

# OPTIVIEW



## IP8MIAD-28-AI

8 MP IP Armor Dome Camera with Analytics



### 8MP IP

Capture HD video footage with 8MP IP 2.8 MM fixed lens with a maximum aperture of F2.0



### ID+

Advanced motion detection that filters out false alarms and only triggers with people or vehicles.



### Perimeter Protection

Combine Tripwire & Intrusion with object detection (people or vehicles) for advanced motion detection.



### IP67 & IK10

All metal aluminum housing for indoor and outdoor installations with IK10 vandal rating.



### Built-In Mic

This camera comes with a Built-In Mic getting you even more data and protection from your device.

## PERIMETER PROTECTION

Combine multiple tripwire and intrusion IVS rules with object (people or vehicle) detection to enable advanced motion detection alarms and alerts. Ideal for crosswalks, parking lots, communities, lawns, schools, and more.

## EDGE RECORDING

Optional edge recording with an optional memory slot expandable up to 256GB.

## AI SMART SEARCH

When connected to a Smart VMX series NVR, utilize advanced AI Smart Search allows the user to perform searches by either people or vehicle (or both), as well as vehicle type or color, shirt color & more.

## 4K RESOLUTION

4K resolution captures images four times the pixel density of 1080P which means that the finer details, such as faces or smaller items can be viewed with more detail than traditional 1080P surveillance.

## BUILT-IN AUDIO

The IP8MIAD-28-AI comes with a built-in mic to help give you even more protection than a traditional still video.

## ID+

Intelligent Motion Detection Plus, or ID+, is an upgraded version of ID that greatly improves the alarm accuracy of 98% only triggering motion detect when people or vehicles are detected, filtering out tree movement, lighting changing, small animals (<2% false alarm rate), large animals (<10% false alarm rate) and more.

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### UP TO 98FT IR DISTANCE

The IP8MIAD-28-AI 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 IP8MIAD-28-AI provides clear video capture in both day and night with high definition video output.

### WIDE DYNAMIC RANGE

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### 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.

### COMMERCIAL GRADE EQUIPMENT

Built for endurance, this all metal housing is rated IP67, which means it is protected from water and dust but is also vandal proof resistant rating of IK10. Mount this camera anywhere with it's 3-axis cable management bracket. Additional junction boxes and brackets are available for additional installation options, and help further protect your cables and connections.

### AUTOMATIC NETWORK REPLENISHMENT (ANR) TECHNOLOGY

The IP8MIAD-28-AI when connected to an ANR compatible Network Video Recorder will automatically store video data on the internal memory card when the network is disconnected. After recovery to the network, the NVR automatically retrieves the video data stored on the camera. Memory card not included.

## PRODUCT SPECIFICATIONS

CAMERA	
Image Sensor	1/2.7" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.009 lux@F 2.0 (Color, 30 IRE)
	0.0009 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	3 (IR LED)
Pan / Tilt / Rotation Range	Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°

LENS				
Lens Type	Fixed-focal			
Lens Mount	M12			
Focal Length	2.8 mm			
Max. Aperture	F2.0			
Field of View	H: 106°; V: 56°; D: 125°			
Iris Control	Fixed			
Close Focus Distance	4.27 ft			
DORI Distance	Detect	Observe	Recognize	Identify
	288.71 ft	115.49 ft	57.74 ft	28.87 ft

INTELLIGENCE	
Perimeter Protection	Intrusion, Tripwire (the two functions support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos



### PRODUCT SPECIFICATIONS CONT.

VIDEO	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main Stream: 3840 × 2160 @ (1 – 20 fps) / 2688 × 1520 @ (1 – 25/30 fps) Sub Stream: 704 × 576 @ (1 – 25 fps) / 704 × 480 @ (1 – 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
Stream Capability	2 streams
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 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)
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 32 kbps – 8192 kbps H.265: 12 kbps – 8192 kbps
Day / Night	Auto(ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	120 dB
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

ALARM	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; ID+; security exception

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

NETWORK	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Interoperability	ONVIF (Profile S / Profile G / Profile T); CGI; P2P; Milestone
User / Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Memory Card Slot (support max. 256 GB); NAS
Browser	IE, Chrome, Firefox
Management Software	Optiview VMS, Optiview VMX Free, Optiview VMX+, Optiview VMX-M
Mobile Client	iOS; Android
Cyber Security	Configuration Encryption; Trusted Execution; Digest; Security Logs; WSSE; Account Lockout; Syslog; Video Encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted Upgrade; Trusted Boot; Firmware Encryption; Generation and Importing of X.509 Certification

CERTIFICATION	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

POWER	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.6 W (12 VDC); 3.3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 5.4 W (12 VDC); 6.4 W (PoE)

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## PRODUCT SPECIFICATIONS CONT.

ENVIRONMENT	
Operating Temperature	-40 °F to +140 °F
Operating Humidity	≤95%
Storage Temperature	-40 °F to +140 °F
Storage Humidity	≤95%
Protection	IP67; IK10

STRUCTURE	
Casing Material	Metal
Product Dimensions	3.19" × Ø4.33"
Net Weight	0.75 lb
Gross Weight	1.08 lb

## ADDITIONAL PRODUCTS



**OPTIVIEW'S VIDEO MONITORING SOFTWARE**  
Remote Monitoring



**NVR16P16-2S**  
16 Channel 16 POE NVR  
1U with Analytics



**IP8MIBC-212-AI**  
8MP Motorized Varifocal  
IP Bullet Camera w/ Mic



**IP8MIAB-212-ZAM**  
4K / 8MP Varifocal IP  
Armor Ball Camera



**IPMIAB-180-FC**  
4K / 8MP Night Color  
Panoramic IP Camera

## COMPATIBLE BRACKETS



**JB136**  
Junction Box for  
HD & IP Camera

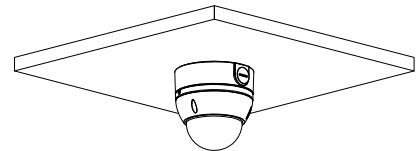


**HDBKT2**  
Armor Dome Camera  
Wall Mount Bracket

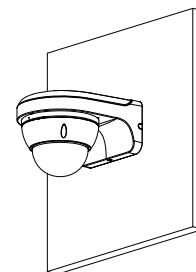


**HDBKT-POLE**  
Junction Box for  
HD & IP Cameras

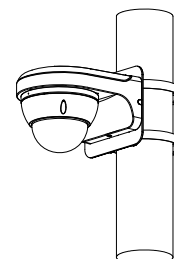
## MOUNTING OPTIONS



**Ceiling Mount**



**Wall Mount**



**Pole Mount**

## DIMENSIONS

