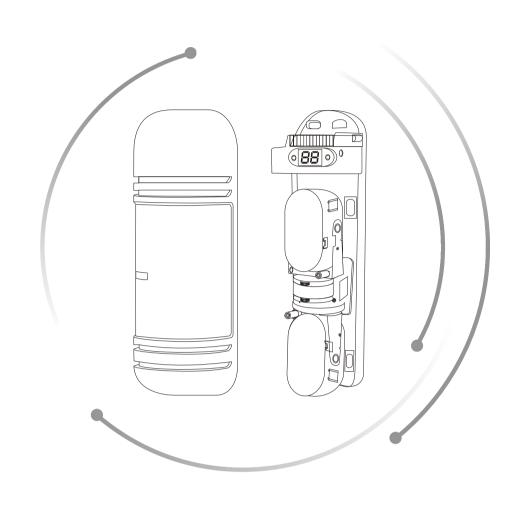
**Bus/Wired Passive Infrared Intruder Detector** with Four Beams

# **ABH Series**

## **User Manual**

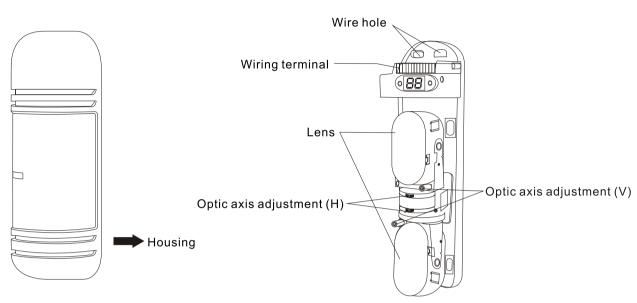


Designed by ZUDEN

### I. Model and specifications

Model		ABH-50	ABH-100	ABH-150	ABH-200	ABH-250	
Detection range	Outdoor	50m	100m	150m	200m	250m	
	Indoor	150m	300m	450m	600m	750m	
Beams		Four beams					
Detection method		Four beams blocked simultaneously					
Light source		Infrared digital pulse					
Response time		50-240ms( Non-adjustable)					
Alarm output		Relay output, NO~NC,able to connect AC, DC30V 30mA Max.					
Power supply		DC13.8-24V					
Power consumption		95mA	100mA	100mA	100mA	105mA	
Temperature& humidity		-25°C~55°C 5%~95% (relative humidity)					
Tamper output		NC, able to connect AC,DC24V 0.3A Max					
Optic axis adjustment(H)		180° (±90° )					
Optic axis adjustment (V)		20° (±10° )					
House Material		PC					
Net weight		2000g(Transmitter+receiver)					
Gross Weight		2500g					

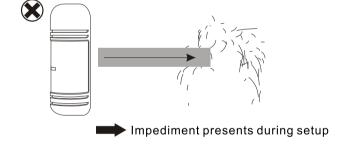
### II.Part name

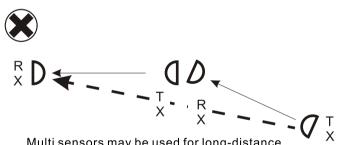


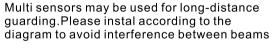
IV. Setting procedure

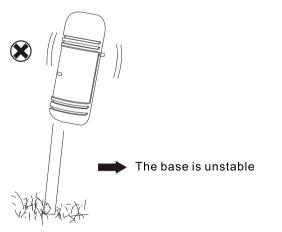
- 1. Under bus connection mode: the digital display of RX synchronize with the TX after the RX receive the signal from bus.
- 2. Anti-fog function: when signal strength decrease slowly to 0.8V the detector will active anti-fog alarm( TBL output, when signal decrease to 0.4V, will active alarm. When signal back to 1.2V cancel alarm.

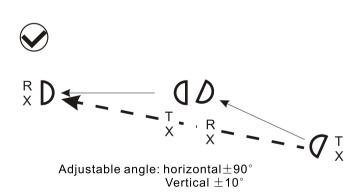


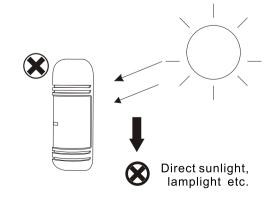


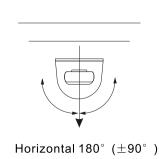


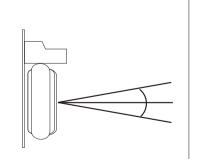




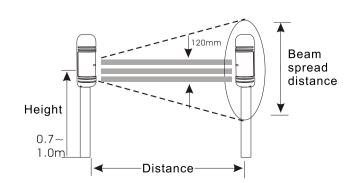




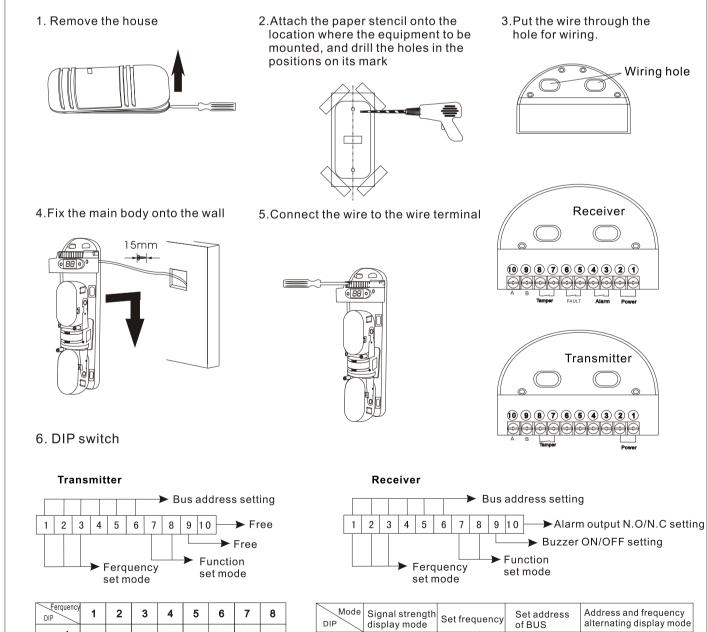




Vertical ±10°



Distance	Beam diameter
50m	0.8m
100m	1.6m
150m	2.4m
200m	3.2m
250m	4.0m
	50m 100m 150m 200m



1 OFF ON OFF ON OFF ON 2 OFF OFF ON ON OFF OFF ON ON 3 OFF OFF OFF ON ON ON ON

OFF OFF ON OFF

### Function setting(table 2)

- 1. Set frequency mode: the digital shows the frequency, set it on DIP 1,2,3, refer to table 1.
- 2. Set address of bus: the digital display shows the address number, set it at DIP 1,2,3,4,5,6
- 3. Set signal strength display mode: the digital display shows the signal strength of beams, The DIP 1,2,3,4,5,6 under this mode is free.
- 4. Address and frequency alternating display mode: the digital dispaly take turns to show the address and frequency. The DIP 1,2,3,4,5,6 under this mode is free.

Frequency setting: first enter the frequency setting mode (refer to table 2), then set DIP 1,2,3 to set the frequency. (refer to table 1)

Zone address setting(first enter the address setting mode, refer to table 2. Under address setting mode, switch the DIP 1-6 to set the detector's zone address, first set the DIP at ON, the number of the one DIP which set ON plus the other one, then plus 1, the final result of number is the zone number, Example this is zone 18 (17+1)

