

DH-XVR7104H-4K-I3

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



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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 AI 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, AI 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.
- 4-channel SMD Plus for analog channels or 8-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 4-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.
- 4-channel AI 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 8-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.

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Technical Specificatio	n		1. CVI: 4K@25/30 fps; 4K@12.5/15 fps; 6 MP@20
System			fps; 5 MP@25 fps; 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fp
Main Processor	Industrial-grade processor	Camera Input	 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; MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps;
Operating System	Embedded Linux		
Operating Interface	Web; Local GUI		Up to 8 channels of IPC access
Quick Pick			4 IP channels by default + 4 channels (analog channels are converted to IP channels)
QuickPick 2.0 AI by Recorder (Number of Channels)	2 channels	IP Camera Input	Incoming bandwidth: 128 Mbps, recording bandwidt 128 Mbps and outgoing bandwidth: 128 Mbps *After IP extension is enabled, Video Quality Analytic Scene Changing, Face Recognition, Face Detection,
Perimeter Protection			SMD, Perimeter Protection, QuickPick 2.0 and Privac Protection cannot be used.
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each channel		Encode Enhancement disabled : Main stream: 4K@(1 fps-15 fps); 6 MP@(1 fps-20 fps); 5 MP, 4K-N MP,3 MP, 1080p, 720p, 960H, D1, CIF@(1 fps-25/30 fps) Sub stream: 960H@(1 fps-15 fps);D1,CIF@(1 fps-25/30 fps) Encode Enhancement enabled : Main stream: the 1st channel 4K@(1 fps-30 fps), others 4K@(1 fps 15 fps); 6 MP@(1 fps-20 fps); 5 MP, 4K-N,4 MP,3 MP, 1080p, 720p, 960H, D1, CIF@(1 fps-25/30 fps) Sub stream: 960H@(1 fps-15 fps); D1/CIF@(1 fps-25/30 fps) *When Encode Enhancement is enabled, Video Quali Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection, QuickPick 2.0 and Privacy Protection cannot be used.
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	
Privacy Protection			
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel		
Face Recognition		Dual-stream	Yes
Face Database Capacity	Up to 10 face databases with 20,000 images.	Video Bit Rate	32 kbps–8192 kbps
Face Recognition	2 channels	Audio Sampling	8 kHz, 16 bit
Performance of AI by Recorder (Number of Channels)		Audio Bit Rate	64 kbps
SMD Plus			1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 128
SMD Plus by Recorder	4 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources outpu VGA and HDMI is configurable.
SMD Plus by Camera	8 channels	Multi-screen Display	When IP extension mode not enabled: 1/4
Al Video Quality Analy	ytics		When IP extension mode enabled: 1/4/8/9
AI Video Quality Analytics	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
by Recorder		Video Compression	Compression Standard
Scene Changing		Audio Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.20
Scene Changing by	1 channel	Network	G.711a; G.711u; PCM
Recorder Irregular Black Block Masking		NELWOIK	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DI
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SMMP; Alarr Server; P2P; Auto Registration; IP Search (Supports I camera, DVR, NVS, etc.)
Audio and Video		Mobile Phone Access	iOS; Android
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK
	detect	Browser	Chrome; IE; Safari; Edge; Firefox

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Recording Playback

Recording Playback				
Record Mode	General; alarm; motion detection; intelligent; POS			
Recording Playback	1/4			
Backup Method	USB device and network			
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback			
Alarm				
General Alarm	Motion detection; 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); IPC external alarm output; audio; buzzer; log; preset; email			
Ports				
Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)			
Audio Output	1-channel RCA			
Two-way Talk	Yes (share the same audio input with the first channel)			
Disk Interface	1 SATA port. up to 16 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, 2 A			
Power Consumption	<10 W (without HDD)			
Net Weight	1.00 kg (2.21 lb)			
Gross Weight	1.70 kg (3.75 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 × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × 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-XVR7104H-4K-I3	4CH Penta-brid 4K Mini 1U 1HDD WizSense Digital Video Recorder

Accessories

Optional:







DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

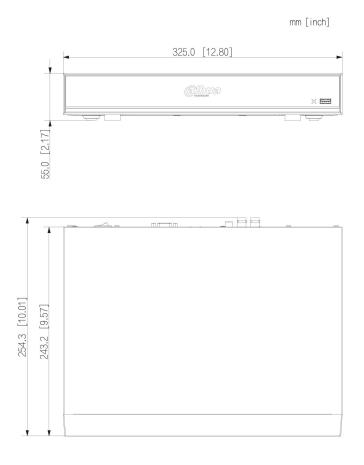
DHI-SSD-V800S1TB SSD

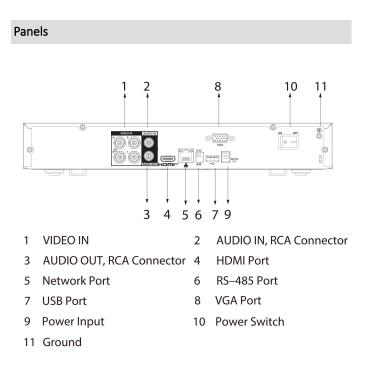


DHI-ARB1606 Alarm Box

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Dimensions (mm[inch])





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