

IPC-HMW8441X-M/M12-DAE-O

Dahua Stereo Vision Passenger Flow Camera



This series of camera supports deep learning algorithm to improve detection accuracy with built-in GPU chip. It supports switching among three intelligent resources: IVS, face detection and stereo behavior analysis. The face detection supports target tracking, face prior, capture, uploading high-quality human face snapshots, face enhancement, face exposure and attributes extraction. Stereo behavior analysis supports fall detection, people approaching, people number error detection, vigorous activity, tripwire, intrusion, fast moving, abandoned object and moving object, loitering detection, crowd gathering and parking detection.

System Overview

Dahua stereo vision passenger flow camera is an intelligent video surveillance product and supports the smart function of passenger flow statistics. Based on video and image metadata technology of deep learning algorithm, this camera supports people statistics in multiple entrances and regions, queuing management and report statistics and search.

Functions

Detection Accuracy

Built-in GPU chip and deep learning algorithm effectively improve detection accuracy. The detection rate of people counting statistics and region people counting statistics can reach more than 98%.

Starlight Technology

For challenging low-light applications, Dahua's starlight ultra-low light technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

SMART H.264/H.265

The flexible coding ROI and SMART H.264 /H.265 make the camera applicable to various bandwidth and storage environments.

People Counting

Both enabled people counting and region people counting statistics with up to 8 rule configurations, the camera supports up to 4 function rule configurations, queue number alarm threshold, queue time alarm and export both daily report and monthly report with detection target up to 80.

- 4 MP 1/3" CMOS image sensor, excellent low illuminance performance and high definition of images.
- Outputs max. 4 MP (2560 × 1440)@25 fps.
- H.265 encoding allows high compression ratio and ultra-low bit rate transmission.
- Built-in IR light with illumination distance up to 14 m.
- Applicable to various monitoring scenes with 3D NR, HLC, BLC, watermarking.
- Applicable to various bandwidth and storage environments with ROI, SMART H.264 /H.265.
- Supports 2 input and 2 output alarm port, 1 input and 1 output, RS-485, and supports Micro SD card up to 512 G.
- 12V DC/PoE power supply, facilitate installation.
- IP67 waterproof.

Technical Specification

Camera

Image Sensor	1/ 2.8" CMOS
Max Resolution	2560 (H) × 1440 (V)
Electronic Shutter Speed	1/3s-1/100000s (manual/auto)
Minimum Illumination	0.002 lux (Color); 0.0002 lux (B/W); 0 lux (IR on)
SNR	>56dB
IR Distance	14 m
Rotation Range	Vertical: -10°~15°
Number of IR LED	1

Lens

Lens type	Fixed focal
Mount Type	M12
Focal Length	2.0 mm
Aperture	F2.0
Field of view	H: 122°, V: 72°, D: 141°
Iris Control	Fixed
Close Focus Distance	0.5m

Video

Video Compression	H.265;H.264;H.264H;H.264B;MJPEG(Sub stream only)
Intelligent code	H.264, H.265
Frame Rate	50Hz Main Stream (2560×1440@25fps), Sub Stream (704×576@25fps), Third Stream (1920×1080@25fps) 60Hz Main Stream (2560×1440@30fps), Sub Stream (704×480@30fps), Third Stream (1920×1080@30fps)
Bit Rate	H.264:32kbps - 8192kbps H.265:12kbps - 8192kbps
Day/Night Switch	ICR auto switch

BLC	Yes
HLC	Yes
WDR	120dB
White Balance	Auto/Natural/street lamp/outdoor/manual/regional Custom
Gain Control	Automatic
Noise Reduction	3D NR

Port

RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1, RCA
Audio Output	1, RCA
Alarm Input	2, 5-24V
Alarm Output	2, open circuit
Network Port	1, RJ-45 (10/100 Base-T), 4-pin D-type aviation port

Power

Power Supply	9 V–36 V DC/POE
Power Consumption	Basic: 4W

Certification

Certifications	CE-LVD/CE-EMC/FCC/E-mark/R118/EN50155
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Environment

Operating Conditions	–40°C to +65°C (–40°F to +149°F)
Operating Humidity	≤ 95%
Ingress Protection	IP67

Construction

Dimensions	197.7 mm × 71.0 mm × 72.1 mm (7.78" × 2.80" × 2.84") (L × W × H)
Casing	Metal
Net Weight	0.82kg
Gross Weight	1.13kg
Installation	Ceiling mounting, hang mounting, horizontal pole mount

Dimensions (mm[inch])

