

# 4MP Fixed Armor Dome IP Camera w/ Analytics & Built-in Mic

SKU: IP4MIAD-28AI-NCV

- 2.8mm Fixed with 101° View Armor Dome
- 4MP Resolution at 2688 (H) x 1520 (V)
- Color Illumination at 0.002 LUX and 98ft IR
- Memory Card Slot up to 256GB
- IP67 Weatherproof and IK10 Vandal Resistance
- Ultra 265, H.265, H.264 Video Compression



**NCV**  
SERIES



## 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.

## 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.

## People Counting

The IP4MIAD-28AI-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.

## Up To 98FT IR Distance

The IP4MIAD-28AI-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 IP4MIAD-28AI-NCV provides clear video capture in both day and night with high definition video output.

## Built-In Mic

The IP4MIAD-28AI-NCV comes with a built-in mic to help give you even more protection than a traditional still video.

# Spec Sheet: IP4MIAD-28AI-NCV

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## Crowd Density

With deep learning algorithm, the IP4MIAD-28AI-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.

## 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.

## Product Specifications

CAMERA	
Sensor	1/3", 4.0 megapixel, progressive scan, CMOS
Minimum Illumination	Color: 0.002 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: 3°~360° Tilt: 0° ~ 68° Rotate: 3° ~360°
S/N	>56dB
WDR	120dB

LENS	
Lens Type	2.8mm @ F1.6
Iris	Fixed
Field of View	H: 101.1°; V: 53.3°; D: 111.1°

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

ILLUMINATOR	
IR Range	Up to 98 ft IR range

## NDA Compliance

The John S. McCain National Defense Authorization Act (NDA) 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 NDA 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 NDA compliance if federal funding is being used.

ILLUMINATOR CONT.	
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 30fps; 4MP ( 2560 * 1440 ), Max 30fps; 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; 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	Supported
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Video Stream	Triple Streams

IMAGE	
White Balance	Auto / Outdoor / Fine Tune / Sodium Lamp / Locked / Auto2
Digital Noise Reduction	2D / 3D DNR

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## Product Specifications Cont.

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

INTELLIGENT	
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, Alarm Input, Alarm Output, Access Policy, ARP Protection, RTSP Authentication, User Authentication

AUDIO	
Audio Compression	G.711
Audio Bitrate	64 Kbps
Two-way Audio	Support
Suppression	Support
Sampling Rate	8KHZ

STORAGE	
Edge Storage	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
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
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
Client	Optiview VMSN, Optiview VMSN Mobile, Optiview Cloud VCS

INTERFACE	
Audio I/O	Input: impedance 35kΩ; amplitude 2V [p-p] Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
RS485	N/A
Built-in Mic	N/A
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) IK10 (IEC 62262:2002)

GENERAL	
Power Interface	Ø 5.5mm coaxial power plug

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## Product Specifications Cont.

GENERAL CONT.	
Power	DC 12V±25%, PoE (IEEE 802.3af) Power consumption: Max 4.5W
Dimensions (Ø x H)	Ø4.3" x 3.2"
Weight	0.93lb
Material	Metal
Working / Storage Environment	-22°F~-140°F, Humidity: ≤95% RH (non-condensing)
Surge Protection	4KV
Reset Button	N/A

## Additional Products



**OPTIVIEW'S VIDEO MONITORING SOFTWARE**  
Remote Monitoring



**NVR16P164K-21-NCV**  
NDA Compliant 16 Channel / 16 PoE 4K NVR



**IP4MIAB-28-SDAM-NCV**  
4MP IP Armor Ball Camera w/ Built-in Mic



**IP4MIAD-212-Z-NCV**  
4MP Motorized Zoom Armor Dome w/ Edge



**IP5MIAB-180-NCV**  
5MP 180° Panoramic Armor Ball w/ Analytics

## Compatible Brackets

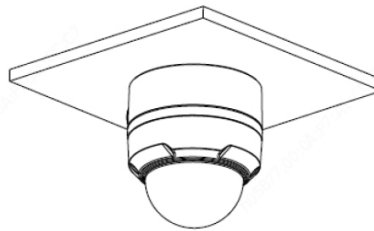


**BKT-03**  
Wall Mount Bracket

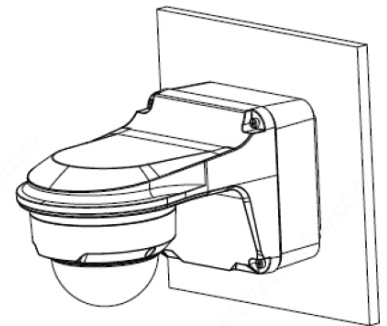


**BKT-05**  
Mounting Bracket for Network Armor Dome

## Mounting Options



Ceiling Mount



Wall Mount

## Dimensions

