

DH-XVR5108HE-4KL-I3

8 Channel Penta-brid 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, Cooper-I 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

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, face mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving 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 2 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















AI Coding

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

High Definition Camera Input

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm

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

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200 m for 720P.

AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

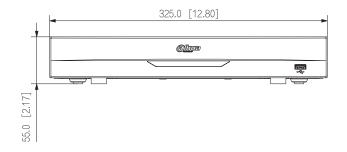
Technical Specification		Compression Stand	Compression Standard	
System		Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	
Main Processor	Embedded processor	Audio Compression	G.711A/G.711u/PCM	
Operating System	Embedded Linux	Network		
Perimeter Protection		Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P	
Perimeter Performance AI by Recorder (Number of Channels)	2 channels	Mobile Phone Access	iPhone, iPad, Android	
Face Detection		Interoperability	ONVIF 16.12, CGI Conformant	
Face Attributes	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to four detection panels displayed at the same time.	Browser	Chrome, IE9 or above, Firefox	
		Network Mode	Single-address mode	
Face Detection		Recording Playback	Recording Playback	
Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.	Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	
Face Recognition		Recording Playback	1/4/09	
Face Database Capacity	Up to 10 face databases and 20,000 pictures.	Backup Method	USB Device/Network	
Face Recognition Performance of AI by	2 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Recorder (Number of Channels)	Zelames	Alarm	Alarm	
SMD Plus		General Alarm	Motion detection, Video Loss, tampering, and local alarm	
SMD Plus by Recorder	Full-channel SMD Plus (AI by recorder), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition	Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
Audio and Video		Intelligent Alarm	Face detection, face recognition, perimeter protection	
Analog Camera Input	8 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
	1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps.	Ports		
Camera Input		Audio Input	8, RCA (external) 8, BNC (coaxial)	
		Audio Output	1, RCA	
IP Camera Input	8+8 channels, each channel up to 8MP	Two-way Talk	Yes (share the same audio input with the first channel)	
Encoding Capacity	All channel 4K(1 fps–7 fps); 6MP(1 fps–10 fps); 5MP(1 fps–12 fps); 4K-N, 4MP/3MP(1 fps–15 fps); 4M-N/1080P/720P/960H/D1/CIF (1fps–25/30 fps);	Alarm Input	8 channels	
		Alarm Output	3 channels	
Dual-stream	Supported (960H(1 fps-15 fps); D1/CIF(1fps-25/30 fps)).	HDD Interface	1 SATA Port,up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature	
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	RS-485	1 Port, for PTZ Control	
Video Bit Rate	32 Kbps–6144 Kbps Per Channel	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
Audio Sampling	8 KHz, 16 bit Per Channel	HDMI	1	
Audio Bit Rate	64 Kbps Per Channel	VGA	1	
Bit Rate Type	Video stream and composite stream.	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
Video Output	1 HDMI ,1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	General		
		Power Supply	DC12V, 2A	
Multi coroan Diarte	When IP extension mode not enabled: 1/4/8/9	Power Consumption	Lower than 10W	
Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16	Net Weight	1.24 kg (2.73 lb)	
Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	Gross Weight	1.92 kg (4.23 lb)	

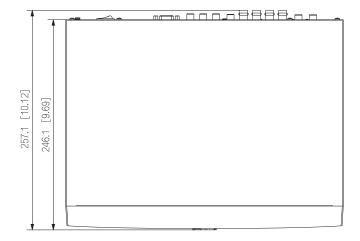
Wiz Sense | DH-XVR5108HE-4KL-I3

Product Dimensions	Mini 1U, 325.0 mm × 256.6 mm × 55.0 mm (W × D × H) 12.80" × 10.10" × 2.17" (W × D × H)	
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (L × W × H) 14.65" × 4.61" × 12.13" (L × W × 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	

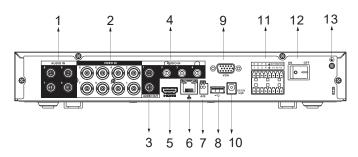
Ordering Information				
Туре	Model	Description		
8 Channels WizSense XVR	DH-XVR5108HE- 4KL-I3	Mini 1U DIGITAL VIDEO RECORDER		

Dimensions (mm[inch])





Panels



- 1 AUDIO IN, RCA Connector 2 VIDEO IN
- 3 AUDIO OUT, RCA Connector 4 AUDIO IN, RCA Connector
- 5 HDMI Port
- 7 RS-485 Port
- 9 VGA Port
- 11 Alarm In/Out
- 13 Ground

- Network Port 8 USB Port
- 10 Power Input
- 12 Power Switch