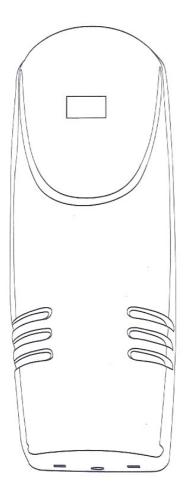
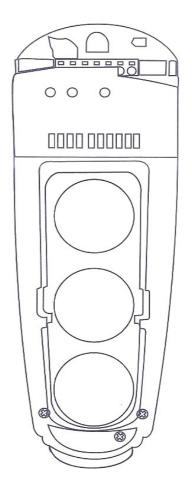
BEAMS ACTIVE PHOTOELECTRIC DETECTOR WITH DIGITAL FREQUENCY CONVERSION

INSTALLATION GUIDE





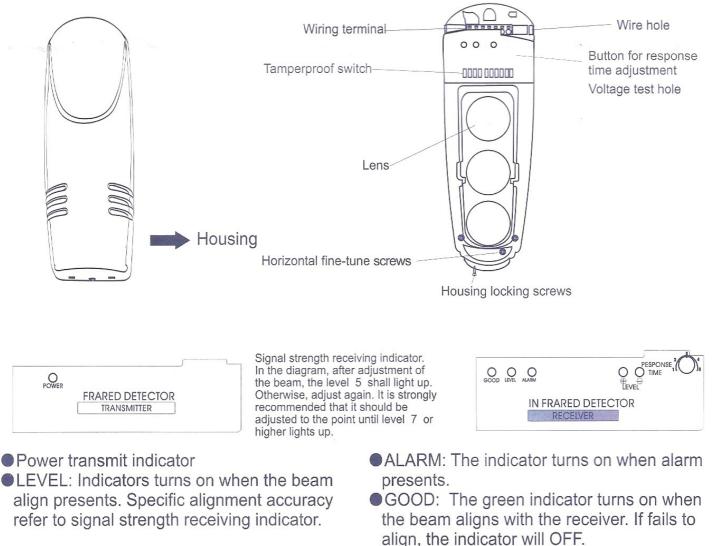


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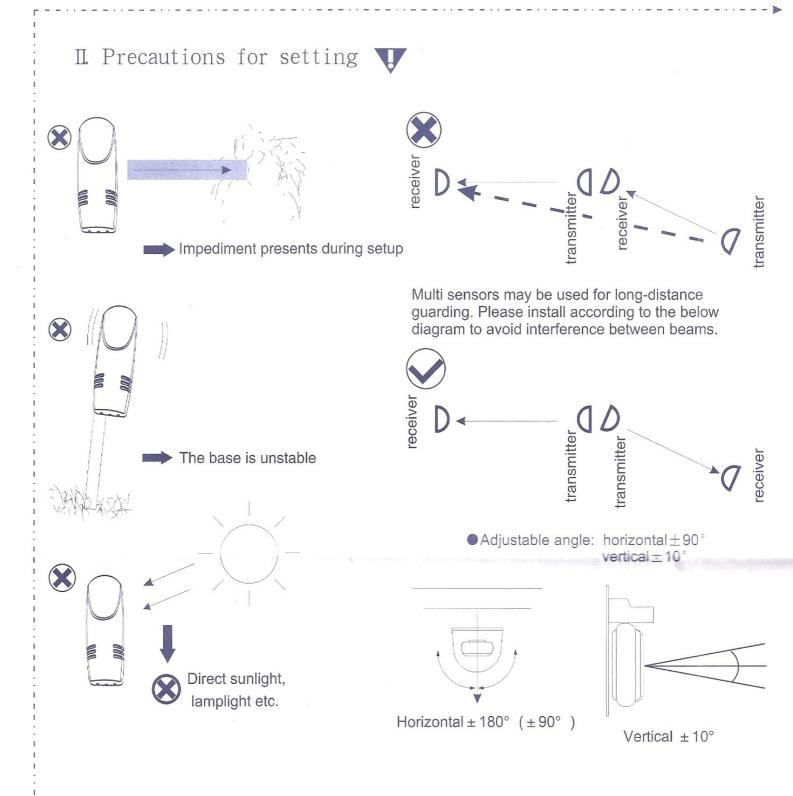


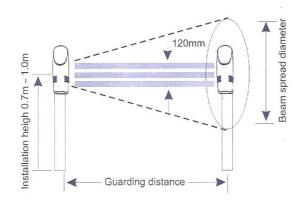
Three Beam-250 (Outdoor 250m, Indoor 750m)

I. Part Name



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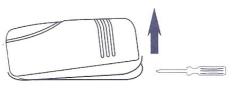




Style	Guarding distance	Beam spread diameter		
50	50m	1.5m		
100	100m	· 3.0m 4.5m		
150	150m			
200	200m	6.0m		
250	250m	7.5m		

III Setting procedure

1.Remove the cover



3.Put the cable through the hole for wiring.



