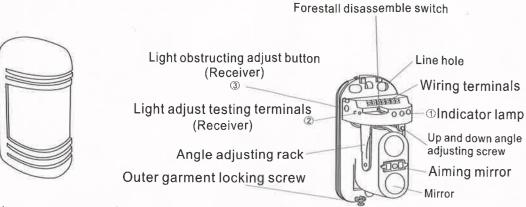
Part name



Outer garment

The body

1 Indicator Lamp



Receiver

Transmitter

on when connecting

- LEVEL: Indicator lamp (red)
 The brightness will be changed according to the different precision of the light shaft
- ALARM: The light will be on when alarming
- GOOD: Indicator lamp(green), the green lamp will be on when the light shaft is in the right direction, otherwise the lamp will not be on.
- Duse it when check the precision of the light shaft (Please refer to the using instruction)
- ③ Use it when set light obstructing time (Please refer to the using instruction)

ACTIVE INFRARED DETECTOR Usage manual

double beam -30 double beam -20 double beam -40 double beam -60

double beam -80 double beam -100 double beam -150 double beam -200

Attention

Please don't install the sensor in the following situations

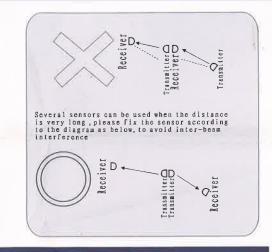


•The fix height and the alarm distance

Mode1	Alarm distance	Light angle					
2 0	2 0 m	0.8m	Ť				1
3 0	30m	0.9m					$\bot \subseteq$
4 0	40m	1. 5a	3				
60	60m	1.8m	Vir heien		_		15
8 0	8 0 m	2.4m	0.7				-
100	100m	3. Om	1. Om	 ←—	——Alarm	distance-	-
150	150m	3.6m				788	٠
200	200m	4. 2m					

 Light adjusting scope Vertical direction 20° $(\pm 10^{\circ})$ Horizontal direction 180° (±90°)

The light shaft can be adjusted by $\pm 90^{\circ}$ in the horizontal direction and by $\pm 10^{\circ}$ in the vertical direction

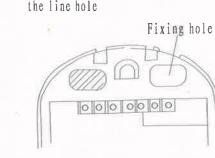


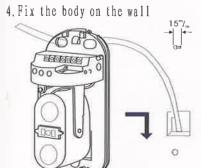
xing way

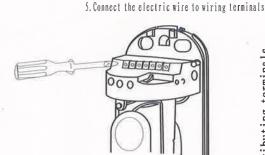
• Wall fixing way

2. Fix the body and make holes on the wall

3. Pierce the electric wire through the line hole







terminals

distributing

Forestall disassemble switch terminals Transmitter Sending Alarm Forestall disassemble Receiver

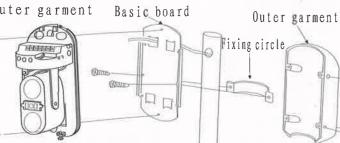
• Refer to the following picture when fixing back to back 6. Fix the outer garment after finishing adjusting the light shaft obstructing time

The line distributing distance from detector to signal receiving instrument

THE TIME GISTITUDITING GISTBIOC	TIOM GOLOGIOI TO STRING	1 tootiving thatramont
Voltage Line diameter	DC12V	DC24V
$0.5 \text{mm}^2 (\phi 0.8)$	300m	600m
0.75mm ² (φ1.0)	400m	800m
1.25mm ² (φ1.2)	700m	1400m
2.0mm ² (φ1.6)	1000m	2000m

1. Disassemble the screw and take down the outer garment

•The way to fix the steady trestle 2. Take down the 3. Fix the basic board on the trestle outer garment Basic board



Outer diameter of the trestle φ38~φ50mm

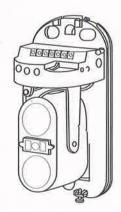
1. Make holes in the trestle and

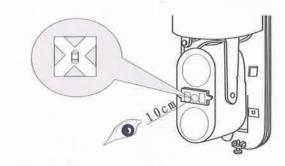
pierce the line through it.

