



8MP 4K Armor Dome Camera w/ Built-in Mic and Edge Recording

SKU: IP8MIAD-28AUSX-NCV

- 2.8mm Fixed with 98.7° View Armor Dome
- 8MP Resolution at 3840 (H) x 2160 (V)
- Color Illumination at 0.005 LUX and 98ft IR
- Memory Card Slot up to 512GB
- IP67 Weatherproof and IK10 Vandal Resistance



NCV SERIES



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.

Ultra Motion Detection

Utilizing machine learning and data intelligence, Ultra Motion Detection or UMD helps you filter out objects based on motion detection, detecting motion of specified object types in the image, and trigger an alarm when such motion is detected. UMD supports two different object types: Person and Vehicle. UMD provides a detection rate of >90% up to 49ft and is more efficient than traditional motion detection, further reducing false-alarms. Ultra Motion Detection can be configured to your full screen or specific area(s) for detection.

Built-in Mic

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

Up To 98FT IR Distance

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

ANR Technology

The IP8MIAD-28AUSX-NCV 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.

ULTRA 265 Compression

Utilizing H.265 advanced video encoding, provides high-quality video while reducing the storage space needed to retain your video events. Users can add their own memory card to take advantage of its edge recording capabilities.

Spec Sheet: IP8MIAD-28AUSX-NCV

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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.

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 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.

Product Specifications

CAMERA	
Max Resolution	8 MP
Sensor	1/2.8" CMOS
Min. Illumination	Color: 0.005 lux (F1.6, AGC ON) 0 Lux with IR on
Day / Night	IR-cut filter with auto switch (ICR)
Shutter	Auto / Manual, 1 ~ 1/100000s
Adjustment Angle	Pan: 8° ~ 360°, Tilt: 0° ~ 68°, Rotate: 10° ~ 360°
S/N	>52dB
WDR	120dB

LENS	
Focal Length	2.8 mm
Iris Type	Fixed
Iris	F1.6
Field of View	98.7° (H), 53.9° (V), 103.6° (D)

DORI	
Detect	285.1ft
Observe	114.0ft
Recognize	57.0ft
Identify	28.5ft

ILLUMINATOR	
Supplemental Light	IR
Illumination Distance (IR)	98.4 ft

NDAA Compliance

The John S. McCain National Defense Authorization Act (NDAA) is a United States federal law which specifies the budget, expenditures and policies of the U.S. Department of Defense. For Fiscal Year 2019, the NDAA Section 889, prohibits the U.S. government from procuring video and telecommunication equipment from certain Chinese companies and their subsidiaries. Some non government projects may require NDAA compliance if federal funding is being used.

Edge Recording

Optional edge recording with an optional memory slot expandable up to 512GB.

ILLUMINATOR CONT.	
Wavelength	850 nm
IR On/Off Control	Auto / Manual

VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 Code Profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 8MP (3840 * 2160), Max 20fps; 5MP (3072 * 1728), Max 30fps; 4MP (2560 * 1440), Max 30fps; 1080P (1920 * 1080), Max 30fps; 720P (1280 * 720), Max 30fps; Sub Stream: 1080P (1920 * 1080), Max 30fps; 720P (1280 * 720), Max 30fps; D1 (720 * 576), Max 30fps; 640 * 360, Max 30fps; 2CIF (704 * 288), Max 30fps; CIF (352 * 288), Max 30fps;
Video Bit Rate	128 Kbps ~ 16 Mbps
U-code	Support
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Support
Video Stream	Dual Streams

IMAGE	
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2
Digital Noise Reduction	2D / 3D DNR
Smart IR	Support

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Product Specifications Cont.

IMAGE CONT.	
Flip	Normal, Flip Vertical, Flip Horizontal, 180°, 90° Clockwise, 90° Anti-clockwise
Dewarping	N/A
HLC	Support
BLC	Support
Defog	Digital Defog

EVENTS	
Basic Detection	Motion Detection, Ultra Motion Detection, Tampering Alarm, Audio Detection, Cross Line (based on Human Body Detection), Intrusion (based on Human Body Detection)
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication

AUDIO	
Audio Compression	G.711U, G.711A
Audio Bitrate	64 Kbps
Two-way Audio	N/A
Suppression	Support
Sampling Rate	8 KHz

STORAGE	
Edge Storage	Memory Card Slot up to 512 GB
Network Storage	ANR, NAS (NFS)

NETWORK	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, QoS, 802.1x, SNMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator
Security	Password Protection, Strong Password, HTTPS Encryption, Export Operation Logs, Basic and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2, WSSE and Digest Authentication for ONVIF
Client	Optiview VMSN, Optiview VMSN Mobile, Optiview Cloud VCS

NETWORK CONT.	
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above, Plug-in free live view: Chrome 57.0 and above, Firefox 58.0 and above, Edge 16 and above

INTERFACE	
Audio I/O	N/A
Alarm I/O	N/A
Serial Port	N/A
Built-in Mic	Support
Built-in Speaker	N/A
WIFI	N/A
Network	1 x RJ45 10M/100M Base-TX Ethernet
Video Output	N/A

CERTIFICATION	
EMC	CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035) FCC (FCC 47 CFR part15 B)
Safety	CE LVD (EN 62368-1) UL/CUL (UL 62368-1, CAN/CSA C22.2 No. 62368-1)
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU);
Protection	IP67 (IEC 60529) IK10 (IEC 62262)

GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max 4.9W
Power Interface	Ø 5.5 mm coaxial power plug
Dimensions	Ø4.4" x 3.3" (Ø x H)
Weight	0.79lb
Material	Metal + Plastic
Working / Storage Environment	-22 °F ~ 140 °F, Humidity: ≤95% RH (non-condensing)
Surge Protection	4 KV
Reset Button	Support
Web Client Language	13 Languages: English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese, Spanish, Spanish (Europe), Italian

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Additional Products



OPTIVIEW's VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P16-2B-NCV
16MP 16 Channel 16 PoE
1U NVR w/ Analytics



IP8MIAB-28-SDAU-NCV
8MP Armor Ball Camera
w/ Built-in Mic

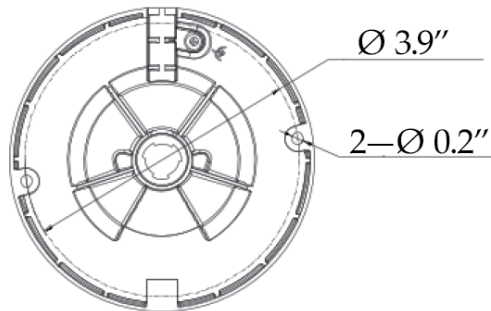
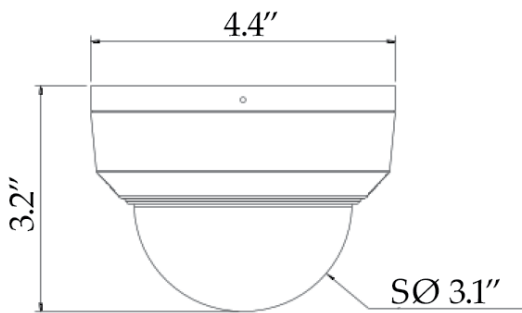


IP8MIAD-212AI-NCV
8MP Varifocal Armor
Dome w/ Analytics



IP5MIAB-180-NCV
5MP 180° Panoramic IP
Armor Ball w/ Analytics

Dimensions



Compatible Brackets



BKT-03
Wall Mount Bracket for
Armor Dome Cameras



BKT-05
Junction Box for Armor
Dome NDAA Cameras