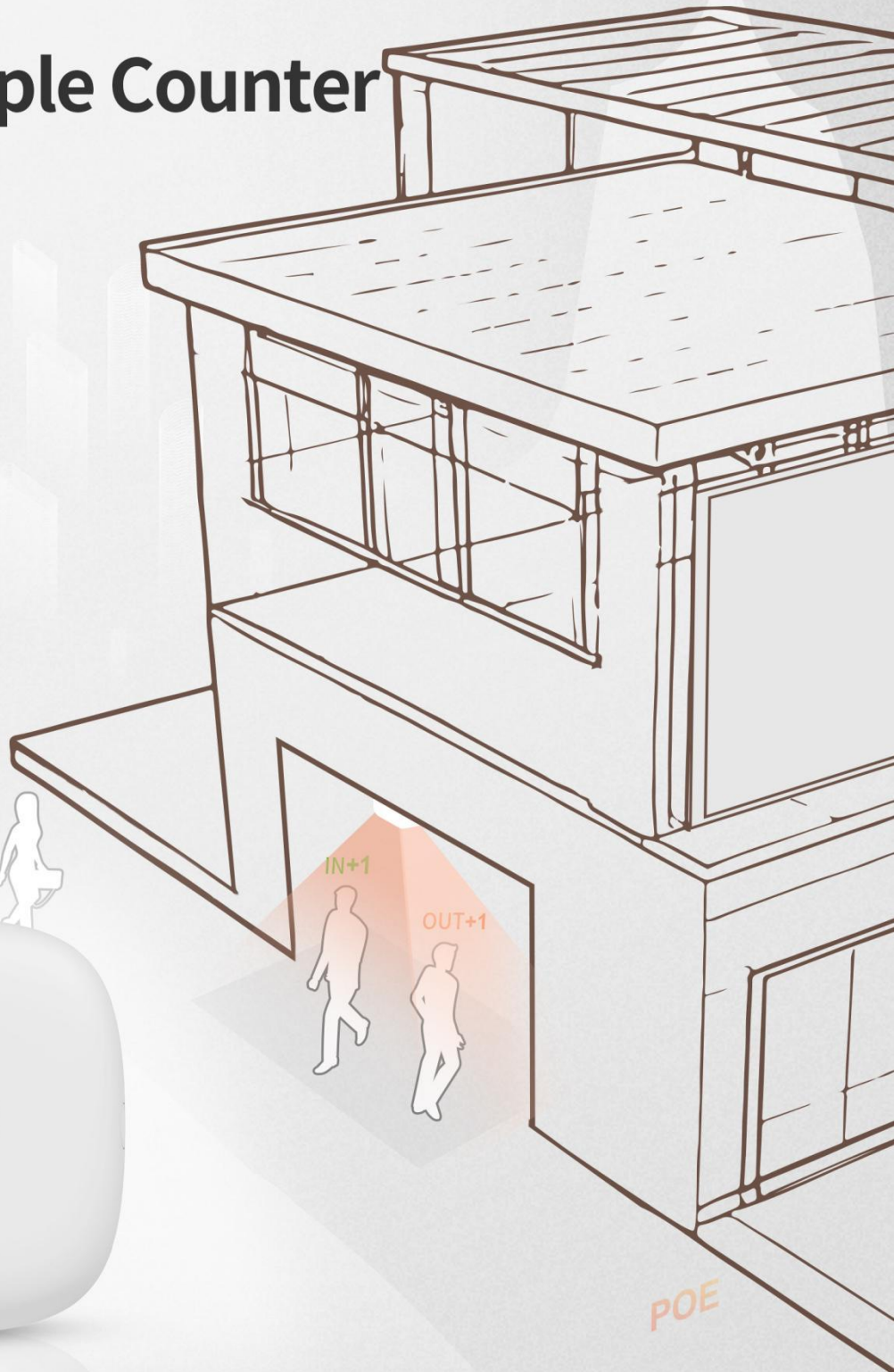


Product Manual

Radar People Counter

FP-RDN

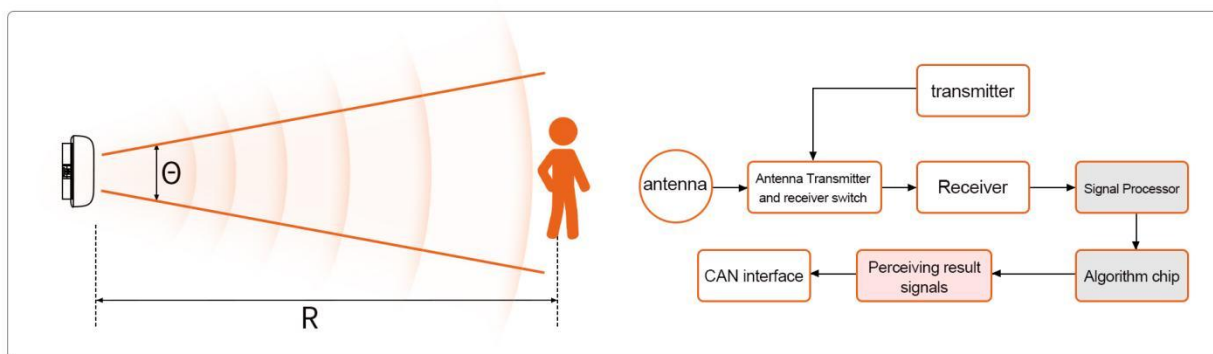


Core Technology

Millimeter wave radar technology

Technical Principles

The core of the millimeter wave radar technology principle is to accurately measure the target distance, speed and angle by emitting millimeter wave electromagnetic waves and analyzing the reflected signals. Its core mechanism includes frequency modulated continuous wave (FMCW) signal processing, Doppler effect and phase difference calculation, combined with high-precision hardware system to achieve environmental perception.



Technical Features

1. High-precision people counting

The millimeter wave radar transmits and receives electromagnetic waves to detect the distance, speed and direction of people in real time, and realizes accurate statistics of the number of people entering and leaving. It is suitable for calculating the density of people at entrances and exits and indoor areas.

2. All-weather environmental adaptability

Millimeter wave radar is not affected by environmental factors such as light, dust, and temperature. It can work stably under complex conditions such as darkness, strong light, and smoke, ensuring the continuity and accuracy of data collection.

3. Non-contact privacy protection

The device does not collect video images, but only perceives human activities through radar signals to avoid invading personal privacy. It is particularly suitable for places with high privacy requirements, such as bathrooms, bedrooms, and nursing homes.

4. Intelligent algorithm support

Enhance target recognition capabilities, reduce external interference, improve detection accuracy, and adapt to a variety of complex scenarios.

Technical highlights

1. High-frequency millimeter-wave radar technology

Adopt high-frequency millimeter-wave radar to improve detection accuracy and response speed, and adapt to a variety of application scenarios.

2. Radar-vision fusion technology

Combining radar and video technology, it provides more comprehensive scene perception capabilities and improves the intelligence level of the system.

3. Cloud data platform support

Through the smart retail cloud management platform, an integrated solution can be quickly built to achieve centralized management and analysis of data and improve management efficiency.

■ Privacy Protection

This Radar People Counter, relying on millimeter wave radar technology, is deployed in public places, focusing on accurately counting passenger flow and providing data support for efficient operation of the venue.

The device adheres to the bottom line of privacy protection, does not collect face recognition data, and only collects anonymous passenger flow data, such as personnel flow trajectory, etc., for counting passenger flow, and never involves any personal information, which complies with GDPR.

