FOORIR

Product Manual

IR People Counter

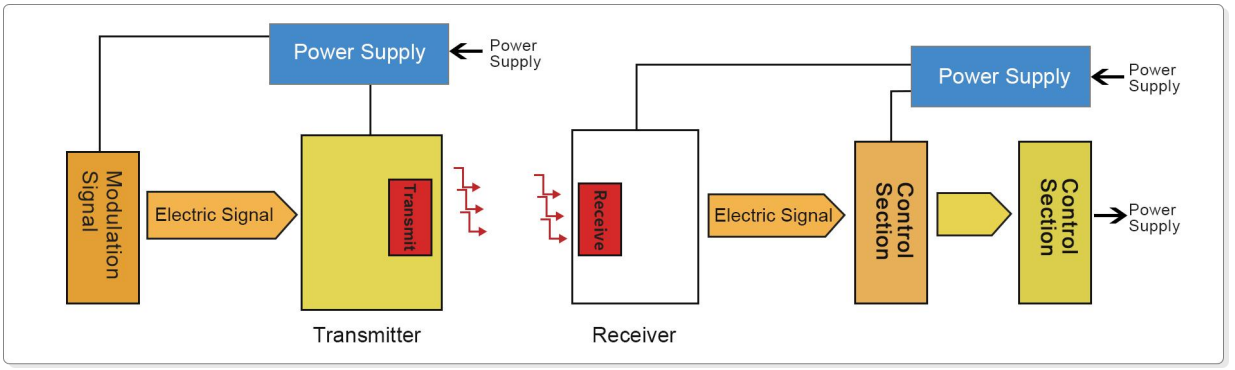
FP113（Cat.1 Version）

Smart Counter Provider

Core Technology

Infrared Blocking Technology

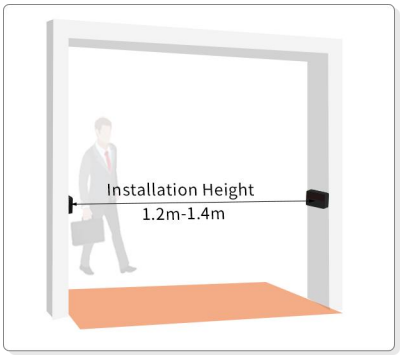
Often used in sensors that detect objects, infrared blocking technology is an active infrared technology that requires a transmitter and a receiver. It works by having a transmitter emit a beam of infrared light that is invisible to the human eye, and then placing a receiver that is sensitive to the same light on the opposite side. When something opaque to infrared passes between the two, the beam is "broken" and the receiver gets the information. It can detect objects in light and dark environments without relying on lighting conditions. But accuracy is easily affected by obstacles and the number of people passing by. It may only be suitable for detecting occupancy with a "yes" or "no".



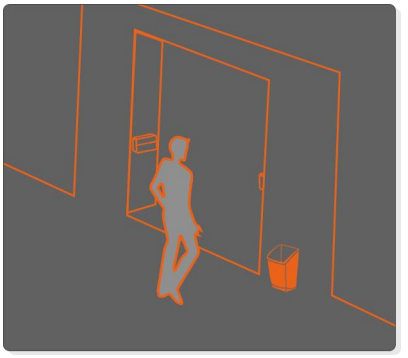
Technological Advantages

IR people counter uses infrared blocking technology. The device is divided into two parts: an infrared transmitter and an infrared receiver, which are installed on the left and right sides of the door or passage. When a person passes by, the infrared rays will be blocked. By counting the number of times the infrared rays are blocked, the number of people passing through each day can be calculated, thereby realizing passenger flow statistics. The IR people counter is small in size, easy to install, cost-effective, and has good privacy protection. It can be used normally in dark environments.

Small Size



Easy Installation



Available in Dark Environment

Privacy Protection

This IR people counter device uses infrared blocking technology and is deployed in public places. It focuses on accurately counting passenger flow and provides data support for efficient operation of the venue.

The device adheres to the bottom line of privacy protection and only collects passenger flow data, such as the number of people entering and leaving, for counting passenger flow, and never involves any personal information.

