



# Optiview

## IP4MIAB-28-DLS-NCV

4MP Night Color IP Armor Ball Camera w/ Built-In Mic



### 4MP IP

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



### Night Color

Monitor your areas in full-color 24/7, illuminating even in total darkness up to a distance of 98ft.



### UMD

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



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

## 24/7 NIGHT COLOR

The IP4MIAB-28-DLS-NCV enables you to monitor your areas with 24/7 color video by adopting night-color technology. This camera provides clear, colorful video down to 0.003 LUX before the built-in LED illuminator kicks on, providing a vivid, colorful image even in total darkness with a range of up to 98ft. By default, night-color technology will automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposing objects in the center of your image.

## ANR TECHNOLOGY

The IP4MIAB-28-DLS-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.

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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.

## UP TO 98FT IR DISTANCE

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

## EDGE RECORDING

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

## 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.

## 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	1/3", 4.0 megapixel, progressive scan, CMOS
Minimum Illumination	Colour: 0.003Lux ( F1.6, AGC ON) 0Lux with light
Day / Night	IR-cut filter with auto switch (ICR)
Shutter	Auto / Manual, 1 ~ 1/100000s
Adjustment Angle	Pan: 0° to 360°, Tilt: 0° to 80°
S / N	>52dB
WDR	120dB

LENS	
Lens Type	2.8 mm @ 1.6, Fixed-focal
Lens Mount	M12
Angle Of View (H)	112.9°
Angle Of View (V)	59.1°
Angle Of View (O)	121.2°

DORI				
DORI Distance	Detect	Observe	Recognize	Identify
	206.69 ft	82.67 ft	41.33 ft	20.66 ft

ILLUMINATOR	
IR Range	Up to 98 ft IR range
White Light Range	Up to 98 ft white light range
Wavelength	IR: 850nm
IR On / Off Control	Auto / Manual

IMAGE	
White Balance	Auto / Outdoor / Fine Tune / Sodium Lamp / Locked / Auto2
Image Setting	Image Rotation, Brightness, Saturation, Contrast, Sharpness, Gain Adjustable By Web Browser
Digital Noise Reduction	2D / 3D DNR

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## PRODUCT SPECIFICATIONS CONT.

IMAGE CONT.	
Smart IR	Supported
Flip	Normal / Vertical / Horizontal / 180° / 90° Clockwise / 90° Anti-clockwise
Dewarping	N/A
HLC	Supported
BLC	Supported
Defog	Digital Defog

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 25 fps; 4MP (2560 * 1440), Max 25 fps; 3MP (2304 * 1296), Max 30 fps; 1080P (1920 * 1080), Max 30 fps; 720P (1280 * 720), Max 30 fps; Sub Stream: 720P (1280 * 720), Max 30 fps; D1 (720 * 576), Max 30 fps; 640 * 360, Max 30 fps;
Video Bit Rate	128 Kbps~16 Mbps
U-code	Supported
9:16 Corridor Mode	Supported
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas

EVENTS	
Basic Detection	Cross Line, Intrusion(Based On Human Body Detection) Motion Detection, Tampering Alarm, Audio Detection
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication

AUDIO	
Audio Compression	G.711
Suppression	Supported
Sampling Rate	8KHZ

STORAGE	
Edge Storage	Memory Card Slot up to 128 GB
Network Storage	ANR, NAS(NFS)

INTERFACE	
Network	1 * RJ45 10M / 100M Base-TX Ethernet
Built-in Mic	Supported
Built-in Speaker	Supported

NETWORK	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL / TLS, 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
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: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+

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)	Ø4.6" x 3.8"
Weight	0.66lb
Material	Metal + Plastic
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	N/A
Ingress Protection	Ingress Protection: IP67

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## PRODUCT SPECIFICATIONS CONT.

CERTIFICATION	
EMC	FCC: FCC Part 15
Safety	CE: EN 60950-1
	UL: UL60950-1
	IEC 60950-1

## 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-03**  
Junction Box for  
NCV Series Cameras

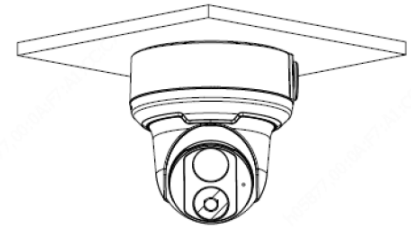


**BKT-05**  
Junction Box for  
NCV Series Cameras

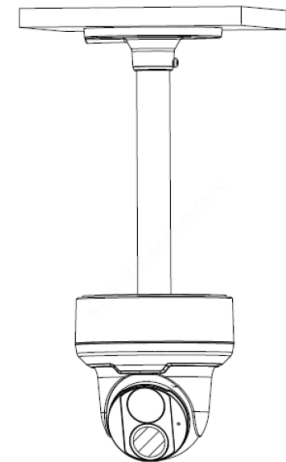


**BKT-P8-NCV**  
Junction Box for  
NCV Series Cameras

## MOUNTING OPTIONS



**Ceiling Mount (BKT-05)**



**Pendant Mount (BKT-05 + BKT-P8-NCV)**

## DIMENSIONS

