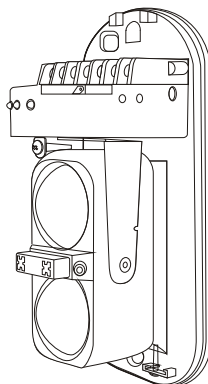
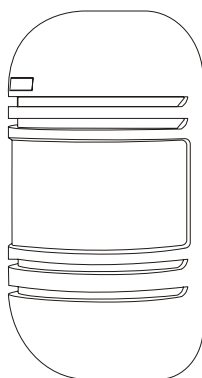


DUAL-BEAM ACTIVE PHOTOELECTRIC INTRUDER DETECTOR WITH DIGITAL FREQUENCY CONVERSION

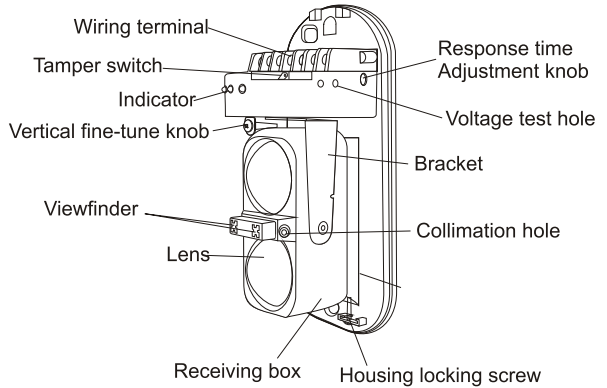
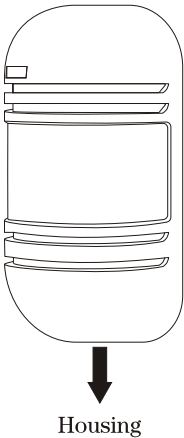
INSTALLATION GUIDE



Model:

- 20 (Outdoor 20m, Indoor 60m)**
- 30 (Outdoor 30m, Indoor 90m)**
- 40 (Outdoor 40m, Indoor 120m)**
- 60 (Outdoor 60m, Indoor 180m)**
- 80 (Outdoor 80m, Indoor 240m)**
- 100 (Outdoor 100m, Indoor 300m)**

I . Part Name



●POWER: Transmitting indicator

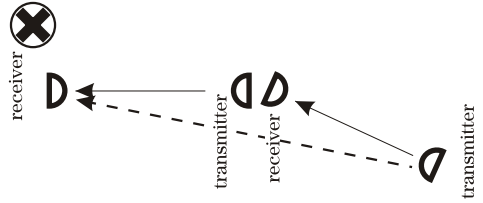
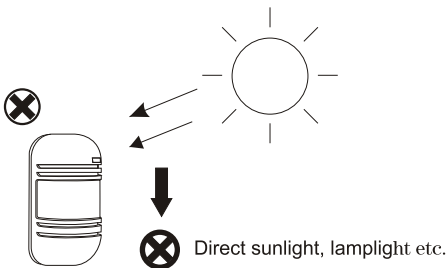
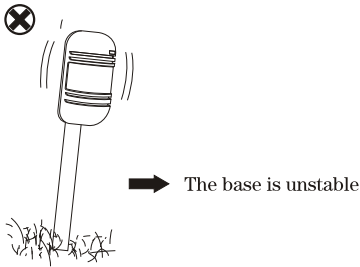
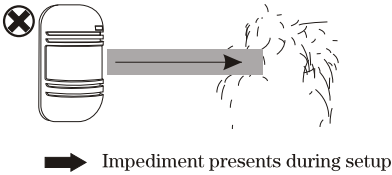


- When no alarm, signal strength LED is off automatically, after alarm, it will keep light 3 minutes.
- When adjusting optical axis, recommend let more than 4pcs LED light, that is signal strength is more than grade 8.