Product Function

Real-time and Accurate Statistics

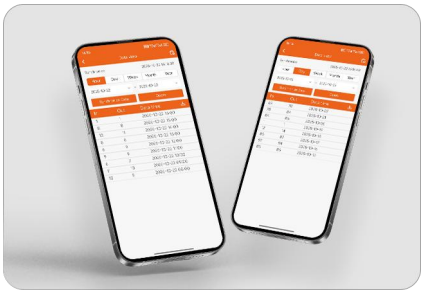
It supports accurate counting of a single person walking normally, passing quickly, and the elderly walking slowly. Under standard conditions, the accuracy rate of a single person entering and exiting normally is as high as 97%.

Stable and Efficient Data Transmission

Utilizing Cat.1 communication technology and a built-in IoT SIM card, the device connects to the network immediately upon startup, enabling efficient, stable data transmission and remote operation.

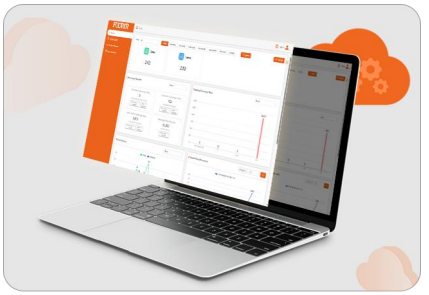
Flexible Power Supply Options

It has four built-in 18650 batteries and supports Type-C interface charging and external power supply (5V/2A adapter not included).



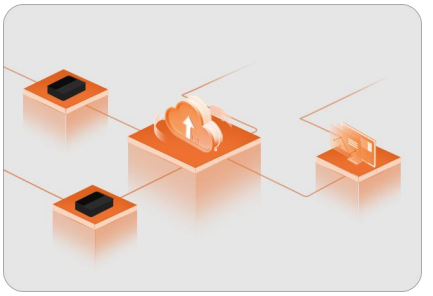
APP Data Query

In standalone mode, the device can query multi-dimensional data through the mobile app and support exporting CSV files.



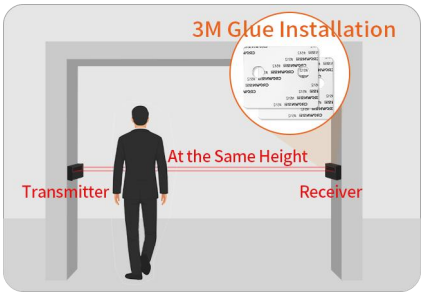
Remote Data Control

Equipped with a free "People Counting System", data can be viewed remotely at any time without having to go on-site; it supports statistics in multiple time dimensions and can generate reports or export to Excel.



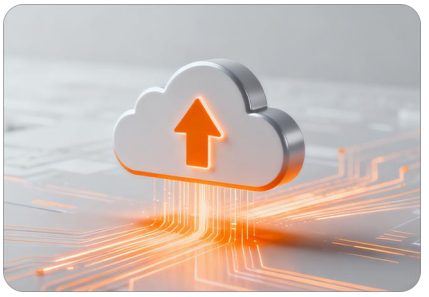
Open Docking Capabilities

Provide third-party docking protocol and support data push to any server.



Minimal Installation Experience

No wiring or drilling required, 3M glue is included. You only need to configure the network simply, install it with 3M super glue, easily pair it, and start using it immediately.



