

8MP 4K Armor Ball w/ Starlight, Built-in Mic & Edge Recording

SKU: IP8MAB-28-CNAU-NCV

- 2.8mm Fixed w/ F1.0 Aperture & 1/1.8" CMOS sensor
- 8MP 4K Resolution at 3840 (H) x 2160 (V)
- Ultra-Wide Fixed 111° view
- Color Illumination at 0.0003 LUX
- 98ft Warm Light Distance
- Memory Card Slot up to 512GB
- IP67 Weatherproof

NCV
SERIES



8MP / 4K IP



Ultra Motion
Detection



ANR
Technology



Built-In Mic

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.

Starlight Technology

For challenging low-light applications, Starlight Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.0003 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Built-in Mic

The IP8MAB-28-CNAU-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

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.

Automatic Network Replenishment ANR Technology

The IP8MAB-28-CNAU-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.

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.

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NDA 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	
Max Resolution	8 MP
Sensor	1/1.8" CMOS
Min. Illumination	Color: 0.0003 lux (F1.0, AGC ON)
Shutter	Auto/Manual, 1 ~ 1/1000000s
Adjustment Angle	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotate: 0° ~ 360°
S/N	>52dB
WDR	120dB

LENS	
Focal Length	2.8 mm
Iris Type	Fixed
Iris	F1.0
Field of View (H)	111.0°
Field of View (V)	63.0°
Field of View (D)	131.0°
Lens Type	Fixed

DORI	
Lens	2.8mm
Detect	206.7ft
Observe	82.7ft
Recognize	41.3ft
Identify	20.7ft

ILLUMINATOR	
Supplemental Light	Warm Light
Illumination Distance (Warm Light)	98.4 ft
Light On/Off Control	Auto/Manual

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 its 3-axis cable management bracket. Additional junction boxes and brackets are available for additional installation options, and help further protect your cables and connections.

Edge Recording

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

VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 Code Profile	Baseline profile, Main profile, High 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; 720P (1280*720), 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;
Video Bit Rate	128 Kbps ~ 6144 Kbps
U-code	Support
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Support
Video Stream	Dual Streams

IMAGE	
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2
Digital Noise Reduction	2D/3D DNR
Smart Illumination	Support
Flip	Normal, Flip Vertical, Flip Horizontal, 180°, 90° Clockwise, 90° Anti-clockwise
Dewarping	N/A
HLC	Support
BLC	Support
Defog	Digital Defog
Image Stabilization	N/A

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Product Specifications

EVENTS	
Basic 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

INTELLIGENT	
Smart Intrusion Prevention (Lite)	Intrusion, Crossline Detection (Both detection are based on human body and vehicle detection)

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, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL/TLS
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, Optiview Cloud VCS
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 x RJ45 10M/100M 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)

GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max 3.9W
Power Interface	Ø 5.5 mm coaxial power plug
Dimensions	Ø4.6" x 4.2" (Ø x H)
Weight	1.06lb
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	4 KV
Reset Button	Support
Web Client Language	13 Languages English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese, Spanish, Spanish (Europe), Italian

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Additional Products



OPTIVIEW's VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P164K-2-NCV
16 Channel / 16 PoE 4K
NDAA Compliant NVR



IP8MIAD-212AI-NCV
8MP Armor Dome
Varifocal w/ Analytics



IP8MIAB-212-NCV
8MP Varifocal Armor Ball
IP Camera w/ Analytics



IP12F-NCV
12MP Ultra HD Fixed
Fisheye Camera

Compatible Brackets



BKT-01
Wall Mount with
Junction Box



BKT-03
Junction Box for Armor
Dome Cameras

Dimensions

