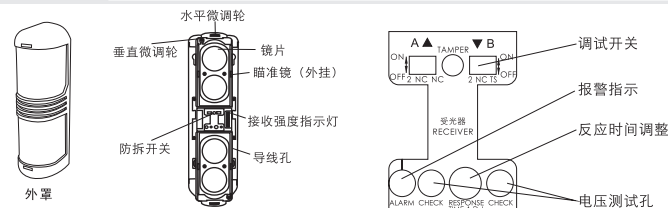


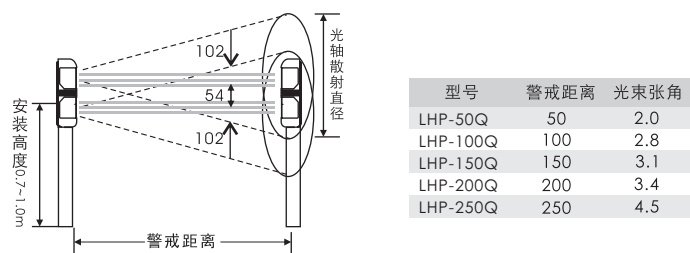
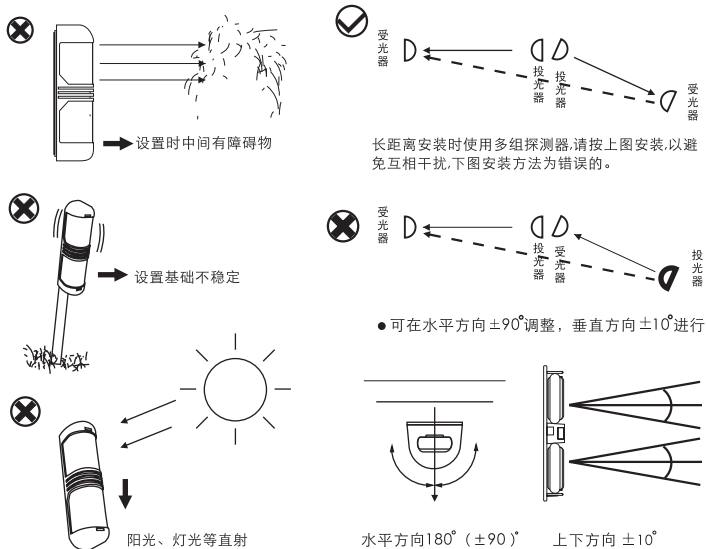
四光束数码主动红外入侵探测器 使用说明书

- LHP-50Q (室外50m 室内150m)
- LHP-100Q (室外100m 室内300m)
- LHP-150Q (室外150m 室内450m)
- LHP-200Q (室外200m 室内600m)
- LHP-250Q (室外250m 室内750m)

