

Installation guide of BD digital frequency intelligent infrared fence

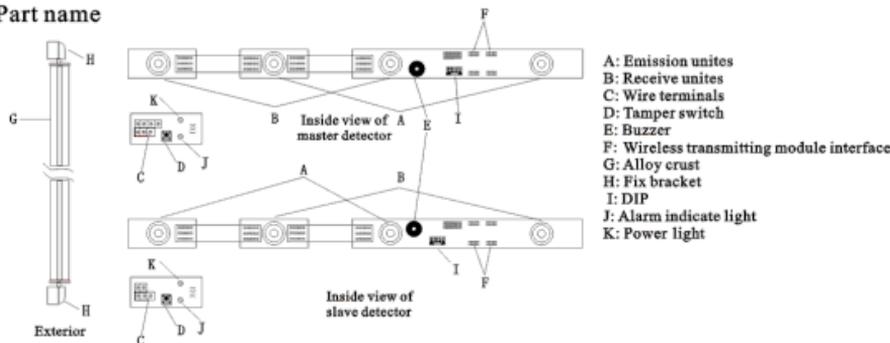
1. Brief introduction

BD series digital alter-frequency intelligence infrared fence is the best infrared fence with highest quality and fullest functions. Adopt CPU micro-process digital control technology, with Al-alloy housing, with advanced technology, distinguished ability, designed perfectly, use coaxial un-spherical lens with double focus, advanced emitter fit for gain auto-adjust technology, with high sensitivity, strong ability of anti-interfere. Completely fit for indoor or outdoor of 24-hour, Perfect Al-alloy housing, tamper, anti-opening circuit design; 360° discretionary rotate can let adjust more quick and accuracy; Adopt photoelectric recognize principle can prevent small pet, bird, tree, leave, specially sunlight result to false alarm effectively. With pre-alarm and trouble output functions, 4,6,8,12 beams eligibility. Silvery housing, streamline design, simply and glory, measure to the requirement of veranda of mo-dern house, fence of villa, open warehouse, pasture, etc.

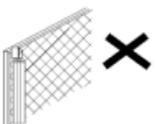
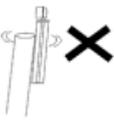
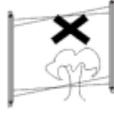
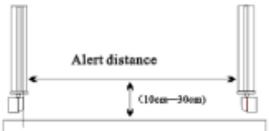
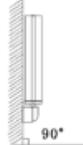
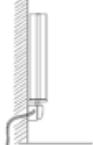
2. Characteristic

1. Only need emission each other detection, avoid the disturb from sunlight.
2. Block any of beams it will prealarm
3. Alarm output: NO/NC optional
4. AGC ensure not effected by environment
5. Special anti-reflect technology ensure working normally

3. Part name



4. General guidelines

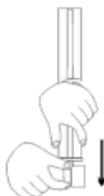
1. Don't install on a shaking base

2. Don't install on an unstable pole

3. Keep no impediment between the detectors

4. The distance between the ground and the lowest beams shall be 10-30cm, please adjust according to the fact.

5. Build in vertical

6. Wire of the detector shall most be placed into a slot.


5. Installation and setting

1. Take out the PCB



Take out the upper plastic block

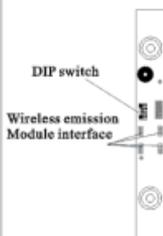


Take out the under plastic block



Push out the PCB from the under by a screw-driver

3. DIP setting



S3DIP:

- 5: Alarm output mode only for master detector
 "ON" is open
 "OFF" is close

4,3 Beams option:

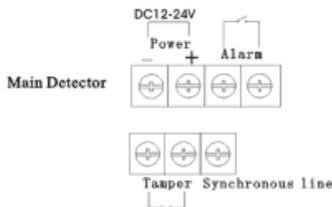
- 00 4 beams
 01 6 beams
 10 8 beams
 11 12 beams

2,1 Frequency option

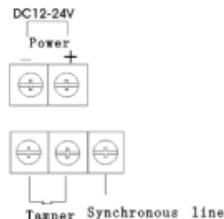
- 00 1 frequency
 01 2 frequency
 10 3 frequency
 11 4 frequency

Note: 0 - OFF
 1 - ON

2. wiring



Slave Detector



Note: The main detector and slave detector should share the same power

Wire size	Voltage distance	DC14V	DC24V
0.5mm ² (ϕ 0.8)		300m	600m
0.75mm ² (ϕ 1.0)		400m	800m
1.25mm ² (ϕ 1.2)		700m	1400m
2.0mm ² (ϕ 1.6)		1000m	2000m

Wiring distance between power and main detector

4. Fix the fence bracket



1. Take out the anti-water cover



2. Drill the hole for cable with a screw-driver



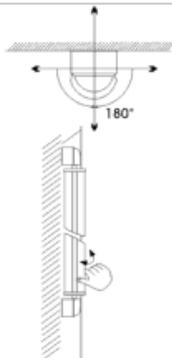
3. Extend the cable, then drive it from under



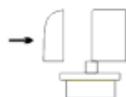
4. Take the PCB back through the slots



5. Fix it on the position you want



6. Adjust the housing horizontally for the best result (it is normal when buzzer silent)



7. Take the arc-shape anti-water lid back

6. Walking test

1. Block any of beams, it will prealarm
(The buzzer sound discontinuously)
2. Block two neighbour beams it will alarm
(The buzzer sound continuously)
3. Installation successful
when above two test passed



