

8MP 4K 180° Panoramic IP Armor Ball Camera w/ Analytics

SKU: IP8MIAB-180-NCV

- 1.68 mm Fixed with 180° View Armor Ball
- 8MP Resolution at 3840 (H) x 2160 (V)
- Color Illumination at 0.01 LUX and 65.6ft IR
- Memory Card Slot up to 512GB
- IP67 Weatherproof and IK10 Vandal Resistance
- Built-in Mic



NCV SERIES



Smart Intrusion Prevention

Utilizing machine learning and data intelligence, Smart Intrusion Prevention or SIP helps reduce false-alarm rates by allowing you to set up Cross Line Detection, Intrusion Detection, as well as Enter / Leave Area, all which can do any combination of human/vehicle/non-motor vehicle recognition. Smart Intrusion Prevention's detection rate of >95% helps you improve your perimeter protection, reduce false alarms while keeping you informed about the events that matter the most to you.

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 Mic

The IP8MIAB-180-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

Dewarping

The IP8MIAB-180-NCV gives you the ability to dewarp a 180° panoramic camera in realtime or in playback giving the user an accurate depiction of the environment without sacrificing a large field-of-view.

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.

Edge Recording

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

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ANR Technology

The IP8MIAB-180-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.

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.

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	8 MP
Sensor	1/2.7" CMOS
Min. Illumination	Color: 0.01 Lux (F2.0, AGC ON), 0 Lux with IR on
Day / Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/1000000s
Adjustment Angle	Pan: 0° to 360°, Tilt: 0° to 75°, Rotate: 0° to 360°
S/N	>52 dB
WDR	120 dB

LENS	
Focal Length	1.68 mm
Iris Type	Fixed
Iris	F2.0
Field of View (H)	180°
Field of View (V)	100°
Field of View (D)	180°
Lens Type	Fixed

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.

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.

DORI	
Lens	1.68 mm
Detect	124.0 ft.
Observe	49.6 ft.
Recognize	24.9 ft.
Identify	12.5 ft.

ILLUMINATOR	
Supplemental Light	IR
Illumination Distance (IR)	65.6 ft.
IR On / Off Control	Auto/Manual
Wavelength	850 nm

VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 Code Profile	Baseline profile, Main profile, High profile
Frame Rate-Main Stream	8 MP (3840 × 2160), max. 30 fps; 5 MP (3072 × 1728), max. 30 fps; 4 MP (2560 × 1440), max. 30 fps; 1080P (1920 × 1080), max. 30 fps

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Product Specifications Cont.

VIDEO CONT.	
Frame Rate-Sub Stream	720P (1280 × 720), max. 30 fps; D1 (720 × 576), max. 30 fps; 640 × 360, max. 30 fps; 2CIF (704 × 288), max. 30 fps; CIF (352 × 288), max. 30 fps
Frame Rate-Third Stream	D1 (720 × 576), max. 30 fps; 640 × 360, max. 30 fps; 2CIF (704 × 288), max. 30 fps; CIF (352 × 288), max. 30 fps
Video Bit Rate	128 Kbps to 16 Mbps
U-code	Support
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Support
Video Stream	Triple streams

IMAGE	
Auto Scene Match (ASM)	Support (only WDR)
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°
Dewarping	Support
HLC	Support
BLC	Support
Defog	Digital defog
Image Stabilization	N/A
Low Illumination Characteristics	Low-light

INTELLIGENT	
Smart Intrusion Prevention	Cross Line Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection (Support False Alarm Filtering and The Classification of Human, Non-Motor Vehicle and Vehicle)
Attribute Collection	SIP with color retrieval

EVENTS	
Basic Detection	Motion Detection, Ultra Motion Detection, Tampering Alarm, Audio Detection, Object Removed, Object Left Behind

EVENTS CONT.	
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, IPv6, IGMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS
Compatible Integration	API, SDK, ONVIF (Profile S, Profile G, Profile T, Profile M)
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
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

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Product Specifications Cont.

INTERFACE CONT.	
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) IK10 (IEC 62262)

GENERAL	
Power	DC 12 V±25%, PoE (IEEE 802.3af)
Power Consumption	Max. 5.5 W
Power Interface	Ø5.5 mm coaxial power plug
Dimensions	Ø4.4" × 3.7" (Ø × H)
Weight	1.06 lb.
Material	Metal
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
Reset Button	Support
Web Client Language	20 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese

Additional Products



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P16-2B-NCV
16 Channel / 16 PoE 4K NVR w/ Analytics



IP8MIAB-180-ADRB-NCV
8MP 180° Panoramic Active Deterrence Camera



IP12F-NCV
12MP Ultra HD Fixed Fisheye Camera



IP4MPTZ25SIR-NCV
4MP 25x PTZ NDAA Compliant

Compatible Brackets



BKT-05
Junction Box for Armor Ball Cameras

Dimensions

