

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 to recognize the person identity.

*Face Recognition conflicts with SMD Plus and Perimeter Protection.

Perimeter Protection

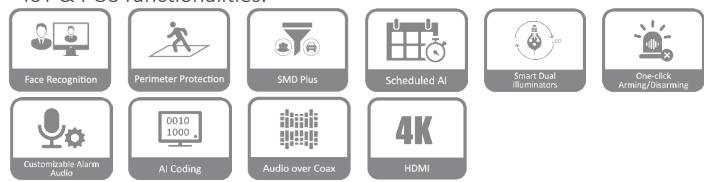
Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

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.

*** The parameters and datasheets below can only be applied to Hardware Version 2.0.**

- 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.



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 AI-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, AI 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

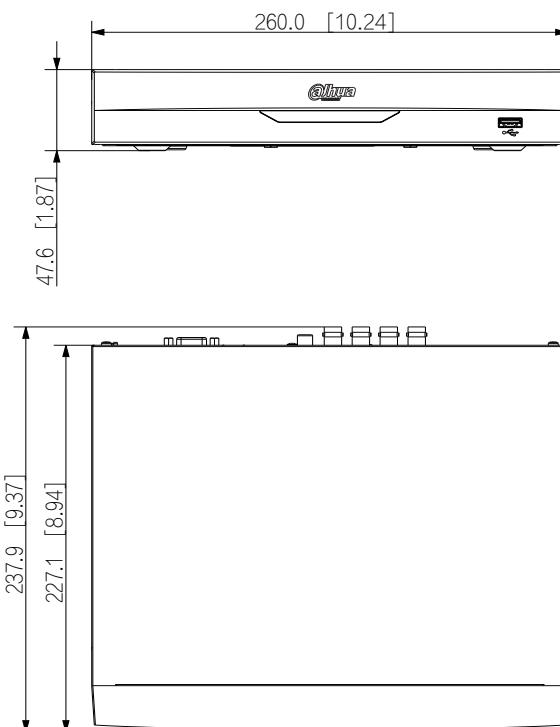
The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Technical Specification		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.
System		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
Main Processor	Industrial-grade processor	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
Operating System	Embedded Linux	Compression Standard	
Operating Interface	Web; Local GUI	Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264
Perimeter Protection		Audio Compression	G.711a; G.711u; PCM
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel	Network	
Face Detection		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Mobile Phone Access	IOS; Android
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel))	Interoperability	ONVIF 2.12(Profile T; Profile S; Profile G); CGI; SDK
Face Recognition		Browser	Chrome, IE9 or later, Firefox
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	Network Mode	Single-address mode
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels	Recording Playback	
SMD Plus		Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback	1/4/9
Audio and Video		Backup Method	USB device and network
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Camera Input	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 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	Alarm	
IP Camera Input	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 *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.	General Alarm	Motion detection; video loss; tampering
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@(1 fps-25/30fps)	Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict
Dual-stream	Yes	Intelligent Alarm	Face detection; face recognition; perimeter protection
Video Bit Rate	32 kbps–6144 kbps	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email
Audio Sampling	8 kHz, 16 bit	Ports	
Audio Bit Rate	64 kbps	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)
		HDD Interface	1 SATA port, up to 16TB 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 port)
		HDMI	1
		VGA	1
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

General

Power Supply	DC 12V, 2A
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 × 237.9 mm × 47.6 mm (10.24" × 9.37" × 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)
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

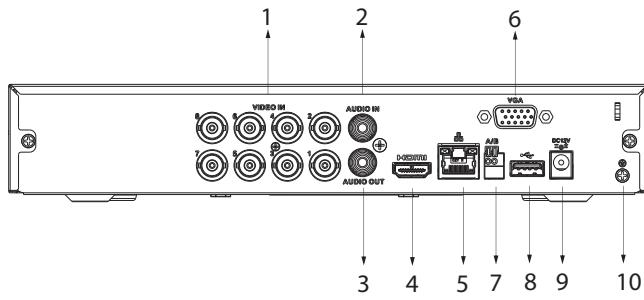
Dimensions (mm[inch])



Ordering Information

Type	Model	Description
8 Channels WizSense XVR	DH-XVR5108HS-4KL-I3	8CH Penta-brid 4K Value/5MP Compact 1U 1HDD WizSense Digital Video Recorder

Panels



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