

Specification

3D People Counter

HX-CCD20

Version 2025-1.7

❖ Product Introduction

The 3D people counter (HX-CCD20) obtain 3D depth information in real time through binocular stereo vision AI sensors, identify head and shoulders features in complex scenes based on head and shoulder feature algorithms, and achieve accurate passenger flow statistics through human body tracking algorithms.

It can be used in shopping malls, retail stores, public transportation buses, scenic spots, libraries, museums, restaurants, factories, supermarkets, parks, buildings, toilets, etc.

❖ Product Features

- ◆ **Real-time and Accurate Statistics:** Real-time and accurate identification of people entering and exiting, with an accuracy rate of up to 99%, accurately filtering out children and other large objects.
- ◆ **Resident Statistics:** Multi-dimensional statistics of the number of people staying in a specified area.
- ◆ **Passing Statistics:** People who enter the device detection area but do not actually enter the store and leave will be identified as "passing by".
- ◆ **Return Statistics:** People in the store enter the device detection area but do not

completely leave the store, and return to the store will be identified as "returning".

- ◆ **Wide Coverage:** The device has a 100°-140° soft zoom, which can adapt to scenes at different heights.
- ◆ **Data Upload Timeliness:** You can customize the data upload server time, which can support real-time, 1 minute, 5 minutes, 30 minutes, etc.
- ◆ **Multi-protocol Support:** The device provides HTTP POST/HTTPS POST/FTP/SFTP/Modbus-RTU/ MQTT protocol data transmission, and supports secondary development data docking of the device.
- ◆ **Rich Open Interfaces:** The device has rich local open application interfaces and RS-485 expansion support, so developers can integrate and develop flexibly and quickly.
- ◆ **Network Intelligent Devices:** Support local computing, no local server required, support flash offline storage, support network disconnection and continuous transmission, support Poe power supply, and support wired/wireless connection.

Product Features:

1. Capacity Limitation Mode: When the number of people exceeds the set value, the device sends a signal to the alarm, and the alarm sounds.
2. Child Mode: After setting the height of children, people who are lower than the height will be recognized as children.
3. Control Mode: Equipment works with relay, control a variety of electrical appliances
4. Data Display Mode: The device and the host are matched to visualize the data.
5. Channel Mode: Which can detect the number of people passing by the door and the number of people entering the store.
6. Standalone Mode: The local data of the device can be stored for 90 days. The local data of the device supports export and can be used in a non-network environment.

❖ Product List

• Product Images



Front



Back

• Product Accessories



Waterproof Cap



Screw



I/O and 485 Connectors



Power Connector



Instructions



Inner Hexagon Spanner



Bracket



Power Adapter

⚠ If any of the above items are damaged or lost, please contact your supplier in time.

❖ Product Parameters

Product Name	3D People Counter
Product Model	HX-CCD20
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)
Focus Adjustment	Software zoom
Lens Field of View	Horizontal 140°, vertical 120°
Frame Rate	25fps
Function Parameters	
Counting Accuracy	Up to 99%
Height Range	1.9~6.0m

Coverage Range	1.1~8.4m
Filtering Height	0.5~1.2m
Technical Parameters	
Power	3.2~3.6W
Addressing	Static IP / DHCP
Offline Cache	90 days
Data Expansion Interface/Signal	485 interface x 1 / 6V~24V (IO input x 1, IO output x1)
Network	Category 5e network cable / Wi-Fi
Power Supply Method	POE (802.3af/at) / DC-(9V-36V)
Data Upload Method	HTTP POST/HTTPS POST/FTP/SFTP/Modbus-RTU/ MQTT
Working Environment	
IP Rating	IP66
Working Temperature	-10°C ~ 50°C
Working Humidity	20% ~ 80%
Storage Temperature	-20°C ~ 60°C
Storage Humidity	20% ~ 80%
Packaging	
Product Specifications (mm)	143 x 70 x 40, weight (Kg): 0.42/unit
Packaging Specifications (mm)	240 x 110 x 100; Weight (Kg): 0.7/unit (including accessories)
Outer Box Specifications (mm)	500 x 500 x 250 (20 units per box); Weight (Kg): 14/box
Installation Method	Ceiling/Suspended/Embedded Installation
Certificate	
Product Related Certificates	CE/FCC/ROHS/IP66 waterproof report/quality inspection report /high and low temperature test report/appearance patent/utility model/MTBF report /BIS certification/shock and vibration test report

❖ Regional Coverage

Installation Height (m)	Coverage Width (m)
1.9	1.1
2.5	3.7
3.0	5.2
3.5	6.4
4.0	7.3
4.5	8.0
5~6	8.4

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