

DH-XVR5104HS-4KL-I3

4 Channels Penta-brid 4K-N/5MP Compact 1U 1HDD WizSense





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 to recognize the person identity.

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

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.

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.

- · H.265+/H.265 dual-stream video compression
- · Supports all-channels AI Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 8 channels IP camera inputs, each channel up to 8MP; Max 64
 Mbps incoming bandwidth
- Up to 4 channels video stream (analog channel) Perimeter Protection
- Up to 4 channels video stream (analog channel) SMD Plus
- · Up to 1 channel 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.

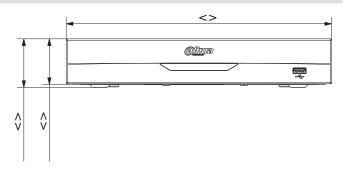
Main Processor	Technical Specification	on	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
Main Processor	System				
Operating System Chestoded Union Audio Compression G.711c; 6.711c; PCM Operating Interface Webschard GUI Network Network Perimeter Protection Audiosed Model: 1 channels, 100% for each channel by Recorder (Flumber of Cannels) Mobile Phose Access GS. Audioal Face Detection Face Detection Provider and Model: 1 channels, 100% for each channel for the Cannels Mobile Phose Access GS. Audioal Face Detection Provider (Flumber of Channels) Conder; age group glosors; capresions, face mask; below of Provider (Flumber of Channels) Network Model Morror (Flumber of Channels) Face Detection Provider (Flumber of Channels) Provider (Flumber of Channels) Network Model	Main Processor	Industrial-grade processor	·		
Perimeter Protection	Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM	
Perimeter Protection	Operating Interface	Web; Local GUI	·		
Personal Performance All Dy Recorder Comment Model Achameds 10 NS for each channel Model Personal Personal Comment Model Achameds 10 NS for each channel Model Personal Personal Comment Model Achameds 10 NS for each channel Model Recorder Notice Record Model Achameds 10 NS for each channel Recorder Notice Re	Perimeter Protection			HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCF	
Face Detection Face Attributes Face Detection Face Attributes Face Detection Face Attributes Face Detection Face Attributes Face Detection Face Obtains a Comment of the Management of the Manag		· · · · · · · · · · · · · · · · · · ·			
Face Attributes Gender; age group; glasses; expressions; face mask; Face Detection Performance of Al by beard Lehames (up to 8 face images,/s) Face Detection Performance of Al by Channels (up to 8 face images,/s) Face Recognition Performance of Al by Channels (up to 10 face databases and 20,000 images.) Face Catabase Capacity Lip to 10 face databases and 20,000 images. Record Mode Recording Playback Playback Mode Record Mode List device and network Playback Mode Playba					
Face Detection Second Se	Face Detection		Interoperability		
Performance of All by Recording Playback I/4 Recording Playback	Face Attributes		Browser	IE9 or later	
Recording Playback Channels Face Recognition Face Babase Capacity Up to 10 face databases and 20,000 images. Recorded (Number of Channels) Face Recognition Face Babase Capacity Up to 10 face databases and 20,000 images. Recorded (Number of Channels) Face Recognition Face Reco		1 channel (up to 8 face images (c)	Network Mode	Single-address mode	
Face Database Capacity Face Database Capacity Face Recognition Face Recognition Face Recognition Face Database Capacity Face Database Capacity Face Database Capacity Face Recognition Face Database Capacity Face Database	•	1 channel (up to 8 face images/s)	Recording Playback	Recording Playback	
Face Recognition Performance of Al by Recorder (Number of Channels) SMD Plus 4-channel: Secondary filtering for human and motor wellcile, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input 4 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. 1. CVI. 446, 6MF, 5MP, 4MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-446, 5MP, 4MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-446, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-446, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-446, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 3MP, 1080p8/25/30 fps, 720p8/25/30 fps. 3. AHD-46, 5MP, 4MP, 1080p8/25/30 fps, 720p8/25/30 fps. 4. Audio Input 4. Channel BNC (Cosxial Audio) 4. Channel BN	Face Recognition		Record Mode	General, motion detection; intelligent; alarm; POS	
Performance of Al by Recorder (Number of Channels) SMD Plus Adamm A-channel: Secondary filtering for human and motor webicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input A channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. Analog Camera Input A channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. Analog Camera Input A channels by McFault A Wp; 1080p.ga25/30 fps, 720p.gb23/30 fps. 720p.gb2	Face Database Capacity	Up to 10 face databases and 20,000 images.	Recording Playback	1/4	
Recorder (Number of Channels) SMD Plus SMD Plus y Recorder A-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change A-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change A-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change A-channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. Anomaly Alarm No disk, disk error, low space, offline, ip conflict, MAC conflict Anomaly Alarm Accessed to conflict of the	_		Backup Method	USB device and network	
