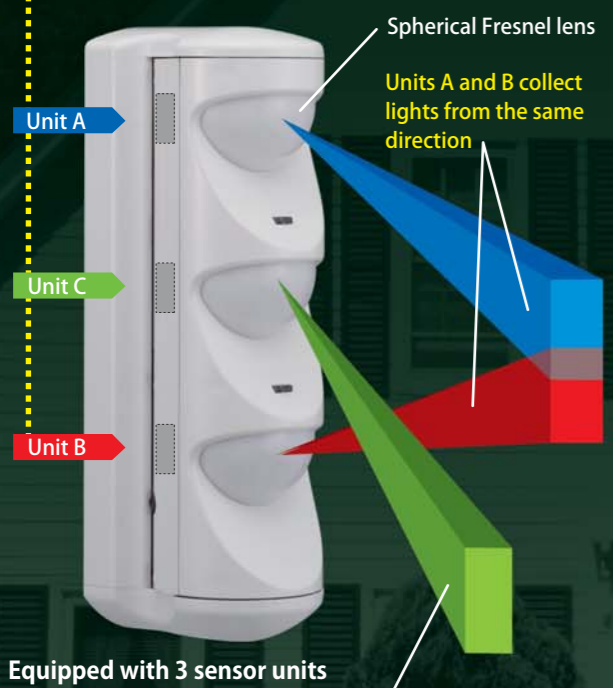
4-2-2 Shin-Miyakoda Kita-Ku Hamamatsu, Shizuoka, Japan 431-2103
TEL:+81-53-428-4116 FAX:+81-53-428-4119 E-Mail:international@atsumi.co.jp

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

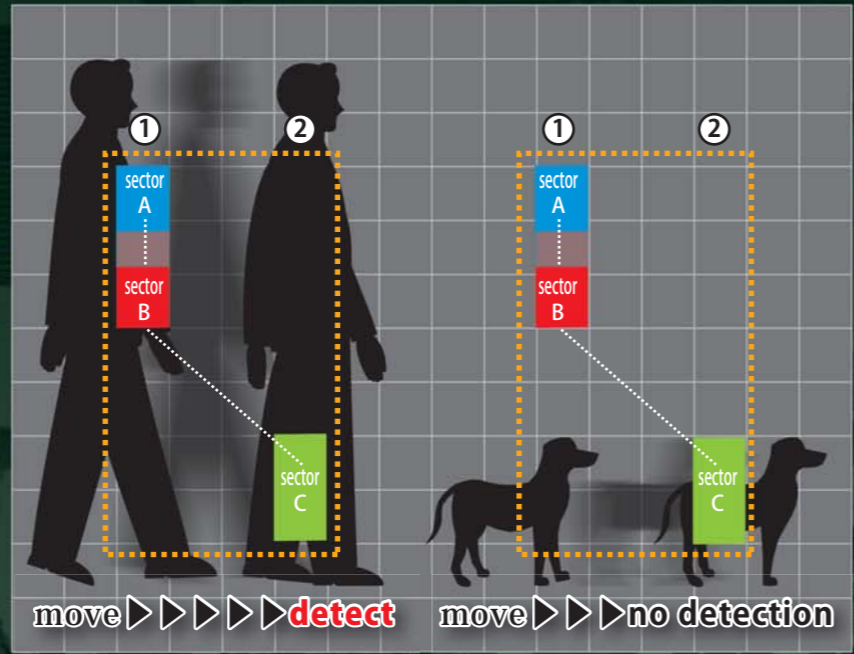
Collects lights from objects by 3 sensor units



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.

Spherical Fresnel lens
Units A and B collect lights from the same direction
Unit C collects lights from obliquely below in relation to units A and B's positioning

[Zone image as seen from TriWatcher]

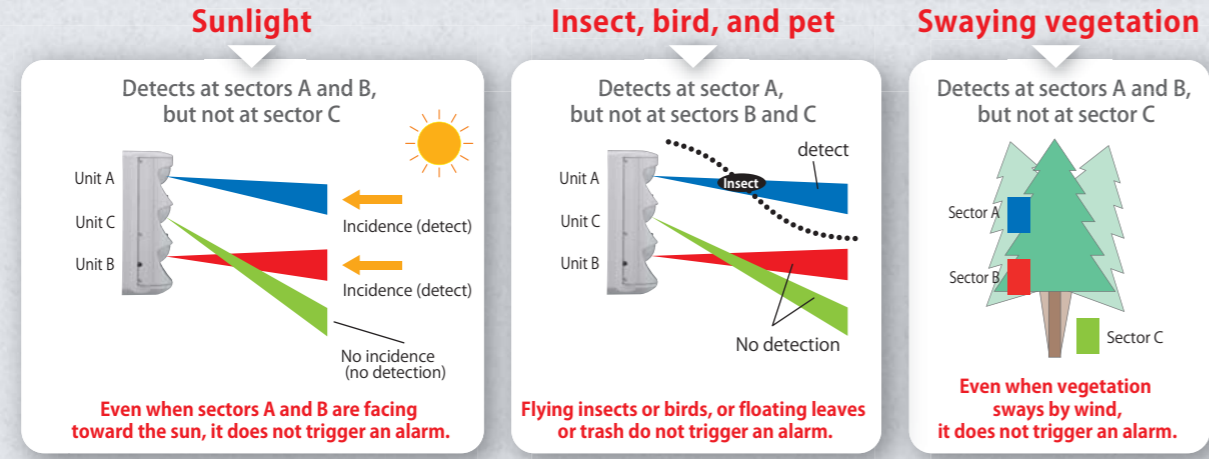


TriWatcher method
① AND detection at both sector A and B
+
② Detection at sector C
||
Triggers an alarm only when a human size object moves across a certain distance

TriWatcher method : Patent pending

Eliminates false alarm factors

Countermeasures to false alarms by TriWatcher method

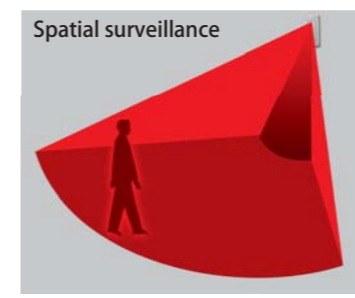


Realizes high precision outdoor vigilance

TriWatcher method realizes high precision outdoor surveillance with pyro sensors.

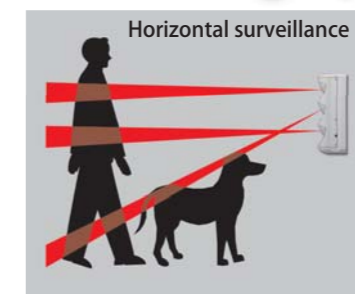


Selectable from 2 kinds of coverage patterns



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

- ◆ **Anti-Masking Detection**
In case that Lens is masked, Anti-Masking is output and 2LEDs flashes.
- ◆ **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.
- ◆ **Robust housing resistant to outdoor environment**
With adoption of weather-resistant grade plastic and ingress protection structure (IP55), you can rest assured for outdoor installation.
- ◆ **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.
- ◆ **Optional Accessories**
 - SIR-TP Back tamper : In case that TriWatcher is removed from the wall, it outputs Back tamper alarm. (This is not available for the pole mount installation)
 - PMK1 Pole mount kit : This is used for the pole mount installation.
- ◆ **Connecting with flash sirens and/or cameras**
By combining with other devices, firm security system can be built.