



# HDVR164K-Q2-NCV

16 Channel 5-Way 4K 1U DVR



### 4K Over Coax

Record up to 16 channels at 4K video resolutions and H.265 for video compression.



### Smart Intrusion Prevention

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



### Audio over Coax

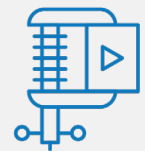
This integrated design helps reduce wiring troubles translating to lower costs

# 112

Mbps

### Bandwidth

Max 112Mbps, Incoming Bandwidth



### H.265

Reduce bit rate and storage requirements by utilizing H.265 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 mater the most to you. Ultra Motion Detection can be configured to your full screen or area detection.

## 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.

## 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.

## H.265 COMPRESSION

Utilizing H.265 advanced video encoding, provides high-quality video while reducing the storage space needed to retain your video events.

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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.

## PRODUCT SPECIFICATIONS

VIDEO / AUDIO INPUT	
Analog Video Input	16-ch, BNC
IP Video Input	8-ch(only IP up to 24ch), each channel up to 8MP
Supported Analog Camera Types	<b>Support AHD input:</b> 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080P @ 30fps, 720P @ 60fps <b>Support TVI input:</b> 8MP @ 15fps, 5MP @ 20fps, 4MP @ 30fps, 1080P @ 30fps, 720P @ 60fps <b>Support CVI input:</b> 8MP @ 15fps, 5MP @ 25fps, 4MP @ 30fps, 1080P @ 30fps, 720P @ 30fps <b>Support CVBS input</b>
Audio Input	1-ch, RCA
Audio Compression	G.711U

VIDEO / AUDIO OUTPUT	
CVBS Output	1-ch, BNC
VGA Output	1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
HDMI Output	4K(3840 x 2160) / 30Hz, 1920 x 1080p / 60Hz, 1920 x 1080p / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
Audio Output	1-ch, RCA
Synchronous Playback	16
Live View Display	HDMI/VGA: 1 / 4 / 6 / 8 / 9 / 16 / 25
Two-Way Audio	1-ch, RCA

NETWORK	
Incoming Bandwidth	80Mbps (Up to 112Mbps after all analog channel conversion)
Outgoing Bandwidth	160Mbps

NETWORK	
Remote Users	128
Protocols	TCP/IP, P2P, UPnP, DHCP, HTTP, HTTPS, DNS, DDNS, 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

SMART	
Analog Smart by DVR	Smart Intrusion Prevention, Ultra Motion Detection, Human Detection, Vehicle Detection, Non-Motor Vehicle Detection, Intrusion, Cross Line, Enter Area, Leave Area
VCA Search	Face Search, Behavior Search, People Counting
Smart Functions by DVR	8-ch Ultra Motion Detection, 4-ch Smart Intrusion Prevention

ENCODING	
Recording Resolution	8MP Lite / 5MP / 5MP Lite / 4MP Lite / 1080P / 720P / CIF
Recording Frame Rate	<b>Main stream:</b> 8MP Lite @ 8fps, 5MP Lite @ 12fps, 4MP Lite @ 15fps, 1080P @ 15fps, 720p @ 30fps <b>Sub stream:</b> D1 @ 8fps, D1 @ 12fps, D1 @ 15fps, D1 @ 15fps, D1 @ 30fps
Audio Sample Rate	8KHz, 16 bit per channel
Audio Bit Rate	64Kbps per channel

DECODING	
Capability	<b>Analog:</b> 16 x 8MP Lite @ 8, 16x 5MP Lite @ 12, 16x 4MP Lite @ 15, 16 x 1080P @ 15, 16 x 720 @ 30 <b>IP:</b> 24 x D1 @ 30, 16 x 720P @ 30, 8 x 1080P @ 30

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## PRODUCT SPECIFICATIONS CONT.

HARD DISK	
SATA	2 SATA interface
Capacity	Up to 8TB for each HDD

GENERAL ALARM	
General Alarm	Motion Detection

GENERAL ALARM	
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 RJ45 10M/100M/1000M self-adaptive Ethernet Interface
USB Interface	Rear panel: 1 x USB3.0, Front panel: 1 x USB2.0
Serial Interface	1 x RS485
Alarm In	4-ch
Alarm Out	1-ch

GENERAL	
Power Supply	12V DC Power Consumption: ≤ 10 W
Working Environment	+14°F ~ +131°F, Humidity ≤ 90% RH(non-condensing)
Dimensions	15.0" (W) × 12.8" (D) × 2.1" (H)
Weight	4.4lb

CERTIFICATION	
Certification	UL / CE / FCC / RoHS / WEEE

## ADDITIONAL PRODUCTS



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



**SURVEILLANCE DRIVES**  
4TB / 8TB



**HDCD5ML-VMA**  
5MP HD Armor Ball Camera w/ Built-in Mic

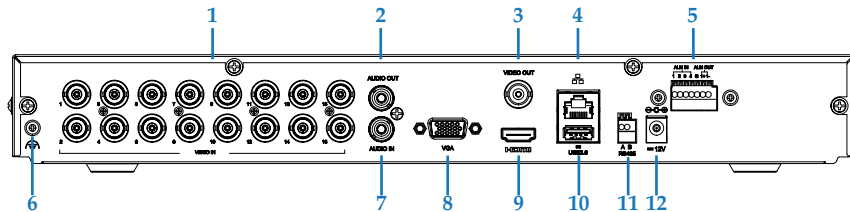


**HDCB5M-28S**  
5 MP HD Wide Angle Bullet Camera w/ Mic



**HDPTZ4M-30S**  
4MP HD-over-Coax PTZ Camera with 30X Zoom

## BACKPLATE



- |                      |                 |                |
|----------------------|-----------------|----------------|
| 1. Video Input       | 5. Alarm In/Out | 9. HDMI Output |
| 2. Audio Output      | 6. Ground       | 10. USB3.0     |
| 3. Video Out         | 7. Audio Input  | 11. RS485      |
| 4. Network Interface | 8. VGA Output   | 12. DC Power   |

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## DIMENSIONS