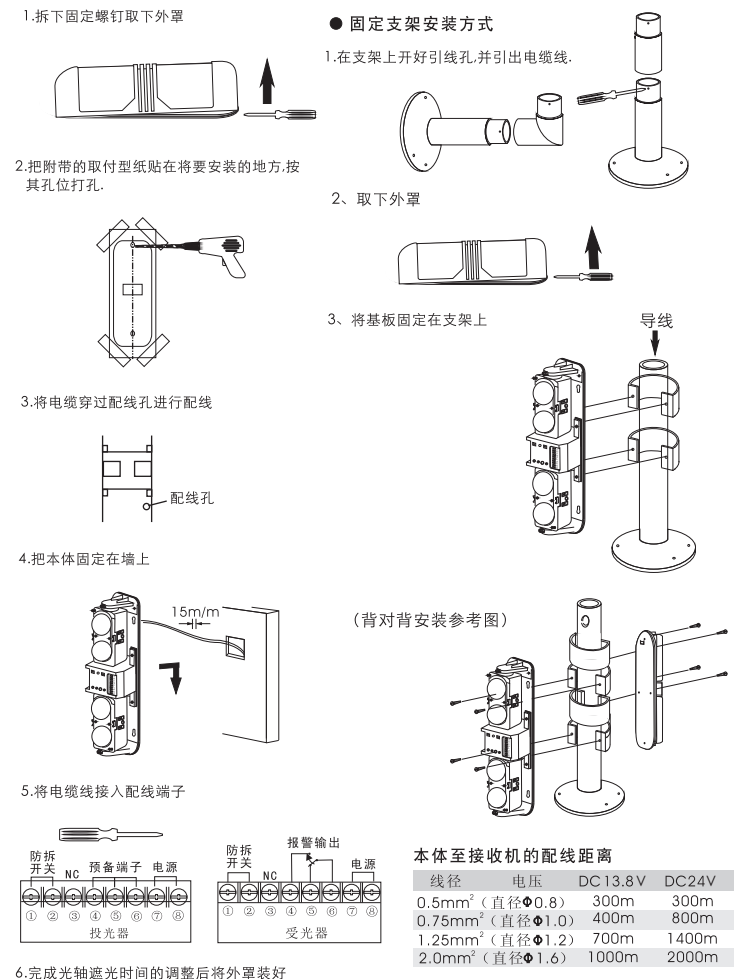
一、部件名称



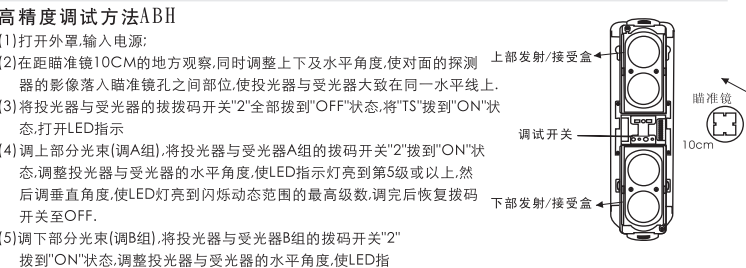
二、设置上的注意事项



三、设置方法

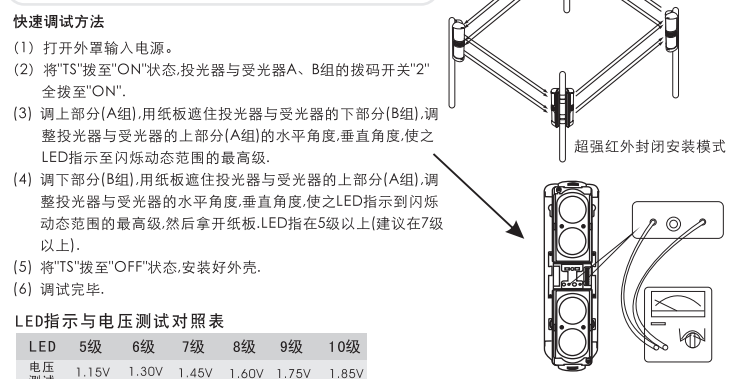
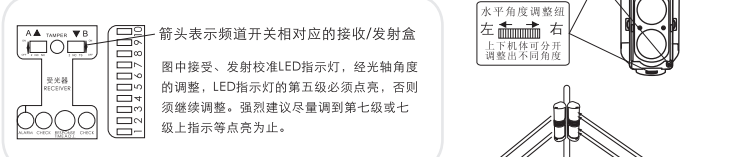


四、光轴调束(4光束超强接受模式)

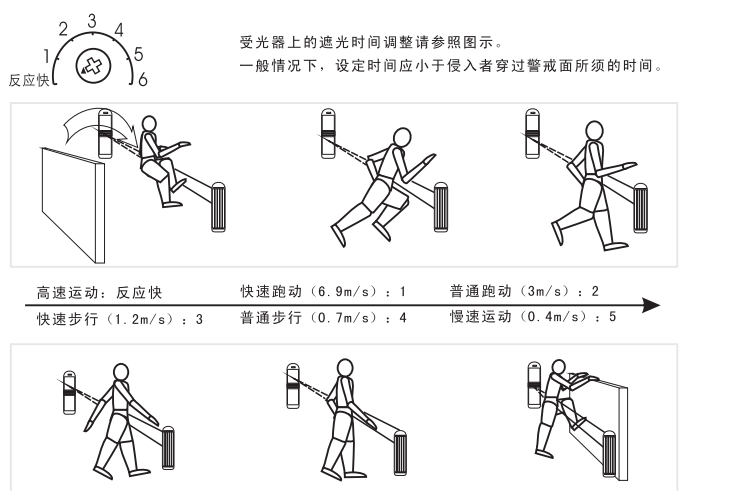


数字四光束主动红外入侵探测器 使用说明书

示灯亮第5级或以上，然后调垂直角度，使LED灯亮到闪烁动态范围的最高级。
 (6) 调试完毕后，将投光器与受光器A、B组的拨码开关“2”全部拨至“ON”状态，TS拨到OFF状态。
 (7) 装好外壳。



