

# MOAI



## Description

The Moai people counter allows an accurate counting of entrances and exits by collecting data and information in real time thanks to the 3D sensor exploiting the potential of AI.

In addition to counting entrances and exits, it can also detect age and gender by distinguishing children from adults on the basis of height, which is set during configuration and dedicating a separate count to this category.

In addition, it allows you to exclude shop or company staff.

In this way you are sure to have extremely accurate but privacy-complaint in-store visit statistics, thanks to anonymous tracking. In addition, if necessary, you can set a limit on the capacity of the location. If this limit is exceeded, an audible warning is activated.

Another strong point of this product is that it can be installed both indoors and outdoors thanks to its IP66 certification, which makes it resistant to dust and strong jets of water.

## PEOPLE COUNTER AI



When the center points of the head and shoulders cross predefined lines, the number of people is increased and the person's age and gender are automatically identified.

## Attribute

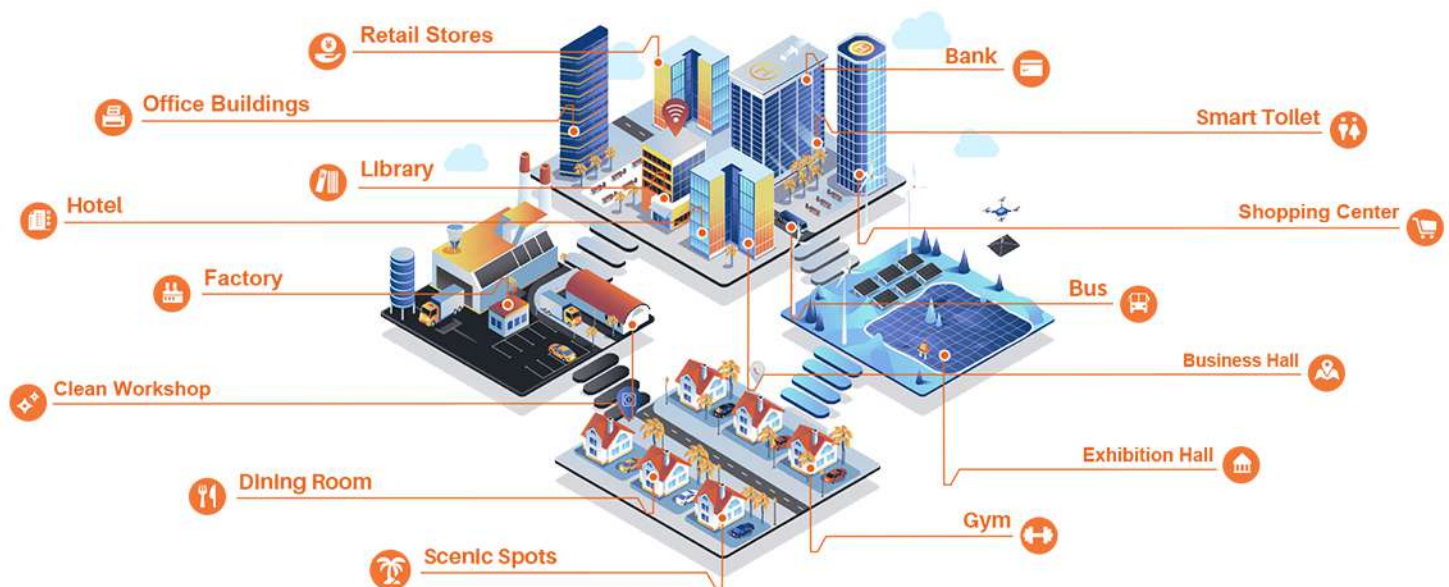
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- Performance: Intelligent dual-core architecture improves energy efficiency by 20% and synchronous processing of multi-modal data.
- Computing power: 2 TOPS heterogeneous computing engine, real-time AI inference speed reaches millisecond response.
- Memory: 1GB LPDDR4X intelligent cache technology, throughput efficiency of increased by 50%.
- Auto zoom: Support software auto zoom, the device supports installation height of 1.7 to 6 meters and can adapt to different installation environments.
- Built-in AI algorithm: It can realize age recognition, gender recognition and ReID data collection, generate richer crowd portraits, and conduct more in-depth data analysis.
- Accurate and real-time statistics: Accurate and real-time identification of the human body, with an accuracy rate of over 99%, accurately filtering children and other objects of large size.
- Data upload time: The data upload server time can be customized and can support real time, 1 minute, 5 minutes, 30 minutes, etc.
- Multi-protocol support: The device provides HTTP POST/HTTPS POST protocol for data transmission and supports device secondary development data hookup.
- Rich open interfaces: The device has rich open local application interfaces and support for RS-485 expansion, so that developers can integrate and develop flexibly and quickly.
- Wide area coverage: The coverage range is 1.1-8.4 meters, easily adapting to various locations.

