

DH-XVR5108H-4KL-I3-8P

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



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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

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.

*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.

- 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 AI.
- 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.
- · IoT and POS capabilities.
- All the channels support PoC AT and PoC AF cameras, and the XVR auto recognizes PoC cameras that have different power consumption levels.



EPTZ

With advanced target detection and tracking algorithms, Dahua EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

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.

Technical Specification			Audio and Video	
System			Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect
Main Processor	Industrial-grade processor		Camera Input	1. CVI: 4K@25/30 fps; 4K@12.5/15 fps; 6 MP@20 fps; 5 MP@25 fps; 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@25/30 fps; 720p@25/30 fps; 5 MP(2960 x 1665)@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
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI			
Quick Pick				
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels			MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. Up to 16 channels of IPC access
Perimeter Protection				8 IP channels by default + 8 channels (analog channels are converted to IP channels)
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		IP Camera Input	Incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP extension is enabled, EPTZ, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection, QuickPick 2.0 and Privacy Protection cannot be used.
Face Detection				Encode Enhancement disabled :
Face Attributes	6 attributes			Main stream: the 1st channel 4K@(1 fps–15 fps), others 4K@(1 fps–7 fps); the 1st channel 6 MP@(1 fps–20 fps), others 6 MP@(1 fps–10 fps); the 1st channel 5 MP@(1 fps–25 fps), others 5 MP@(1 fps–12 fps); the 1st channel 4K-N/4 MP/3 MP@(1 fps–25/30 fps), others 4K-N/4 MP/3 MP@(1 fps–15 fps); 4K@(1 fps–8 fps); 6 MP@(1 fps–10 fps); 5 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) 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 MP@(1 fps–10 fps); the 1st 5th channel 5 MP@(1 fps–25 fps), others 5 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–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, EPTZ, Video
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)			
Privacy Protection				
Privacy Protection Performance of Al by Recorder (Number of Channels)	1 channel			
Face Recognition				
Face Database Capacity	Up to 10 face databases with 20,000 images.		Encoding Capacity	
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels			
SMD Plus				
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change			
SMD Plus by Camera	16 channels			
Al Video Quality Analytics				Quality Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection, QuickPick 2.0 a
Al Video Quality Analytics by Recorder	8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white		Dual-stream	Privacy Protection cannot be used. Yes
Scene Changing			Video Bit Rate	32 kbps-6144 kbps
Scene Changing by	1 channel		Audio Sampling	8 kHz, 16 bit
Recorder	1 channel		Audio Bit Rate	64 kbps
Irregular Black Block Masking				1 HDMI, 1 VGA
Irregular Black Block Masking by Recorder	1 channel		Video Output	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.
EPTZ				
EPTZ by Recorder	1 channel		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16

Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF					
Compression Standar	d					
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264					
Audio Compression	G.711a; G.711u; PCM					
Network						
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 24.06 (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	$1\mbox{SATA}$ 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	53 VDC, 1.812 A					
Power Consumption	<10 W (without HDD)					
Net Weight	1.32 kg (2.91 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)		
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-XVR5108H-4KL-I3-8P	8CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder				

Accessories

Optional:







DHI-SSD-V800S256G SSD

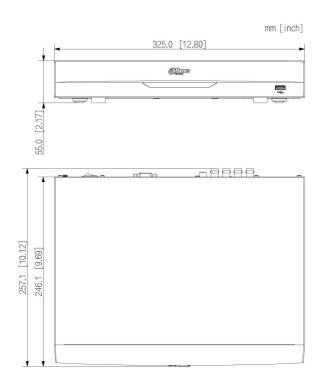
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

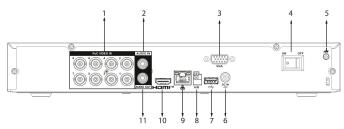


DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels



1 VIDEO IN

2 AUDIO IN, RCA Connector

3 VGA Port

4 Power Switch

5 Ground

6 Power Input

7 USB Port

8 RS-485 Port

9 Network Port

10 HDMI Port

11 AUDIO OUT, RCA Connector