

DH-XVR5108H-4KL-I3-8P

8CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder





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 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

PoC Series

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

Face Recognition

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

*The Face Recognition is conflicted 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.

- · H.265+/H.265 dual-stream video compression.
- · Supports Full-channel AI-Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- · Up to 8 channels video stream (analog channel) Perimeter Protection.
- · Up to 8 channels video stream (analog channel) SMD Plus.
- · Up to 2 channels video stream (analog channel) human face recognition.
- · IoT & POS functionalities.
- \cdot All-channel support PoC AT & AF camera. Auto recognize the PoC camera of different power consumptions.



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.

Smart Dual Illuminators

With Smart Dual Illuminators 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 SMD Plus/Perimeter Protection function of Al-enabled XVR. 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.

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 TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

AI Coding

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

Audio over Coax

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

System Main Processor Milled Recessor Video Capput FIDEO 1997 (2012) 2309 (2000 1200 1200 1200 1200 1200 1200 120	Technical Specificati	on		1 HDMI, 1 VGA
Main Processor				HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Operating system Femioded flow Operating system Web Local CUI Perimeter Protection Multi-screen Display Where IP extension mode not enabled: 1/4/8/PLG Perimeter Protection Common Standard of Commo		Industrial-grade processor	Video Output	VGA: 1920×1080 , 1280×1024 , 1280×720 *Simultaneous/heterogeneous video sources output for
Perimeter Protection Perimeter Of All Protection Performance of All Protect	Operating System	Embedded Linux		
Perimeter Protection	Operating Interface	Web; Local GUI	Multi-screen Display	
	Perimeter Protection	1	Third-party Camera	
Compression Sandard Compression Sandard Compression Sandard Sa				
Face Attributes Cender: age group; glasses: expressions; face mask; beard Network	,		Compression Stand	ard
Face Detection Performance of Al by Recorder (Number of Chamels) Face Recognition Face Details on the Commendation of Chamels (up to 12 face images/seach channel) Face Recognition Face Database Capacity Face Database Capacity Face Recognition Face Recogniti	Face Detection		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264
Performance of All by Performance of All by Performance of All by Recorder (Number) 10 to 10 face databases with 20,000 face images in total Name, pender, birthally, address, certificate type certificate ty	Face Attributes		Audio Compression	G.711a; G.711u; PCM
Record (Number of Channels (up to 12 face images)'s each channel Network Protocol DHC9; DNS; DDNS; P2P Channels (up to 12 face images) in the Channels DNS; DDNS; P2P No DDNS; P2P DNS; DDNS; DDNS; P2P DNS; DDNS; DDNS; P2P DNS; DDNS; DNS; DDNS; DDNS; DNS; DDNS; DDNS; DNS;	Face Detection		Network	
Face Recognition Face Database Capacity Up to 10 face databases with 20,000 face images in total Name gender, britdingly address, certificate type, certif	Recorder (Number of		Network Protocol	
Second part	·		Mobile Phone Access	iOS; Android
Face Database Capacity enficiency (countries regions and state can be added to each face image added to each face image Face Recognition Face	rade nedoginalon	total. Name, gender, birthday, address, certificate type,	Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Action of the companion of Alby Recorder (Number of Channels) Channels	Face Database Capacity		Browser	Chrome, IE9 or later, Firefox
Performance of Al by Recording Playback I/4/9 Anomaly Alarm I/4/9 Recording Playback I/4/9 Anomaly Alarm I/4/9 Recording Playback I/4/9 Anomaly Alarm I/4/8 Recording Playback I/4/9 Anomaly Alarm		,	Network Mode	Single-address mode
Record Mode General, motion detection; intelligent; alarm; POS Channels) SMD Plus by Recorder SMD Plus by Re	_	2 channels	Recording Playback	
8 channels: Secondary filtering for human and motor wehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 1. CVI: 4K@25/30 fps, 6 MP@20 fps; 5 MP@20 fps; 5 MP@20 fps; 5 MP@20 fps; 5 MP@25/30 fps; 1080po@25/30 fps;	•	2 channels	Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus by Recorder veitile, reducing isselarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetet Analog Camera Input 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetet Analog Camera Input 1 C.V.: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 1080p@25/30 fps; 1080p@25/3	SMD Plus		Recording Playback	1/4/9
Audio and Video Analog Camera Input B BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect on detection problems are proportionally alarm and problems are proportionally alarm and problems are problems and problems are proportionally alarm and problems are problems and problems are problems and problems are problems and problems are problems. The problems are problems are problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems. The problems are problems are problems are problems are problems are problems. The problems are problems are problems are problems are proble		vehicle , reducing false alarms caused by leaves, rain and	Backup Method	USB device and network
Analog Camera Input Seminar Supports Su	SMD Plus by Recorder		Playback Mode	
Analog Camera input detect Conficient Nation Camera Input	Audio and Video		Alarm	
Camera Input Ca	Analog Camera Input		General Alarm	Motion detection; video loss; tampering
2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 3 MP@25/30 fps; 720p@25/30 f		5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps. 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. 3. 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.	Anomaly Alarm	
3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 720p@25/30 fps; 3 MP@25/30 fps; 720p@25/30 fps; 720p@25/30 fps; 720p@25/30 fps. Up to 16 channels of IPC access 8 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps are added beyond the existing channels, the Al Function (IVS, SMD, FACE) will be disabled. Audio Output 1-channel RCA Two-way Talk Yes (share the same audio input with the first channel) 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. Brooding Capacity All Sata and	Camera Input		Intelligent Alarm	Face detection; face recognition; perimeter protection
Ports			Alarm Linkage	output; access controller; voice prompt; buzzer; log;
IP Camera Input incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 1-channel RCA 8-channel RCA 8-cha	IP Camera Input	8 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be	Ports	
channels, the Al Function (IVS, SMD, FACE) will be disabled. Two-way Talk Main stream: 4K@(1-7fps); 6 MP@(1-10fps); 5 MP@(1-12fps); 4K-N, 4 MP, 3 MP@(1-15fps); 6 MP@(1-12fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1-25/30fps); Sub stream: 960H@(1-15fps); D1/CIF@(1-25/30fps) Pual-stream Yes USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Wideo Bit Rate Audio Sampling 8 kHz, 16 bit VGA 1 - channel RCA Two-way Talk Yes (share the same audio input with the first channel) 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Video Bit Rate 64 kbps			Audio Input	
Encoding Capacity Main stream: 4K@(1-7fps); 6 MP@(1-12fps); 5 MP@(1-12fps); 4K-N, 4 MP, 3 MP@(1-15fps); 960H@(1-25/30fps) Sub stream: 960H@(1-15fps); D1/CIF@(1-25/30fps) Pual-stream Yes USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 kHz, 16 bit VGA 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature.			Audio Output	1-channel RCA
AK@(1-7fps); 6 MP@(1-10fps); 5 MP@(1-12fps); 4K-N, 4 MP, 3 MP@(1-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@ (1-25/30fps); Sub stream: 960H@(1-15fps); D1/CIF@(1-25/30fps) Pual-stream Yes USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Wideo Bit Rate Audio Sampling 8 kHz, 16 bit VGA 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 1 SATA port, up to 16 TB capacity varies with environment temperature. 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) 2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	Encoding Capacity	Main stream: 4K@(1-7fps); 6 MP@(1-10fps); 5 MP@(1-12fps); 4K-N, 4 MP, 3 MP@(1-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@ (1–25/30fps);	Two-way Talk	Yes (share the same audio input with the first channel)
Dual-stream Yes USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Video Bit Rate 32 kbps-6144 kbps HDMI 1 Audio Sampling 8 kHz, 16 bit VGA 1 Audio Bit Rate 64 kbps 64 kbps			HDD Interface	maximum HDD capacity varies with environment
Video Bit Rate 32 kbps-6144 kbps HDMI Audio Sampling 8 kHz, 16 bit VGA 1 Audio Bit Rate 64 kbps	Dual-stream	Yes	RS-485	1 port, for PTZ control
Audio Sampling 8 kHz, 16 bit VGA 1 Audio Bit Rate 64 kbps			USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
VGA 1 Audio Bit Rate 64 kbps			HDMI	1
			VGA	1
	Audio Bit Rate	64 kbps	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