SMD Pilus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CWS access can be configured. Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CWS access can be configured. Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CWS access can be configured. Analog Camera Input Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CWS access can be configured. Analog Camera Input An	Recorder (Number of	1 channel	Playback Mode		
SMD Plus by Recorder wehicle , reducing false alarms caused by leaves, rain and lighting condition change Anomaly Alarm No disk, disk error, low space, offline, ip conflict, MAC conflict	SMD Plus		Alarm		
Andio and Video Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. Analog Camera Input Achannels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. Alarm Linkage 1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080p@25/30 fps, 720p@25/30 fps, 720p@	SMD Plus by Recorder	vehicle , reducing false alarms caused by leaves, rain and	General Alarm		
Analog Camera Input	Avadia and Mida	ignting condition change	Anomaly Alarm		
Analog Camera Input TVI and CVBS access can be configured. Alarm Linkage Record, snapshot (panoramic), IPC external alarm outp access controller, voice prompt, buzzer, log, preset, em 270p@55/30 fps, 720p@55/30 fps. 2. TVI: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps. 2. TVI: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps. Audio Input 1-channel RCA 4-channel RNC (Coaxial Audio) 4-channel RNC (Coaxial Audio)	Audio and video	4 channels BNC adaptive access by default, HDCVI AHD	Intelligent Alarm	Face detection, face recognition, perimeter protection	
Camera Input 1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080pe 25/30 fps, 270pe 35/30 fps, 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080pe 25/30 fps, 270pe 25/3	Analog Camera Input	TVI and CVBS access can be configured.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output access controller, voice prompt, buzzer, log, preset, ema	
Camera Input 720p0 25/30 fps. 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p0 25/30 fps, 720p0 25/30 fps. Up to 8 channels of IPC access 4 IP channels of IPC access 4 IP channels of IPC access 4 IP channels by default + 4 channels of IPC access 4 IP channels by default + 4 channels of IPC access 4 IP channels of IPC access 5 IPC access 6 IPC access 6 Audio Output 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. 1 SATA port, up		720p@50/60 fps, 720p@25/30 fps. 2. TVI: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps. 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps. Up to 8 channels of IPC access 4 IP channels by default + 4 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be	Ports		
P Camera Input Up to 8 channels of IPC access A IP channels by default + 4 channels (analog channels are converted to IP channels) IP Camera Input IP Camera Input Incoming bandwidth: 64 Mbps IP Camera Input Incoming Incom	Camera Input		Audio Input		
are converted to IP channels incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps and out			Audio Output	1-channel RCA	
Mbps and outgoing bandwidth: 64 Mbps			Two-way Talk	Yes (share the same audio input with the first channel)	
Main stream: 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 (1 fps-25/30 fps); 5MP steram: 960H (1 fps-15 fps); D1/CIF (1 fps-25/30 fps)	IP Camera Input		HDD Interface		
Encoding Capacity Encoding Capa			RS-485	1 port, for PTZ control	
Encoding Capacity fps); 4M-N/1080p/720p/960H/D1/CIF (1 fps-25/30 fps); Sub steram: 960H (1 fps-15 fps); D1/CIF (1 fps-25/30 fps)		10 fps); 5MP (1 fps–12 fps); 4K-N, 4MP/3MP (1 fps–15 fps); 4M-N/1080p/720p/960H/D1/CIF (1 fps–25/30 fps); Sub steram: 960H (1 fps–15 fps); D1/CIF (1 fps–25/30	USB	2 USB ports (USB 2.0)	
Dual-stream Yes Network Port 1 (10/100 Mbps Ethernet port, RI-45) Video Bit Rate 32 kbps-6144 kbps General Audio Sampling 8 kHz, 16 bit Power Supply 12 VDC, 2 A Audio Bit Rate 64 kbps Power Consumption <7 W	Encoding Capacity		НОМІ	1	
Video Bit Rate 32 kbps-6144 kbps General Audio Sampling 8 kHz, 16 bit Power Supply 12 VDC, 2 A Audio Bit Rate 64 kbps Power Consumption <7 W			VGA	1	
Audio Sampling 8 kHz, 16 bit Power Supply 12 VDC, 2 A Audio Bit Rate 64 kbps Power Consumption <7 W I HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Multi-screen Display When IP extension mode not enabled: 1/4 Product Dimensions 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" ×	Dual-stream	Yes	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
Audio Bit Rate 64 kbps Power Consumption <7 W 1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Gross Weight 1.07 kg (2.36 lb) Multi-screen Display When IP extension mode not enabled: 1/4 Product Dimensions 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" ×	Video Bit Rate	32 kbps-6144 kbps	General		
Video Output 1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Gross Weight 1.07 kg (2.36 lb) Multi-screen Display When IP extension mode not enabled: 1/4 Product Dimensions 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" ×	Audio Sampling	8 kHz, 16 bit	Power Supply	12 VDC, 2 A	
Video Output VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Net Weight 0.53 kg (1.17 lb) Multi-screen Display When IP extension mode not enabled: 1/4 When IP extension mode not enabled: 1/4 Product Dimensions 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" ×	Audio Bit Rate	64 kbps	Power Consumption	<7 W	
Multi-screen Display When IP extension mode not enabled: 1/4 Product Dimensions 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" ×	Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	Net Weight	0.53 kg (1.17 lb)	
VIUITI-SCIEEN DISDIAV Product Dimensions			Gross Weight	1.07 kg (2.36 lb)	
2107 / (1110 2011)	Multi-screen Display		Product Dimensions	260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87") (W × D × H)	

