



PRODUCT MANUAL

SMART COUNTER PROVIDER



CONTENTS

01

People Counter

IR People Counter	01
3D People Counter	02
TOF People Counter	04
Radar People Counter	05
PIR People Counter	06

02

Vehicle Counter

Magnetic Vehicle Counter	07
--------------------------	----

03

Edge Computing Host

Occupancy Counter Host	08
Vehicle Counter Host	09
Smart AI BoX	10

04

FOORIR Ecosystem

People Counting System	11
Passenger Counting System	12

05

Application

Application Scenarios	13
-----------------------	----

06

About Us

About Us	14
Company Advantages	15
Company Awards	16
Partners	16
Services & Support	17



IR People Counter

One-year extended battery life, multiple network connections, lightweight deployment, local visualization, and remote cloud management.



FP110 (Standalone Version)

- Single-person 97% high-precision counting
- Stable and efficient data transmission
- 1-year ultra-long battery life
- App data query
- Simple installation experience
- Strong anti-interference capability



APP Data



Cloud Platform Data



WiFi Connection



FP111 (WiFi Version)



FP113 (Cat.1 Version)



APP Data



Cloud Platform Data

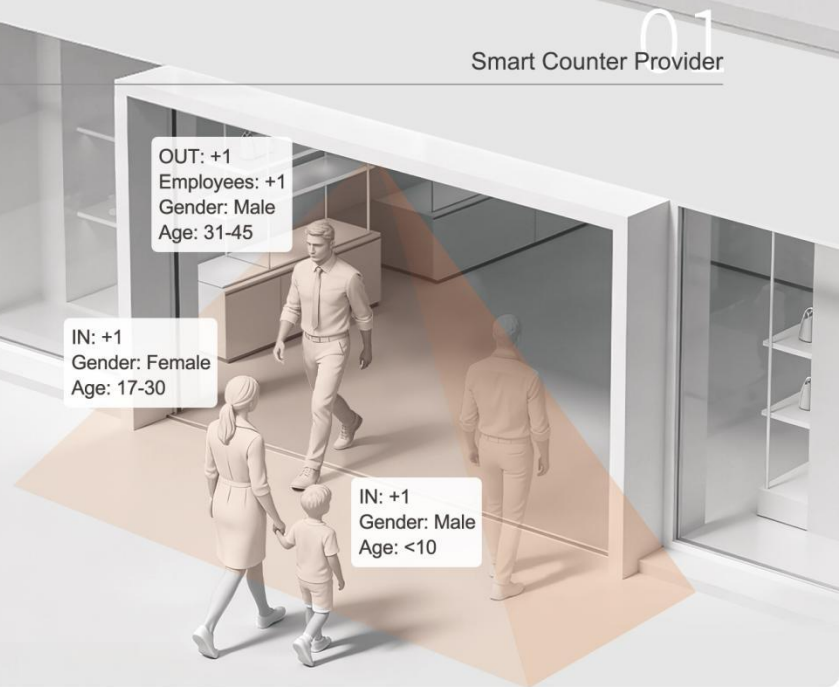


Cat.1 Internet



3D People Counter

Industry's First AI 3D On-Device ReID Footfall System:
Redefining Smart Retail.



HX-CCD20

- Detection accuracy up to 99%
- Entry, exit, passage, lingering, and turning-back
- Area people counting
- Differentiate between adults and children
- 100°-140° coverage area
- Anonymous statistics, no privacy risks
- Wired network/Wi-Fi connectivity
- POE/DC 9~36V (12V standard) power supply

AI Version



Gender Recognition



Age Recognition



Employee Identification



REID Deduplication



Dwell Time



Multi-device Deduplication

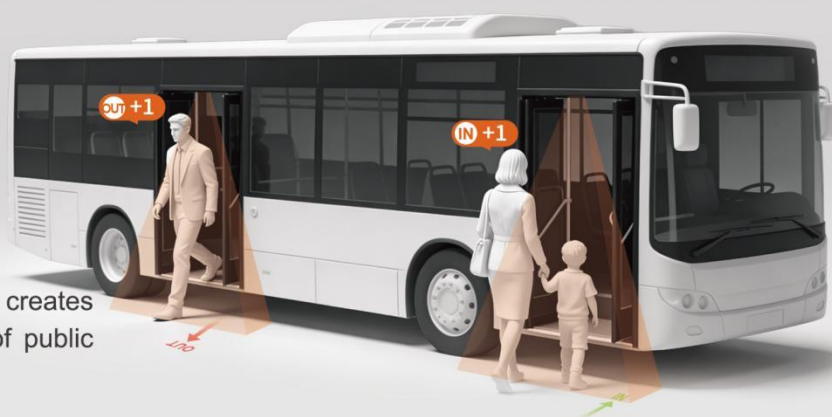


HX-CCD21



3D People Counter

The public transport OD intelligent analysis system creates in-depth user profiles and reconstructs the value of public travel data.



HX-CCD22

- Detection accuracy up to 99%
- Entry, exit, passage, lingering, and turning-back
- Statistics on the number of people/stay time in an area
- Distinguishes between adults and children
- 100°-140° coverage area
- Anonymous statistics, no privacy risks
- Wired network/Wi-Fi connectivity
- Power supply: PoE/DC 9~36V (12V standard)

AI Version



Gender Recognition



OD Data



Adaptive Zoom



Dual-Core
High Efficiency



Powerful Computing
Power



Intelligent Caching



HX-CCD23



TOF People Counter

3D TOF privacy-protecting customer flow terminal, employee identification leads the way in space management.