## Attribute

- Network smart device: Support local processing, no local server required, support offline flash storage, support network disconnection and resumption, support PoE power supply, and support wired/wireless connection.
- Strong environmental adaptability: Adapts to outdoor strong sunlight scenes, door decoration light scenes, and dim light and darkness scenes.
- Privacy compliance: Complies with privacy protection specifications, does not extract attribute information such as face, and protects privacy.
- High-definition image and video capture: Equipped with a 2 megapixel imaging system, it can obtain high-definition and color images and videos.
- Scene modes: Wheelchair mode, restricted mode, child mode, control mode, data display mode, channel mode, stand-alone mode.

## APPLICATION SCENARIOS



The AI people counter sensor is widely applicable to shopping malls, retail stores, buses, scenic spots, libraries, museums, restaurants, factories, supermarkets, parks, buildings, smart toilets, exhibition halls, gymnasiums, etc.



## Product

Product specifications (mm): 143 x 70 x 40, weight (g): 415

Packaging specifications (cm): 24 x 11 x 9.5, weight (g): 615

Packaging specifications (cm) including adapter: 24 x 11 x 9.5, weight (g): 690

Installation method: Ceiling/hanging/embedded installation (optional bracket)

## Work environment

IP Level: IP65

Working Temperature: -25°C ~ 75°C

Working Humidity: 20% ~ 80%

Storage Temperature: -20°C ~ 80°C

Storage Humidity: 20% ~ 80%

## Sensor parameters

Image sensor: 1/3" progressive scan CMOS

Image resolution: 1920\*1080

Pixel size: 2.7um\*2.7um

Image output format: RAW RGB

Lens focal length: 1mm (fisheye lens)

Focal length adjustment: Software zoom (supported only in firmware - Retail version)

## Visual parameters

Field of view: Horizontal 140°, Vertical 120°

Frame rate: 25fps

Fill light: White light, adjustable brightness

## Functional parameters

	Retail version	Bus version
Counting accuracy:	≥9	≥95%
Height range:	1,9~6,0m	1,7~3,0m
Coverage range:	1,1~8,4m	1,1~7,0m
Filtering height:	0,5~1,2m	0,5~1,2m

## AI function parameters

	Retail version	Bus version
Human Attributes:	Gender 95%/Age 80%	/
OD Function:	/	80% accuracy
AI Function Expansion:	On request	On request

## Technical parameters

Power: 2.5~4W (LED closed); 3.6~6W (LED open)

Power supply method: POE (802.3af/at) / DC-12V / DC-24V

Dark light compensation: White light auto on and off

Network: Category 5e Ethernet / WI-FI

Addressing: Static IP / DHCP

Offline cache: 90 days

Data upload method: HTTP POST / HTTPS POST / FTP / SFTP / MQTT

Data expansion interface / signal: 485 interface x 1 / IO input 6V~24V x 1

Door open and close signal: Accessible in Bus version



## Face analysis system

With advanced sensors and AI recognition technology, the system can accurately count and analyze people entering and leaving in real time. The system can also collect key attribute data, such as gender and age group, to segment the population structure. It does not collect facial information.



## Wide coverage

The pedometer camera that supports software automatic zoom, the device supports an installation height of 1.9-6m, a coverage of 1.1-8.4m, and can adapt to different installation environments.