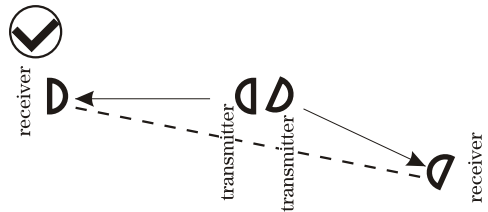
Signal strength indicator (LED5-LED1)	Grade
ON ON ON ON ON	10
ON ON ON ON FLASH	9
OFF ON ON ON ON	8
OFF ON ON ON FLASH	7
OFF OFF ON ON ON	6
OFF OFF ON ON FLASH	5
OFF OFF OFF ON ON	4
OFF OFF OFF ON FLASH	3
OFF OFF OFF OFF ON	2
OFF OFF OFF OFF FLASH	1
OFF OFF OFF OFF OFF	0

Suggestion: above greed 8

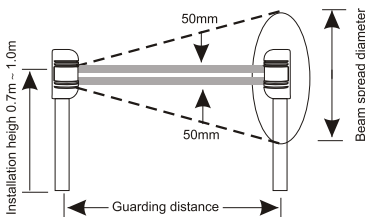
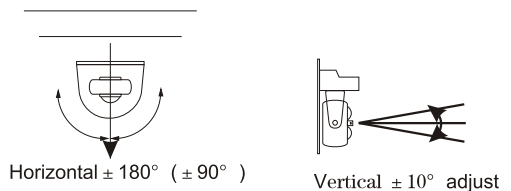
II . Precautions for setting



Multi sensors may be used for long-distance guarding. Please install according to the below diagram to avoid interference between beams.



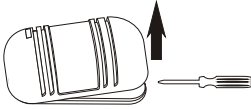
● Adjustable angle: horizontal $\pm 90^\circ$
vertical $\pm 10^\circ$



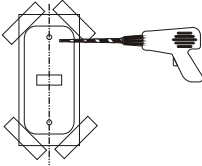
Style	Guarding distance	Beam spread diameter
20	20m	0.6m
30	30m	0.7m
40	40m	1.0m
60	60m	1.5m
80	80m	1.8m
100	100m	2.1m

III Setting procedure

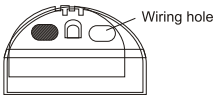
1.Remove the cover



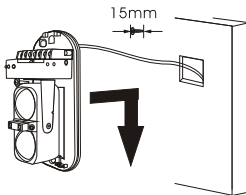
2.Attach the paper stencil onto the location where the equipment is to be mounted, and drill the holes in the positions on its mark.



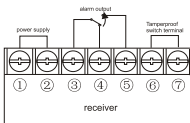
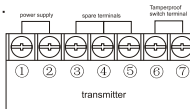
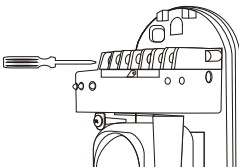
3.Put the cable through the hole for wiring.



4.Fix the main body onto the wall

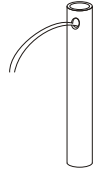


5.Connect the cable to the wire terminal.

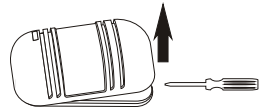


● Installation of fixed bracket

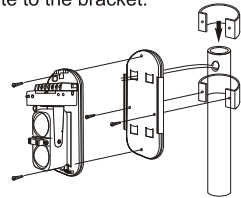
1.Drill a hole on the bracket and extend out the cable from it.



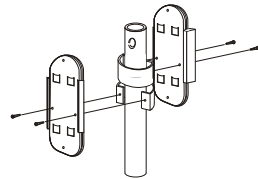
2.Remove the cover.



3.Fasten the base-plate to the bracket.



(Back-to-back installation guiding diagram)



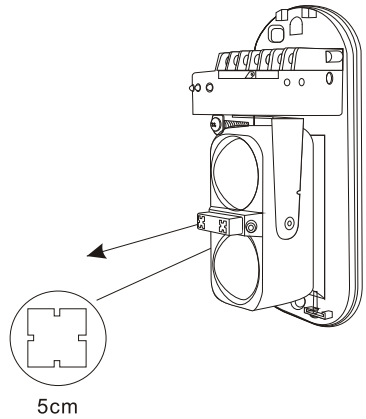
Wiring distance between transmitter and receiver

wire size	distance	voltage	
		DC13.8V	DC24V
0.5mm ² (φ 0.8)		300m	300m
0.75mm ² (φ 1.0)		400m	800m
1.25mm ² (φ 1.2)		700m	1400m
2.0mm ² (φ 1.6)		1000m	2000m

6.Put on the cover after adjusting the response time of the beam.

IV Beam alignment

1. Remove the cover and connect power.
2. Observe the collimation effect at a distance of 5cm from the viewfinder.
3. Adjust the vertical adjustment screw and the horizontal angle adjusting wheel in order that the image of opposite detector falls into the central part of the viewing hole. At this time, the GOOD indicator of receiver shall light up; if not, adjust it repeatedly.