Test by 0.3m/s



Test by 4m/s



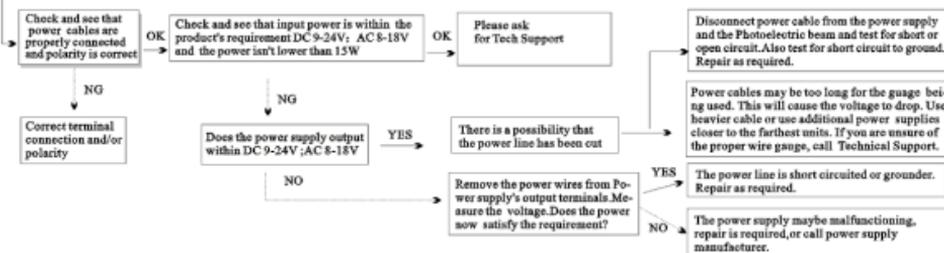
Both of the tests pass, will be successful

7. Technical parameters

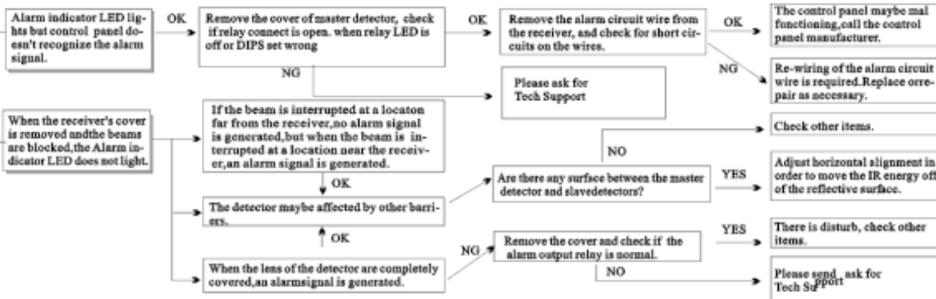
Model		BD-104	BD-106	BD-108	BD-110	BD-112	BD-204	BD-206	BD-208	BD-210	BD-212	BD-404	BD-406	BD-408	BD-410	BD-412	BD-604	BD-606	BD-608	BD-610	BD-612		
Alert distance	Outdoor	10m				20m				40m				60m									
	Indoor	20m				40m				80m				120m									
No. of the beams		4	6	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12		
Detecting mode		Neighbor 2 beams blocked simultaneous																					
Optical source		Infrared digital pulse beam																					
Response time		50msec																					
Alarm output		Relay contact output:NO.NC contact rating:AC/DC30V 0.5Amax																					
Power supply		DC 12-24V AC 10-18V 15W																					
Power consumption		<170mA (DC 12V, 12beam, 60m)																					
Temperature&humidity		-25°C-55°C 5%-95%RH (relative humidity)																					
Dimension		Refer to the diagram																					
Tamper output		Contact output:NC contact rating:DC24V 0.5Amax.																					
Optical axis adjustment		180°																					
Material		Al alloy metal housing																					

8. Trouble solution

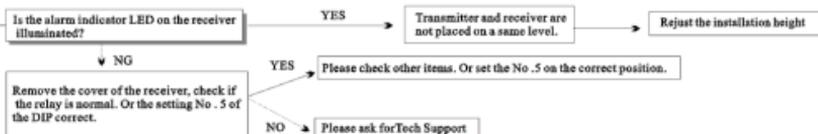
1. "No Action" on the transmitter or receiver after power has been applied



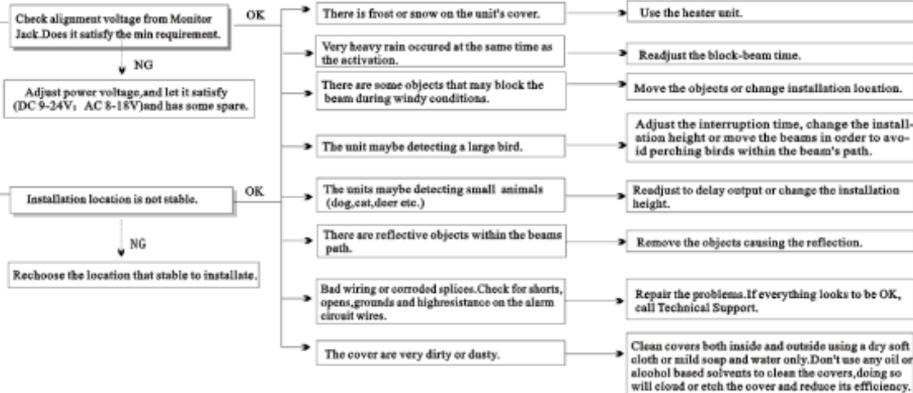
2. "No Action" on alarm zone even though the beams are completely blocked.



3. Alarm signal is being generated though beams are not blocked



4. False alarm



9. Special comments

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to :DC power failure/improper connection, malicious masking of the lens, tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part. The above list includes the most common reasons for failure recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance. An alarm system should not be regarded as a substitute for insurance. Home and property owners or renters should be prudent enough to continue insuring their live and property, even though they are protected by an alarm system.



WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.