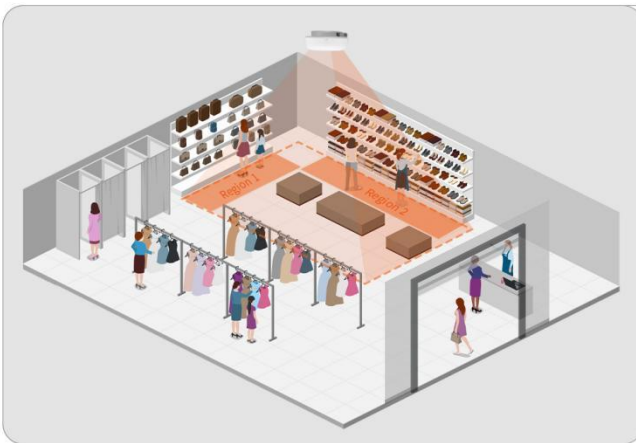
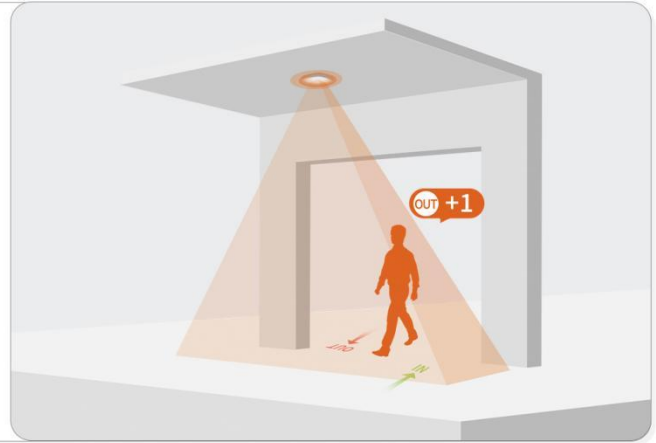


Product Features

Real-time and accurate statistics



It can accurately identify the human body in real time and automatically identify the direction of pedestrians entering and exiting.



Regional population statistics

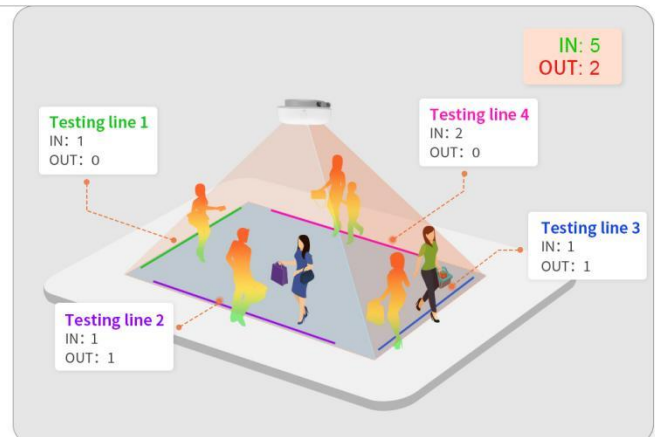


Supports custom drawing of detection areas (up to 6) to accurately count the number of people in each area.

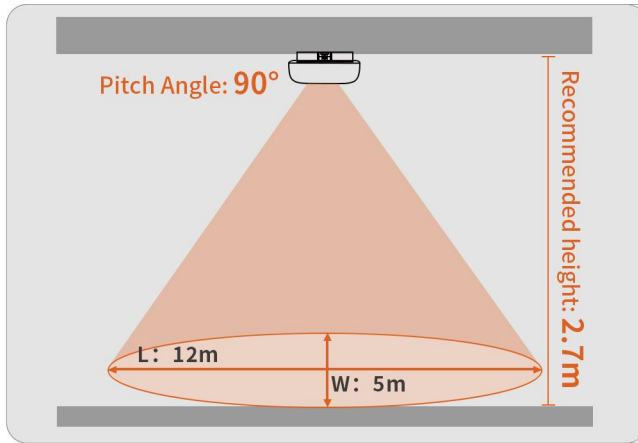
Tripwire People Counting



Supports custom drawing of detection lines (up to 6) to achieve two-way counting of people crossing the line at multiple entrances and exits.



