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When installing and using this product, **all** relevant electrical safety regulations of the country and the region in which it is used must be strictly observed.

Please use the power adapter provided by a reputable manufacturer. For the specific requirements of the power adapter, please refer to the product parameter table.

Please disconnect the power source before performing operations such as wiring, disassembly, or reassembly. Do not operate the device while it is energized. If the device is not functioning properly, please contact the store where you purchased it or the nearest service center. Do not attempt to dismantle or modify the device in any way. (We are not responsible for issues arising from unauthorized modifications or repairs.)

Please refrain from dropping objects onto the device or subjecting it to excessive vibration, and keep the device away from areas where magnetic interference is present. Avoid installing the device on surfaces that are prone to vibration or susceptible to shocks (omitting this could potentially damage the device).

Please do not operate the equipment in environments with high temperatures, low temperatures, or high humidity. Please refer to the equipment's parameter sheet for specific temperature and humidity requirements.

Do not operate in a humid environment.

Do not operate in environments where there is a risk of explosion.

Keep the surface of the product clean and dry.

Avoid contact with exposed circuits. Do not touch exposed points and components when the product is powered on.

Dual Beams Infrared Detector

Quick Start Guide



Installation Video

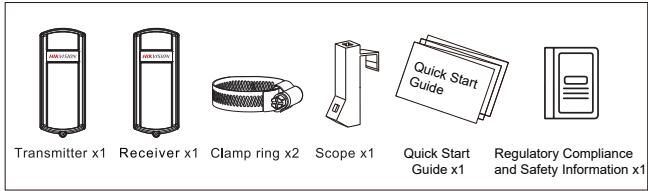
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No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

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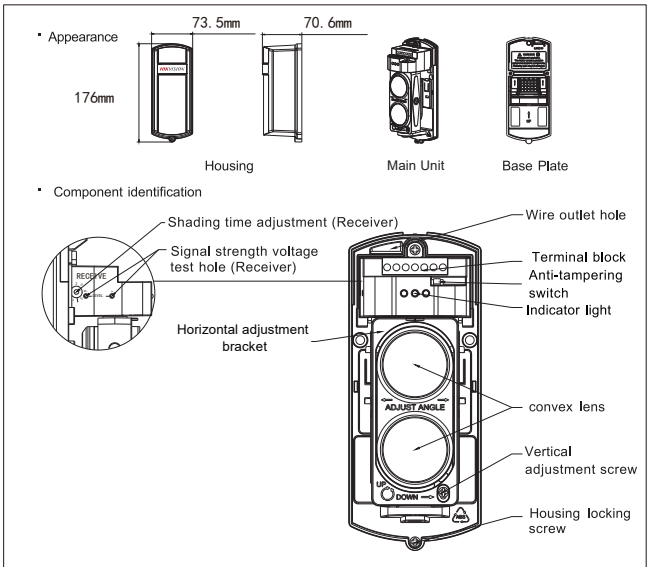
02

03

I . Packing list



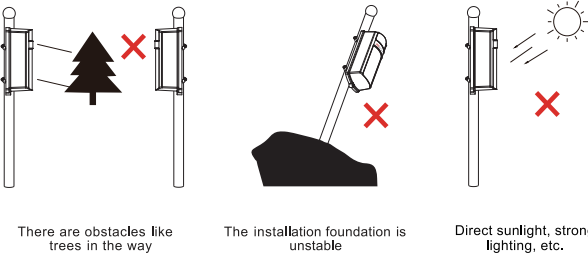
II . Component identification explanation



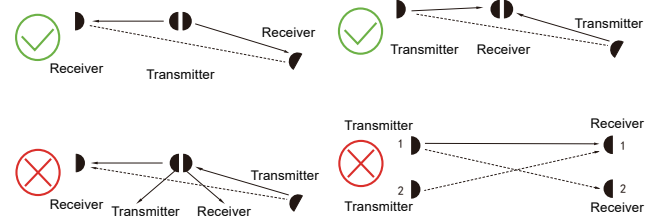
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III . Installation Precautions

