



# 16MP 16 Channel 16 PoE 1U NVR w/ Analytics

SKU: NVR16P16-2B-NCV

- 16 Ch PoE at 30W per port up to max 240W
- 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



## 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 Smart Intrusion Prevention, 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 object 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 area detection.

## Dewarp

The NVR16P16-2B-NCV gives you the ability to dewarp a 360° panoramic camera in realtime or in playback gives the user a much larger variety of views to choose from when live monitoring, or after an event occurs. You have 9 modes to choose from, and the perspective of the camera can be adjusted for ceiling, wall, or counter top installation.

## 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 NVR16P16-2B-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.

# Spec Sheet: NVR16P16-2B-NCV

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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.

## Crowd Density

With deep learning algorithm, the NVR16P16-2B-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      | 16-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<br>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 | 16-ch  |
| Liveview display     | 1 / 4 / 6 / 8 / 9 / 16   |
| Corridor Mode Screen | 3 / 4 / 5 / 7 / 9 / 10 / 12 / 16   |

| 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 |

| 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<br>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 |

| SMART   |   |
|---|---|
| VCA Detection by Camera   | Smart Intrusion Prevention, Vehicle Detection, Ultra Motion Detection, Traffic Monitoring, Face Detection, Human Detection, Vehicle Detection, Non-Motor Vehicle Detection, Intrusion, Cross Line, Enter Area, Leave Area, Temperature Detection, Dual Lens, Dewarp, License Plate Recognition, Scene Change, 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, Crowd Density Monitoring  |
| People Counting   | People Flow Counting, Crowd Density Monitoring  |
| Smart Intrusion Prevention, Vehicle Detection, Ultra Motion Detection, Video Metadata, Traffic Monitoring by Camera | Total 8-ch  |

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

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## Product Specifications Cont.

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

| 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                                |

| 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  |

| POE                |  |
|--------------------|--|
| Interface          | 16 RJ-45 10M/100M self-adaptive Ethernet Interface |
| Max Power          | Max 30W for single port<br>Max 240W in total       |
| Supported Standard | IEEE 802.3af/at                                    |

| GENERAL              |   |
|----------------------|---|
| Power Supply         | 100~240V AC<br>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  |

| 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

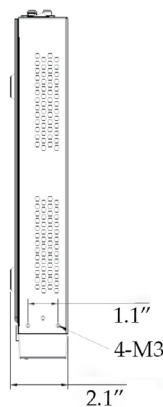
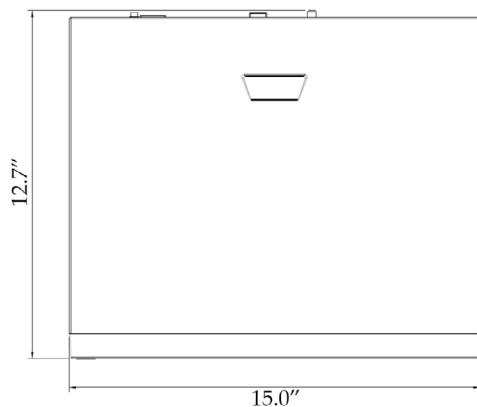


**IP8MIAB-212-NCV**  
8MP 4K Varifocal  
Armor Ball w/ Analytics



**IP4MPTZ25SIR-NCV**  
4MP 25X STARLIGHT  
IP PTZ Camera

## Dimensions



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## Backplate

