

4MP Starlight Armor Ball Camera w/ Built-in Mic & Edge Recording

SKU: IP4MAB-28-CNAU-NCV

- 2.8mm Fixed with 110.4° View Armor Ball
- 4MP Resolution at 2688 (H) x 1520 (V)
- Color Illumination at 0.0003 LUX
- Warm light up to 98ft
- Memory Card Slot up to 512GB
- IP67 Weatherproof



NCV SERIES



4MP IP



Ultra Motion Detection



Starlight



110° View



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.

ANR Technology

The IP4MAB-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.

Built-in Mic

The IP4MAB-28-CNAU-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

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.

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.

Spec Sheet: IP4MAB-28-CNAU-NCV

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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.

Edge Recording

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

Product Specifications

CAMERA	
Sensor	1/1.8 4 .0 progressive scan, CMOS
Minimum Illumination	Colour: 0.0003 lux (F1.0 , AGC)
Shutter	Auto / Manual, 1/1000000s
Adjustment Angle	Pan: 0° ~ 360° Tilt: 0° ~ 75° Rotate: 0° ~ 360°
WDR	120dB
S/N	>52 dB

LENS	
Lens	2.8 mm @ F1.0
Minimum Illumination	Fixed
Iris	Auto / Manual, 1/1000000s
Field of View (H)	110.4°
Field of View (V)	60.5°
Field of View (D)	115.2°

DORI	
DORI Distance	Detect: 142.5ft Observe: 57.0ft Recognize: 28.5ft Identify: 14.3ft

ILLUMINATOR	
Warm Light Range	Up to 98ft
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 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.

VIDEO	
Video Compression	Ultra265, 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; 2CIF (704 * 288), Max 30fps; CIF (352 * 288), Max 30fps;
Video Bit Rate	128 Kbps~6144Kbps
U-code	Support
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
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 / Vertical / Horizontal / 180° / 90°Clockwise / 90°Anti-clockwise
Dewarping	N/A
HLC	Support
BLC	Support
Defog	Digital Defog

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Product Specifications Cont.

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

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 512GB
Network Storage	ANR, NAS(NFS)

NETWORK	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SNMP, 802.1x, 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

INTERFACE CONT.	
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,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 2.8W
Power Interface	Ø 5.5mm coaxial power plug
Dimensions (Ø x H)	Ø4.6" x 4.2"
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	4kV
Reset Button	Support

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Additional Products



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR16P16-2B-NCV
16MP 16 Channel 16 PoE
1U NVR w/ Analytics



IP4MIBC-28-SDA-NCV
4MP Bullet Camera w/
Mic and Edge Recording



IP5MIAB-28-FC-NCV
5MP Full Color Armor
Ball w/ Built-in Mic



IP5MIAB-28-ADRB-NCV
5MP Active Deterrence
Armor Ball w/ Starlight

Compatible Brackets

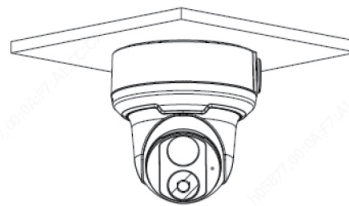


BKT-01
Junction Box for NDAA
Network Armor Ball



BKT-03
Wall Mount Bracket

Mounting Options



Ceiling Mount

Dimensions