Employee Detection



Adults & Children



Regional Population



Duration of Stay

- Detection accuracy up to 98%
- Two-way cross-line person statistics
- Looping filtering to avoid duplicates
- Anonymous statistics, no privacy risks
- Provides third-party integration protocols
- Data query across different architectures, remote management



FP221 (3.5M Version)

► Installation Height & Detection Range

Installation Height (m)	2.0 - 3.4
Field of View (m)	4.6*3.34 - 7.82*5.68
Detection Range (m)	0.69*0.5 - 3.91*2.84



FP222 (7M Version)

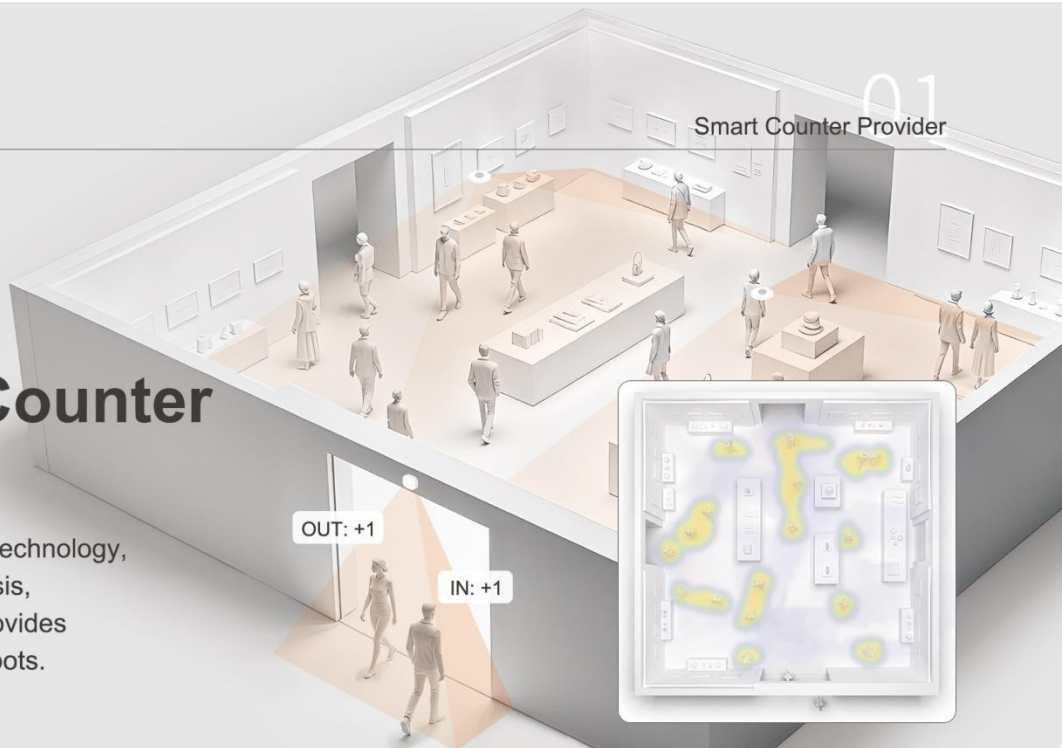
► Installation Height & Detection Range

Installation Height (m)	3.4 - 7
Field of View (m)	4.25*3.17 - 8.75*6.53
Detection Range (m)	1.75*1.31 - 6.25*4.66



Radar People Counter

Millimeter-wave non-contact counting technology, combined with thermal mapping analysis, dual-mounted on the top and walls, provides all-scenario monitoring without blind spots.