3.1 Installation environment: Please avoid installing this product in the following situations



3.2 Installation suggestions for multiple detectors: Install transmitters and receivers as shown in the diagram to avoid false alarms and missing alarms of the products



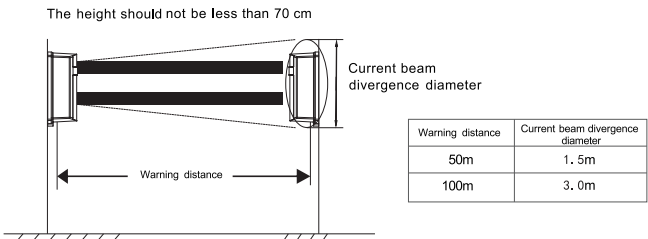
05

3.3 Installation Height and Warning Distance

3.3.1 It is recommended that the installation height from the ground be no less than 70 cm. If the height is too low, infrared beams will be reflected by smooth ground surfaces (e.g., ceramic tiles, marble), which may cause false or missing alarms of the product

3.3.2 Transmitter and receivers should be kept on the same horizontal plane as far as possible during installation, and both units themselves shall be maintained in a horizontal state without any inclination

3.3.3 The corresponding relationships between the alert distance and the beam spread diameter are illustrated in the diagram and table



✱ It is recommended that at least two construction personnel be present for the installation of this product.

IV . Preparation work before installation

4.1 Power Supply and Wiring Selection Recommendations (Not Standard, Optional Purchase Required)

Product power: Maximum power 5W

Working Voltage: DC12-24V/AC12-18V

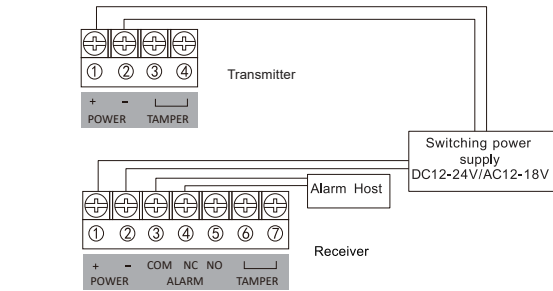
Working Current: Transmitter + Receiver ≤ 85mA

Select a switching power supply and wiring that meet the requirements of national standards in accordance with the product's working power, working voltage and working current.

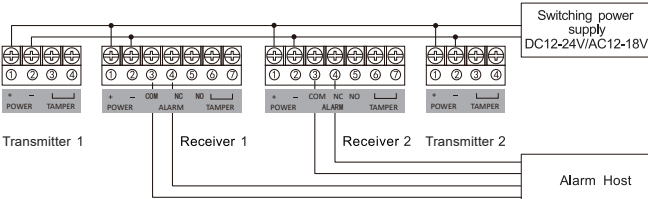
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4.2 Wiring example

4.2.1 Wiring Example for a Single Set: The Transmitter and Receiver are connected in parallel for power supply and powered by a switching power supply. The alarm output terminal supports NO/ NC connection, and a wiring example with NC/COM is shown in the diagram as follows



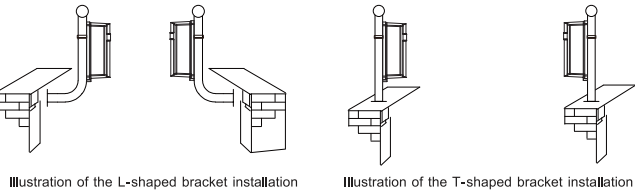
4.2.2 Wiring Example for Two Sets: The Transmitter and Receivers are connected in parallel for power supply and powered by a switching power supply. The alarm output terminals support NO/ NC connection, and a wiring example with NC/COM is shown in the diagram as follows



- ✱ Connect the power supply terminals to the power supply cables, and the alarm terminals to the signal cables.
- The tamper switch is independent of other circuits. Its terminals are in the NO (Normally Open) state when the housing is removed, and in the NC (Normally Closed) state when the housing is closed.
- Relay Load (Resistive): DC30V 0.5A max