五、遮光时间的调整



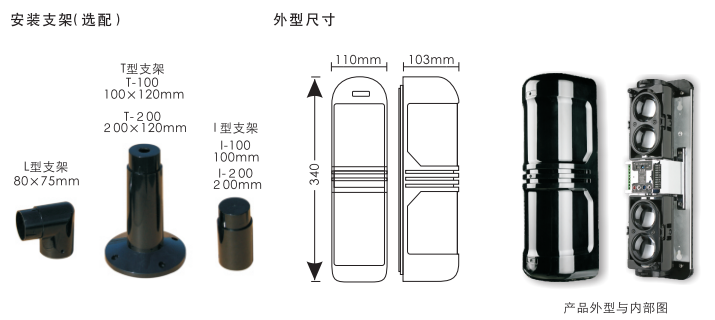
六、异常时的检查

故障	故障原因	对策
投光器指示灯不亮	电源电压不适合(断线, 短路等)	检查电源配线
受光器指示灯不亮	电源电压不适合(断线, 短路等)	检查电源配线
光线被遮断, 受光器指示灯不亮	1. 因反射或其他投光器的光线进入受光器 2. 两条光束没有同时被遮断 3. 遮光时间设定过短	1. 除去反射物体或变更光束方向 2. 同时遮断两束光 3. 延长遮光时间
遮断光线后, 受光器报警指示灯亮但无报警信号输出	1. 配线断路或短路 2. 接点接触不良	检查配线和接点
受光器的报警指示信号常亮	1. 光轴不重合 2. 投、受光器之间有障碍物 3. 外罩被污物污染	1. 重新调整光轴 2. 清除障碍物 3. 清洗外罩
断断续续有报警信号输出	1. 配线不良 2. 供电电压不能达到13.8V或以上 3. 投、受光器之间有活动障碍物 4. 安装基础不稳定 5. 光轴重合精度不够 6. 其他移动物体遮光 7. 反应时间过快 8. 未盖外壳时第5级指示灯未亮	1. 检查配线 2. 检查电源 3. 去除障碍物或变更设置场所 4. 选择基础牢固的场所 5. 重新调校光轴 6. 调整遮光时间或变更安装场所

七、技术参数

型号	LHP-50Q	LHP-100Q	LHP-150Q	LHP-200Q	LHP-250Q
警戒距离 (室外)	50m	100m	150m	200m	250m
警戒距离 (室内)	150m	300m	450m	600m	750m
光束数	4束				
探测方式	4光束同时遮断检知式				
光源	数字滤波式				
感应速度	35~700msec可调				
报警输出	1C继电器接点输出 接点容量DC30V/0.5A MAX				
电源、电压	DC13.8~24V; AC11~18V				
消耗电流	95mA	100mA	100mA	105mA	105mA
使用温度范围	-25℃~55℃				
外型尺寸	参照外型图				
防拆输出	1B接点输出, DC30V/0.5A MAX				
光轴调整角度(水平)	180°(±90°)				
光轴调整角度(垂直)	20°(±10°)				
瞄准镜	视窗式				
接露、霜对策	电子加热设备				
其他附加机能	感性测试输出端子、感应强度多级LED指示				
材质	PC 工程塑料				

八、安装支架、实物外型尺寸

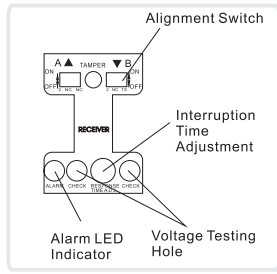
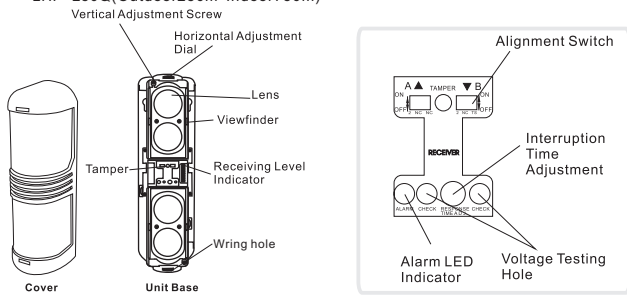


