

BFCC-001

Binocular Footfall Counter Camera



1. Product Overview

Binocular passenger flow statistics product is a 3D accurate passenger flow statistics equipment. This product obtains depth information through binocular stereo sensor. Based on head-and-shoulder feature algorithm, the product can identify head-and-shoulder features in complex scenes, so as to achieve accurate passenger flow statistics.

2. Application Scenarios

2.1. Retail

- * Customer flow analysis: Count the daily and hourly customer flow of stores to help merchants optimize staffing and operating hours.
- * Store digitization: Identify hot spots of customer activities in shopping malls or supermarkets and optimize the display layout of goods.
- * Conversion rate calculation: Evaluate the effectiveness of marketing activities by comparing the number of people entering the store with the actual number of purchases.
- * Queue management: Real-time monitoring of queues at cash registers or service areas, and timely deployment of personnel.

2.2 Transportation

- * Stations and airports: Monitor the number of people entering and leaving the station, analyze passenger flow peaks, and optimize crowd diversion and facility layout.
- * Public transportation: Real-time statistics of the number of passengers in buses and subway cars to improve the efficiency of passenger capacity management.
- * Congestion management: Monitor passenger flow in dense places such as stations and docks to avoid excessive crowds.

2.3. Urban management

- * Smart city planning: Analyze passenger flow patterns in public places (such as squares, parks, and commercial pedestrian streets) to provide data support for urban planning.
- * Event monitoring: Real-time monitoring of traffic in crowded scenes (such as music festivals and exhibitions) to prevent safety accidents.

Traffic signal optimization: Adjust the duration of traffic lights through pedestrian flow data to optimize traffic efficiency.

2.4. Education and office

- * Campus management: Count the flow of people in campus entrances, teaching buildings, libraries and other areas to optimize space utilization.
- * Corporate office: Monitor the flow of people in office buildings to improve resource management and safety.
- * Public safety: Analyze the density of people in large-scale places (such as auditoriums and conference rooms) and formulate evacuation plans.

2.5. Entertainment venues

- * Amusement parks and scenic spots: Count the number of daily visitors, predict peak periods, and plan entry restrictions.

- * Cinemas and stadiums: Monitor entry and exit traffic to ensure the smooth progress of activities.
 - * Gaming and clubs: Analyze player distribution and traffic to optimize operating strategies.
- 2.6. Medical and public services
- * Hospital management: Count the flow of people in outpatient halls, pharmacies and waiting areas to optimize processes and resource allocation.
 - * Public institutions: Such as banks and government halls, monitor the number of people doing business and shorten waiting time.

3. Product Features

3.1 Real-time accurate statistics:

- * Real-time accurate recognition of the human body, accuracy of more than 98%;
- * Accurately filter children and other large objects;

3.2 Designed for Complex environment:

- * The sunny scene on the street;
- * Decorative lighting scene;
- * Dark/dimly scene ;

3.3 Unaffected by the environment :

- * Designed for floor and wall scenes with various materials/colors;
- * The scenes with walls/doors/objects around;

3.4 AI Network Device:

- * Local computing is supported without the need for a local server;
- * Support offline storage, support off - line continuation;
- * Supported to Power supply by POE;
- * Supported by WI-FI;

3.5 Plentiful APIs:

- * Device enable plenty of APIs;
- * Developers can integrate development flexibly and quickly.

3.6 Large Coverage:

- * With 100° field of view, covering a wider range.
- * Privacy Security
- * Base on depth map

4. Performance Parameters

Visual Field	Horizontal 100°, Vertical 70°
Depth Map Output	1280*800@25fps
Function Parameters	
Accuracy	≥98%
Height Range	2.2m~6m
Coverage Range	1.2m~5.5m
Filter Height	0.5m~1.2m
Technical Parameters	

Power	3.2W~3.6W
Power Supply Mode	POE (802.3af/at) /DC-12V
Ethernet	UTP/WI-FI
IP Addressing	Statics IP / DHCP
Offline caching	90 Days
DATA UPLOAD Mode	HTTP POST/HTTPS POST
Other DATA Interface	485 x 1/ 6V~24V IO Input x 1
Work Environment	
Work Temperature	0°C~45 °C
Work Humidity	20~80 %
Storage Temperature	-20°C~50 °C
Storage Humidity	20~80 %
Packaging	
Structure (mm)	143x 70 x 40
Weight (g)	370
Installation	Top Mounting/Lifting

5. Installation Height

Installation Height	Coverage width
2.2m	1.2m
2.5m	1.9m
3.0m	3.1m
3.5m	4.3m
4m~6m	5.5m