

DH-XVR5216A-4KL-I3

16 Channels Penta-brid 4K-N/5MP 1U 2HDDs WizSense Digital Video Recorder





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 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.

*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.

- · H.265+/H.265 dual-stream video compression.
- · Supports Full-channel AI-Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 32 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- · Up to 8 channels video stream (analog channel) Perimeter Protection.
- · Up to 16 channels video stream (analog channel) SMD Plus.
- · Up to 2 channels 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 Al-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.

Technical Specification	on		1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
System		Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Main Processor	Industrial-grade processor	*Simultaneous/heterogeneous video sources output VGA and HDMI is configurable.		
Operating System	Embedded Linux		When IP extension mode not enabled: 1/4/8/9/16	
Operating Interface	Web; Local GUI	Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16/25/36	
Perimeter Protection		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Perimeter Performance AI by Recorder (Number of	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel	Compression Stand	ard	
Channels)		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Face Detection		Audio Compression	G.711a; G.711u; PCM	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel))	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P	
		Mobile Phone Access	IOS; Android	
Face Recognition		Interoperability	ONVIF 21.12; CGI	
	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type,	Browser	Chrome, IE9 or later, Firefox	
Face Database Capacity	cerificate No., countries & regions and state can be added to each face image	Network Mode	Single-address mode	
Face Recognition	2 channels	Recording Playback	Recording Playback	
Performance of AI by Recorder (Number of		Record Mode	General, motion detection; intelligent; alarm; POS	
Channels)		Recording Playback	1/4/9/16	
SMD Plus		Backup Method	USB device and network	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Audio and Video		Storage		
Audio and video	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Disk Group	Yes	
Analog Camera Input	detect	Alarm		
	1. CVI: 4K@25/30 fps; 6 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.	General Alarm	Motion detection; video loss; tampering; local alarm	
Camera Input		Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict	
		Intelligent Alarm	Face detection; face recognition; perimeter protection	
IP Camera Input	Up to 32 channels of IPC access 16 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email	
		Ports	Ports	
		Audio Input	4-channel RCA 16-channel BNC (Coaxial Audio)	
	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps- 25/30fps)	Audio Output	1-channel RCA	
Encoding Capacity		Two-way Talk	Yes (share the same audio input with the first channel)	
Ç		Alarm Input	16-channels	
Dual-stream	Yes	Alarm Output	3-channels	
Video Bit Rate	32 kbps-6144 kbps	HDD Interface	2 SATA ports, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment	
Audio Sampling	8 kHz, 16 bit	RS-485	temperature. 1 port, for PTZ control	
Audio Bit Rate	64 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
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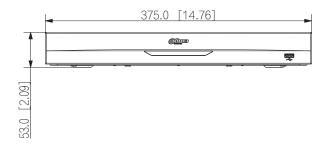
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

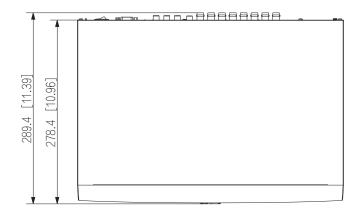
General

Power Supply	DC 12V, 5A	
Power Consumption	<15 W (without HDD)	
Net Weight	1.90 kg (4.20 lb)	
Gross Weight	3.20 kg (7.00 lb)	
Product Dimensions	375.0 mm \times 289.4 mm \times 53.0 mm (14.76" \times 11.39" \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)	
Operating Humidity	10%-90% (RH)	
Installation	Rack or 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 Type Model Description 16 Channels DH-XVR5216AWizSense XVR 4KL-I3 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])





Panels

