

Specification

PIR People Counter

FP102

❖ Product Introduction

The PIR people counter (FP102) is an intelligent passenger flow counting device based on passive infrared (PIR) technology and a 4G Cat.1 communication module. It is suitable for remote data transmission and management in scenarios without WiFi or where wiring is difficult.

This device counts the number of people passing through by detecting changes in human infrared radiation. Combined with a full-network compatible 4G Cat.1 module, it can upload data to a cloud platform in real time without relying on a local network. It supports remote viewing, multi-dimensional analysis, and report export, and is widely used for passenger flow monitoring in parks, greenways, shopping malls, retail stores, libraries, office buildings, and other locations.

❖ Product Features

- ◆ **Accurate Counting in Multiple Scenarios:** Supports accurate counting for single-person walking and rapid passage.
- ◆ **Extremely Simple Installation Experience:** Global multi-band LTE Cat-1, simply insert a SIM card and configure the APN to use; zero learning curve.
- ◆ **Flexible Power Supply Options:** Comes standard with two 18650 batteries, allowing for up to approximately one year of continuous use.
- ◆ **Convenient APP Management:** After connecting the device via Bluetooth, you can

upgrade to the latest version with one click in the APP. When the device malfunctions, it can also perform a one-click self-check.

- ◆ **Remote Data Control:** Data can be viewed remotely anytime, without on-site visits; multi-time-dimensional statistics are supported (with a free cloud platform, supporting viewing data every 5 minutes, half an hour, 1 hour, daily, weekly, monthly, and yearly), and reports can be generated or exported to Excel.
- ◆ **Open Integration Capabilities:** Third-party integration protocols are provided, supporting data push to any server.
- ◆ **Secure Data Upload:** Data transmission is stable and reliable, with no privacy risks, and supports resume transmission after network outages.

❖ Product Structure

• Product Images



• Product Accessories



Charger*1



Hex Key*1



Screw Pack*1



3M Adhesive *1



Quick Guide*1



Mounting Bracket*1 (Optional)

⚠ The device contains 2 18650 batteries.

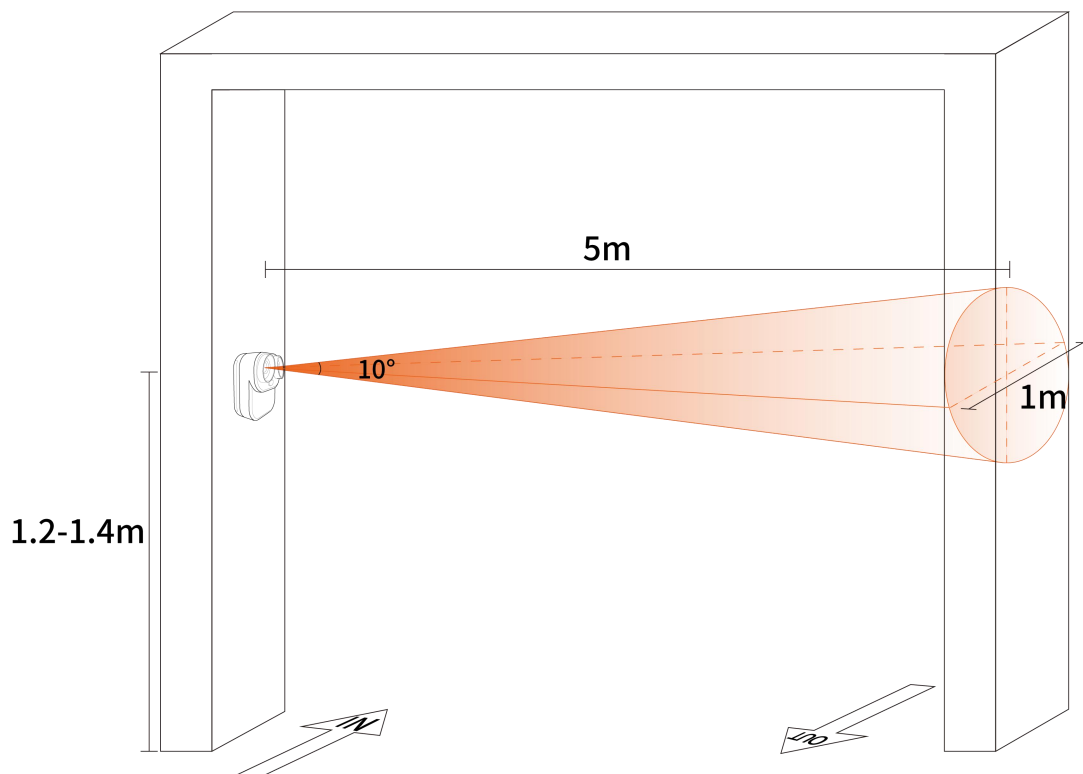
⚠ If any of the above items are damaged or lost, please contact your supplier in a timely manner.

❖ Product Parameters

Product Model	FP102	
Wavelength Response Range	6–15μm	
Mounting Method	The camera should be positioned perpendicular to the direction of pedestrian movement, either on the left or right side of the road.	
Detection Range	5m	
Accuracy	Up to 90–95% (normal entry and exit by a single person under standard conditions)	
Mounting Height	1.2m-1.4m	
Power	0.0002W~3.7W	
Power Supply	Two 3.6V lithium batteries, each with a capacity of 3500mAh.	
Communication Method	Global multi-band LTE Cat-1 (2GB/year, 200MB/month); Bluetooth 5.0	
4G Module Frequency Bands	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B18/B19/B20/B25/B26/B28/B66/B71
	LTE-TDD	B34/B38/B39/B40/B41
	GSM	NA
Data Upload Method	HTTP JSON	
Historical Data Query	Supports querying 20,000 hours of historical statistical data.	
Reported Data Cache	Supports caching 10,000 reported records and resuming data transmission after network interruption.	

Battery Life	1 year (reporting cycle 4 hours)
Waterproof and Dustproof Rating	IP66
Working Environment	Operating temperature (-15°C to 30°C)
	Operating humidity (10% to 80% RH (non-condensing))
	Storage temperature (-40°C to 60°C)
	Storage humidity (5% to 90% RH (non-condensing))
Product Dimensions (mm)	80 x 105 x 57, Weight (kg): 0.28/unit
Packaging Dimensions (mm)	170 x 143 x 93, Weight (kg): 0.48/set
Outer Carton Dimensions (mm)	360 x 310 x 510 (20 sets per carton), Weight (kg): 10/carton

❖ Testing Scope



We will publish the upgrade software or drivers of each product on the official website in time, you can get technical support on the www.foorir.com, and download the latest version of the latest software or driver for free. Huaxin Zhiyun Technology Co., Ltd. will make every effort to check for errors in printing and pictures, but please understand possible omissions. The appearance, specifications, parameters, prices and product availability of the products listed in this website are subject to change at any time and shall prevail according to the actual situation.