FP601



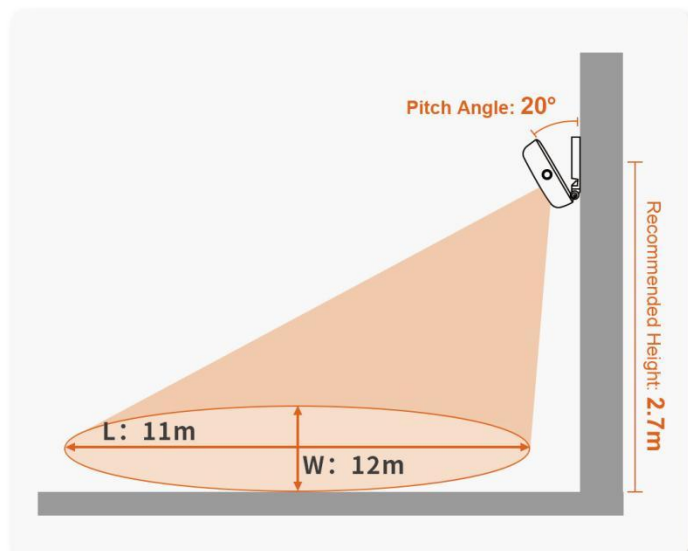
Heatmap Analysis



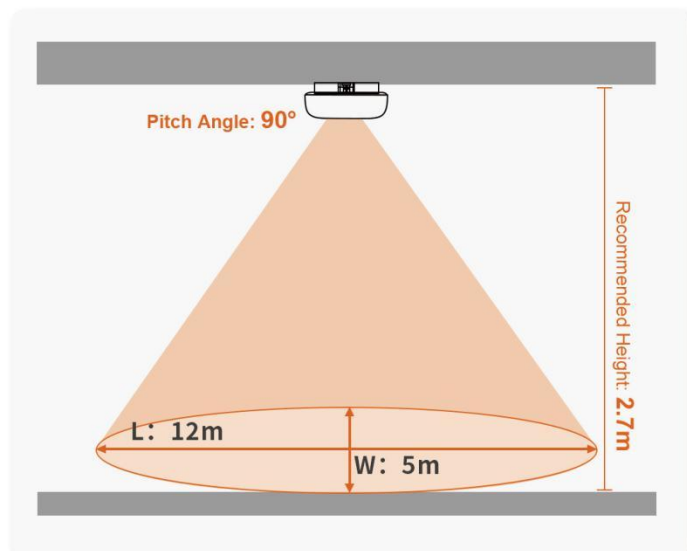
Regional Population

- Real-time and accurate human body entry and exit recognition
- Anonymous statistics, no privacy risks
- Supports report display and export
- Supports mobile configuration, easy to operate
- 140°×70° ultra-wide-angle coverage
- Supports ceiling and wall mounting, good scene adaptability

► Wall Mounting



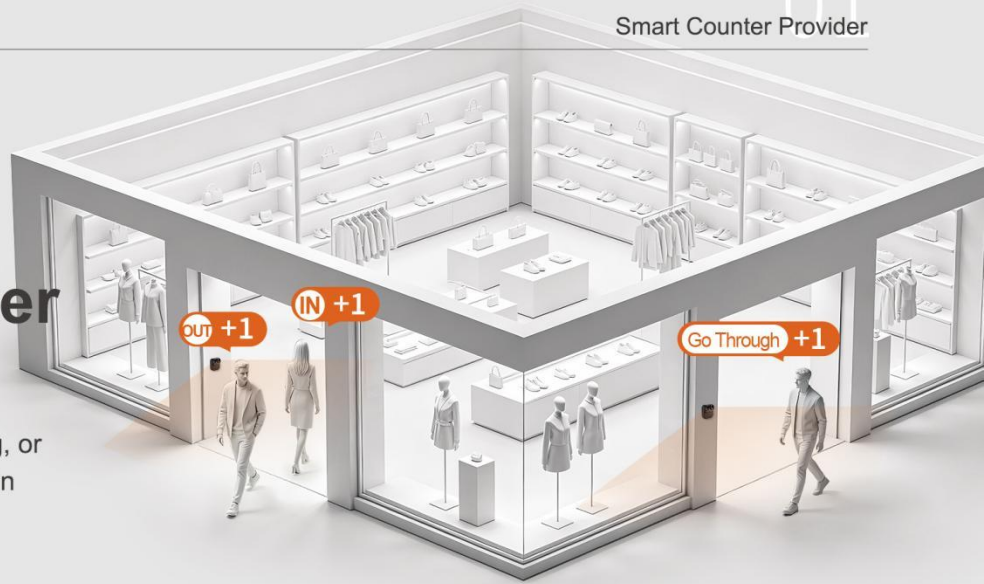
► Top Installation





PIR People Counter

Counts the number of people entering, exiting, or passing by through the detection of changes in human infrared radiation; features low power consumption and ensures privacy.



- Detection accuracy up to 95%
- Bi-directional entry and exit; statistically tracked
- 1-year extended battery life
- Anonymous statistics, no privacy risks
- Provides third-party integration protocols
- Data query across different architectures



FP101



APP Data



Bluetooth



Water Proof



APP Data



Cloud Platform Data



Cat.1 Internet

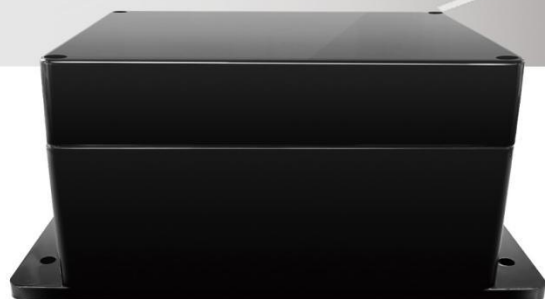


FP102



Magnetic Vehicle Counter

Magnetic induction technology identifies vehicles and bicycles by detecting changes in magnetic fields, thus enabling counting.



