



# DH-XVR7108HE-4K-I3

# 8CH Penta-brid 4K Mini 1U 1HDD WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR7000-4K-I3 Series featuring max.full-channel SMD Plus to benefit customers from Al upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

#### **Functions**

#### Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

\*Face Recognition conflicts with SMD Plus and Perimeter Protection.

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

#### **SMD Plus**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### AI Coding-ABR

Compared with H.265, Al coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

- 2-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 1-channel Privacy Protection for analog channels which supports masking and restoring human faces that are detected in real time.
- 8-channel SMD Plus for analog channels or 16-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 8-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 8-channel Al Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- · Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 16-channel IP camera input and each channel can be up to 8 MP. The incoming bandwidth reaches 128 Mbps.
- · Smart H.265+ and H.265 dual-stream video compression.

















#### QuickPick 2.0

By employing the back-end perimeter protection algorithm, QuickPick 2.0 not only retains the capability to identify the color of clothing and vehicles, which was offered by its predecessor QuickPick 1.0, but it also possesses the enhanced ability to detect various types of hats, clothing and vehicles, thus greatly improving the accuracy of the search function.

#### **Privacy Protection**

Dahua Privacy Protection technology is capable of masking detected human faces and subsequently removing the mask, ensuring the privacy of specific individuals is protected.

#### Irregular Black Block Masking

Dahua's black block masking function supports the use of irregular shapes for masking, ensuring privacy in public and private locations.

#### HDMI (4K)

The HDMI port can support up to 4K output, delivering clear and highly detailed images.

Technical Specificatio	n				
System					
Main Processor	Industrial-grade processor	Camera Input	Camera Input		
Operating System	Embedded Linux				
Operating Interface	Web; Local GUI				
Quick Pick					
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels	IP Camera Input	IP Camera Input		
Perimeter Protection					
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 8 channels, 10 IVS rules for each channel				
Face Detection					
Face Attributes	6 attributes				
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)	Encoding Capacity	Encoding Capacity		
Privacy Protection					
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel				
Face Recognition		Dual-stream			
Face Database Capacity	Up to 10 face databases with 20,000 images.	Video Bit Rate			
Face Recognition	2 channels	Audio Sampling			
Performance of AI by Recorder (Number of		Audio Bit Rate			
Channels)					
SMD Plus SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output			
SMD Plus by Camera	16 channels	Multi-screen Display			
Al Video Quality Anal	ytics	widiti-screen display	١		
Al Video Quality Analytics	8 channels: Supports detecting brightness levels, color	Third-party Camera			
by Recorder	cast, defocus, overexposure, contrast levels, black and white	Compression St	Compression Standard		
Scene Changing		Video Compression			
Scene Changing by		Audio Compression			
Recorder	1 channel	Network			
Irregular Black Block Masking					
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	Network Protocol		
Audio and Video		Mobile Phone Acces	S		
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Interoperability			
	detect	Browser			

Recording Playback						
Record Mode	General; alarm; motion detection; intelligent; POS					
Recording Playback	1/4/9					
Backup Method	USB device and network					
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback					
Alarm						
General Alarm	Motion detection; local alarm; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm					
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline					
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus					
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; audio; buzzer; log; preset; email					
Ports						
Audio Input	8-channel BNC (Coaxial Audio)					
Audio Output	1-channel RCA					
Two-way Talk	Yes (share the same audio input with the first channel)					
Alarm Input	8 channels					
Alarm Output	3 channels					
Disk Interface	$1\mbox{SATA}$ port. up to $16\mbox{TB}.$ This limit varies depending on the environment temperature.					
RS-485	1					
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)					
HDMI	1					
VGA	1					
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)					
General						
Power Supply	12 VDC, 3 A					
Power Consumption	<15 W (without HDD)					
Net Weight	1.40 kg (3.09 lb)					
Gross Weight	2.10 kg (4.63 lb)					
Product Dimensions	325.0 mm × 254.3 mm × 55.0 mm (12.80" × 10.01" × 2.17") (W × D × H)					
Packaging Dimensions	372.0 mm $\times$ 117.0 mm $\times$ 308.0 mm (14.65" $\times$ 4.61" $\times$ 12.13") (W $\times$ D $\times$ H)					
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)					
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)					
Operating Humidity	10%–90% (RH), non-condensing					
Installation	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					

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR7108HE-4K-I3	8CH Penta-brid 4K Mini 1U 1HDD WizSense Digital Video Recorder			

### Accessories

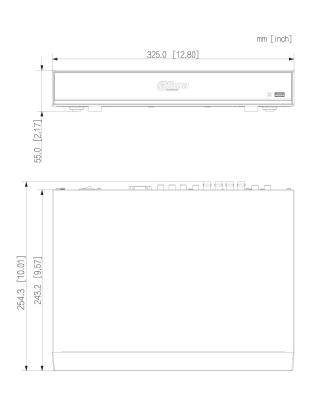
## Optional:



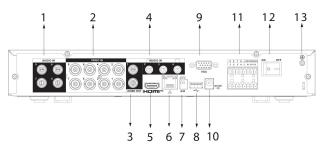


DHI-ARB1606 Alarm Box

## Dimensions (mm[inch])



#### **Panels**



- 1 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 5 HDMI Port
- 7 RS-485 Port
- 9 VGA Port
- 11 Alarm In/Out
- 13 Ground

- 2 VIDEO IN
- 4 AUDIO IN, RCA Connector
- 6 Network Port
- 8 USB Port
- 10 Power Input
- 12 Power Switch