Adjust the lights

1. Take down the outer garment and input power

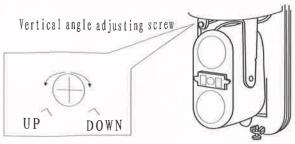
2. Check the effect from the aiming mirror on the right about 10cm away.





3. Adjust the up and down angle adjusting screw and horizontal adjusting rack, make the opposite detector image into middle of the aiming mirror. Meanwhile the GOOD indicator lamp will be on (otherwise please keep adjusting the light axis)

The brighter of red LED, the higher precision of the light shaft aiming.

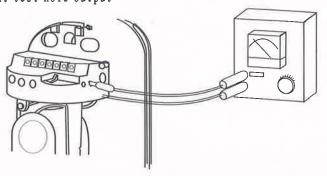


• The best light adjusting way-measurement test hole output

1. Plug the test pen into the test hole

2. First adjust horizontal angle, until reach the maximum output voltage of the test hole, then adjust vertical direction, the way is the same with horizontal angle.

3. If can't get the voltage of 3.8V or higher, then need to adjust the transmitter and receiver again.



Adjust the time of obstructing light

e obstructing time of receiver can be adjusted according to e picture. Generally setting time should be a little less an the invading time.



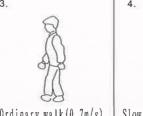
Adjust the light obstructing time



Fast run (6.9 m/s)



Fast walk (1, 2m/s)



Ordinary walk (0.7m/s)



After fixing the detector, the walking test should be taken. Please process motion confirmation according to the chart.

	Condition	Condition				
Transmitter	Transmitting light	Green LED light on				
Receiver	Alert	GOOD-LEVEL light on				
Receiver	Alarm	Alarm light on				

Check the unusual condition

Trouble	Reason	Countermeasure			
The transmitter indicating lamp is not bright	Unsuitable power voltage (break or short circuit)	Check the power line			
The receiver indicating lamp is not bright	Unsuitable power voltage (break or short circuit)	Check the power line			
The receiver indicating lamp is not bright when light interrupted	1. Reflected or other transmitter light enter into receiver 2. Two beams of light are not interrupted at the same time 3. Interrupting time is too short	1. Remove reflected object or change light axis direction 2. Interrupt two beams of light at the same time 3. Extend the covering time			
After interrupting light, alarm indicator lamp of receiver is bright, but no output of alarm signal	1. The line is break or short circuit 2. The line point is insensitive	Check line and line point			
The alarm indicator lamp is always bright	1. The light axis is misaligned 2. There are obstacle between transmitter and receiver 3. The outer garment is polluted	Adjust the light axis again Get rid of obstacle Clean the outer garment			
There are output of alarm signal off and on	1. The line is not good 2. The power voltage is changeable 3. There are moving obstacle between transmitter and receiver 4. Installation base is not stable 5. Light axis coincidence precision is insufficient 6. Other moving object interrupt the light	1. Check the line 2. Check the power 3. Get rid of obstacle or change the installation site 4. Choose well-grounded site 5. Adjust light axis again 6. Adjust obstructing light time or change installation site			

Technology parameter

Mode 1		20	30	40	60	80	100	150	200
Alarm distance	Outdoor	20m	30m	40m	60m	80m	100m	150m	200m
	Indoor	60m	90m	120m	180m	240m	300m	450m	600m
The number of light		Two							
Detection way		Interrupt two light beams at the same time							
Light source		Infrared LED							
Response speed		50~700msec							
Alarm output		Relay contact output: NO or NC; Contact capacity: AC/DC30V O. 5Amax							
Power voltage		DC12~24V AC11-18V							
Current o	Current consumption		65mA max 65mA max 70mA max 70mA max						
Temperature scope									
Size		Refer to the outer shape							
Tamper output		Contact output: NC; Contact capacity: DC24V 0. 5Amax							
Light adjusting	angle(horizonlal)	180° (±90°)							
light adjusting	ling angle (vertical) 20° (±10°)								
Deal with t	frost and fog	standfog Ultrasonic wave implement							
Other attac	hed implement	Receiving light indicator , OK indicator, testing terminals							
Material		PC							
GW		1000g							

The size of outer shape

