



OPTIVIEW

IP4MIAB-212-SDAU-NCV

4MP Varifocal IP Armor Ball Camera with Built-in Mic



4MP IP

Capture HD video footage with 4MP IP 2.8 ~ 12MM variable focus lens with a maximum aperture of F1.6



UMD

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



ANR

Automatic Network Replenishment (ANR) Technology helps provide backup NVR redundancy



Built-In Mic

This camera comes with a Built-In Mic getting you even more data and protection from your device.



IP67

All metal aluminum housing for indoor and outdoor installations with 2KV lightning rating.

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.

BUILT-IN AUDIO

The IP4MIAB-212-SDAU-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

UP TO 131FT IR DISTANCE

The IP4MIAB-212-SDAU-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-212-SDAU-NCV provides clear video capture in both day and night with high definition video output.

ANR TECHNOLOGY

The IP4MIAB-212-SDAU-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. Memory card not included.

EDGE RECORDING

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

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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.

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.

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.

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.

PRODUCT SPECIFICATIONS

| CAMERA | |
|----------------------|--|
| Sensor | 1/3", 4.0 megapixel, progressive scan, CMOS |
| Minimum Illumination | Color: 0.003 lux (F1.6, AGC ON) 0 lux with IR |
| Day / Night | IR-cut filter with auto switch (ICR) |
| Shutter | Auto/Manual, 1 ~ 1/100000s |
| Adjustment Angle | Pan: 0° to 360° Tilt: 0° to 75° Rotate: 0° to 360° |
| S/N | >56dB |
| WDR | 120dB |

| LENS | |
|-------------------|---|
| Lens Type | 2.8 ~ 12mm, AF automatic focusing and motorized zoom lens |
| Iris | Fixed |
| Field of View (H) | 102.79° ~ 30.86° |
| Field of View (V) | 54.50° ~ 17.49° |
| Field of View (D) | 106.94° ~ 30.86° |

| DORI | | | | |
|---------------|--------------------|-------------------|-------------------|------------------|
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 206.69 ~ 885.82 ft | 82.67 ~ 354.33 ft | 41.33 ~ 177.16 ft | 20.66 ~ 88.58 ft |

| ILLUMINATOR | |
|---------------------|-----------------------|
| IR Range | Up to 131 ft 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: 4MP (2688 * 1520), Max 25fps; 4MP (2560 * 1440), Max 25fps; 3MP (2304 * 1296), Max 30fps; 1080P (1920 * 1080), Max 30fps; Sub Stream: 720P (1280 * 720), Max 30fps; D1 (720 * 576), Max 30fps; 640 * 360, Max 30fps; |
| Video Bit Rate | 128 Kbps~16 Mbps |
| U-code | Support |
| OSD | Up to 4 OSDs |
| Privacy Mask | Up to 4 areas |

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PRODUCT SPECIFICATIONS CONT.

| VIDEO CONT. | |
|--------------|---------------|
| ROI | Up to 8 areas |
| Video stream | Dual streams |

| IMAGE | |
|---------------|--|
| White Balance | Auto / Outdoor / Fine Tune / Sodium Lamp / Locked / Auto2 |
| Smart IR | Supported |
| Flip | Normal / Vertical / Horizontal / 180° / 90°Clockwise / 90°Anti-clockwise |
| Dewarping | N/A |
| HLC | Support |
| BLC | Support |
| Defog | Digital Defog |

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

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

| EVENTS | |
|------------------|---|
| Basic Detection | Cross Line, 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, HTTP Authentication |

| NETWORK | |
|------------------------|--|
| Protocols | IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, 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. 2 user levels: administrator and common user |

| 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 |
| Client | Optiview VMSN, Optiview 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 |
| 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: 2015+A1:2020, EN 61000-3-3: 2013+A1: 2019, EN IEC 61000-3-2: 2019+A1: 2021, EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014) |
| Safety | CE LVD (EN 62368-1:2014+A11:2017) 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) |

| GENERAL | |
|--------------------|--------------------------------|
| Power | DC 12V±25%, PoE (IEEE 802.3af) |
| | Power consumption: Max 8.0W |
| Power Interface | Ø 5.5mm coaxial power plug |
| Dimensions (Ø x H) | Ø5.1" x 4.3" |

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PRODUCT SPECIFICATIONS CONT.

| GENERAL CONT. | |
|---------------------|---|
| Weight | 1.48lb |
| 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 | 6KV |
| Reset Button | Support |

ADDITIONAL PRODUCTS



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR8P84K-1-NCV
8 Channel 4K NDA
Compliant NVR



IP4MIBC-28-SDA-NCV
4MP Fixed Bullet
Camera w / Mic



IP4MIAB-28-AD-NCV
4MP Fixed Armor Ball
w / Active Deterrence



IP4MPTZ25SIR-NCV
4MP NDA IP PTZ
Camera w / 25X Zoom

COMPATIBLE BRACKETS



BKT-02
Junction Box for
NCV Series Cameras

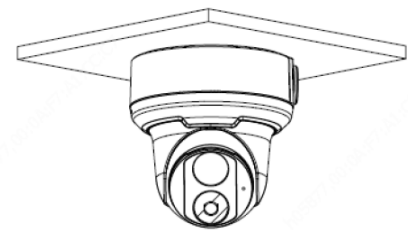


BKT-04
Junction Box for
NCV Series Cameras

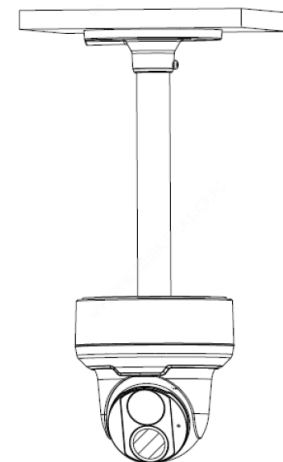


BKT-P8-NCV
Junction Box for
NCV Series Cameras

MOUNTING OPTIONS



Ceiling Mount (BKT-04)



Pendant Mount (BKT-04 + BKT-P8-NCV)

DIMENSIONS