Quad Beam Detector

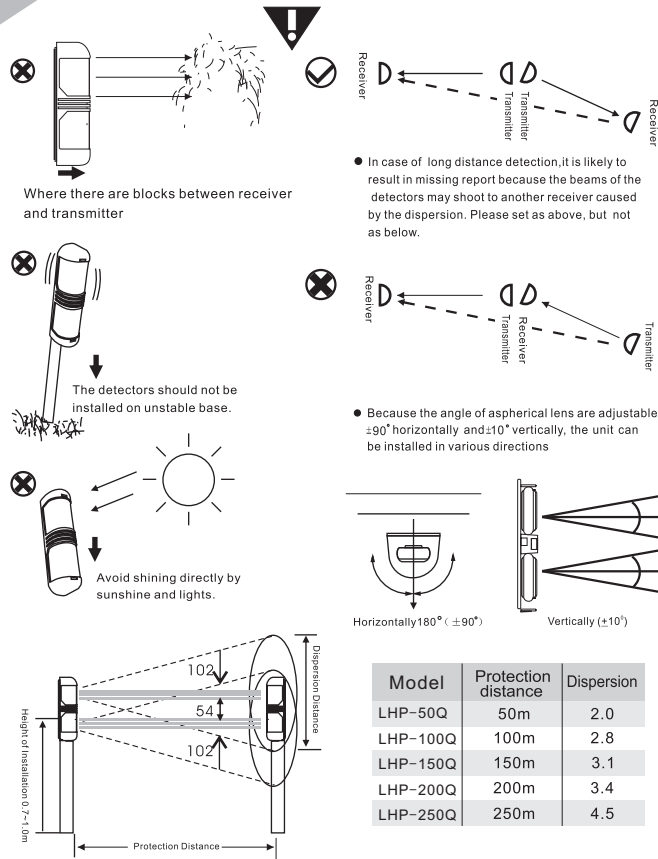
1 Parts Description

LHP-50Q (Outdoor50m Indoor150m)
LHP-150Q(Outdoor150m Indoor450m)
LHP-250Q(Outdoor250m Indoor750m)

LHP-100Q(Outdoor100m Indoor300m)
LHP-200Q(Outdoor200m Indoor600m)



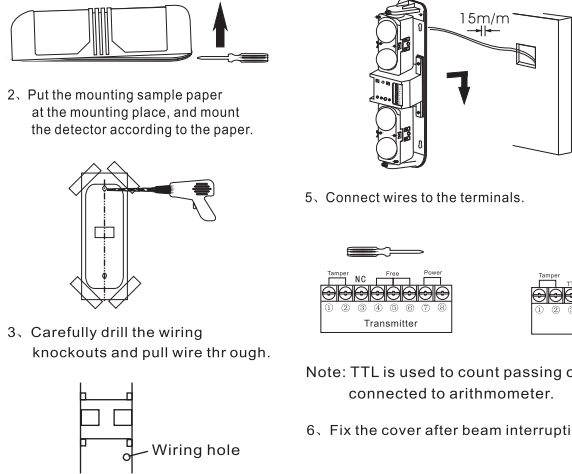
2 Setting Notice



Model	Protection distance	Dispersion
LHP-50Q	50m	2.0
LHP-100Q	100m	2.8
LHP-150Q	150m	3.1
LHP-200Q	200m	3.4
LHP-250Q	250m	4.5

3 Setting method

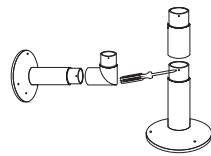
- Loosen the screws on the top of the detector, and remove the cover.
- Put the mounting sample paper at the mounting place, and mount the detector according to the paper.
- Carefully drill the wiring knockouts and pull wire through.
- Fix the base unit firmly on the wall.
- Connect wires to the terminals.
- Fix the cover after beam interruption time is set.



Note: TTL is used to count passing objects when connected to arithmometer.

Fixed Bracket Mounting

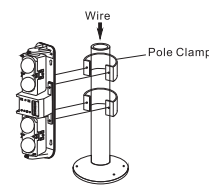
- Punch the wire hole on the bracket, then pull out the wires.



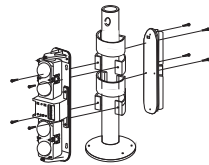
- Remove the cover.



- Fix the base unit on the bracket.



Two units installation (back to back)



The Wiring Distance

Diameter \ Voltage	DC13.8V	DC24V
0.5mm ² (Diameter 0.8)	300m	600m
0.75mm ² (Diameter 1.0)	400m	800m
1.25mm ² (Diameter 1.2)	700m	1400m
2.0mm ² (Diameter 1.6)	1000m	2000m

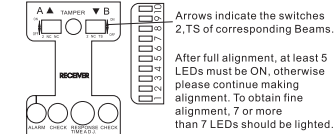
PHOTOELECTRIC QUAD BEAM DETECTOR Manual

4 Beam Alignment

High Accurate Alignment

- Remove the cover and apply the power;
- look into the viewfinder at a distance of 10CM, and adjust the Lens horizontally and vertically, so that the receiver or transmitter can be seen in the centre of the sight;
- Switches 2 of the transmitter and receiver OFF, and switch TS ON.(Please refer to <Switch2, TS and LEDs> below).
- Upper Beams Alignment(Group A): Switch 2 of the Group A ON, and adjust the Lens horizontally and vertically to make the most LEDs ON, at least 5 LEDs ON;Switch 2 of the Group A OFF after alignment;
- Lower Beams Alignment(Group B): Switch 2 of the Group B ON, and adjust the Lens horizontally and vertically to make the most LEDs ON, at least 5 LEDs ON;
- After full alignment, all switches 2 ON, and switch TS OFF;
- Cover the base;