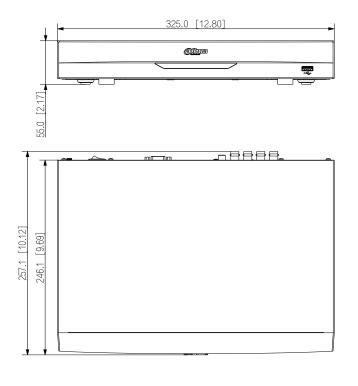
General

Power Supply	53 VDC, 1.812 A		
Power Consumption	<10 W (without HDD)		
Net Weight	1.20 kg (2.65 lb)		
Gross Weight	2.36 kg (5.20 lb)		
Product Dimensions	325.0 mm \times 257.1 mm \times 55.0 mm (12.80" \times 10.12" \times 2.17") (W \times D \times 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)		
Operating Humidity	10%-90% (RH)		
Installation	Rack or desktop		
Certifications	CE: CE-LVD: EN 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B		

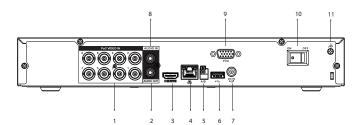
Ordering Information

Туре	Model	Description
8 Channels WizSense XVR	DH-XVR5108H-4KL- I3-8P	8CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder

Dimensions (mm[inch])



Panels



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