Product Features



Wide coverage

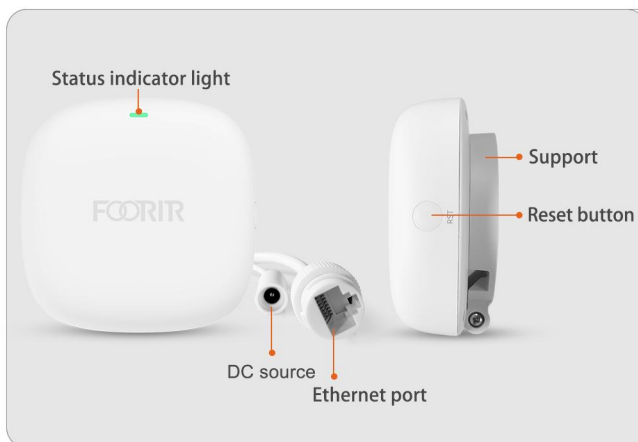
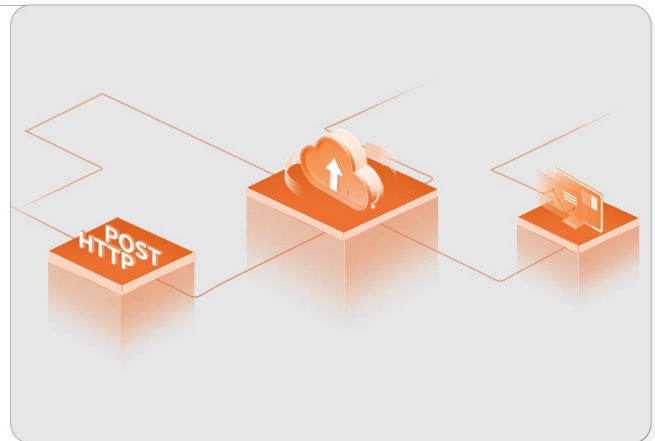


Radar People Counter have a large field of view, covering a wider area and reducing the number of counters required.

Multi-protocol support



Data is transmitted to the server via HTTP POST protocol, supporting secondary development and data docking. Users can log in to the WEB interface through a browser to enter the management platform to view or export data.

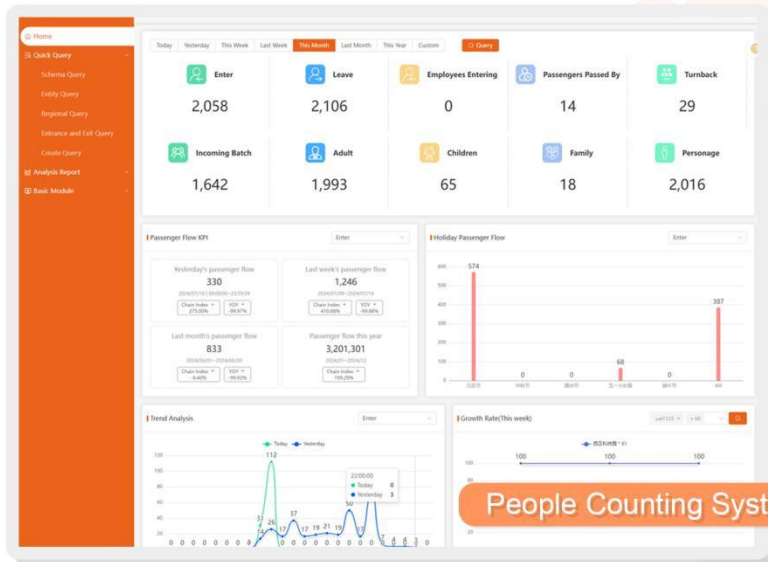


Appearance interface function



The device has rich local application interfaces, allowing developers to integrate and develop flexibly and quickly.