FV801

► Features



1-year Battery Life



Flexible Expansion

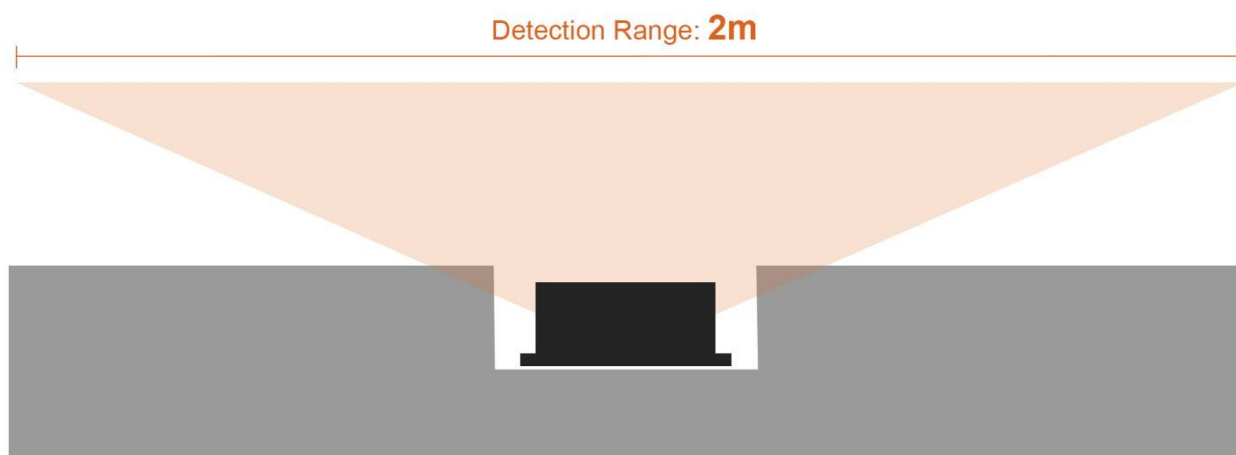


Cat.1 Internet



Multiple Protections

► Installation Method





Occupancy Counter Host

The system monitors the number of people in a given area in real time and automatically issues an alert when the number exceeds a set threshold, ensuring safety and operational order.



FH101

Features



Occupancy Warning



Efficient Configuration



Excellent Performance



Multiple Protections

Connection Deployment



3D People Counter
HX-CCD20



Occupancy Counter Host
FH001

HDMI





Vehicle Counter Host

Deployed in a vehicle environment, it enables the counting and uploading of passengers getting on and off the vehicle, and is suitable for public transportation and mobile scenarios.



HX-M20

Features



Strong Compatibility



Efficient Configuration

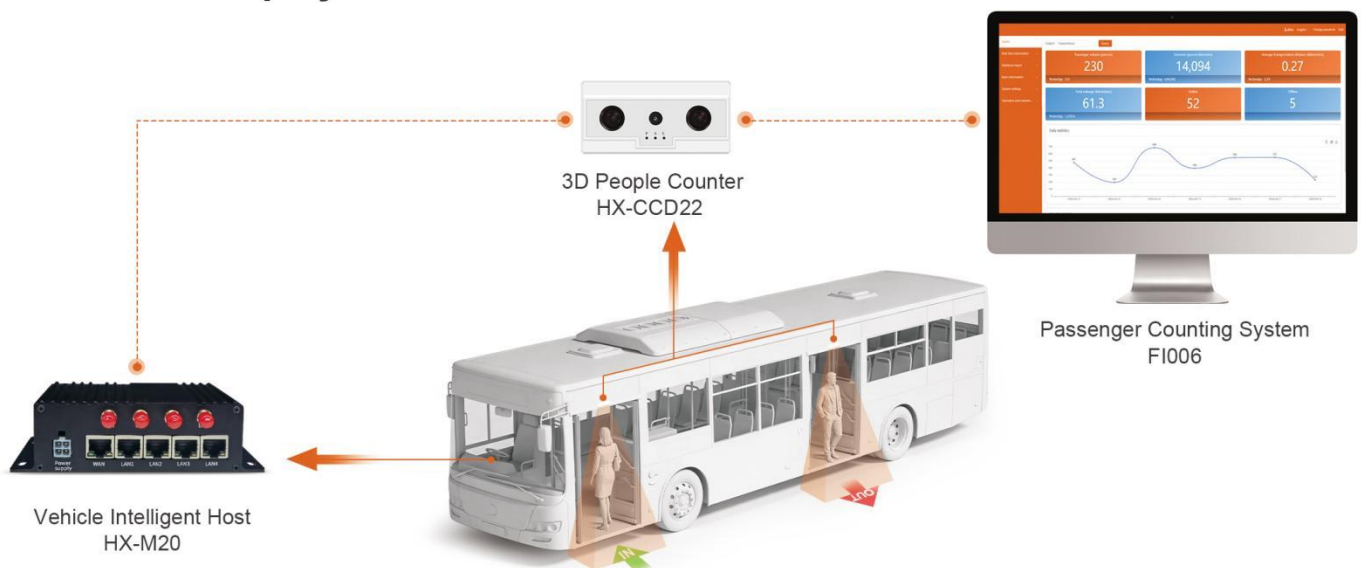


Excellent Performance



Multiple Protections

Connection Deployment





Smart AI Box

It supports mainstream cameras and has 40+ built-in algorithms, enabling intelligent analysis and alerts for people, vehicles, objects, and events.



