

DH-XVR5108HS-4KL-I3

8CH Penta-brid 4K Value/5MP Compact 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, XVR5000-4KL-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.

- * The information below only applies to hardware version 2.0. of the product.
- 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 Al.
- 2-channel face recognition for analog channels which supports face comparison.
- 8-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 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.

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Technical Specification	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	2. 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
Operating System	Embedded Linux		3. 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 Interface	Web; Local GUI		Up to 16 channels of IPC access
Quick Pick		IP Camera Input	8 IP channels by default + 8 channels (analog channel are converted to IP channels) Incoming bandwidth: 128 Mbps, recording bandwidth 128 Mbps and outgoing bandwidth: 128 Mbps *After IP extension is enabled, Video Quality Analytics Scene Changing, Face Recognition, Face Detection,
QuickPick 2.0 AI by Recorder (Number of Channels)	2 channels		
Perimeter Protection			SMD, Perimeter Protection, QuickPick 2.0 and Privacy Protection cannot be used.
Perimeter Performance Al 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		Encode Enhancement disabled : Main stream: 4K@(1 fps-7 fps); 6 MP@(1 fps-10 fps); 5 MP@(1 fps 12 fps); 4K-N/4 MP/3 MP@(1 fps-15 fps); 4M-N/1080 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, 5th channel 4K@(1 fps-15 fps), others 4K@(1 fps-7 fps); the 1st, 5th channel 6 MP@(1 fps-20 fps), others 6
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)		
Privacy Protection		Encoding Capacity	MP@(1 fps-10 fps); the 1st, 5th channel 5 MP@(1 fps-25 fps), others 5
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel		MP@(1 fps-12 fps); the 1st, 5th channel 4K-N/4 MP/3 MP@(1 fps-25/30 fps), others 4K-N/4 MP/3 MP@(1 fps-15 fps); 4K/6 MP@(1 fps-10 fps);5 MP@(1 fps-12 fps); 4K- N/4 MP/3 MP@(1 fps-15 fps); 4M-N/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 Recognition			
Face Database Capacity	Up to 10 face databases with 20,000 images.		
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels		
SMD Plus		Dual-stream	Yes
51010 1 103	8 channels: Secondary filtering for human and vehicle,	Video Bit Rate	32 kbps–6144 kbps
SMD Plus by Recorder	reducing false alarms caused by leaves, rain and lighting	Audio Sampling	8 kHz, 16 bit
SMD Plus by Camera	condition change	Audio Bit Rate	64 kbps
Al Video Quality Anal			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 VGA and HDMI is configurable.
Al Video Quality Analytics by Recorder	8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Video Output	
Scene Changing		Multi-screen Display	When IP extension mode not enabled: $1/4/8/9$
Scene Changing by Recorder	1 channel	Third-party Camera Access	When IP extension mode enabled: 1/4/8/9/16 Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
Irregular Black Block Masking		Compression Standard	
Irregular Black Block Masking by Recorder	1 channel	Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.26
Audio and Video		Audio Compression	G.711a; G.711u; PCM
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect		

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Network

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Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)				
Mobile Phone Access	iOS; Android				
Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK				
Browser	Chrome; IE; Safari; Edge; Firefox				
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; 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 8-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	1.40 kg (3.09 lb)				
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H)				
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.12" × 3.51" × 12.41") (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-XVR5108HS-4KL-I3	8CH Penta-brid 4K Value/5MP Compact 1U 1HDD WizSense Digital Video Recorder

Accessories

Optional:







DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

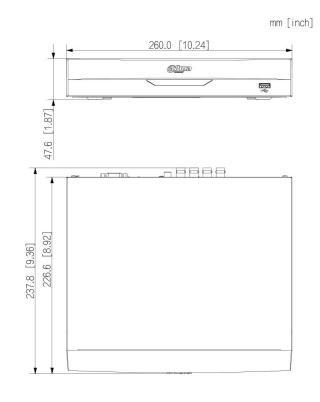


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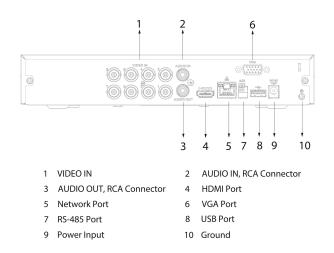
Alarm Box

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Dimensions (mm[inch])



Panels



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