IPC-HMW3230-M/M12

Square Network Camera

Highlights

- 1/2.7" 2Megapixel progressive scan CMOS
- 25/30fps@1080P(1920×1080)
- H.265&H.264 dual-stream encoding
- 2.8/6 mm fixed lens
- Built-in IR light with illumination distance up to 30 m
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC, HLC
- Supports watermark
- 12V DC/POE power supply

Functions

Intelligent code (H.265+ & H.264+)

Dahua intelligent coding technology adopts advanced scene adaptive rate control algorithm to achieve higher coding efficiency than H.265 & H.264, provide high-quality video, and significantly reduce storage and transmission costs.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

DWDR

Adopts industry-leading DWDR technology to obtain clear and detailed information even in the conditions of strong brightness contrast.
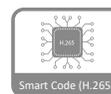
Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: ±30% input voltage range is allowed, so that the camera can be widely used in outdoor environments with unstable voltage.

Technological Specification

Camera

Image Sensor	1/2.7 inch CMOS
Max. Resolution	1920 (H) x 1080 (V)
Scanning System	Progressive
Illuminator Number	1 (IR)
Electronic Shutter Speed	1/3 s–1/100000 s (manual/auto)
S/N Ratio	>65 dB
Min. Illumination	0.01 Lux @ F2.0 (Color) 0.001 Lux @ F2.0 (B/W) 0 Lux @ F2.0 (IR on)
Illumination Distance	30 m
Noise Reduction	3D NR
WDR	Digital WDR
Gain Control	Manual/Auto
White Balance	Manual/Auto
BLC	Yes, region selectable
HLC	Yes

Lens

Lens Type	Fixed focal
Lens Mount	M12
Focal Length	2.8/6 mm
Aperture	F2.0

Aperture Control	Fixed
Iris Type	Fixed iris
Field of View	2.8mm: H: 115°, V:60 °, D:130 ° 6 mm: H: 55°, V: 31°, D: 62°

Intelligence

Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly
IVS	Tripwire, Intrusion

Alarm

Alarm Event	Motion Detection, Disk Error, Illegal Access, IVS, Voltage Detection, Disk Full, Video Tamper, Audio Detection, Scene Changing

Video

Video Compression	H264;H264B;H264H;H265;MJPEG
Bit Rate	H.264H: 32K- 8192Kbps H.265: 12K- 5632Kbps MJPEG: not supported
Frame Rate	50Hz: Main Stream (1920×1080@25fps), Sub Stream (704×576@25fps), Third Stream (1920×1080@14fps) 60Hz: Main Stream (1920×1080@30fps), Sub Stream (704×576@30fps), Third Stream (1920×1080@9fps)
Resolution	1080P (1920×1080)/1.3M (1280×960) 720P (1280×720)/D1 (704× 576/704×480)/VGA (640×480)/CIF (352×288/352×240)
Video Scale	16 : 9
Bit Rate Type	CBR; VBR

Audio

Internal MIC	Built-in Mic
Compression	G.711A; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729

Network and Port

Network Port	RJ-45 port (10/100 Base-T)/4-pin M12 aviation connector
Access Standard	ONVIF Profile S&G, API
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Streaming Method	Unicast / Multicast
Max. User Access	Unicast: 10 Users Multicast: 20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari

Power

Power Supply	12V DC/ POE (802.3af)
Power Consumption	Basic power consumption: 1.3W Max power consumption: 2.4W (IR on)

Environment

Operating Temperature	-30°C to +60°C (-22°F to 140°F)
Operating Humidity	≤95%
Ingress Protection	IP67
Operating Humidity	< 95% (non-condensing)

Structure

Dimensions	107.0mm × 82.0mm × 68mm (4.21'' × 3.235'' × 2.68'') (with bracket)
Weight	Net Weight: 395 g (0.87 lb) Gross Weight: 550 g (1.21 lb)
Casing Material	Metal
Installation	Bracket Installation

Certification

Certification	CE LVD/CE EMC/FCC/EN50155/E-mark/R118

Dimensions (mm[inch])