FHT06

► Features



Strong
Compatibility



Powerful
Computing Power



HD Decoding



Flexible
Algorithms

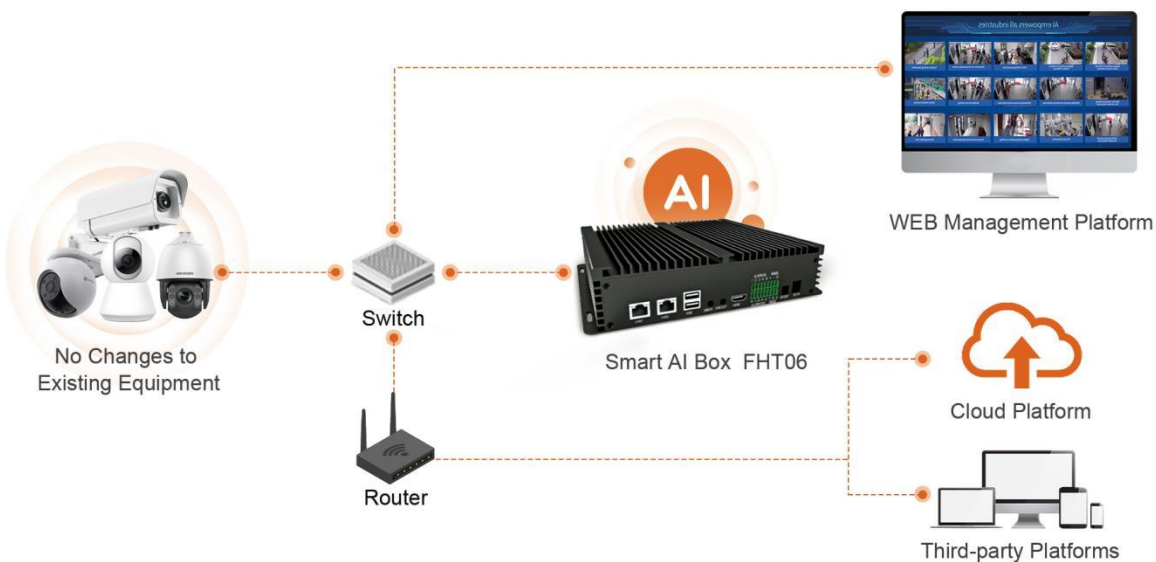


High
Compatibility



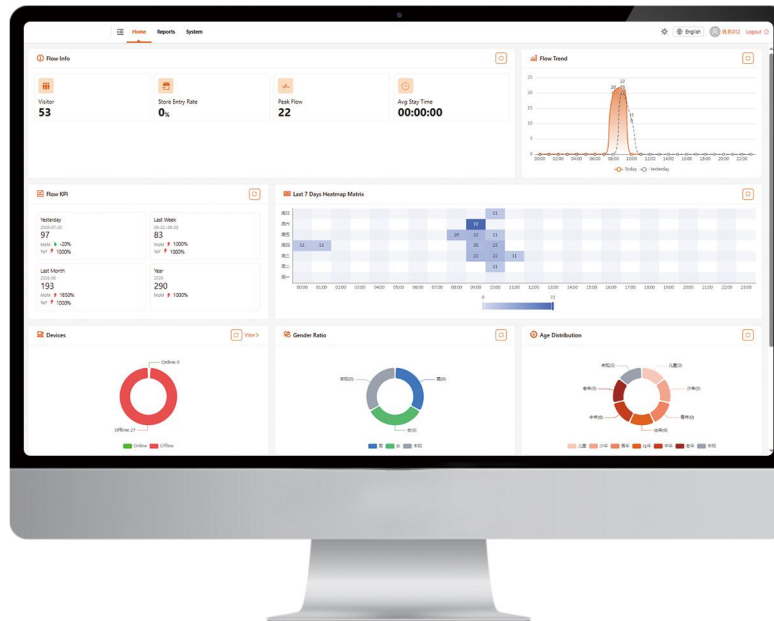
Rich Interfaces

► Connection Deployment

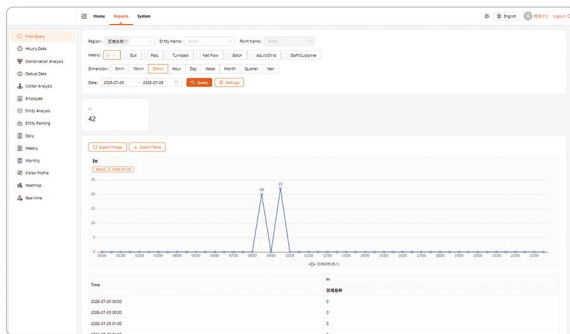


F1001

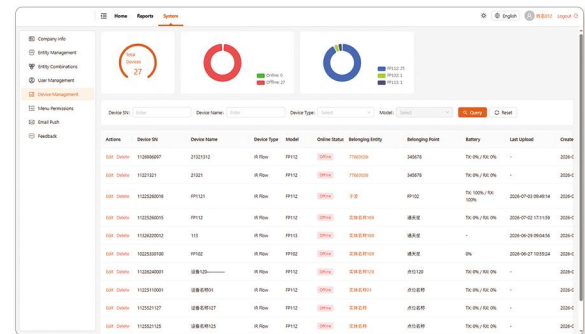
Retail customer flow data intelligent brain, driving digital transformation of store operations through multi-dimensional analysis.