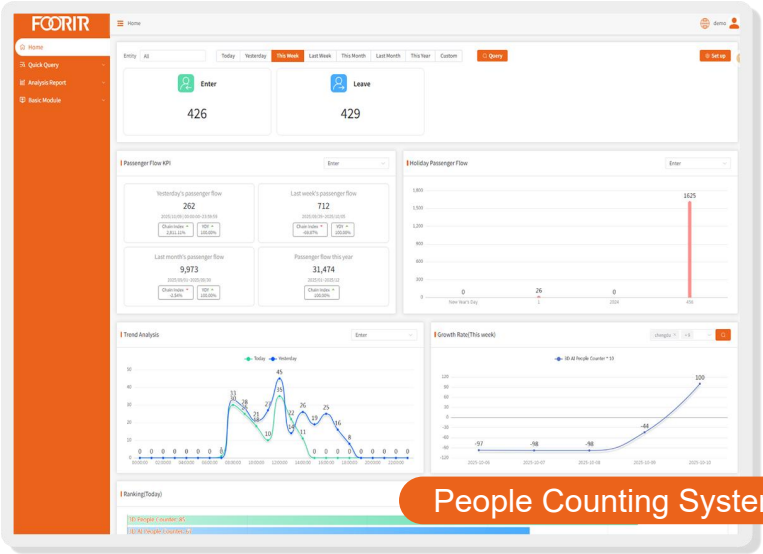
Real-time Data Upload

Supports customizable upload intervals, stable and secure transmission, breakpoint resume, and privacy-safe data upload.

Strong Anti-interference Ability

Supports normal use in ESA alarms and other infrared bands.

Data Display



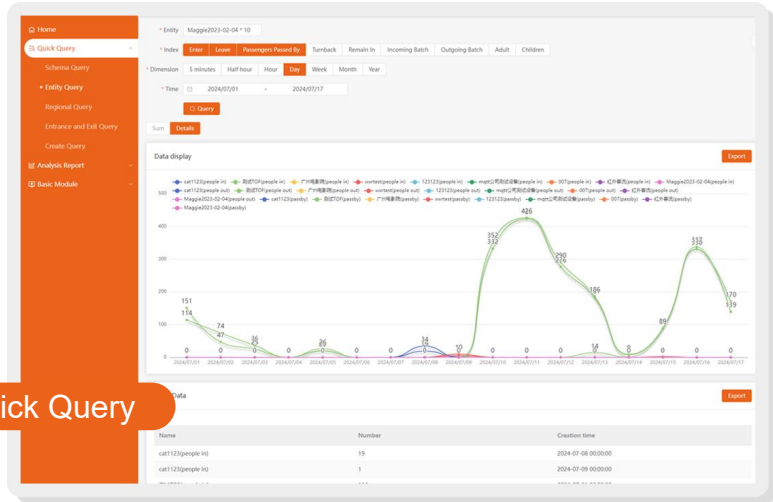
People Counting System

The device uploads the data to people counting system for visual management. The cloud platform can view data every 5 minutes, half an hour, hour, day, week, month, and year, and form multi-dimensional analysis reports and export Excel files to help make accurate operational decisions.

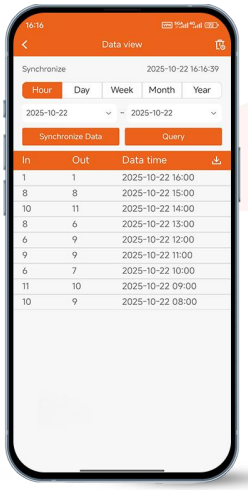
The query indicators include the number of people entering and leaving.

Customer flow quick query includes queries by architecture, entity, region, and entrance/exit. Data can be queried across different architectures, such as a single device, a single store, multiple stores, or a region.

Analysis reports include comparison, ranking, peak/low peak, growth, batch, and holiday analysis, as well as holiday comparisons, presenting analyzed customer flow data in multiple dimensions.



Quick Query



Mobile APP

The mobile APP collects customer flow data through smart hardware, providing store operators with a scientific reference basis and multi-dimensional data query, which can be viewed anytime, anywhere, conveniently and quickly.

Applicable Scenarios

It is widely used in shopping malls, retail stores, scenic spots, libraries, museums, restaurants, factories, supermarkets, parks, office buildings and toilets. It is easy to install, does not require drilling and wiring, has a long battery life, and is cost-effective, winning market acclaim. As an intelligent tool, it accurately counts passenger flow, helps space management and service optimization, and is an ideal choice for public and commercial spaces.

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FOORIR

Office:
610097,No.88 Tianchen Road,Pidu District, Chengdu City, Sichuan Province, China

Phone/WhatsApp:+86 18981978865
Email:info@foorir.com

www.foorir.com