

4MP Armor Ball with Built-in Mic & Edge Recording

SKU: IP4MIAB-28-AUX-NCV

- 2.8mm Fixed with 97.0° View Armor Ball
- 4MP Resolution at 2688 (H) x 1520 (V)
- Color Illumination at 0.003 LUX and True WDR
- Memory Card Slot up to 512GB
- Cross Line & Intrusion
- IP67 Weatherproof Rating



NCV SERIES



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.

ANR Technology

The IP4MIAB-28-AUX-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.

Edge Recording

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

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.

Cross Line

Cross line detection is a feature that allows you to set virtual lines within the camera's field of view to trigger when an object crosses. This feature is particularly useful for monitoring perimeters, entrances, and other critical areas. This enhances your security by providing real-time notifications of potential events assisting in unauthorized access with quick responses.

Built-in Mic

The IP4MIAB-28-AUX-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

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Up To 98FT IR Distance

The IP4MIAB-28SX-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. The IP4MIAB-28SX-NCV provides clear video capture in both day and night with high definition video output.

Intrusion

Intrusion detection is one of our intelligent security features that monitors specific areas within a camera's field of view for unauthorized entry. Intrusion detection is customizable to allow users to define multiple zones by drawing and adjusting areas directly on the video feed. configure your trigger rules by time threshold, sensitivity, and percentage.

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.

Product Specifications

CAMERA	
Max Resolution	4 MP
Sensor	1/3.0" CMOS
Min. Illumination	Color: 0.003 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: 0° ~ 360°, Tilt: 0° ~ 80°, Rotate: 0° ~ 360°
S/N	>52 dB
WDR	120 dB

LENS	
Focal Length	2.8 mm
Iris Type	Fixed
Iris	F1.6
Field of View (H, V, D)	97.0°, 52.2°, 107.5°

DORI				
Distance	Detect	Observe	Recognize	Identify
	206.7ft	82.7ft	41.3ft	20.7ft

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 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.

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.

ILLUMINATOR	
Supplemental Light	IR
Illumination Distance (IR)	98.4ft
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: 4MP (2688 * 1520), Max 25fps; 4MP (2560 * 1440), Max 25fps; 3MP (2304 * 1296), Max 30fps; 1080P (1920 * 1080), Max 30fps; 720P (1280 * 720), Max 30fps; Sub Stream: 720P (1280 * 720), Max 30fps; D1 (720 * 576), Max 30fps; 640 * 360, Max 30fps;
Video Bit Rate	128 Kbps to 6144 Kbps
U-code	Support
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Support
Video Stream	Dual Streams

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Product Specifications Cont.

IMAGE	
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2
Smart IR	Support
Digital Noise Reduction	2D / 3D DNR
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	Cross line (based on human body detection), Intrusion (based on human body detection), Motion Detection, Ultra Motion Detection, Tampering Alarm, Audio Detection
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User 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, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, QoS, SSL/TLS, 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
Client	Optiview VMSN, Optiview VMSN Mobile, Optiview Cloud VCS

NETWORK CONT.	
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
Web Browser	Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+, Plug-in free live view: Chrome 57+, Firefox 58+, Edge 16+

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 × RJ45 10 M/100 M 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)

GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max 4.4W
Power Interface	Ø5.5 mm coaxial power plug
Dimensions	Ø4.6" x 3.8" (Ø x H)
Weight	0.71lb
Material	Support
Working Environment	-22 °F to 140 °F, Humidity: ≤ 95% RH (non-condensing)
Storage Environment	-22 °F to 140 °F, Humidity: ≤ 95% RH (non-condensing)
Surge Protection	4 KV

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4MP Armor Dome Camera w/ Analytics



Product Specifications Cont.

GENERAL CONT.	
Reset Button	Support
Web Client Language	13 Languages: English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese, Spanish, Spanish (Europe), Italian

Additional Products



OPTIVIEW's VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P164K-2-NCV
16 Channel / 16 PoE 4K
NDAA Compliant NVR



IP4MIADLP-28AI-NCV
4MP Armor Dome
Camera w/ Analytics



IP8MAB-28-CNAU-NCV
8MP 4K Armor Ball w/
Night Color, Built-in Mic



IP5MIAB-28-ADRB-NCV
5MP Active Deterrence
Armor Ball w/ Night Color

Compatible Brackets



BKT-01
Junction Box for Network
Armor Ball



BKT-03
Wall Mount Bracket

Dimensions