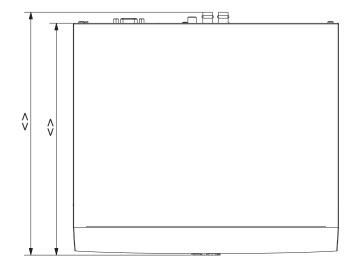
Wiz Sense | DH-XVR5104HS-4KL-I3

Packaging Dimensions	333.0 mm \times 315.0 mm \times 89.0 mm (13.11" \times 12.40" \times 3.50") (W× D \times H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Operating Humidity	0%–90% (RH)		
Installation	Desktop		
Certifications	FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN50130; EN 55024		

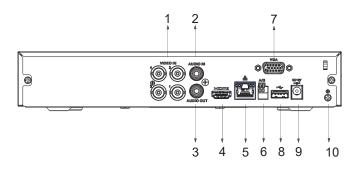
Ordering Information				
Туре	Model	Description		
4 Channels WizSense XVR	DH-XVR5104HS- 4KL-I3	Compact 1U WizSense Digital Video Recorder		

Dimensions (mm[inch])





Panels



- 1 VIDEO IN 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector 4 HDMI Port
- 5 Network Port
- 6 RS-485 Port
- 7 VGA Port
- 8 USB Port
- 9 Power Input
- 10 Ground

mm[inch]