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4.3 Recommended mounting bracket (not included as standard; must be purchased separately)
4.3.1 Wall-mounted installation: Choose a 300mm L-shaped bracket with a rounded end, with a diameter of 38-42mm, for compatible installation
4.3.2 Wall mounting: Choose a 300mm T-shaped bracket with a rounded end, with a diameter of 38-42mm, for compatible installation



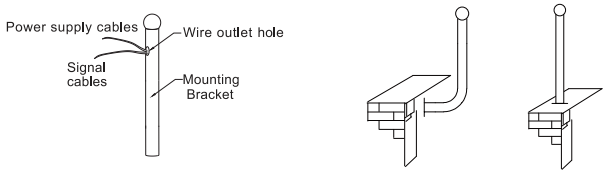
※ Please prepare one set of cross/linear screwdrivers, electrical tape, a hand drill, and other relevant tools in advance.

V. Installation steps

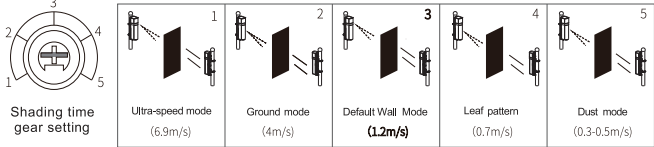
5.1 Lead wires and mounting brackets

5.1.1 Leading wires: Extract power wires and signal wires from the outlet holes on the bracket

5.1.2 Install the mounting bracket: Secure the bracket to the wall or wall support



5.4 Shading Time Setting: For the shading time setting of the receiver, refer to the diagram; the product is factory-set to the 3rd gear "Wall Mode" by default

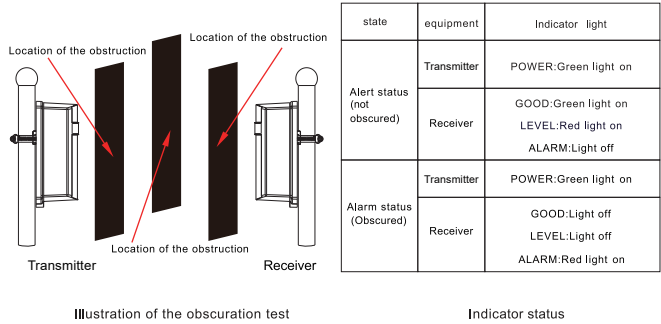


※ The typical duration set should be slightly shorter than the time it takes for an intruder/obstacle to traverse the guarded area.

5.5 Shading test

5.5.1 Shading Test Without Housing: Please refer to the test method and indicator light status instructions to perform the shading test

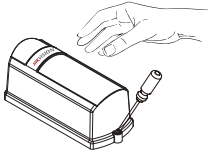
Test Method: Conduct the test in the following three steps and observe whether the ALARM light on the receiver is on; if it is on, the detector is installed correctly.① Block in front of the transmitter; ② Block in front of the receiver; ③ Block between the transmitter and the receiver.



※ If the ALARM light is off during the shading test, refer to "Fault Analysis and Troubleshooting" for solutions.

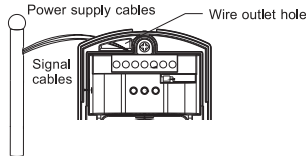
5.2 Wiring and installation products

5.2.1 Remove the housing

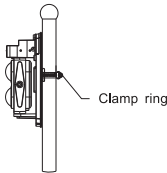


※ Avoid scratching the outer cover and getting it dirty with dust. Keep the inner and outer surfaces clean.

5.2.2 Cable Threading: Pass the power cables and signal cables through the cable outlet of the main unit, and leave a 10-15 cm cable length for connection



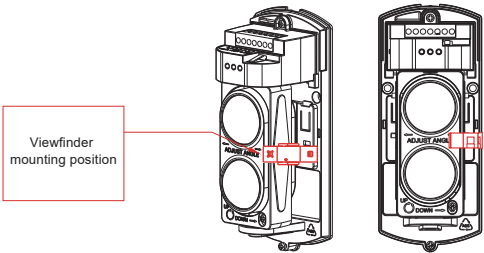
5.2.3 Fixed Main Body: Secure the main body to the bracket (for the initial setup, do not overtighten the screws; this makes it easier to make adjustments)



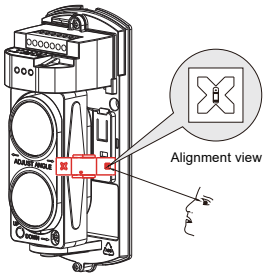
5.3 Alignment procedure

5.3.1 Coarse alignment

① Install the viewfinder: Peel off the double-sided tape on the viewfinder. When installing, ensure that the mounting tab of the viewfinder is perpendicular to the "Right Arrow Mark →" on the receiver's convex lens.

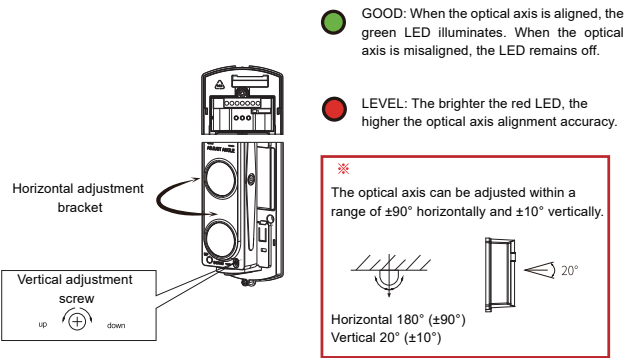


② Look through the viewfinder: Keep an appropriate distance between your eyes and the viewfinder. When the transmitter image is centered in the viewfinder, the coarse alignment is complete. If not, adjust the horizontal adjustment bracket and vertical adjustment screw until the transmitter image falls into the center of the viewfinder.

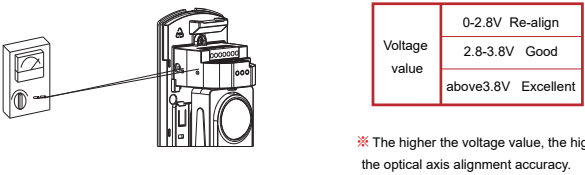


5.3.2 Fine alignment

① Align using the LED indicator: First, adjust the horizontal adjustment bracket until the receiver's GOOD LED illuminates. If it does not, continue adjusting the vertical adjustment screw until the GOOD LED turns on.



②Voltage measurement adjustment: Set the multimeter to DC voltage range. Insert the test probes into the receiver's monitor jack (pay attention to the "+" and "-" polarity). Fine-tune the horizontal adjustment bracket and the vertical adjustment screw until the voltage value reaches ≥2.8 V. The product is then ready for normal operation.



VI. Fault analysis and diagnosis

Error (phenomenon)	Cause of the malfunction	Countermeasure
Transmitter Indicator Light Off	receiver indicator light is off	check the power supply wiring
Receiver Indicator Light Off	inappropriate power supply voltage (open circuit, short circuit, etc.)	check the power supply wiring
the infrared ray is obstructed, and the receiver ALARM indicator light is off	·due to reflection or light from other transmitter entering the receiver ·dual light beams not blocked simultaneously ·shading time set too short	·remove reflective objects or adjust the optical axis direction ·block dual light beams simultaneously ·extend the shading time
block the infrared ray, the receiver ALARM indicator light is on, but no alarm signal output	·wiring open circuit or short circuit ·poor contact of the terminals	·check the wiring and terminals
the receiver ALARM indicat or light stays on	·optical axes misaligned ·obstacles between the transmitter and receiver ·housing contaminated by dirt	·realign the optical axes ·clear the obstacles ·clean the housing
intermittent alarm signal output	·poor wiring ·power supply voltage fluctuates ·mobile obstacles between the transmitter and receiver ·unstable mounting base ·insufficient optical axes alignment accuracy ·shading by other moving objects ·excessively fast response time	·check the wiring ·check the power supply ·clear obstacles or change the in stallation location ·select a location with a stable base ·re-calibrate the optical axes ·adjust the shading time or change the installation location ·re-adjust the shading time