

DH-XVR5108HS-4KL-I3

8 Channels Penta-brid 4K-N/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.

*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

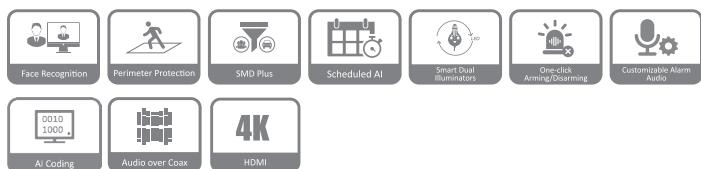
Perimeter Protection

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



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.

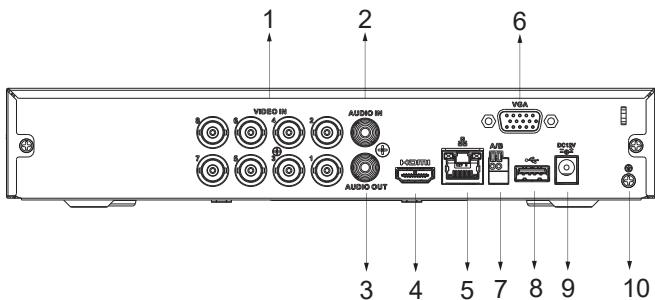
Audio over Coax

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

Technical Specification			
System			
Main Processor	Embedded processor	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.
Operating System	Embedded Linux	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
Operating Interface	Web; Local GUI	Third-party Camera Access	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
Perimeter Protection		Compression Standard	
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channel, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel	Video Compression	AI Coding/H.265+/H.265/H.264+/H.264
Face Detection		Audio Compression	G.711A/G.711u/PCM
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network	
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)	Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
Face Recognition		Mobile Phone Access	iPhone, iPad, Android
Face Database Capacity	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries®ions and state can be added to each face picture	Interoperability	ONVIF 21.06, CGI
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels	Browser	Chrome, IE9 or above, Firefox
SMD Plus		Network Mode	Single-address mode
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback	
Audio and Video		Record Mode	General, motion detection; intelligent; alarm; POS
Analog Camera Input	8 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect.	Recording Playback	1/4/9
Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.	Backup Method	USB Device/Network
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.	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Encoding Capacity	Main stream: All channel 4K@(1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N/4 MP/3 MP@ (1-15 fps); 4M-N/1080P/720P/960H/D1/CIF (1fps~25/30fps); Sub stream: 960H@ (1 fps~15 fps); D1/CIF@ (1 fps~25/30 fps)	Alarm	
Dual-stream	Yes	General Alarm	Motion detection, video loss, tampering
Video Frame Rate	PAL: 1 fps~25 fps. NTSC: 1 fps~30 fps.	Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
Video Bit Rate	32 Kbps~6144 Kbps Per Channel	Intelligent Alarm	Face detection, face recognition, perimeter protection
Audio Sampling	8 KHz, 16 bit	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
Audio Bit Rate	64 Kbps	Ports	
		Audio Input	1, RCA (external) 8, BNC (coaxial)
		Audio Output	1, RCA
		Two-way Talk	Yes (share the same audio input with the first channel)
		HDD Interface	1 SATA Port, up to 16TB, 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	DC12V, 2A

Power Consumption	Lower than 10 W
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.5 kg (3.31 lb)
Product Dimensions	Compact 1U, 260.0 mm x 237.9 mm x 47.6 mm 10.24" x 9.37" x 1.87" (W x D x H)
Packaging Dimensions	333.0 mm x 89.0 mm x 315.0 mm 13.11" x 3.50" x 12.40" (W x D x H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–90%
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

Panels



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|---|--------------------------|----|-------------------------|
| 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 |

Ordering Information

Type	Model	Description
8 Channels WizSense XVR	DH-XVR5108HS-4KL-I3	Compact 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])

