

DH-XVR5104H-4KL-I3-4P

4 Channels Penta-brid 4K-N/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 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, XVR5000-4KL-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI 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 Series

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 to recognize the person identity.

*The Face Recognition is conflicted 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.

- · H.265+/H.265 dual-stream video compression.
- · Supports Full-channel 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.
- \cdot Up to 4 channels video stream (analog channel) Perimeter Protection.
- \cdot Up to 4 channels video stream (analog channel) SMD Plus.
- \cdot Up to 2 channels video stream (analog channel) human face recognition.
- \cdot IoT & POS functionalities.
- All-channel support PoC AT & AF camera.Auto recognize the PoC
- camera of different power consumptions.



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.

Wiz Sense | DH-XVR5104H-4KL-I3-4P

Technical Specification

<table-container>SystemHead DifferHead Differ<th colspan="2">Technical Specification</th><th></th><th>1 HDMI, 1 VGA</th></table-container>	Technical Specification			1 HDMI, 1 VGA	
Name ProcessorIndustrie ProcessorMain and the processor of the advectation and encised of	System		Video Output		
Operating hystemIncluded Llux:Included Llux:Operating hystem (Wein) Pectanion mode extables: 1/4%3Mails Screen DisplayWeini Pectanion mode extables: 1/4%3Perimeter Performance A Records (Weini Pectanion) Channels)Advances Abach 2 Jacoms 1, 100 Ki for each durant for each durant bernet for formance A bernet for forma	Main Processor	Industrial-grade processor	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Notice descriptionWhen marketsion mode analysis (2) (Visit)Perimeter Performance All Wenneed Performance All Performance All Bernel Madeia 4 Junited, 10 (Visit or each shame)The performance All Methy Performance All Meth	Operating System	Embedded Linux		VGA and HDMI is configurable.	
Performance reformance / in Waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in waterie / atomately, 10 % for and harmed because / in wateries /	Operating Interface	Web; Local GUI	Multi-screen Display	,	
Partice Performance Advanced Model: 2 Journels, 10 MS for each shamel Chamele Microsoft (Manuel 2) Access Prace Detection Configs Foundary (Manuel 2) All Coding Smarth (235+, H28); Smarth (236+, H28); Manuel 2) Face Detection Coding Smarth (235+, H28); Smarth (236+, H28); Manuel 2) All Coding Smarth (235+, H28); Smarth (236+, H28); Manuel 2) Face Detection Performance of All Manuel 2) Controls face mages/n each chame() All Coding Smarth (235+, H28); Smarth (236+, H28); Manuel 2) Face Detection Performance of All Manuel 2) Controls face images/n each chame() Manuel 2) Face Detection Performance of All Manuel 2) Other State (Compression 2) Manuel 2) Face Recognition Performance of All Manuel 2) Other State (Compression 2) Other State (Compression 2) Face Recognition Performance of All Manuel 2) Other State (Compression 2) Other State (Compression 2) SMD Plus De Record With Coting Face (State Manuel 2) Manuel 2) Other State (Compression 2) SMD Plus De Record With Coting Face (State Manuel 2) Manuel 2) Other State (Compression 2) SMD Plus De Record With Coting Face (State Manuel 2) Other State (State Manuel 2) Other State (State Manuel 2) State State (State Manuel 2) Other State (State Manuel 2) Other State (State Manuel	Perimeter Protection		Third-party Camera		
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Hate Hindex beerd Face Detection 2-channels (up to 8 face images/s each channel)) Network Rvotocol MTP: HTTPS: TC//P. [P.44; RTSP, UDP: SMTP: NTP; Detection (Winners) Face Recognition	Face Detection		Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264	
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Parte Database Laphering certificate No.; countries & regions and state can be added to each face image added to each face image added to each face image added to each face image added to each face image Network Mode Single address mode Face Recorgintion Performance of Al by Recorder (Number)	0	Up to 10 face databases with 20,000 face images in	Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI	
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Performance of Al by Recorder (Number of Channels) 2 channels Record Mode General, motion detection; intelligent; alarm; POS SMD Plus Record Mode General, motion detection; intelligent; alarm; POS SMD Plus by Recorder A channels: Secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback for physica secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback for physica secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback for physica secondary filtering for human and motor vehicle; reducing false alarms caused by leaves; rain and phyback for physica secondary filtering for human and motor vehicle; reducing false alarms for physica secondary filtering for human and detect Alarm Analog Camera Input 4BNC ports, supports HDCV/AHD/TV/CVBS auto- for the filter for human secondary filter actes and by the physica secondary filter actes and by and utgoing bandwith: 64 Mbps, raconcerted to IP channels and coursing bandwith: 64 Mbps, raconcerted to IP channels and coursin		added to each face image	Network Mode	Single-address mode	
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SMD Plus by Recorder Valuation of use of u	SMD Plus		Recording Playback	1/4	
Lighting condition changePlayback ModePlayback Mode <td></td> <td rowspan="2">vehicle, reducing false alarms caused by leaves, rain and</td> <td>Backup Method</td> <td>USB device and network</td>		vehicle, reducing false alarms caused by leaves, rain and	Backup Method	USB device and network	
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Analog Camera inputdetectOctor and participationMotion detection, note ords, nampering, occar and minicCamera input1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080p@25/30 fps, 720p@25/30	Audio and Video		Alarm		
Camera Inputconflict; MAC conflictCamera Input2.7V1: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.intelligent AlarmFace detection; face recognition; perimeter protectionAHDMAY Marm5.AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.Alarm LinkageRecord; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; emailIP Camera InputIP channels by default + 4 channels (nalalog channels are converted to IP channels) are duigoing bandwidth: 64 Mps vafter IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled Channel RCA 4-channel RCA 4-channel RCA 4-channel RCA 4-channel BNC (Coaxial Audio)Encoding CapacityWis stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); SMP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 60H, D1, CIF@ (1-25/30 fps)Norway TalkYes (share the same audio input with the first channel) temperature.Dual-streamYesRs-4851 port, for PTZ controlStATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.Video Sit Rate3 kHz, 16 bitUSB2 (1 front USB 2.0 port, 1 rear USB 2.0 port)Audio Sampling8 Hz, 16 bitHDMI1	Analog Camera Input		General Alarm	Motion detection; video loss; tampering; local alarm	
Lamera input 720p@25/30 fps. 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps. 720p@25/30 fps. Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; prest; email Up to 8 channels of IPC access 4 IP channels by default + 4 channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. Ports Encoding Capacity Main stream: All channel 4K@(1-7 fps); 6MP@ (1-10 fps); SMP@(1-12 fps); 4K-N, 4MP, 3MP@(1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@(1-25/30 fps); sub stream: D1, CIF@(1-25/30 fps);		720p@50/60 fps, 720p@25/30 fps.	Anomaly Alarm		
including and the second se	Camera Input	720p@25/30 fps.	Intelligent Alarm	Face detection; face recognition; perimeter protection	
IP Camera Input are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps, *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. Ports Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream: D1, CIF@ (1-25/30 fps) Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream: D1, CIF@ (1-25/30 fps) Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream: D1, CIF@ (1-25/30 fps) Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream: D1, CIF@ (1-25/30 fps) Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); 5MP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps) Nation and the first channel fmo: Main MDD capacity varies with environment temperature. Dual-stream Yes Rs-485 Iport, for PTZ control Mudio Sampling 8Hz, 16 bit HDMI 1		720p@25/30 fps. Up to 8 channels of IPC access	Alarm Linkage	output; access controller; voice prompt; buzzer; log;	
Instruction Mbbss and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. Audio Input I-channel RCA 4-channel BNC (Coaxial Audio) Main stream: All channel 4K@ (1-7 fps); 6MP@ (1-10 fps); SMP@ (1-12 fps); 4K-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream: D1, CIF@ (1-25/30 fps) Two-way Talk Yes (share the same audio input with the first channel) Dual-stream Yes SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature. Video Bit Rate 32 kbps-6144 kbps RS-485 1port, for YIZ control Audio Sampling 8 kHz, 16 bit USB 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) HDMI 1 1 1		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		
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Incoding Capacity Wall stream Antichamer Akg (1-7) fb3, Whe (1-7) fb3, Whe (1-12 fb3, K+N, 4MP, 3MP@ (1-15) fb3, Whe (1-12 fb3, K+N, 4MP, 4MP, 4MP, 4MP, 4MP, 4MP, 4MP, 4MP			Audio Output	1-channel RCA	
Encoding Capacity1-10 fps); 5MP@ (1-12 fps); 4k-N, 4MP, 3MP@ (1-15 fps); 4M-N, 1080p, 720p, 960H, D1, CIF@ (1-25/30 fps); sub stream:D1, CIF@ (1-25/30 fps);HDD InterfaceI SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.Dual-streamYesRS-4851 port, for PTZ controlVideo Bit Rate32 kbps-6144 kbpsUSB2 (1 front USB 2.0 port, 1 rear USB 2.0 port)Audio Sampling8 kHz, 16 bitHDD InterfaceI out		(1–10 fps); 5MP@ (1–12 fps); 4K-N, 4MP, 3MP@ (1–15 fps);4M-N, 1080p, 720p, 960H, D1, CIF@ (1–25/30 fps);	Two-way Talk	Yes (share the same audio input with the first channel)	
Video Bit Rate 32 kbps-6144 kbps USB 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) Audio Sampling 8 kHz, 16 bit HDMI 1	Encoding Capacity		HDD Interface	maximum HDD capacity varies with environment	
Audio Sampling 8 kHz, 16 bit HDMI 1	Dual-stream	Yes	RS-485	1 port, for PTZ control	
	Video Bit Rate	32 kbps-6144 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Audio Bit Rate 64 kbps VGA 1	Audio Sampling	8 kHz, 16 bit	HDMI	1	
	Audio Bit Rate	64 kbps	VGA	1	