🔵 In

Installation of fixed bracket

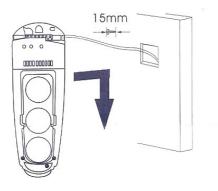
1.Drill a hole on the bracket and extend out the cable from it.



2.Remove the cover.

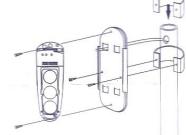


4.Fix the main body onto the wall



5.Connect the cable to the wire terminal.

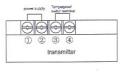
3.Fasten the base-plate to the bracket.

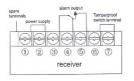


(Back-to-back installation guiding diagram)

Wiring distance between transmitter and receiver

voltage distance	DC13.8V	DC24V
0.5mm²(φ0.8)	300m	300m
0.75mm ² (φ1.0)	400m	800m
1.25mm ² (φ1.2)	700m	1400m
2.0mm ² (φ1.6)	1000m	2000m





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

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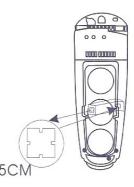
IVBeam alignment

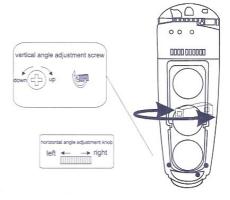
Visual test method

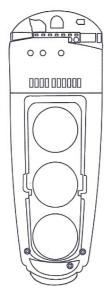
1.Remove the cover and connect power.

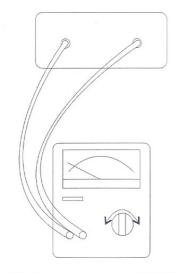
- 2. Adjust the beam frequency of transmitter and receiver to the same channel.
- 3.Observe the collimation effect at a distance of 5cm from the viewfinder. Adjust the upper / lower angle regulation screw and horizontal adjustment wheel in order that the image of opposite detector falls into the central part of the viewing hole.
- 4.Adjust the vertical adjustment screw and the horizontal

angle adjusting wheel, the signal strength indicator will light up step by step, adjust until level 5 or higher indicator lights up. If not, adjust it again.







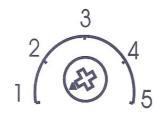


Multimeter selects DC 10V

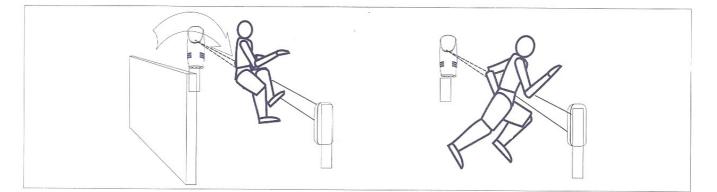
Voltage test method

- 1.Insert the test pen into the test hole (please note the +,- polarity)
- 2.First adjust the horizontal angle until the test hole voltage output maximize. Then adjust the vertical angle by the same way.

VBeam 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.



