

# OPTIVIEW

## NVR16-8B-NCV

16 Channel 4K 2U NVR with Analytics



### Smart Intrusion Prevention

Significantly reduce false alarms by accurately detection human and vehicle detection in zones.



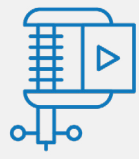
### People Counting

Detect and track targets using Optiview's advanced image technology by with up to 4 customizable areas.



### Dewarp

Fully dewarp Fisheye and 360° Panoramic cameras on the native NVR in both live and playback mode



### Ultra 265

Ultra 265 helps you save up to 95% storage space and up to 75% storage cost



### 16MP 4K IP

Up to 16MP resolution for preview and playback and a maximum bandwidth of 320Mbps.

## 4K RESOLUTION

4K resolution captures images four times the pixel density of 1080P which means that the finer details, such as faces or smaller items can be viewed with more detail than traditional 1080P surveillance.

## PEOPLE COUNTING

The NVR16-8B-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.

## 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.

## LPR

LPR or License Plate Recognition allows you to easily monitor and protect parking lots, entrances, and exits and more. This works by automatically capturing vehicle license plate images, and then recognizing license plate numbers and letters. During Playback you can perform a search for license plates by time and date and see each plate meet your criteria.

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## DEWARP

With wider view cameras comes increasing image distortion. Dewarp allows real-time conversion of wide-angle images into clear flat views. With multiple view options, configure your view to exactly the points of interests you care about the most.

## 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.

## BANDWIDTH

With a higher throughput of 160 Mbps your IP network cameras can record at higher frame rates and resolutions without maxing out.

## 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.

## 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

VIDEO / AUDIO INPUT	
IP Video Input	16 Channel
Audio Input	1-ch, RCA

NETWORK	
Incoming Bandwidth	320 Mbps
Outgoing Bandwidth	160 Mbps
Remote Users	128
Protocols	TCP / IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP
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

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	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	16-ch
Live View Display	VGA: 1 / 4 / 6 / 8 / 9 / 16 HDMI: 1 / 4 / 6 / 8 / 9 / 16
Corridor Mode Screen	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16



### PRODUCT SPECIFICATIONS CONT.

SNAPSHOT	
FTP / Schedule / Event Snapshot	4-ch Snapshot, Up to D1 Resolution

DECODING	
Decoding Format	Ultra 265 / H.265 / H.264
Live View / Playback	12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Capability	<p>Ultra 265 / H.265: 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, 36 x 720p @ 30, 64 x D1</p> <p>H.264: 2 x 12MP @ 30, 2 x 4K @ 30, 4 x 5MP @ 30, 6 x 4MP @ 30, 8 x 3MP @ 30, 14 x 1080p @ 30, 28 x 960p @ 25, 30 x 720p @ 30, 64 x D1</p>

HARD DISK	
SATA	8 SATA Interfaces
Capacity	Up to 16 TB for Each Disk
Disk Group	Support

SMART	
VCA Detection by Camera	Face Detection, Vehicle Detection, Temperature Detection, Smart Intrusion Prevention, Ultra Motion Detection, Video Metadata, Traffic Monitoring, Human Detection, Non-Motor Vehicle Detection, Intrusion, Cross Line, Enter Area, Leave Area, People Counting, Dual Lens, Dewarp, License Plate Recognition, Scene Change, Object Left Behind, Object Removed, Auto Tracking, Defocus Detection
VCA Search	Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report
Smart by IPC	All channels (up to 8 images/s in total) Face Detection, Vehicle Detection, Temperature Detection, Smart Intrusion Prevention, Ultra Motion Detection, Video Metadata, Traffic Monitoring

GENERAL ALARM	
General Alarm	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

EXTERNAL INTERFACE	
Network Interface	2 RJ-45 10M / 100M / 1000M self-adaptive Ethernet Interface
USB Interface	Front: 2 x USB 2.0, Rear Panel: 1 x USB 3.0
RS232	N / A
RS485	1
Alarm In	16-Ch
Alarm Out	4-Ch

GENERAL	
Power Supply	100 ~ 240V AC Power Consumption: ≤ 32W ( without HDD )
Working Environment	14°F ~ 131°F, Humidity ≤ 90% RH ( non-condensing )
Dimensions	17.4" ( W ) x 16.8" ( D ) x 3.5" ( H )
Weight ( Without HDD )	8.80 lbs

CERTIFICATIONS	
Certification	CE, FCC, UL, RoHS, WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part 15 Subpart B

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## ADDITIONAL PRODUCTS



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



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



**IP4MIBC-212-SDAI-NCV**  
4MP VF Bullet Camera with Analytics

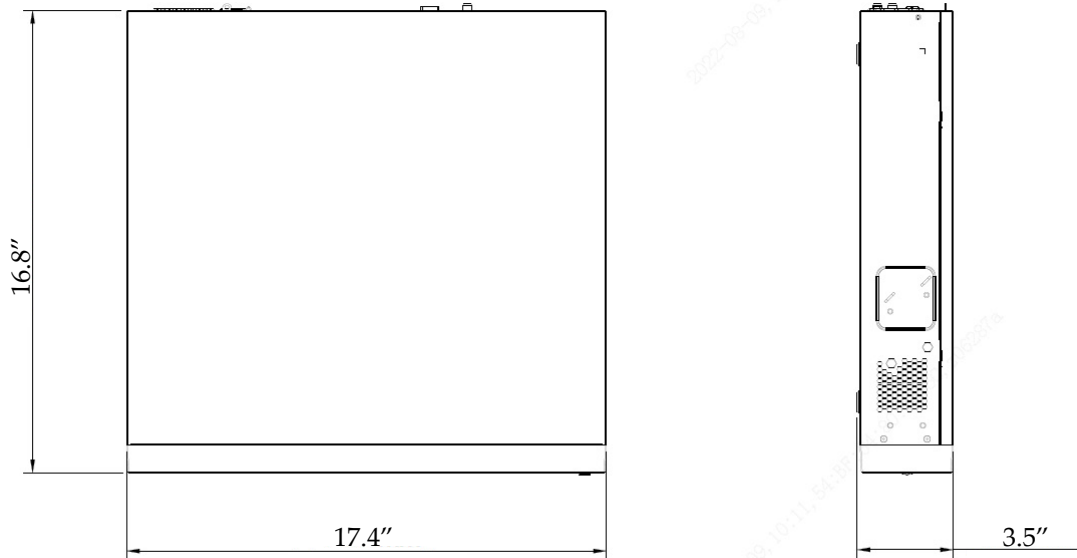


**IP4MIAB-28-SDA-NCV**  
4MP Fixed Lens Armor Ball IP Camera



**IP4MIAD-212-Z-NCV**  
4MP Motorized Zoom Armor Dome IP Camera

## DIMENSIONS



## REAR PANEL

