



# HDVR324K-Q2-AI

32 Channel 5-Way 4K 1U DVR with Analytics



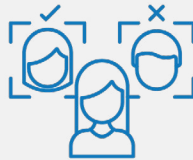
### Perimeter Protection

Combine Tripwire & Intrusion with object detection (people or vehicles) for advanced motion detection.



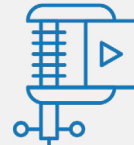
### ID+

Advanced motion detection that filters out false alarms and only triggers with people or vehicles.



### Face Recognition

Detect & Recognize faces that are and are not (stranger mode) in a database. Pair with Access Control.



### AI Coding

AI Coding can help reduce more than 50% bit rate and storage compared to H.265 and H.264



### 4K Over Coax

Record up to 32 channels at 4K video resolutions and H.265 / AI Coding for video compression.

## PERIMETER PROTECTION

Combine multiple tripwire and intrusion rules with object (people or vehicle) detection to enable advanced motion detection alarms and alerts. Ideal for crosswalks, parking lots, communities, lawns, schools, and more.

### ID+

Intelligent Motion Detection Plus, or ID+, is an upgraded version of ID that greatly improves the alarm accuracy only triggering motion detect when people or vehicles are detected, filtering out tree movement, lighting changing, and more.

## REAL TIME FACE RECOGNITION

The HDVR324K-Q2-AI 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.

## SMART NIGHT COLOR

With Smart Night Color technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the ID+/Perimeter Protection function of AI-enabled recorders. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

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## SCHEDULED AI

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

## AUDIO OVER COAX

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

## ONE-CLICK ARMING/DISARMING

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

## CUSTOMIZABLE ALARM AUDIO

Designed for your convenience, the alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and recorder.

## AI CODING

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

## PRODUCT SPECIFICATIONS

SYSTEMS	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

PERIMETER PROTECTION	
Perimeter Performance AI by Recorder	Advanced Model: 6 channels, 10 rules for each channel
	General Model: 12 channels, 10 rules for each channel

FACE DETECTION	
Face Attributes	Gender; Age Group; Glasses; Expressions; Face Mask; Beard
Face Detection Performance of AI by Recorder	6 channels (up to 12 face images each channel)

FACE RECOGNITION	
Face Database Capacity	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image
Face Recognition Performance of AI by Recorder	6 channels

ID+	
ID+ Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change

AUDIO AND VIDEO	
Analog Camera Input	32 BNC ports, supports HDCVI / AHD / TVI / CVBS auto-detect
Camera Input	CVI: 4K @ 25/30 fps; 6 MP @ 20 fps; 5 MP @ 25 fps; 4 MP @ 25/30 fps; 1080p @ 25/30 fps; 720p @ 25/30 fps; 720p @ 50/60 fps.
	TVI: 4K @ 15 fps; 5 MP @ 20 fps; 4 MP @ 25/30 fps; 3 MP @ 25/30 fps; 1080p @ 25/30 fps; 720p @ 25/30 fps.
	AHD: 4K @ 15 fps; 5 MP @ 20 fps; 4 MP @ 25/30 fps; 3 MP @ 25/30 fps; 1080p @ 25/30 fps; 720p @ 25/30 fps.
IP Camera Input	Up to 32 channels of IPC access
	32 channels (analog channels are converted to IP channels)
	Incoming Bandwidth: 128 Mbps Recording Bandwidth: 128 Mbps Outgoing Bandwidth: 128 Mbps
Encoding Capacity	Main stream: 4K @ (1fps - 7fps); 6 MP @ (1fps - 10fps); 5 MP @ (1fps - 12fps); 4K-N, 4 MP, 3 MP @ (1fps - 15fps); 4M-N, 1080p, 720p, 960H, D1, CIF @ (1fps - 25/30fps);
	Sub stream: 960H @ (1fps - 15fps); D1 / CIF @ (1fps - 25/30fps)

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## PRODUCT SPECIFICATIONS CONT.

AUDIO AND VIDEO CONT.	
Dual-Stream	Yes
Video Bit Rate	32 kbps – 6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Multi-screen Display	1 / 4 / 8 / 9 / 16 / 25 / 36
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung

COMPRESSION STANDARD	
Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264
Audio Compression	G.711a; G.711u; PCM

NETWORK	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 2.1.2; CGI
Browser	Chrome, IE9 or later, Firefox
Network Mode	Single-address mode

RECORDING PLAYBACK	
Record Mode	General, Motion Detection; Intelligent; Alarm; POS
Recording Playback	1 / 4 / 9 / 16
Backup Method	USB device and network
Playback Mode	Instant Playback, General Playback, Event Playback, Tag Playback, Smart Playback (Face and Motion Detection)

