

4K / 8MP Fixed Armor Ball IP Camera w/ Built-in Mic

SKU: IP8MIAB-28-AS

- 4K / 8MP 1/2.7" CMOS Image Sensor IP Armor Ball
- Max Resolution 4K 3840 (H) × 2160 (V)
- Smart Video Compression w/ Smart H.265+; Smart H.264+
- Day / Night - Auto (ICR) / Color / B/W
- Smart Illumination & 3D Noise Reduction
- Region of Interest & Privacy Masking - 4 Areas



VMX SERIES



4K / 8MP



98ft IR Illumination



IP67 Protection



Built-in Mic

Up To 98ft IR Distance

The IP8MIAB-28-AS is capable of producing a stunningly clear, colorful video with low illuminance enhancement for darker environments. In the darkest environments, on board IR illumination kicks in. The IP8MIAB-28-AS provides clear video capture in both day and night with high definition video output.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Built-In Mic

The IP8MIAB-28-AS comes with a built-in mic to help give you even more protection than a traditional still video.

Motion Detection

Motion detection enables the IP8MIAB-28-AS to initiate recording and alarm triggering when motion is detected in the scene enhancing surveillance efficiency and effectiveness.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading digital wide dynamic range (DWDR) technology. For applications with both bright and low lighting conditions that change quickly, Digital WDR optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Commercial Grade Equipment

Built for endurance, this all metal housing is rated IP67, which means it is protected from water and dust. Mount this camera anywhere with its 3-axis cable management bracket. Additional junction boxes and brackets are available for additional installation options, and help further protect your cables and connections.

Spec Sheet: IP8MIAB-28-AS

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PRODUCT SPECIFICATIONS

CAMERA	
Image Sensor	1/2.7" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	16 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto / Manual 1/3 s–1/100,000 s
Min. Illumination	0.04 Lux @ F2.0 (Color, 30 IRE) 0.004 Lux @ F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	98.43 ft IR
Illuminator On / Off Control	Auto; Manual
Illuminator Number	1 (IR LED)
Pan / Tilt / Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

LENS	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	F2.0
Field of View	H: 105°; V: 56°; D: 125°
Iris Control	Fixed
Close Focus Distance	3.28 ft
DORI Distance	Detect: 245.08 ft Observe: 98.10 ft Recognize: 48.88 ft Identify: 24.61 ft

VIDEO	
Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps

VIDEO CONT.	
Stream Capability	2 streams
Video Frame Rate	Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Day / Night	Auto (ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; Natural; Street Lamp; Outdoor; Manual; Regional Custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	OFF / ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0° / 90° / 180° / 270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

AUDIO	
Built-in Mic	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM

ALARM	
Alarm Event	Network Disconnection; IP Conflict; Illegal Access; Motion Detection; Video Tampering; Audio Detection; Security Exception

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PRODUCT SPECIFICATIONS CONT.

NETWORK	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec; Milestone
User / Host	6 (Total bandwidth: 48 M)
Storage	FTP
Browser	IE, Chrome, Firefox
Management Software	Optiview VMX, Optiview VMX Mobile, Optiview Cloud VCS
Mobile Client	iOS; Android

CERTIFICATION	
Certifications	CE-LVD: EN62368-1
	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B

POWER	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.3 W (12V DC); 3.1 W (PoE)
	Max. (ICR + H.265 + max. resolution + main stream + DWDR + IR intensity): 4.6 W (12V DC); 5.6 W (PoE)

ENVIRONMENT	
Operating / Storage Temperature	-40 °F to 131 °F
Operating Humidity	≤95%
Protection	IP67

STRUCTURE	
Casing Material	Metal
Product Dimensions	3.4" x Ø3.70"
Net Weight	0.71 lb
Gross Weight	0.95 lb

ADDITIONAL PRODUCTS



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P16-2S
16 Channel 16 PoE 1u
8MP NVR With Analytics



IP8MIBC-28-AI
8MP 4K Bullet Camera
w/ Analytics w/ Mic



IP8MIAB-28S-AI
4K Fixed Armor Ball IP
Camera w/ Analytics



IP8MIAB-212-ZAM
8MP IR Varifocal Armor
Ball IP Camera

COMPATIBLE BRACKETS



HDBKT-3
Armor Ball Camera Wall
Mount Bracket



HDBKT-4
VMX Series Wall
Mount Bracket



JB13A
Junction Box for VMX
series Cameras



JB121
Junction Box for VMX
series Cameras



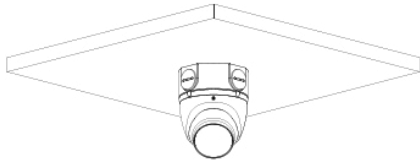
JB130
Junction Box for VMX
series Cameras

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MOUNTING OPTIONS



Ceiling Mount



Wall Mount

DIMENSIONS

