



OPTIVIEW



IP8MIAB-212-NCV

8MP Varifocal Armor Ball IP Camera w/ Analytics



8MP 4K IP

Up to 8MP Resolution for Preview and Playback



Smart Intrusion Prevention

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



UMD

Human and Vehicle detection accuracy enhanced by machine learning reducing false alarms and enhancing security.



IP67 & IK10

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



People Counting

Detect and track targets using Optiview's advanced image technology by with up to 4 customizable areas.

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.

PEOPLE COUNTING

The IP8MIAB-212-NCV detects and tracks target by using advanced image processing technology and deep learning algorithm. You can draw 4 polygon areas, and count people in each area; When the number of the people in the area is greater than or equal to/lower than or equal to the defined threshold, the alarm will be triggered.

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.

AUTOMATIC NETWORK REPLENISHMENT (ANR) TECHNOLOGY

The IP8MIAB-212-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.

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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.

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.

EDGE RECORDING

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

PRODUCT SPECIFICATIONS

| CAMERA | |
|-------------------|---|
| Sensor | 1/2.8", 8.0 Megapixel, Progressive Scan, CMOS |
| Min. Illumination | Colour: 0.0025 Lux (F1.6, AGC, On) 0 Lux with IR |
| Day / Night | IR-Cut Filter with Auto Switch (ICR 0 |
| Shutter | Auto / Manual, 1/100,000s |
| Adjustment Angle | Pan: 0° - 360°; Tilt: 0° - 75°; Rotate: 0° - 360° |
| WDR | 120 dB |
| S / N | > 56 dB |

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 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.

CROWD DENSITY

With deep learning algorithm, the IP8MIAB-212-NCV can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

| LENS | |
|---------------|--|
| Lens | 2.8 - 12mm, AF Automatic Focus and Motorized Zoom Lens |
| Iris | Fixed |
| Field of View | 107.4° - 29.2° (H) 54.2° - 16.3° (V) 111.0° - 33.1° (D) |
| DORI Distance | Detect: 285.1 ft Observe: 114.2 ft Recognize: 57.1 ft Identify: 28.5 ft |

| ILLUMINATOR | |
|-------------|--------------|
| IR Range | Up to 131 ft |



PRODUCT SPECIFICATIONS CONT.

| 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 |
| Frame Rate | Main Stream: 8MP (3840 * 2160), Max 20fps; 5MP (3072 * 1728), 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 - 16 Mbps |
| U - Code | Support |
| Video Stream | Triple Streams |
| OSD | Up to 8 |
| Privacy Mask | Up to 4 Areas |
| ROI | Up to 8 Areas |

| IMAGE | |
|-------------------------|--|
| White Balance | Auto / Outdoor / Fine Tune / Sodium Lamp / Locked / Auto2 |
| Digital Noise Reduction | 2D / 3D DNR |
| Smart IR | Support |
| Flip | Normal / Vertical / Horizontal / 180° / 90° Clockwise / 90° Anti-Clockwise |
| Dewarping | Support |
| HLC | Support |
| BLC | Support |
| Defog | Digital Defog |

| INTELLIGENCE | |
|----------------------------|--|
| Smart Intrusion Prevention | Support False Alarm Filtering: Cross Line Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection |
| Statistical Analysis | People Counting, Support People Flow Counting and Crowd Density Monitoring |

| 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.711 |
| Audio Bit Rate | 64 Kbps |
| Suppression | Support |
| Sampling Rate | 8 KHZ |

| STORAGE | |
|-----------------|---|
| Edge Storage | Optional Memory Card Slot, Up to 256 GB |
| Network Storage | ANR, NAS (NFS) |

| NETWORK | |
|------------------|---|
| Protocols | IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL / TLS, SSH |
| Interoperability | ONVIF (Profile S, Profile G, Profile T), API, SDK |
| User / Host | Up to 32 Users; 2 User Levels: Administrator and Common User |
| 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 and 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 and Above, Firefox 58 and above, Edge 16 and Above |

| INTERFACE | |
|------------------|---------|
| Audio I / O | N / A |
| Alarm I / O | N / A |
| RS485 | N / A |
| Built-In Mic | Support |
| Built-In Speaker | N / A |

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PRODUCT SPECIFICATIONS CONT.

| INTERFACE CONT. | |
|-----------------|--------------------------------------|
| Wifi | N / A |
| Network | 1 - RJ45 10 M /100M Base-TX Ethernet |
| Video Output | N / A |

| CERTIFICATIONS | |
|----------------|--|
| EMC | CE-EMC (EN 55032: 2015 + A1:2020, EN 61000-3-3: 2013 + A1: 2019, EN IEC 61000-3-2: 2019 + A1: 2021, EN 55035: 2017 + A1: 2020) FCC (FCC CFR 47 part 15 B, ANSI C63.4-2014) |
| Safety | CE LVD (EN 62368-1: 2014 + A1: 2017) CB (IEC 62368-1: 2014) UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01) |
| Environment | CE-RoHS (2011 / 65 / EU; (EU) 2015 / 863); WEEE (2012 / 19 / EU); Reach (Regulation (EC) No 1907 / 2006) |
| Protection | IP67 (IEC 60529: 1989 + AMD1: 1999 + AMD2: 2013) IK10 (IEC 62262: 2002) |

| GENERAL | |
|---------------------|--|
| Power | DC 12V ±25%, PoE (IEEE 802.3af) Power consumption: Max 9.0W |
| Power Interface | Ø 5.5 mm Coaxial Power Plug |
| Dimensions | Ø 5.1" x 4.3" |
| Weight | 1.52 lbs |
| 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 | 6 KV |
| Reset Button | Support |

ADDITIONAL PRODUCTS



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR64-8-NCV
64 Channel NDA
Compliant RAID NVR



IP160P-NCV
4MP Wide Angle Fixed
Bullet Night Color Camera



IP4MIAB-28-AD-NCV
4MP Armor Ball Camera
with Active Deterrence



IP2MPTZ33-NCV
2MP 33X Starlight PTZ
Camera

COMPATIBLE BRACKETS

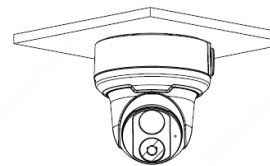


BKT-04
Junction Box for
Network Cameras



BKT-02
Junction Box for
Network Cameras

MOUNTING OPTIONS



Junction Mount

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DIMENSIONS