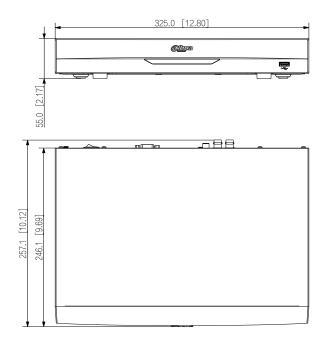
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Network Port	1 (10/100 Mbps Ethernet port, RJ-45)		
General			
Power Supply	53 VDC , 1.13 A		
Power Consumption	<7 W (without HDD)		
Net Weight	1.10 kg (2.43 lb)		
Gross Weight	2.15 kg (4.74 lb)		
Product Dimensions	325.0 mm × 257.1 mm × 55.0 mm (12.80'' × 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)		
Operating Humidity	10%-90% (RH)		
Installation	Rack or desktop		
Certifications	CE: CE-LVD: EN 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B		

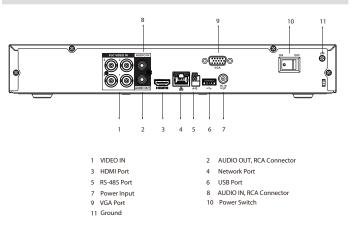
Ordering Information

Туре	Model	Description
4 Channels WizSense XVR	DH-XVR5104H-4KL- I3-4P	Mini 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])



Panels



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