System Homepage



Reports - Passenger Flow Inquiry



System Management - Device Management

► Features



Data Collection



Data Analysis



Store Operation Management



Organization Structure



Authorization Management



Equipment Operation and Maintenance Management



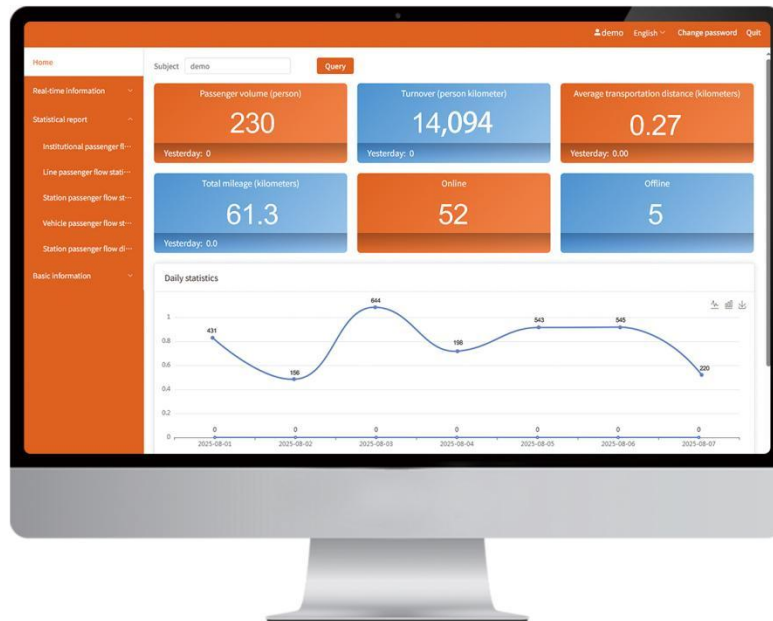
Equipment Data Access



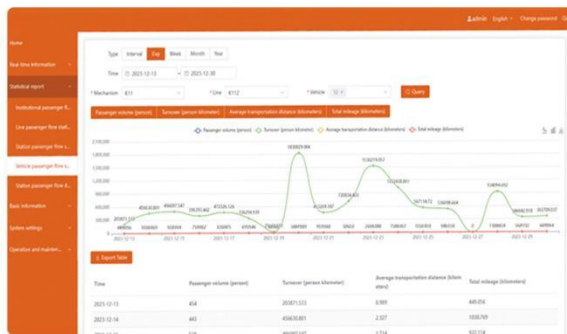
Third-Party Data Access

Passenger Counting System F1006

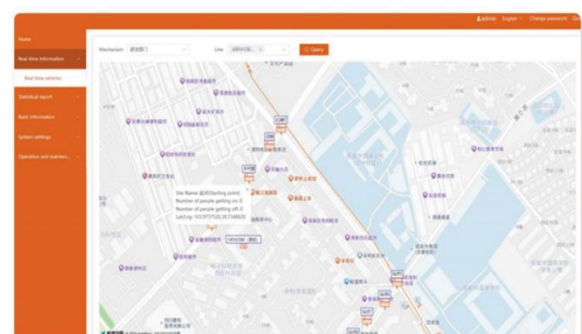
A smart bus passenger flow operation hub, leveraging network data analysis and real-time dispatch to upgrade public transportation.