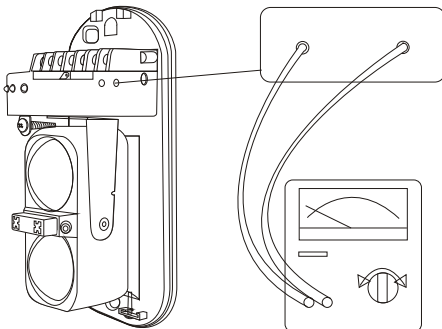
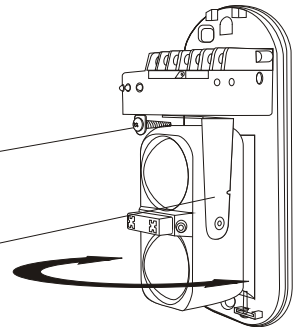


The accuracy of beam alignment turns higher; the red LEVEL indicator becomes brighter.

Vertical adjustment screw



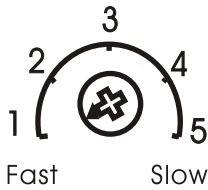
horizontal adjustment bracke



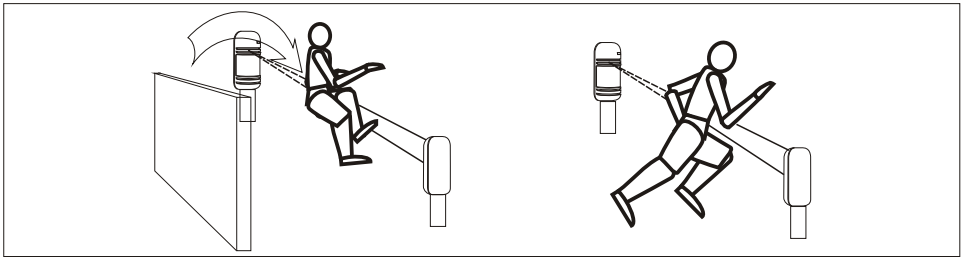
Multimeter selects DC 20V

1. Method of voltage testing
2. Insert the test pen into the test hole (please note the +,- polarity)
3. First adjust the horizontal angle until the test hole voltage output maximize. Then adjust the vertical angle by the same way till the voltage reaches the value above that of below diagram.
4. If it can't reach 1.4V or higher voltage, the transmitter and receiver shall be regulated again.

V Beam response time adjustment



Please see the diagram to adjust the response time of the receiver. Usually, the time set shall be less than the time when the intruder crosses the guarding area.



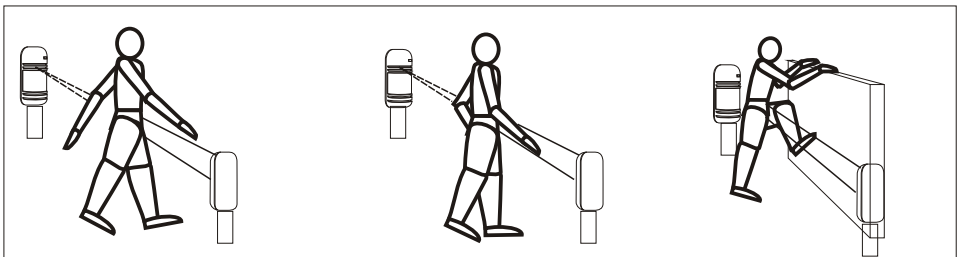
High speed(6.9m/s):1

Fast running(4m/s):2

Fast walking(1.2m/s):3

Normal walking(0.7m/s):4

Slow walking(0.4m/s):5



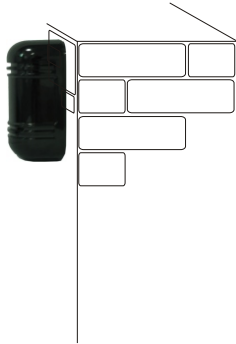
VI. Physical test

Walking test is required after the setting, physical test in accordance to below diagram.

	State	Signal
Transmitter	Transmitting	The 1 indicators of green LED light up
Receiver	Guarding	SIG/ LEVEL indicators light up
	In alarm	The red ALARM indicator light up

IX. Recommended installation guide & physical appearance and dimension

Recommended installation



Installation bracket

L-shaped bracket
80 x 75mm



T-shaped bracket
T-100
100 x 120mm

T-200
200 x 120mm



I-shaped bracket
I-100
100mm

I-200
200mm



Dimensions

