



OPTIVIEW



IP5MIAB-180-NCV

5MP 180° Panoramic IP Armor Ball Camera w/ Analytics



5MP IP

Capture HD video footage with 5MP IP 1.68mm fixed lens with a maximum aperture of F2.0



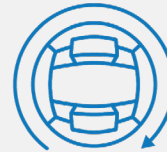
Smart Intrusion Prevention

Accurately reduce false alarms with custom zones with human and vehicle detection.



180° View

Capture even more with a complete 180° Panoramic camera with a single sensor.



Dewarp

Fully dewarp this 180° Panoramic camera natively in both live and playback.



IP67 & IK10

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

UP TO 66FT IR DISTANCE

The IP5MIAB-180-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 IP5MIAB-180-NCV provides clear video capture in both day and night with high definition video output.

DEWARPING

The IP5MIAB-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.

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.

BUILT-IN MIC

The IP5MIAB-180-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

EDGE RECORDING

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

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ULTRA MOTION DETECTION

Utilizing machine learning and data intelligence, Ultra Motion Detection or UMD helps you filter out object 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 area detection.

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.

PRODUCT SPECIFICATIONS

CAMERA	
Sensor	1/2.7", 5.0 megapixel, progressive scan, CMOS
Minimum 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 ~ 1/100000s
Adjustment Angle	Pan: 0° ~ 360°, Tilt: 0° ~ 75°, Rotate: 0° ~ 360°
WDR	120dB
S / N	>56dB

AUTOMATIC NETWORK REPLENISHMENT (ANR) TECHNOLOGY

The IP5MIAB-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.

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.

LENS	
Lens type	1.68mm@F2.0
Iris	Fixed
Field of View (H)	180°
Field of View (V)	100°
Field of View (O)	180°

DORI		
DORI Distance	Detect: 124.0ft	Observe: 49.6ft
	Recognize: 24.8ft	Identify: 12.4ft

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PRODUCT SPECIFICATIONS CONT.

ILLUMINATOR	
IR Range	Up to 66ft IR range
Wavelength	850nm
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: 5MP (2880 * 1620), Max 30fps; 4MP (2560 * 1440), Max 30fps; 1080P (1920 * 1080), 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; Third Stream: D1 (720 * 576), Max 30fps; 640 * 360, Max 30fps; 2CIF (704 * 288), Max 30fps; CIF (352 * 288), Max 30fps;
Video Bit Rate	128 Kbps ~ 10 Mbps
U-code	Support
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Video Stream	Triple Streams

IMAGE	
White Balance	Auto / Outdoor / Fine Tune / Sodium Lamp / Locked / Auto2
Digital Noise Reduction	2D / 3D DNR
Smart IR	Support
Flip	Normal / Flip Vertical / Flip Horizontal / 180°
Dewarping	Support
HLC	Support
BLC	Support
Defog	Digital Defog

INTELLIGENT	
Smart Intrusion Prevention	Support False Alarm Filtering: Line Crossing Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection

EVENTS	
Basic Detection	Motion Detection, Ultra Motion Detection, Tampering Alarm, Audio Detection
General Function	Watermark, IP Address Filtering, Tampering Alarm, 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	8KHZ

STORAGE	
Edge Storage	Memory Card Slot up to 256GB
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	ONVIF (Profile S, Profile T, Profile G), 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	VMSN, VMSN Mobile
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

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PRODUCT SPECIFICATIONS CONT.

INTERFACE CONT.	
Built-in Speaker	N/A
WIFI	N/A
Network	1 RJ45 10M / 100M Base-TX Ethernet
Video Output	N/A

CERTIFICATIONS	
EMC	CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035) FCC (FCC 47 CFR part 15 B)
Safety	CE LVD (EN 62368-1) CB (IEC 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 5.5W
Power Interface	Ø 5.5mm Coaxial Power Plug
Dimensions (Ø x H)	Ø 4.4" x 3.7"
Weight	1.06lb
Material	Metal
Working Environment	-22°F ~ 140°F, Humidity: ≤95% RH (non-condensing)
Storage Environment	-22°F ~ 140°F, Humidity: ≤95% RH (non-condensing)
Surge Protection	4kV
Reset Button	Support

ADDITIONAL PRODUCTS



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR324K-4I-NCV
32 Channel 4K NVR
w/ Analytics



IP5MIBC-180-NCV
5MP HD 180°
IP Bullet Camera



IP8F-NCV
12MP Ultra HD Fixed
Fisheye Camera



IP2MPTZ4SIRD-NCV
2MP Dual Lens PTZ
Camera with 4X Zoom

COMPATIBLE BRACKETS



BKT-03
Junction Box for
NCV Series Cameras



BKT-05
Junction Box for
NCV Series Cameras

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DIMENSIONS