System Homepage



Statistical Reports



Real-Time Vehicles

Features



Data Collection



Data Analysis



Real-Time Positioning



Vehicle Management



Route Management



Equipment Operation and Maintenance Management

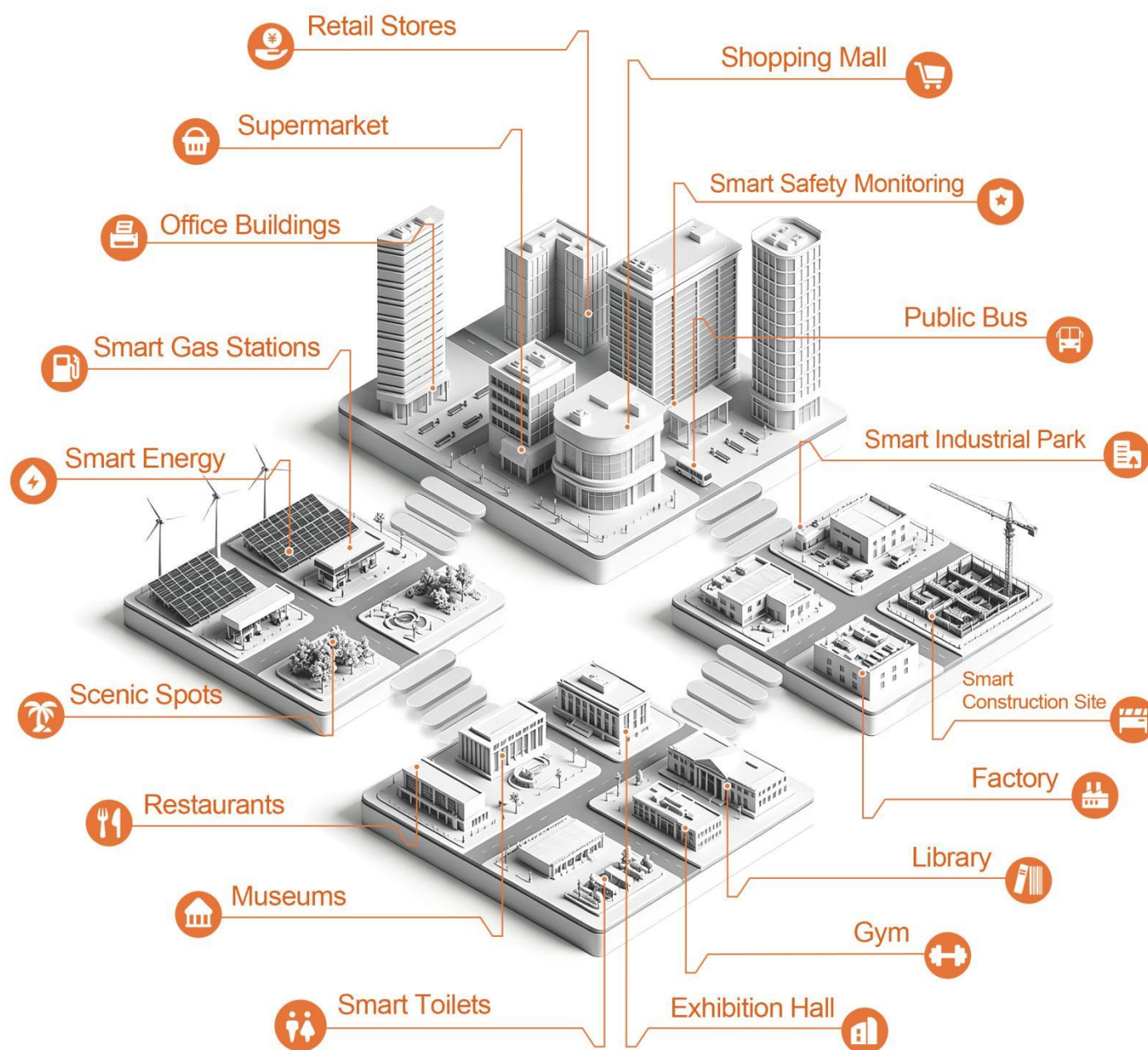


Equipment Data Access



Third-Party Data Access

Application Scenarios



About Us

Chengdu Huaxin Zhiyun Technology Co., Ltd. (hereinafter referred to as "Huaxin Zhiyun") is a professional provider of smart counters, focusing on the research, development, production and sales of smart IoT devices.

As a national high-tech enterprise and a provincial specialized and innovative enterprise, the company focuses on Internet of Things (IoT) and Artificial Intelligence (AI) technologies, adhering to independent research and development, innovative quality, and diversified product categories. It provides global customers with efficient, energy-saving, and reliable smart IoT products, assisting enterprises in digital construction and improving space management efficiency, and is committed to becoming a global benchmark enterprise in the field of intelligent counting.

The FOORIR brand was established in 2020 with the brand mission of "Connecting Everything, Enabling the Future with Intelligence" and the business philosophy of "Openness, Inclusivity, Cooperation, and Win-Win." Its products are widely used in smart commerce, smart transportation, smart tourism, public toilets, smart cities, smart buildings, and other fields, gaining widespread market recognition for their high precision and high reliability. The company has established partnerships with over 200 global channel partners, with business spanning 75 countries and regions, continuously driving the development and innovation of the AIoT industry.

2025-Present

Awarded a patent for TOF technology;
foreign trade accounts for 50% of business.

2023-2024

Awarded "Gazelle Enterprise"

2022

Awarded the title of "Provincial Specialized,
Refined and Innovative Enterprise"

2021

Awarded "National High-tech Enterprise"
status; annual sales exceed 20 million.

2018-2019

Renamed Chengdu Huaxin Zhiyun Technology Co., Ltd.

2020

Established the "FOORIR" smart counter brand;
deeply involved in the smart Internet of Things.

2012-2013

Empower shopping malls with customer
flow statistics products to analyze customer
flow patterns and evaluate store sales per
square meter.

2014-2017

Responding to the national toilet revolution
policy and contributing to the intelligentization
of public services.

2011

Chengdu Minbo Technology Co., Ltd.
was established



Company Advantages

50⁺

Team Number

20⁺

R&D Staf

16⁺

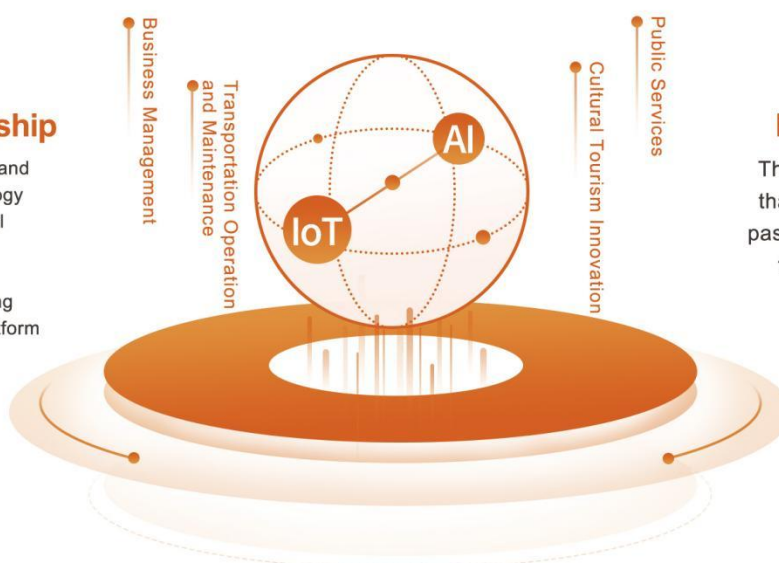
Years of Experience

Core Technologies



Technology Leadership

With the Internet of Things (IoT) and artificial intelligence (AI) technology as the core, it integrates AI visual recognition, multimodal sensing technology, and millimeter wave radar to create an industry-leading intelligent counting algorithm platform



Full Scene Coverage

The product matrix covers more than 20 subcategories including passenger flow statistics, vehicle flow monitoring, edge AI host, human behavior perception, object counting, etc.

