

DH-XVR5216AN-4KL-I3

16 Channels Penta-brid 4K-N/5MP 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 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 32 channels IP camera inputs, each channel up to 8MP; Max 128
 Mbps incoming bandwidth.
- · Up to 2 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

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 Ad			
System		Bit	
Main Processor	Industrial-grade processor		
Operating System	Embedded Linux	Vid	
Operating Interface	Web; Local GUI		
Perimeter Protection			
Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Mu Thi	
Face Detection		Ac	
	Gender; age group; glasses; expressions; face mask;	Сс	
Face Attributes	beard	Vid	
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)	Au Ne	
Face Recognition		Ne	
Face Database Capacity	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added	Mo	
Free Descentition	to each face picture	Bro	
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels	Ne	
SMD Plus			
	16 channels:	Red	
SMD Plus by Recorder	Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	Ree	
Audio and Video			
	16 channel BNC: adaptive access by default; HDCVI, AHD,	Pla	
Analog Camera Input	TVI and CVBS access can be configured.	Ste	
Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps,	Dis	
	720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30fps.	Ge	
	Up to 32 channels of IPC access	An	
IP Camera Input	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) well be disabled.	Int	
		Ala	
	Main stream:	Po	
Encoding Capacity	All channel 4K@(1-7fps); 6MP@(1-10fps); 5MP@(1-12fps); 4K-N/4MP/3MP@(1-15fps); 4M-N/1080P/720P/960H/D1/CIF(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1fps- 25/30fps)	Au	
Dual-stream	Yes	Tw	
	PAL: 1 fps–25 fps.	HD	
Video Frame Rate	NTSC: 1 fps-30 fps.		
Video Bit Rate	32 kbps–6144 kbps per channel	RS	
Audio Sampling	8 kHz, 16 bit	US	

Audio Bit Rate	64 kbps	
Bit Rate Type	Video stream and composite stream.	
/ideo 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.	
Aulti-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36	
Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	
Compression Standar	ď	
/ideo Compression	AI Coding; H.265+; H.265; H.264+; H.264	
Audio Compression	G.711A; G.711u; PCM	
Network		
Network Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P	
Mobile Phone Access	iOS, Android	
nteroperability	ONVIF 21.06, CGI	
Browser	Chrome, IE9 or above, Firefox	
Network Mode	Single-address mode	
Recording Playback		
Record Mode	General, motion detection; intelligent; alarm; POS	
Recording Playback	When the AI Function (IVS, FACE) is not enabled:1/4/9/16 When the AI Function (IVS, FACE) is enabled:1/4/9	
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, tampering, and local alarm	
Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict	
ntelligent Alarm	Face detection, face recognition, perimeter protection	
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
Ports		
Audio Input	1-channel RCA (external) 16-channel BNC (coaxial audio)	
Audio Output	1, RCA	
īwo-way Talk	Yes (share the same audio input with the first channel)	
IDD Interface	2 SATA ports,up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature	
RS-485	1	
JSB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	

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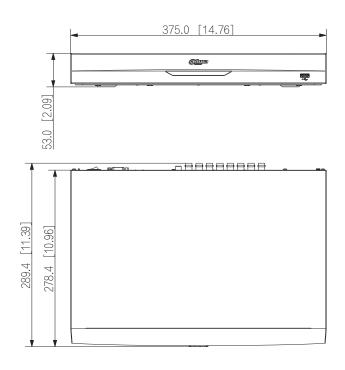
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	12 VDC, 5 A
Power Consumption	Lower than 15 W
Net Weight	1.77 kg (3.90 lb)
Gross Weight	2.94 kg (6.48 lb)
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (14.76" × 11.38" × 2.09") (W × D × H)
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H)
Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%-90% (RH)
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

Panels 1 3 10 11 0÷ 0 • -A 2 4 5 6 7 89 2 VIDEO IN 1 Ground 3 AUDIO IN, RCA Connector 4 AUDIO OUT, RCA Connector 6 USB Port 5 HDMI Port 7 Network Port 8 RS-485 Port 10 VGA Port 9 Power Input 11 Power Switch

Ordering Information

Туре	Model	Description
16 Channels WizSense XVR	DH-XVR5216AN- 4KL-13	1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])



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