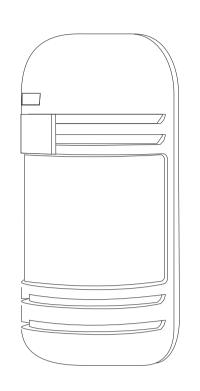
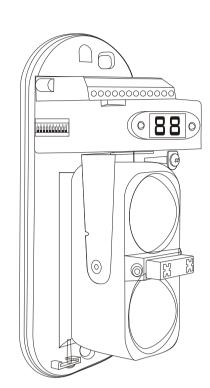
WIRED COMPATIBLE 2 BEAMS ACTIVE INFRARUSION DETECTORS

INSTALLATION GUIDE ABT



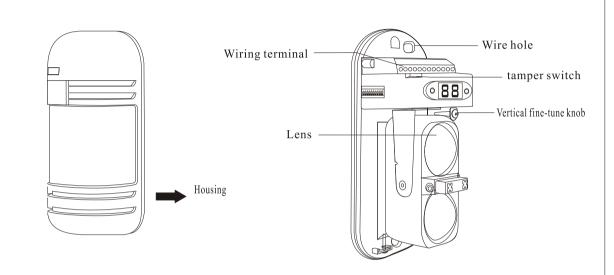


Designed by ZUDEN

I. Technical parameters:

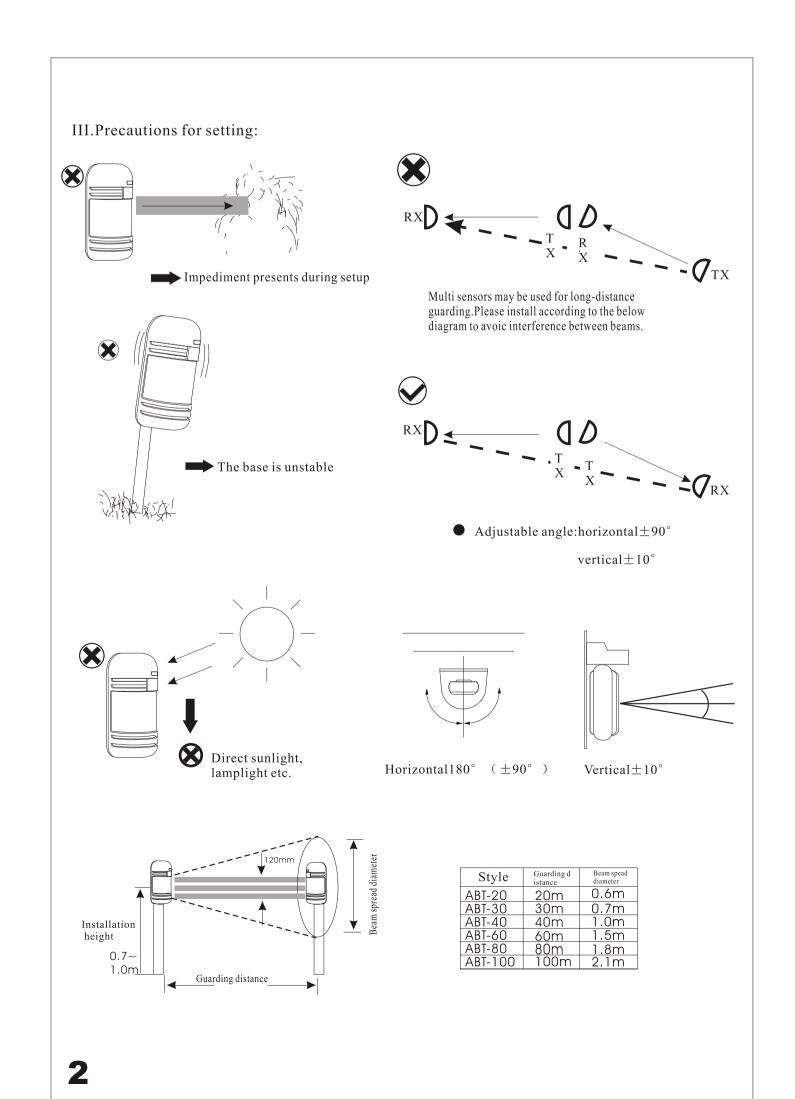
Model		ABT-20B	ABT-30B	ABT-40B	ABT-60B	ABT-80B	ABT-100B	
Alert distance	(Outdoor)	20m	30m	40m	60m	80m	100m	
	(Indoor)	60m	90m	120m	180m	240m	300m	
Number of beams		2 beams						
Detection mode		2 beams blocked simultaneous						
Optical source		Infrared digital pulse beam						
Response time		50-240ms (adjustable without degree)						
Power supply		DC13.8~24V 15W						
Alarm output		Relay contact output NO.NC contact rating AC/DC30V 30mAMax						
Trouble output		Relay contact output NC contact rating AC/DC30V 30mAMax						
Tamper output		Relay contact output NC contact rating DC24V 0.5Amax.						
Power consumption		In the bus mode 13.8 V DC, $\leq 100 \text{mA}$						
Operation temperature&humidity		-25°C~55°C 5%-95%RH (relative humidity)						
Optical axis adjustment (H)		180° (±90°)						
Optical axis adjustment (V)		20° (±10°)						
Material		P C resin						
Net weight		430g (receiver+transmitter)						
Gross weight		790g						

