



# 16MP 8 Channel 8 PoE 1U NVR with Analytics

SKU: NVR8P8-2B-NCV

- 8 Ch PoE at 30W per port up to max 130W
- Decoding of 2x at 16MP/30FPS or 16x at 1080P/30FPS
- Two Way Talk with 1/1 Audio In/Out
- 8/2 Alarm In/Out with 1x RS485
- Max 2x 10TB Hard Drive Capacity
- Ultra 265, H.265, H.264 Video Compression



## 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.

## 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.

## Real Time Face Recognition

The NVR8P8-2B-NCV comes fully equipped with advanced facial attributes analysis. Identify, capture and record people based on gender, age, expression, glasses, mustache, face mask. With real time facial feature filtering, you can display faces with targeted features.

## Bandwidth

With a higher throughput of 320Mbps your IP network cameras can record at higher frame rates and resolutions without maxing out.

## People Counting

The NVR8P8-2B-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.

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## Crowd Density

With deep learning algorithm, the NVR8P8-2B-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.

## Product Specifications

VIDEO/AUDIO INPUT	
IP Video Input	8-ch
Audio Input	1-ch, RCA

VIDEO / AUDIO OUTPUT	
HDMI / VGA Output	HDMI: 4K (3840 x 2160) @ 30, 1920 x 1080p @ 60, 1920 x 1080p @ 50, 1600 x 1200 @ 60, 1280 x 1024 @ 60, 1280 x 720 @ 60, 1024 x 768 @ 60 VGA: 1920 x 1080p @ 60, 1920 x 1080p @ 50, 1280 x 1024 @ 60, 1600 x 1200 @ 60, 1280 x 720 @ 60, 1024 x 768 @ 60
Recording Resolution	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Audio Output	1-ch, RCA
Two-way Audio	1-ch, RCA(Using the audio input and output)
Audio Compression	G.711A, G.711U
Synchronous Playback	8-ch
Liveview display	1 / 4 / 6 / 8 / 9
Corridor Mode Screen	3 / 4 / 5 / 7 / 9

NETWORK	
Incoming Bandwidth	320Mbps
Outgoing Bandwidth	160Mbps
Remote Users	128
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPV6
Browser	IE(IE10/11) for Windows Firefox (version 52.0 and above) for Windows Chrome(version 45 and above) for Windows Edge(version 79 and above) for Windows

## 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.

SNAPSHOT	
FTP / Schedule / Event Snapshot	4-ch snapshot, up to D1 resolution

DECODING	
Decoding Format	Ultra 265 / H.265 / H.264
Live View / Playback	16MP / 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Capability	Ultra 265 / H.265: 2 x 16MP @ 30, 2 x 12MP @ 30, 4 x 4K @ 30, 6 x 5MP @ 30, 8 x 4MP @ 30, 10 x 3MP @ 30, 16 x 1080P @ 30, 32 x 960P @ 25 H.264: 2 x 16MP(4800 x 2688) @ 30, 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080P @ 30, 30 x 720P @ 30, 32 x D1

HARD DISK	
SATA	2 SATA interfaces
Capacity	Up to 10TB for each disk

SMART	
VCA Detection by Camera	Smart Intrusion Prevention, Vehicle Detection, Ultra Motion Detection, Traffic Monitoring, Face Detection, Human Detection, Non-Motor Vehicle Detection, Intrusion, Cross Line, Enter Area, Leave Area, Scene Change, Temperature Detection, People Counting, Dual Lens, Dewarp, License Plate Recognition, Object Left Behind, Object Removed, Auto Tracking
VCA Search	Face Snapshot Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report
People Counting	People Flow Counting, Crowd Density Monitoring

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## Product Specifications Cont.

SMART CONT.	
Smart Intrusion Prevention, Vehicle Detection, Ultra Motion Detection, Video Metadata, Traffic Monitoring by Camera	Total 8-ch

POE	
Interface	8 RJ-45 10M/100M self-adaptive Ethernet Interface
Max Power	Max 30W for single port Max 130W in total
Supported Standard	IEEE 802.3af/at

ALARM	
General Alarm	Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal

GENERAL	
Power Supply	100~240V AC Power Consumption: ≤ 20W (without HDD)
Working Environment	+14°F~+131°F, Humidity ≤ 90% RH (non-condensing)
Dimensions (W×D×H)	15.0" × 12.7" × 2.1"
Weight (without HDD)	5.73lb

EXTERNAL INTERFACE	
Network Interface	1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface
USB Interface	Front: 1 x USB2.0, Rear panel: 1 x USB3.0
RS232	N/A
RS485	1
Alarm In	8-ch
Alarm Out	2-ch

CERTIFICATION	
Certification	CE, FCC, UL, RoHS, WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part15 Subpart B

## Additional Products



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



**SURVEILLANCE DRIVES**  
4TB / 8TB / 10TB



**IP4MIBC-28-SDA-NCV**  
4MP IP Bullet Camera w/  
Built-in Mic & Edge



**IP5MIAB-28-FC-NCV**  
5MP Full Color IP  
Camera w/Built-In Mic



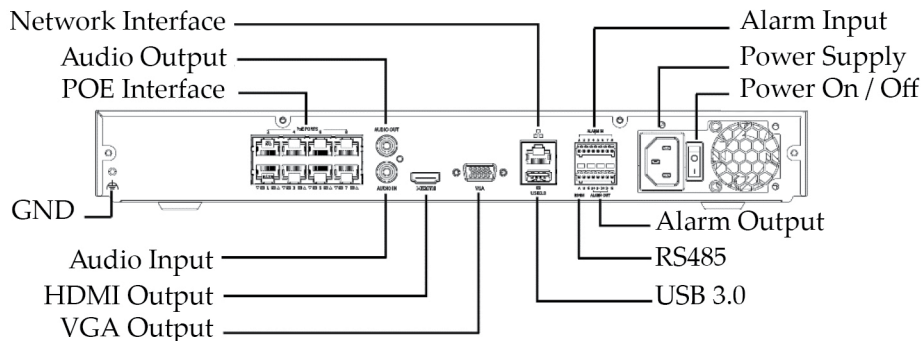
**IP5MPTZ-4XAD-NCV**  
5MP Mini PTZ w/  
Active Deterrence

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## Backplate



## Dimensions