Switches 2, TS and LEDs



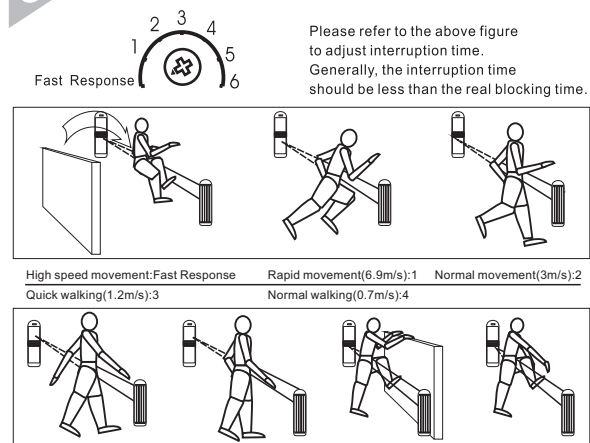
Quick Alignment Method

- Remove the cover and apply power
- All switches 2 and switch TS ON;
- Upper Beams Alignment(Group A):Using a cardboard or the like to block the lower beams of Group B, adjust Lens horizontally and vertically to make the most LEDs ON;
- Lower Beams Alignment(Group B):Using a cardboard or the like to block the upper beams of Group A, adjust Lens horizontally and vertically to make the most LEDs ON, then remove the cardboard, at least 5 LEDs ON (Recommend more than 7 lit LEDs);
- Switch TS OFF and put the cover back.
- The test is completed.

LED Indicator and Monitor Jack Output

LED	5	6	7	8	9	10
Monitor jack output	1.15V	1.30V	1.45V	1.60V	1.75V	1.85V

5 Beam Interruption Adjustment



Please refer to the above figure to adjust interruption time. Generally, the interruption time should be less than the real blocking time.

6 Trouble shooting

Symptom	Possible Cause	Remedy
Transmitter LED dose not light.	Improper voltage supplied.	Check the power supply and wiring.
Receiver LED dose not light.	Improper voltage supplied.	Check the power supply and wiring.
Alarm LED dose not light, even when beams are blocked.	1. Beams reflected to the receiver by the other objects. 2. 4 beams are not blocked simultaneously. 3. Interruption time is too short.	1. Remove the reflecting object or change Lens direction. 2. Block 4 beams simultaneously. 3. Prolong the interruption time.
When the beams are blocked, the receiver LED is ON, but not alarm.	1. Wiring is short circuit. 2. Wiring point is not good.	Checking wiring and connection spot.
The alarm LED indicator of the receiver is always on.	1. Lens is not properly adjusted. 2. There are blocks between the transmitter and receiver. 3. The detector covers are dirty.	1. Adjust the Lens directions. 2. Remove the blocks. 3. Polish the cover with soft cloth.
Intermittent alarm	1. Bad wiring. 2. Supplied voltage can't reach 12V 3. Movable blocks between the transmitter and the receiver. 4. The installation base is unstable. 5. Improper Lens direction. 6. Blocked by other moving objects. 7. The interruption time is too short. 8. 5 LEDs do not light when uncover	1. Check wiring. 2. Check the power supply. 3. Remove the blocks or relocate. 4. Fix the mounting. 5. Adjust the Lens direction.. 6. Adjust interruption time or change installing position.

7 Specification

Model	LHP-50Q	LHP-100Q	LHP-150Q	LHP-200Q	LHP-250Q
Protection (Outdoor) Distance (Indoor)	50m 150m	100m 300m	150m 450m	200m 600m	250m 750m
Beam Characteristics	Pulsed Infrared Quad beam				
Detection methods	4 beam interrupt detector type				
The light source	Digital filter type				
Optical sight	The window type				
Alarm Output	Form C Relay (DC30V/0.5A MAX)				
Dew, frost countermeasures	Electronic heating equipment				
Current Consumption	95mA	100mA	100mA	105mA	105mA
Interruption Period	50-700msec Selectable				
Power Input	DC13.8-24V;AC11-18V				
Tamper Switch	NC opens when cover is removed				
Alignment Angle	180° (±90°) Horizontal, 20° (±10°) Vertical				
Operating Temperature	-25℃~+55℃				
Appearance	PC Resin(Black)				
Other additional function	Sensitivity test output terminals, induction intensity multistage LED indicator				

8 Installation Bracket and Detectors Dimension

