

IPC-HMW3230-M/M12

Driver Status Monitor Camera



System Overview

The DSM Camera is equipped with IR illumination, which is able to detect human eyes even under all-black environment or when drivers are wearing non-IR blocking sunglasses. It also adopts special strobe to protect the eyes. Connected with AI mobile video recorder to realize alarms of drowsy driving, distracted driving, calling while driving, no driver, wearing IR blocking sunglasses, smoking and lens tampering.

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

Highlights

- 1/2.7" 2Megapixel progressive scan CMOS
- 25/30fps@1080P(1920x1080)
- H.265&H.264 dual-stream encoding
- 6mm fixed lens
- Built-in IR light with illumination distance up to 5 m
- DWDR,Day/Night(ICR),3DNR,AWB,AGC,BLC,HLC
- Supports watermark
- Supports 128G micro SD card
- 12V DC/POE power supply
- CE/FCC/EN50155/E-mark certifications



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	6 mm Manual 1/25 s (100 IRE) 33.6mLux@F2.0(color);32.1mLux@F2.0(B/W);0Lux(IR on) Manual 1/3s(100 IRE) 16.64mLux@F2.0(color);1.1mLux@F2.0(B/W);0Lux(IR on)
Illumination Distance	5 m
Day/Night	B/W by default, supports manual switch
Noise Reduction	3D NR
WDR	Digital WDR
SNR	>56dB
Gain Control	Manual/Auto
White Balance	Manual/Auto
BLC	Yes, region selectable
HLC	Yes

Lens

Lens Type	Fixed focal
Lens Mount	M12
Focal Length	6 mm
Aperture	F2.0
Aperture Control	Fixed
Iris Type	Fixed iris
DORI Distance	D:78.3; O:31.3; R:15.7; I:7.8
Minimum Focus Distance	6mm:1.8
Field of View	O: 62.4°, H: 54.7°, V: 31.3°

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
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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/4-pin aviation connector
Onvif	Profile G
Access Standard	ONVIF; GB/T28181; CGI; PSIA

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
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android

Power

Power Supply	12V DC, POE (802.3af)
Power Consumption	Basic power consumption: 1.3W Max power consumption: 2.4W (IR full intensity, ICR switch, WDR 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: 415g; Gross Weight: 565g
Casing Material	Metal
Installation	Bracket Installation

Dimensions (mm[inch])

