

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 8 channels video stream (analog channel) Perimeter Protection
- \cdot 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.

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Technical Specification Α System B Main Processor Industrial-grade processor Embedded Linux **Operating System** V Web; Local GUI **Operating Interface** Perimeter Protection Μ Perimeter Performance AI Advanced Model: 2 channels, 10 IVS for each channel by Recorder (Number of General Model: 8 channels, 10 IVS for each channel Tł Channels) A Face Detection С Gender; age group; glasses; expressions; face mask; **Face Attributes** v beard Face Detection А Performance of AI by 2 channels (up to 12 face images/s) Recorder (Number of Ν Channels) Ne Face Recognition Up to 10 face databases with 20,000 face images in total. M Name, gender, birthday, address, certificate type, Face Database Capacity cerificate No., countries®ions and state can be added In to each face picture Bı Face Recognition Performance of AI by 2 channels N Recorder (Number of Channels) R **SMD** Plus Re 16 channels. Re Secondary filtering for human and motor vehicle SMD SMD Plus by Recorder Plus, reducing false alarms caused by leaves, rain and lighting condition change Ba Audio and Video Ρ 16 channel BNC: adaptive access by default; HDCVI, AHD, Analog Camera Input S TVI and CVBS access can be configured. 1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, D 720P@50/60fps, 720P@25/30fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, А Camera Input 720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, G 720P@25/30fps. Ar Up to 32 channels of IPC access 16 IP channels by default + 16 channels (analog channels are converted to IP channels) Ir incoming bandwidth: 128 Mbps, recording bandwidth: IP Camera Input 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing А channels, the AI Function (IVS, SMD, FACE) will be disabled. P Main stream: All channels 4K@(1-7fps); 6MP@(1-10fps); 5MP@(1-12fps); 4K-N/4MP/3MP@(1-15fps); Aι **Encoding Capacity** 4M-N/1080P/720P/960H/D1/CIF(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-A 25/30fps) T۱ Dual-stream Yes PAL: 1 fps-25 fps. н Video Frame Rate NTSC: 1 fps-30 fps. RS Video Bit Rate 32 kbps-6144 kbps per channel U Audio Sampling 8 kHz, 16 bit

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, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung			
Compression Standard				
/ideo Compression	Al 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	
	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])



