

DH-XVR5216AN-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.

*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 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, Al 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.

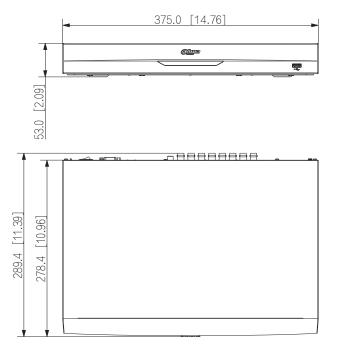
Technical Specification	on	Audio Bit Rate	64 kbps
System		Bit Rate Type	Video stream and composite stream.
Main Processor Operating System Operating Interface	Industrial-grade processor Embedded Linux Web; Local GUI	Video Output	1 HDMI ,1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Perimeter Protection 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	Multi-screen Display Third-party Camera	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36 Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon,
Channels)		Access	Samsung
Face Detection		Compression Standa	ird
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Compression	Al Coding; H.265+; H.265; H.264+; H.264
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)	Audio Compression	G.711A; G.711u; PCM
		Network	
Face Recognition		Network Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
	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 to each face picture	Mobile Phone Access	iOS, Android
Face Database Capacity		Interoperability	ONVIF 21.06, CGI
Face Recognition	2 channels	Browser	Chrome, IE9 or above, Firefox
Performance of AI by Recorder (Number of		Network Mode	Single-address mode
Channels)		Recording Playback	
SMD Plus		Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	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
Audio and Video		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Analog Camera Input	16channel BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Storage	
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, 720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30fps.	Disk Group	Yes
		Alarm	
		General Alarm	Motion detection, video loss, tampering
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	Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict
		Intelligent Alarm	Face detection, face recognition, perimeter protection
		Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
	disabled. Main stream:	Ports	
Encoding Capacity	All channels 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@(1 fps- 25/30fps)	Audio Input	1-channel RCA (external) 16-channel BNC (coaxial audio)
		Audio Output	1, RCA
Dual-stream	Yes	Two-way Talk	Yes (share the same audio input with the first channel)
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	HDD Interface	2 SATA ports,up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature
Video Bit Rate	32 kbps–6144 kbps per channel	RS-485	1
Audio Sampling	8 kHz, 16 bit	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)

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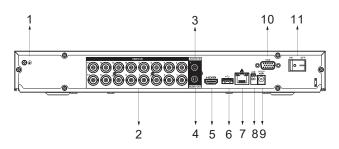
HDMI	1	
VGA	1	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC, 5 A	
Power Consumption	Lower than 15 W(without HDD)	
Net Weight	1.77 kg (3.90 lb)	
Gross Weight	2.94 kg (6.48 lb)	
Product Dimensions	1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.39" × 2.09") (W × 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	

Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR5216AN- 4KL-I3	1U DIGITAL VIDEO RECORDER		

Dimensions (mm[inch])



Panels



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