STORAGE	
Disk Group	Yes

ALARM	
General Alarm	Motion Detection; Video Loss; Tampering; Local Alarm
Anomaly Alarm	No Disk; Storage Error; Disk Full; Camera Offline; IP conflict; MAC conflict
Intelligent Alarm	Face Detection; Face Recognition; Perimeter Protection
Alarm Linkage	Record; Snapshot (panoramic); IPC External Alarm Output; Access Controller; Voice Prompt; Buzzer; Log; Preset; Email

PORTS	
TV Output	1 channel
Audio Input	1-channel RCA 32-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	2 SATA ports, up to 10TB capacity for each disk. The maximum HDD capacity varies with environment temperature.
RS-485	1 port, for PTZ control
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 ports)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

GENERAL	
Power Supply	DC 12V, 5A
Power Consumption	<32 W (without HDD)
Net Weight	5.52 lb
Gross Weight	9.04 lb
Product Dimensions	14.76" × 13.17" × 2.09" (W × D × H)
Packaging Dimensions	17.68" × 6.70" × 16.58" (W × D × H)
Operating Temperature	14 °F to +131 °F
Operating Humidity	10% – 90% (RH)
Installation	Rack or Desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

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## ADDITIONAL PRODUCTS



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



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



**HDCD5M-28A-LED**  
5MP Full Color HD-Over-Coax w/ Built-In Mic

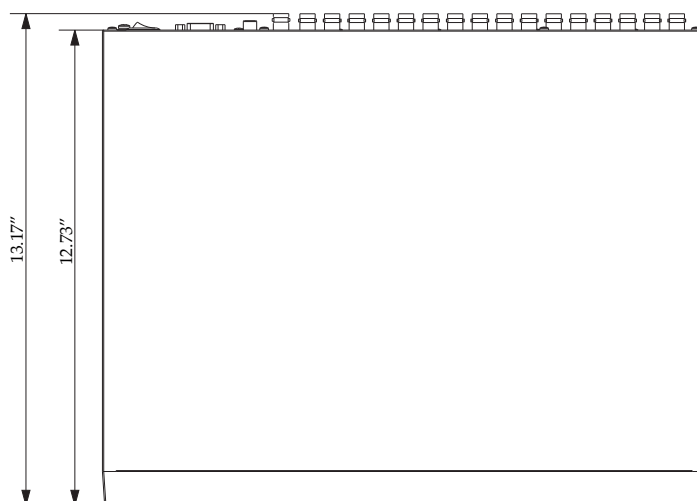
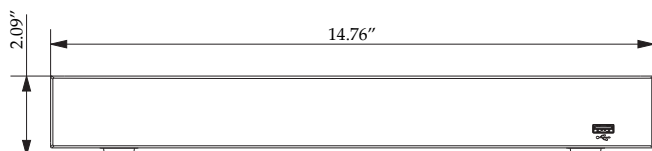


**HDCAD4K-311MU**  
4K / 8MP Varifocal HD Armor Dome Camera

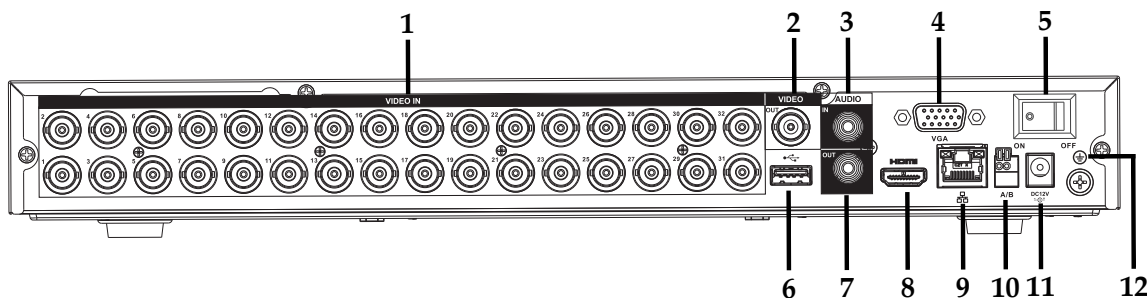


**HDPTZ4M-30S**  
4MP HD-over-Coax PTZ Camera with 30X Zoom

## DIMENSIONS



## BACKPLATE CALLOUT



- |                            |                             |                 |
|----------------------------|-----------------------------|-----------------|
| 1. VIDEO IN                | 5. Power Switch             | 9. Network Port |
| 2. VIDEO OUT               | 6. USB Port                 | 10. RS-485 Port |
| 3. Audio In, RCA Connector | 7. Audio Out, RCA Connector | 11. Power Input |
| 4. VGA Port                | 8. HDMI Port                | 12. Ground      |