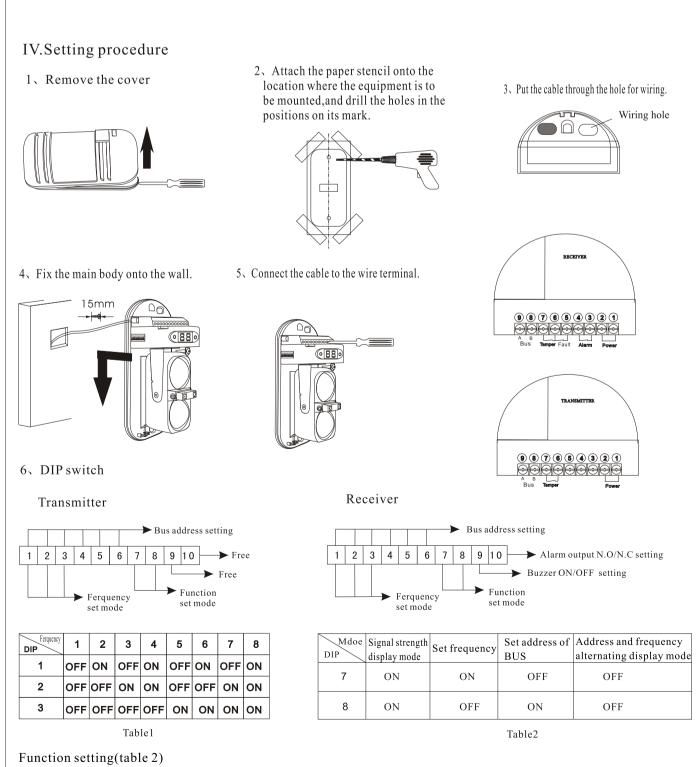
II. Part name:



1. Under bus connection mode: The digital display of RX synchronize with the TX after the RX receive the signal

2.Anti-fog function: when signal strength decrease slowly to 0.8V the detector will active anti-fog alarm (TBL out put), when signal decrease to 0.4V, will active alarm. When signal get back to 1.2v cancel alarm.





1.Set frequency: set DIP 7 at ON, DIP 8 at OFF to enter the frequency setting mode, the digital display shows the frequency. Set frequency on DIP 1,2,3. see table 1.

2.Set address of BUS: set DIP 7 at off, DIP 8 at ON to enter address setting mode. The digital display shows the add-

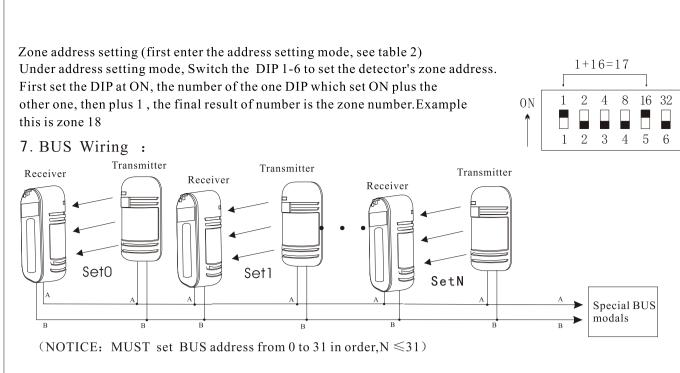
ress number, set the address on DIP 1,2,3,4,5,6 3. Signal strength display mode: Set DIP 7 at ON, DIP 8 at ON to enter signal signal strength mode, the digital display

shows the signal strength. The DIP1,2,3,4,5,6 under this mode is free. 4. Address and frequency alternating display mode, set DIP 7 at OFF, DIP 8 at OFF to enter address and frequency

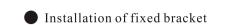
alternating display mode, The DIP1,2,3,4,5,6 under this mode is free.

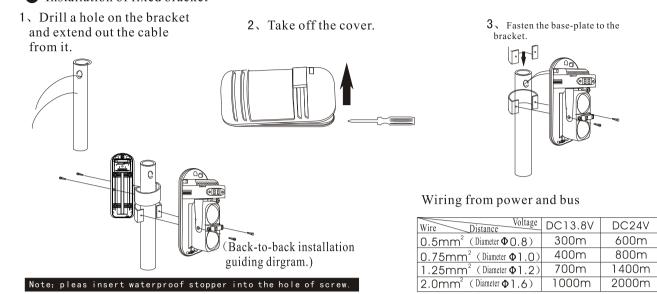
Frequency setting: First enter the frequency setting model(see table 2),

Then set DIP 1,2,3 to set the detector's frequency.(see table 1)



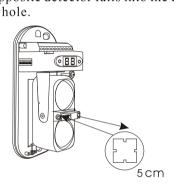
8. Take back the cover after the adjustment of the response time.





V. Beam alignment

1. Observe the collimation effect at a distance of 5cm from theviewfinder. 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.



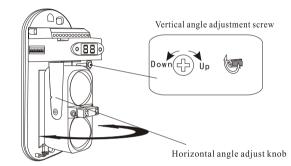
2. Vertical and horizontal adjust as below picture showed to get a best signal strength, if signal strength is less than 1.8, please adjust again to get a better signal strength.

600m

800m

1400m

2000m



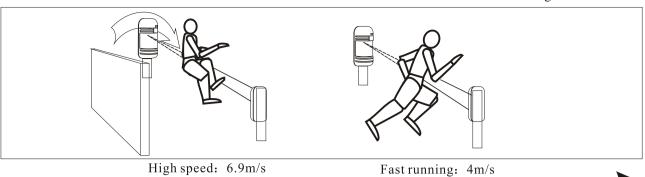
4

VI.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 corsses the grarding area. The MIN point is the shortest

Time:50-240m sec without degree





七、LED

After finish setting, please make walk test.

		Green	Red
TX flash when is	bus signal light o	on when there is no bus signal	always light on
RX flash when is	bus signal light o	on when there is no bus signal	light on when alarming, light off as normal status

IX . Dimension.