Serving the World

1500⁺

Global Customers

75⁺

Business Coverage Countries

Retail Case Studies: 6,000+

Public Transportation Case Studies: 50+

Cultural and Tourism Case Studies: 200+

Public Restroom Case Studies: 2,000+

Special Industry Case Studies: 100+





Company Awards

- National High-Tech Enterprise
- Sichuan "Specialized & Innovative" Enterprise
- Chengdu High-Tech Gazelle Enterprise
- CE / FCC / RoHS Certified
- UESTC Park Star Enterprise
- ISO9001 Quality Management
- ISO14001 Environmental Management
- ISO45001 Occupational Health & Safety

55

Software Copyright

15

Appearance Patent

6

Utility Model Patent

2

Utility Model Patent



Partners

CENTRAL
RETAIL

reeder

Expert Team
Technical Team

A-SECURE

ETUDES
CREATIONS &
INFORMATIQUE

GIORDANO

FORT
DIGITALBeyond
Technology

keySoo

pentagone

ObrioPi

lippi

NIMBUSMEDIA

RETAILOGISTS

GoDaddy

Bata

SPA

EYERIDE™

Inkryptis AI

Marketing Strategy
Training SupportOLM
FOODSOLUTIONS

Sumith

ACTIVE
INVESTMENT

ZANDO.

FACE
CLEARANCE

PRODUCT.ME

DISTRIBUCION

SUNSHINE

www.ANTIVOR.RU

Tips

Top Choice
Electronics & AppliancesRENOVATION
KINGDOM

CITITEX

JSB
SHOPIntimate Service
Product Guarantee

ts

ROUTINE

BEST BUY

RTi
be effective

Sho'del

FMC
PRIMA MUSIC CENTERAIGLE
1853

EXO

taking shape

GATONI

bigboXX

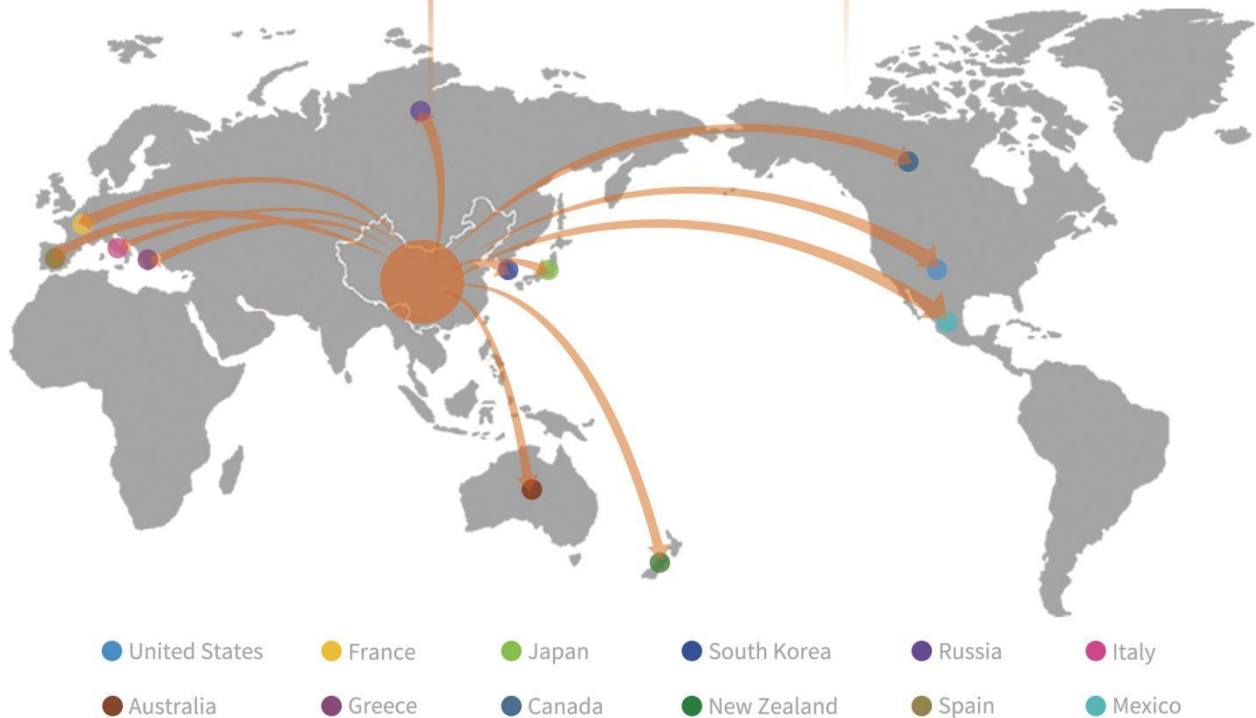
Services & Support

Independent System

Provide customers with a private cloud service platform deployed in the user's domain to facilitate data management and secondary development

Customization & Upgrade

Provide customers with customized services such as function customization, products and brands to meet the personalized needs of different customers and different scenarios. The platform continues to iterate and upgrade



Service Coverage Worldwide

Product and technical training, installation guidance and product commissioning related work



Professional Technical Team

More than 20 skilled pre-sales and after-sales service personnel, standardized technical service process



24-Hour Rapid Response

Global remote technical service response within 8 hours (excluding Chinese holidays)

Professional smart counter provider

Chengdu Huaxin Zhiyun Technology Co., Ltd.

Tel: +86 189 8197 8865

Email: info@foorir.com

Website: www.foorir.com

Address: Room 4021, Building 1, No. 88, Tianchen Road, High-tech West District, Chengdu, Sichuan, China

