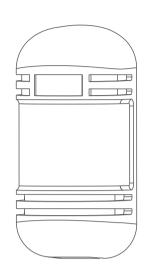
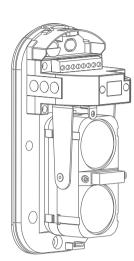
# Two-beam active infrared intrusion detector Installation guide **ABT** series



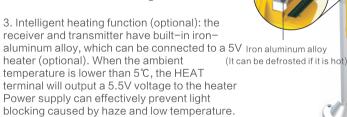


P/N:21050701B02

## III. Function introduction

1. Working principle: The light emitted by the transmitter directly enters the receiver. When the detected object passes between the transmitter and the receiver to block the light, the detector generates an alarm signal.

2. Alarm function: When someone crosses the monitoring protection zone, the invisible infrared beam is interrupted to trigger an alarm, and the detector will send an alarm signal to the host.



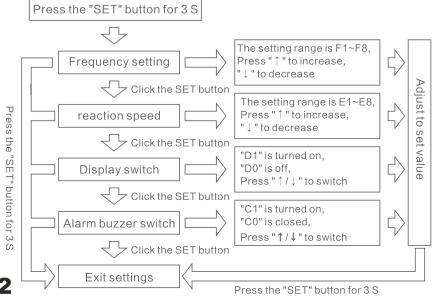
4. Tamper function: This product has a tamper switch, which can trigger an alarm when the outer cover is loose under working conditions.

#### IV. Function mode setting



#### 1. Receiver settings

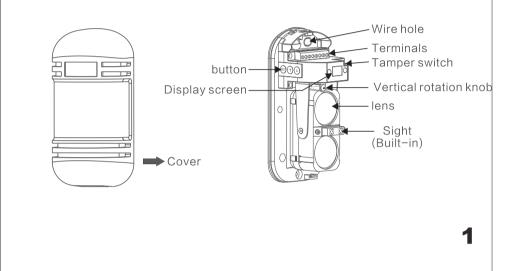
Please refer to the following flow chart for setting.



#### I. Model and specifications

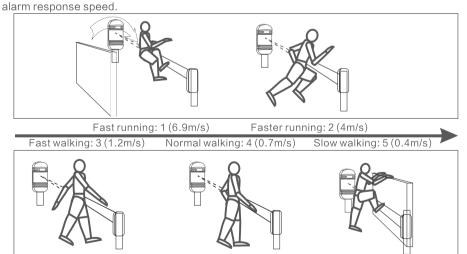
Model		ABT-20	ABT-30	ABT-40	ABT-60	ABT-80	ABT-100	
Warning distance	(outdoor)	20m	30m	40m	60m	80m	100m	
	(Indoor)	60m	90m	120m	180m	240m	300m	
Number of beams		2 beams						
Detection method		2 beams simultaneously interrupted detection type						
Detection distance		≤100m (open area)						
Product size		(L*W*H) 170*81.5*80.5mm						
Light source		Infrared digital pulse type						
Power supply voltage		DC12V~24V						
Alarm signal threshold		≤0.5V						
Alarm output		Relay contact output NO. NC						
Waterproof rating		IP55						
Condensation and frost countermeasures		heating housing (optional), optional heater						
Current consumption		≤100mA (a pair)						
Working environment		-25°C~+55°C						
Optical axis adjustment angle		180° (±90°)						
Optical axis adjustment angle		20° (±10°)						
Material quality		PC						

#### II. Part name



• Frequency setting: 8 frequencies (F1~F8) can be set. It can be used normally when the transmitting and receiving frequencies are the same. Under normal working conditions, short press the "↑" button to directly query the current receiving frequency number of the radio.

• Response speed setting: the speed when the detected object passes between the transmitter and the receiver to block light. Generally, the speed should be less than the speed required by the intruder to pass through the warning surface. It can be set to 8 gears (E1 ~E8) Alarm response speed (shading time), the smaller the number of gears, the faster the response speed. The shading time is 40ms~180ms, please refer to the following figure for adjusting the shading time. Under normal working conditions, short press "  $\downarrow$  " to query the



- Display switch: Whether the display shows the signal strength during normal working hours of the radio. If the setting is turned on, the current signal strength will be displayed, and it will not be displayed when it is turned off.
  - Alarm buzzer switch: whether the buzzer sounds when the alarm is triggered.

### 2. Tansmitter settings

8 transmitting frequencies can be set. The setting of the transmitter frequency should be consistent with the receiving frequency. The red lights on the transmitter represent 1, 2, 4, and 8, from left to right. Press the "SET" key to start the frequency

Switch. Frequency indicator comparison table:								
	Indicator status	CHANNEL	CHANNEL	CHANNEL	CHANNEL  ○ ○ ● ○  1 2 4 8			
	Transmit frequency	Frequency 1	Frequency 2	Frequency 3	Frequency 4			
	Indicator status	CHANNEL	CHANNEL	CHANNEL	CHANNEL  ○ ○ ○ ○ ● 1 2 4 8			
	Transmit frequency	Frequency 5	Frequency 6	Frequency 7	Frequency 8			
Remarks means the indicator light is always on; o means the indicator l								