Data Display



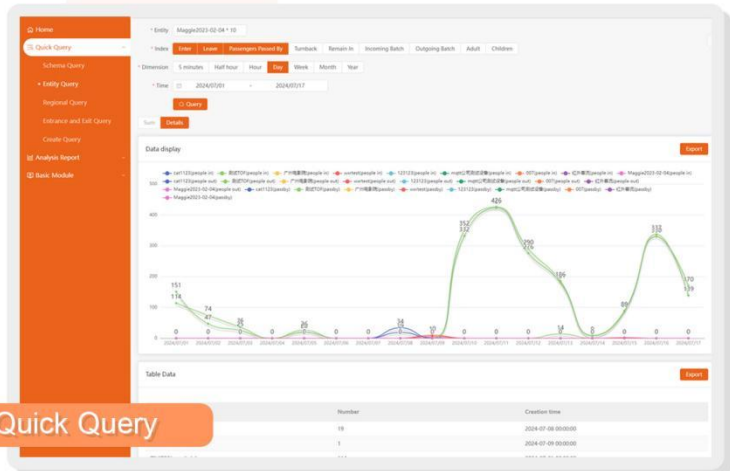
People Counting System

Radar People Counter data is uploaded to the cloud platform for visual management. The cloud platform provides users with real-time quick query and multi-dimensional analysis reports to help make accurate operational decisions.

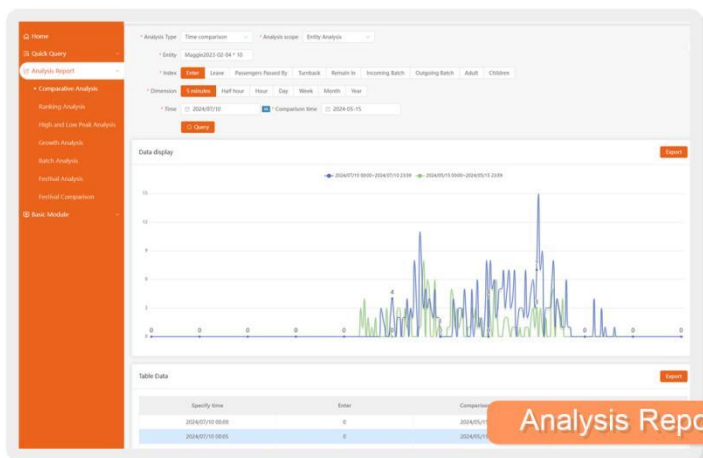
The query indicators include the number of people entering, leaving, passed by, turning back, adult and children, incoming batch, outgoing batch, the number of families and individuals, etc.

Quick query includes schema query, entity query, regional query, entrance and exit query, and users can also create custom queries.

The query dimensions can be selected as 5 minutes, half an hour, hour, day, week, month, year, and can be displayed according to user needs.



