

DH-XVR5204A-4KL-I3

4CH Penta-brid 4K Value/5MP Mini 1U 2HDDs WizSense Digital Video Recorder



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI 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

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.

- * The parameters and datasheets below can only be applied to Hardware Version 3.0.
- · H.265+/H.265 dual-stream video compression.
- \cdot Supports all-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.
- · Up to 2 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.

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Technical Specification

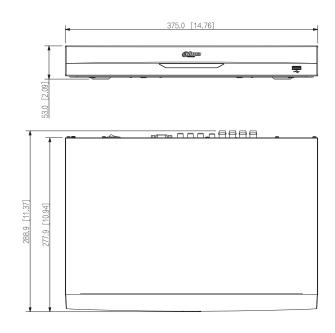
rechined Specification		
System		
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	
Operating Interface	Web; Local GUI	
Perimeter Protection		
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel	
Face Detection		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	
Face Detection Performance of Al by Recorder (Number of Channels)	2 channels (up to 8 face images/s each channel)	
Face Recognition		
Face Database Capacity	Up to 20 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image	
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels	
SMD Plus		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	
Audio and Video		
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect	
Camera Input	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 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@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	
IP Camera Input	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 disabled	
Encoding Capacity	Main stream: 4K@(1 fps-7 fps); 6 MP@(1 fps-10 fps); 5 MP@(1 fps-12 fps); 4K-N, 4 MP, 3 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)	
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 When IP extension mode enabled: 1/4/8/9			
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung			
Compression Standard				
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; DDNS; Alarm Server; P2P; Auto Registration			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome IE9 or later Firefox			
Network Mode	Single-address mode			
Recording Playback				
Record Mode	General, motion detection; intelligent; alarm; POS			
Recording Playback	1/4			
Backup Method	USB device and network			
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)			
Storage				
Disk Group	Yes			
Alarm				
General Alarm	Motion detection; video loss; video tampering; local alarm			
Anomaly Alarm	No disk; disk error; disk full; offline; IP conflict; MAC conflict			
Intelligent Alarm	Face detection; face recognition; perimeter protection			
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; voice prompt; buzzer; log; preset; email			
Ports				
Audio Input	4-channel RCA 4-channel BNC (Coaxial Audio)			
Audio Output	1-channel RCA			
Two-way Talk	Yes (share the same audio input with the first channel)			
Alarm Input	8 channels			
Alarm Output	3 channels			
HDD Interface	2 SATA ports, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature			
RS-485	1 port, for PTZ control			

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USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
HDMI	1	
VGA	1	
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC , 4 A	
Power Consumption	<7 W (without HDD)	
Net Weight	1.60 kg (3.53 lb)	
Gross Weight	2.81 kg (6.20 lb)	
Product Dimensions	375.0 mm × 288.9 mm × 53.0 mm (14.76'' × 11.37'' × 2.09'') (W × D × H)	
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.56" × 14.41") (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	≤93% (RH)	
Installation	Rack or desktop	
Certifications	CE: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035	

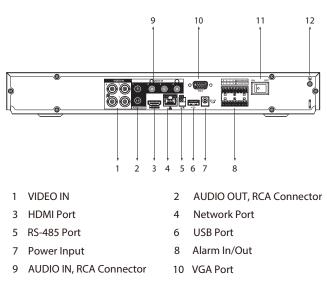
Dimensions (mm[inch])



Panels



Туре	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5204A- 4KL-I3	4CH Penta-brid 4K Value/5MP Mini 1U 2HDDs WizSense Digital Video Recorder



- 11 Power Switch
- 12 Ground

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