



DH-XVR5108H-4KL-13

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





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 po detect
Main Processor	Industrial-grade processor		1. CVI: 4
Operating System	Embedded Linux		fps; 5 MI 1080p@
Operating Interface	Web; Local GUI	Camera Input	2. TVI: 41 5 MP(29
Quick Pick			MP@25,
QuickPick 2.0 AI by Recorder (Number of Channels)	2 channels		MP@25/ Up to 16 8 IP char
Perimeter Protection			are conv
Perimeter Performance AI 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	128 Mbp *After IP Analytics Detectio
Face Detection			and Priva
Face Attributes	6 attributes		Encode E Main str
Face Detection Performance of Al by Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)		the 1st c fps); the 1st c fps-10 fp the 1st c
Privacy Protection			fps–12 fp the 1st c
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel		others 4l 4K@(1 fp 720p/96 Sub strea 960H@(
Face Recognition			Encode E
Face Database Capacity	Up to 10 face databases with 20,000 images.	Encoding Capacity	the 1st, 5
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels		fps-7 fps the 1st, 5 MP@(11 the 1st, 5 MP@(11 the 1st, 5
SMD Plus			fps), oth
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		1080p/7 Sub strea 960H@(
SMD Plus by Camera	16 channels		*When E Quality A
AI Video Quality Anal	ytics		Face Det Privacy F
Al Video Quality Analytics by Recorder	8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Dual-stream	Yes
Scene Changing		Video Bit Rate	32 kbps-
Scene Changing by		Audio Sampling	8 kHz, 16
Recorder	1 channel	Audio Bit Rate	64 kbps
Irregular Black Block Irregular Black Block Masking by Recorder	Masking 1 channel	Video Output	1 HDMI, HDMI: 3: 720 VGA: 192
EPTZ			*Simulta VGA and
EPTZ by Recorder	1 channel	Multi-screen Display	When IP
		Thind mant: Comment	

Audio and Video		
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	
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@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. 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; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	
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 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.	
Encoding Capacity	Encode Enhancement disabled: 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); 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) 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); 4K/6 MP@(1 fps-15 fps); 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, Face Detection, Perimeter Protection, QuickPick 2.0 and Privacy Protection cannot be used.	
Dual-stream	Yes	
Video Bit Rate	32 kbps-6144 kbps	
Audio Sampling	8 kHz, 16 bit	
Audio Bit Rate	64 kbps	
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.	
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 Stand		
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 $16\mbox{TB}.$ 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, 2 A	
Power Consumption	<10 W (without HDD)	
Net Weight	1.20 kg (2.65 lb)	
Gross Weight	1.40 kg (3.09 lb)	
Product Dimensions	325.0 mm × 257.1 mm × 55.0 mm (12.80" × 10.12" × 2.17") (W × D × H)	

Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × 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	8CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder		

Accessories

Optional:





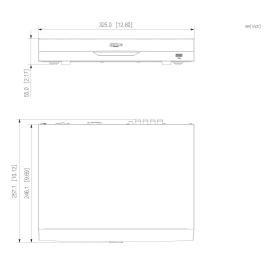
DHI-SSD-V800S256G DHI-SSD-V800S512G SSD SSD

DHI-SSD-V800S1TB SSD

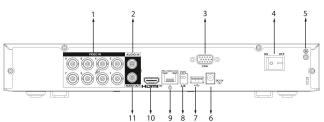


DHI-ARB1606 Alarm Box

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