

# MANUAL FOR PHOTOELECTRONIC SMOKE DETECTOR

## Product Introduction

This product named Photoelectric detector (hereinafter called detector) detects the smoke by a couple of infrared diodes. The principle of detecting is granule in the smoke can reflect infrared light. Infrared diodes are placed in the special chamber. The chamber can shield external light, but don't affect the smoke into it. While have no smoke, the diode can receive very weak infrared light. When the smoke entering the detector, the diode can receive strong infrared light.

## Product Feature

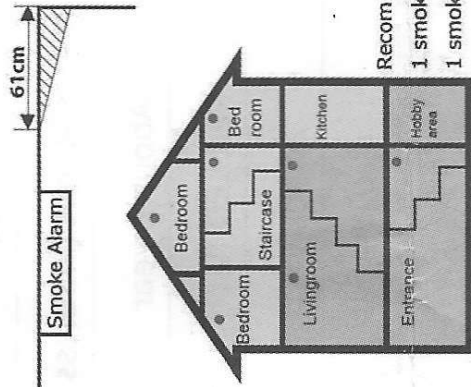
- ◆ MCU automatic processing technology
- ◆ Manual test
- ◆ Auto reset
- ◆ Automatic detection
- ◆ Infrared photoelectric sensor
- ◆ Sound-light alarm
- ◆ Strong adaptability for circumstance
- ◆ SMT design, high stability
- ◆ Dust-proof, Insect-proof, Anti-visible light

## Technical Specification

Operating	DC9V
Alarm Current	≤10 mA; ≤40 mA (wireless type)
Battery Life	About 1 year
Indicate Alarm	Red LED flash
SPL	≥85dB/m
Operating	-10~+50℃
Working humidity	≤ 95% RH
Alarm type	Flash & sound alarm RF signal (wireless type)
Diameter	102mm
Installing	Wall-mounted
Detecting area	40 square meters when installation height between 6-12 meters. 20 square meters when installation height within 6 meters.

## Installation and Test

1. Select proper place (normally mounted on the center of the ceiling), fix the mounting base, then put the detector into the base and turn it. Avoiding installing in a place that is stagnant smoke, dust, heavy fog, heavy mist, humidity > 95% and wind speed > 5m/s.



2. Before installation, connect the battery and put it into battery slot. Then the LED will flash once.
3. Then the detector comes into operating state. Indicating LED will flash once per 30 seconds, twice per 1 second at alarm state.
4. Sensitivity test
  - ◆ Long press the test button more than 3 seconds to test. LED should flash twice per 1s. The detector should give out sound (independence type), should send out RF signal and sound (wireless type).
  - ◆ Test the detector by man-made smoke (Recommended)

## 5. Alarm

When the detector is alarming and flashing, if the smoke concentration decreases below the alert value, the detector will auto-back to the normal condition.

## 6. Low battery voltage

When the buzzer make a "Di" every 30 seconds, the LED have a flashing at the same time, it means the battery voltage is low, please change the battery. Otherwise, it would affect the proper functioning.

## Notice

1. The detector can't be installed under worse environment .E.g. coldest, hottest, dusty.
2. Please test it monthly to ensure the detector in a normal working condition.
3. Please clean the detector by soft brush per six months to ensure the sensitivity and life of product. Pay attention to switch off power before clean.
4. Cut off the power if no use for a long time.
5. When the voltage of battery is less than 7.2V, the detector will beep once per 30s. Please change the battery at this condition.
6. For various reasons, including, but not limited to changes in environmental conditions, electric disruptions and tampering, the product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.
7. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.