



DH-XVR5208AN-4KL-13

8CH Penta-brid 4K Value/5MP 1U 2HDDs 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

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.

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.

- * The information below only applies to hardware version 2.0. of the product.
- 2-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 1-channel Privacy Protection for analog channels which supports masking and restoring human faces that are detected in real time.
- 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 Al 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.



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			1. CVI: 4K@25/30 fps; 4K@12.5/15 fps; 6 MP@20
Operating System	Embedded Linux			fps; 5 MP@25 fps; 5 MP@20 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(2560 x 1944)@20 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.
Operating Interface	Web; Local GUI		Camera Input	
Quick Pick				
QuickPick 2.0 AI by Recorder (Number of Channels)	2 channels			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. Up to 16 channels of IPC access
Perimeter Protection Perimeter Performance Al by Recorder (Number of Channels) Face Detection	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 8 channels, 10 IVS rules for each channel	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 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 Attributes	6 attributes			Encode Enhancement disabled :
Face Detection Performance of Al by Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)			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); 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)
Privacy Protection				
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel			
Face Recognition			Encode Enhancement enabled : Main stream:	
Face Database Capacity	Up to 10 face databases with 20,000 images.		Encoding Capacity	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);
Face Recognition Performance of Al by Recorder (Number of Channels)	2 channels			
SMD Plus				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);
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change			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 Quality Analytics, Scene Changing, Face Recognition,
SMD Plus by Camera	16 channels			
Al Video Quality Analytics				Face Detection, Perimeter Protection, QuickPick 2.0 and Privacy Protection cannot be used.
Al Video Quality Analytics by Recorder	8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and		Dual-stream	Yes
	white		Video Bit Rate	32 kbps–6144 kbps
Scene Changing			Audio Sampling	8 kHz, 16 bit
Scene Changing by Recorder	1 channel		Audio Bit Rate	64 kbps
Irregular Black Block Masking				1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Irregular Black Block Masking by Recorder	1 channel		Video Output	720 VGA: 1920×1080 , 1280×1024 , 1280×720 *Simultaneous/heterogeneous video sources output for
EPTZ				VGA and HDMI is configurable.
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

Network Protocol 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 Storage Disk Group Yes Alarm General Alarm Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm Error (no disk, disk error, low space, low quota space;	Compression Standard					
Network Protocol	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264				
Network Protocol HTTP; HTTPS; TCP/IP; IPA4; IPA6; RTSP; UDP; NTP; DHCP DNS; SMTP; UPNP; IP Filter; FTP; DDNS; SMMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) Mobile Phone Access	Audio Compression	G.711a; G.711u; PCM				
Network Protocol 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 Record Mode General; alarm; motion detection; intelligent; POS Recording Playback Recording Playback	Network					
Interoperability ONVIF 24.06 (Profile T; Profile S; Profile G); CGI; SDK Browser Chrome; IE; Safari; Edge; Firefox Record Mode General; alarm; motion detection; intelligent; POS Recording Playback Recording Playback Recording Playback Instant playback; general playback; event playback; tag playback; smart playback; general playback; tag playback; smart playback Storage Disk Group Yes Alarm General Alarm Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm Error (no disk, disk error, low space, low quota space; network disconnection; P conflict; MAC conflict); video loss; video tampering; camera offline Intelligent Alarm 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	Network Protocol	Server; P2P; Auto Registration; IP Search (Supports IP				
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 Storage Disk Group Yes 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 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 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption < 10 W (without HDD)	Mobile Phone Access	iOS; Android				
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 Storage Disk Group Yes Alarm General Alarm Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm Fror (no disk, disk error, low space, low quota space; network disconnection; P 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 2 SATA ports. Each disk can contain 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, RI-45) General Power Supply 12 VDC, 4 A Power Consumption < 10 W (without HDD)	Interoperability	ONVIF 24.06 (Profile T; Profile S; Profile G); CGI; SDK				
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Alarm General Alarm Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR 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) 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption	Playback Mode					
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Alarm Linkage 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 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption	Intelligent Alarm					
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) 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption 1-channel RCA 8-channel RCA 8-channel BNC (Coaxial Audio) 1-channel RCA 1-channel RCA 1-channel RCA 10 (10 (10 Audio)) 1-channel RCA	Alarm Linkage					
Audio Input 8-channel BNC (Coaxial Audio) Audio Output 1-channel RCA Two-way Talk Yes (share the same audio input with the first channel) 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption 1-channel BNC (Coaxial Audio) 16 To Audio	Ports					
Two-way Talk Yes (share the same audio input with the first channel) 2 SATA ports. Each disk can contain 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 12 VDC, 4 A Power Consumption 10 2 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the environment temperature. 1 (10/100/1000 port, 1 rear USB 3.0 port) 1 (10/100/1000 Mbps Ethernet port, RJ-45)	Audio Input					
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Disk Interface 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 12 VDC, 4 A Power Consumption TB. This limit varies depending on the environment temperature.	Two-way Talk	Yes (share the same audio input with the first channel)				
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 12 VDC, 4 A Power Consumption <10 W (without HDD)	Disk Interface	TB. This limit varies depending on the environment				
HDMI 1 VGA 1 Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) General Power Supply 12 VDC, 4 A Power Consumption <10 W (without HDD)	RS-485	1				
VGA 1 Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) General Power Supply 12 VDC, 4 A Power Consumption <10 W (without HDD)	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)				
Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) General Power Supply 12 VDC, 4 A Power Consumption <10 W (without HDD)	HDMI	1				
General Power Supply 12 VDC, 4 A Power Consumption <10 W (without HDD)	VGA	1				
Power Supply 12 VDC, 4 A Power Consumption <10 W (without HDD)	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)				
Power Consumption <10 W (without HDD)	General					
	Power Supply	12 VDC, 4 A				
Net Weight 1.60 kg (3.53 lb)	Power Consumption	<10 W (without HDD)				
	Net Weight	1.60 kg (3.53 lb)				

Gross Weight	3.00 kg (6.62 lb)		
Product Dimensions	375.0 mm \times 289.6 mm \times 53.0 mm (14.76" \times 11.40" \times 2.09") (W \times D \times H)		
Packaging Dimensions	433.0 mm \times 141.0 mm \times 366.0 mm (17.05" \times 5.56" \times 14.41") (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-XVR5208AN-4KL-I3	8CH Penta-brid 4K Value/5MP 1U 2HDDs WizSense Digital Video Recorder				

Accessories

Optional:







DHI-SSD-V800S256G SSD

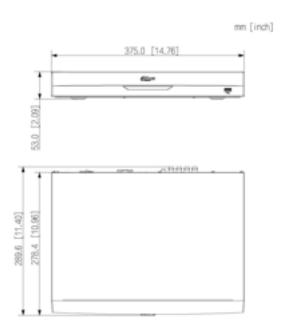
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels