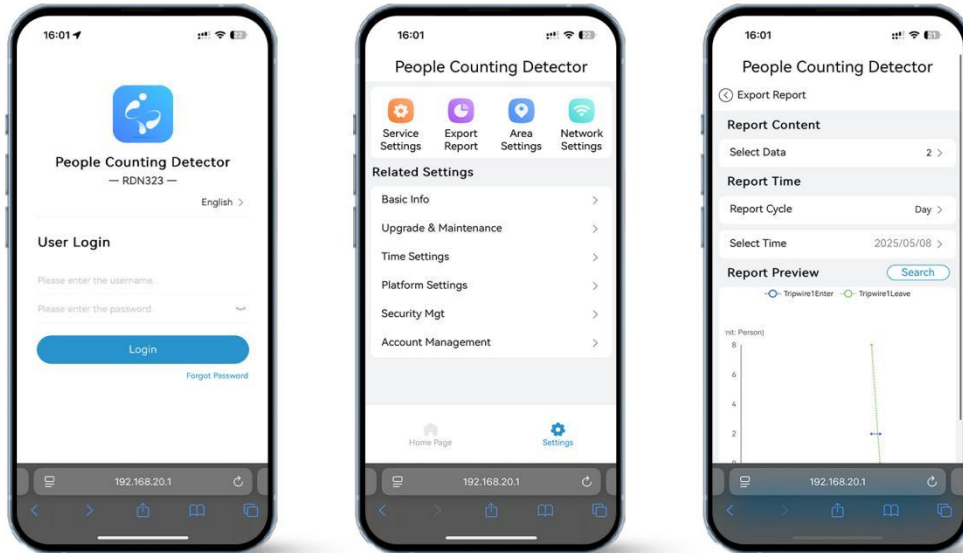
Quick Query



Analysis Report

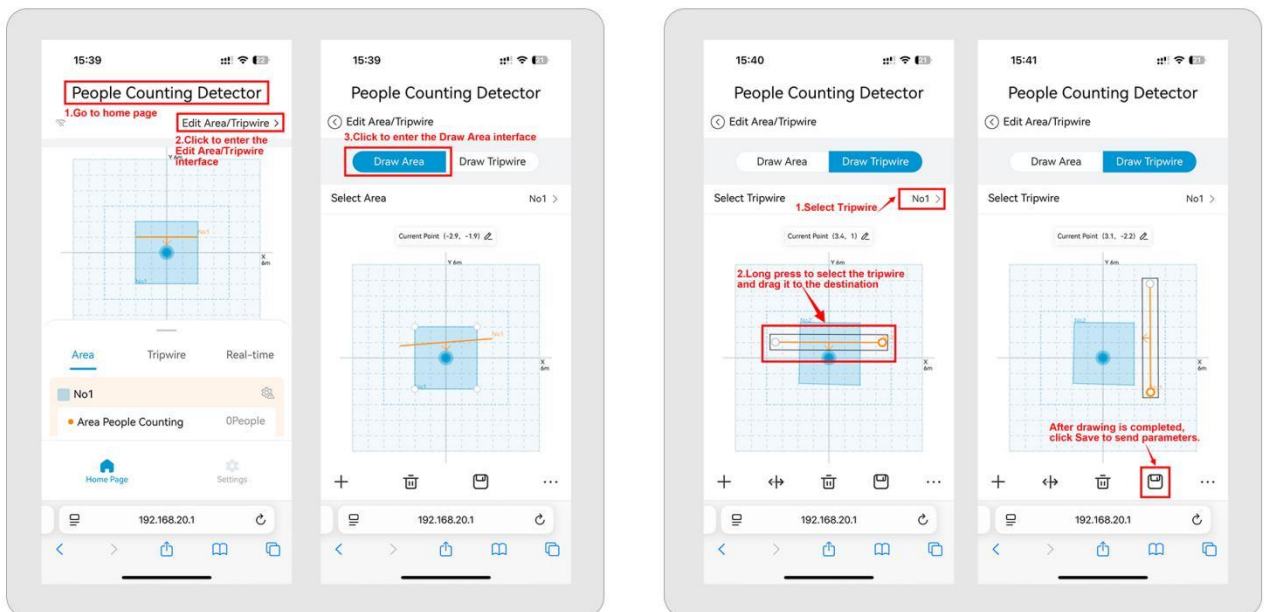
The analysis report covers comparison analysis, ranking analysis, high and low peak analysis, growth analysis, batch analysis, festival analysis and festival comparison, presenting the analyzed passenger flow data in multiple dimensions.

Device background settings



Backstage terminal settings

Connect your phone to the device hotspot, then visit 192.168.20.1 to enter the debugging interface. You can link the corresponding device to view passenger flow data in real time and export passenger flow data for a set time period. You can also view device information and modify device settings.



Statistical area drawing

Statistical tripwire drawing

■ Applicable Scenarios

The Radar People Counter uses millimeter wave radar technology to achieve high-precision detection, wide coverage, real-time statistics of the number of people in and out, and supports multiple filtering strategies to ensure statistical accuracy while strictly protecting personal privacy. No identity information is required, and advanced algorithms are used to achieve full-state monitoring of sitting, micro-movement, and dynamic. It can be widely used in shopping malls, retail stores, public transportation vehicles, scenic spots, libraries, museums, restaurants, factories, supermarkets, parks, buildings, toilets, etc.



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