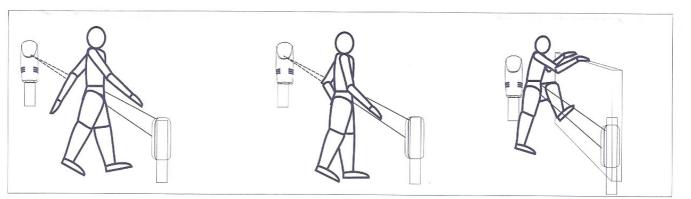
High speed:1

Fast walking(1.2m/s):3

Normal walking(0.7m/s):4

Slow walking(0.4m/s):5

Fast running(6.9m/s):2



VIPhysical test

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

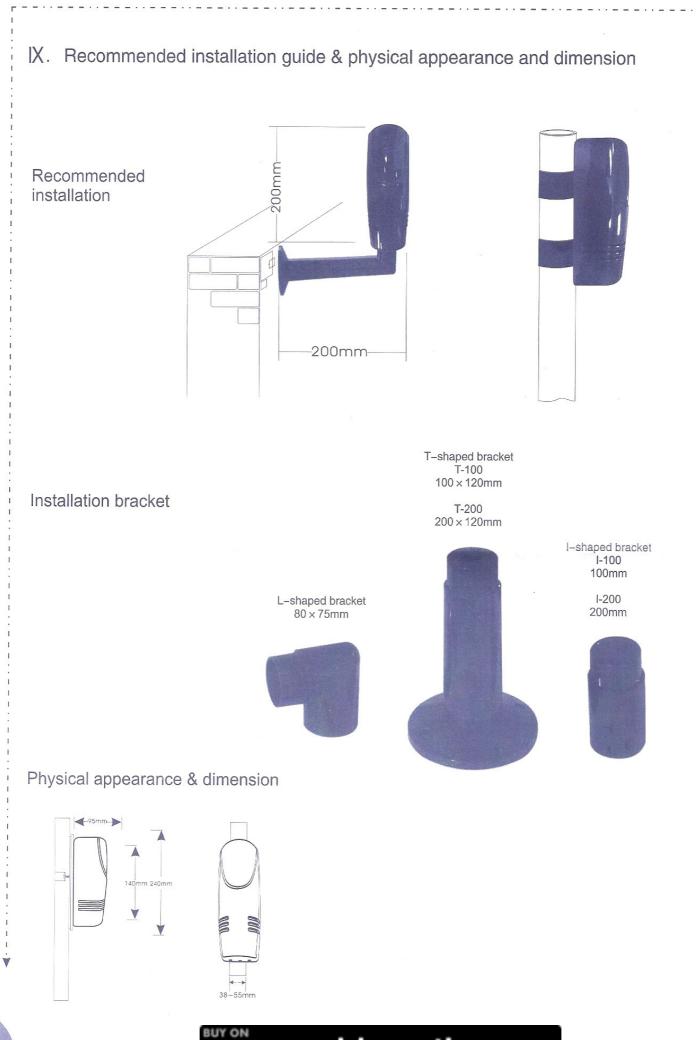
	State	Signal	
Transmitter	mitter Transmitting The 2 indicators of gre		
Receiver	Guarding	GOOD LEVEL indicators light up	
	In alarm	The red ALARM indicator light up	

VII. Trouble checking

Fault	Cause	Solution	
The LED of the transmitter doesn't light up	Power failure (open circuit, short-circuit, etc.)	Check the power wiring	
The LED of the receiver doesn't light up	Power failure (open circuit, short-circuit, etc.)	Check the power wiring	
The LED of the receiver doesn't light up when the light is blocked	 By reflecting, or light from other sources enter the receiver Both beams are not blocked at the same time Response time is set too short 	 Remove the reflecting object or change the direction of beam Block both beams at the same time Prolong the response time 	
The receiver alarm indicator ON after the beam is blocked, but there is NO alarm signal output	1.Broken circuit or short-circuit of the wiring 2.Poor contact	1.Check the wiring and contact 2.Connect the cable	
The alarm indicator of the receiver is constantly ON.	 The beam doesn't match closely There is obstacle presents between the transmitter and the receiver The cover is polluted. 	1.Re-adjust the beam 2.Remove the obstacle 3.Clear the cover	
ntermittent alarm signal output	 Improper wiring The supply voltage does not reach 13V or higher The potential obstacle appears to block the beams due to the effect of wind and rain The installation base unstable The beam coincidence accuracy is inadequate Beams blocked by other moving objects Response time too short Level 5 LED does not light up before the cover is put on 	 Check the wiring Check the supply power Remove the obstacle or change the location Select a site with a stable base Re-adjust the optical axis Adjust the shade time or change the install location Re-adjust the response time Re-adjust the optical axis, and make the signal reception reaches its top. 	

VITechnical parameters:

Model		50	100	150	200	250	
Alert distance	Outdoor	50m	100m	150m	200m	250m	
	Indoor	150m	300m	450m	600m	750m	
No. of beams		3 beams					
Detection mode		3 beams blocked simultaneous					
Optical source		Infrared digital pulse beam					
Response speed	b	50 ~ 700msec adjustable					
Alarm output		Relay contact output: NO. NC contact rating: AC/DC30V 0.5AMax					
Power supply		DC13.8 ~ 24V AC11 ~ 18V P≥15W					
Power consumption		70mAmax	80mAm	ax g	00mAmax	100mAmax	
Operation tempera	ature & humidity	-25℃-55℃ 5%-	-95%RH(relative humi	dity)			
Dimensions		Refer to its diagram					
Tamper output		Contact output: NC contact rating DC24V 0.5Amax					
Optical axis adju	stment(H)	± 180° (± 90°)					
Optical axis adju	stment(V)	20° (±10°)					
Viewfinder		Detachable					
Protection again	st dew, frost	Calefaction housing (optional)					
Material		PC resin					
Gross		1450g					



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