Model:

Three Beam-50 (Outdoor 50m, Indoor 150m)

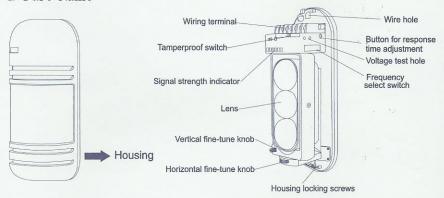
Three Beam-100 (Outdoor 100m, Indoor 300m)

Three Beam-150 (Outdoor 150m, Indoor 450m)

Three Beam-200 (Outdoor 200m, Indoor 600m)

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

I. Part Name



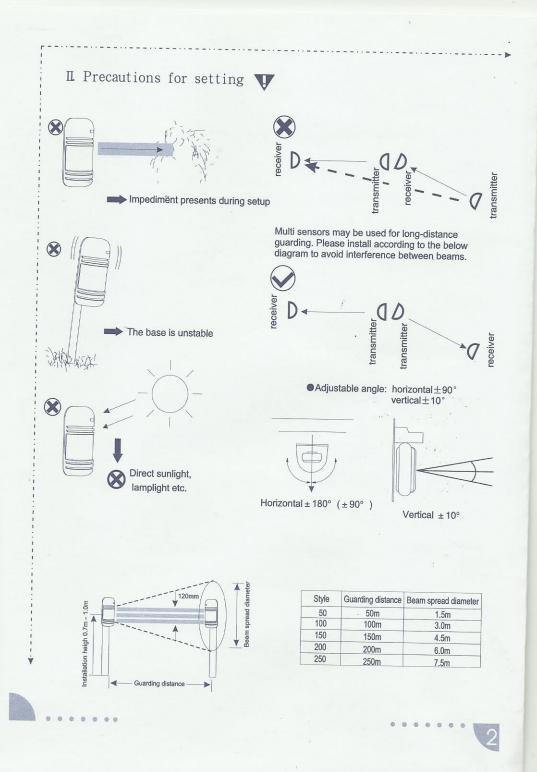


Signal strength receiving indicator. In the diagram, after adjustment of the beam, the level 5 shall light up. Otherwise, adjust again. It is strongly recommended that it should be adjusted to the point until level 7 or higher lights up.



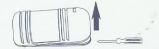


- Power transmit indicator
- LEVEL: Indicators turns on when the beam align presents. Specific alignment accuracy refer to signal strength receiving indicator.
- ALARM: The indicator turns on when alarm presents.
- GOOD: The green indicator turns on when the beam aligns with the receiver. If fails to align, the indicator will OFF.

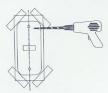


ⅢSetting procedure

1.Remove the cover



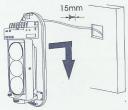
 Attach the paper stencil onto the location where the equipment is to be mounted, and drill the holes in the positions on its mark.



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.







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

Installation of fixed bracket

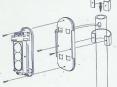
Drill a hole on the bracket and extend out the cable from it.



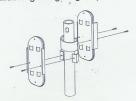
2.Remove the cover.



3. Fasten the base-plate to the bracket.



(Back-to-back installation guiding diagram)



Wiring distance between transmitter and receiver

voltage voltage vire size	DC12V	DC24V	
0.5mm²(φ0.8)	. 300m	300m	
0.75mm ² (φ1.0)	400m	800m	
1.25mm²(ф1.2)	700m	1400m	
2.0mm²(φ1.6)	1000m	2000m	

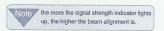


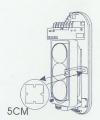
IVBeam alignment

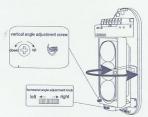
Visual test method

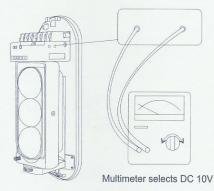
- 1.Remove the cover and connect power.
- 2. Adjust the beam frequency of transmitter and receiver to the same channel.
- 3. Observe the collimation effect at a distance of 5cm from the viewfinder. Adjust the upper / lower angle regulation screw and horizontal adjustment wheel in order that the image 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.









Voltage test method

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

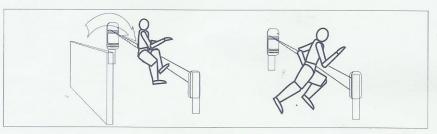




VBeam response time adjustment



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 running(6.9m/s):2

Fast walking(1.2m/s):3

Normal walking(0.7m/s):4

Slow walking(0.4m/s):5



VIPhysical test

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

	State	Signal	
Transmitter	Transmitting	The 2 indicators of green LED light	
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	1.By reflecting, or light from other sources enter the receiver 2.Both beams are not blocked at the same time 3.Response time is set too short	1.Remove the reflecting object or change the direction of beam 2. Block both beams at the same time 3.Prolong the response time		
The receiver alarm indicator ON after the beam is blocked, but there is NO alarm signal output	Broken circuit or short–circuit of the wiring Poor contact	Check the wiring and contact Connect the cable		
The alarm indicator of the receiver is constantly ON.	1.The beam doesn't match closely 2.There is obstacle presents between the transmitter and the receiver 3.The cover is polluted.	1.Re-adjust the beam 2.Remove the obstacle 3.Clear the cover		
ntermittent alarm signal output	1.Improper wiring 2.The supply voltage does not reach 13V or higher 3.The potential obstacle appears to block the beams due to the effect of wind and rain 4.The installation base unstable 5.The beam coincidence accuracy is inadequate 6.Beams blocked by other moving objects 7.Response time too short 8.Level 5 LED does not light up before the cover is put on	1.Check the wiring 2.Check the supply power 3.Remove the obstacle or change the location 4.Select a site with a stable base 5.Re-adjust the optical axis 6.Adjust the shade time or change the install location 7.Re-adjust the response time 8.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		
No. of beams		3 beams 450m 600m 750m					
Detection mode		3 beams blocked simultaneous					
Optical source		Infrared digital pulse beam					
Response speed	i	50 ~ 700msec adjustable					
Alarm output		Relay contact output: NO. NC contact rating: AC/DC30V 0.5AMax					
Power supply		DC12-24V AC11-		3			
Power consumption		70mAmax	80mAm	ax g	0mAmax	100mAmax	
Operation tempera	ture & humidity	Tourian Tourian					
Dimensions	-	Refer to its diagram					
Tamper output		Contact output: NC contact rating DC24V 0.5Amax					
Optical axis adjus	stment(H)	±180° (±90°)		o.orunax			
Optical axis adjus	stment(V)	20° (±10°)					
/iewfinder		Detachable					
rotection agains	t dew, frost	Calefaction housing (optional)					
Material		PC resin					
Net weight		1180g(receiver +transmitter)					
Gross		1966g					

