



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.

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
- Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.















Al 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.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Long-distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080P and 1200 m for 720P.

Al Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

Technical Specification		Bit Rate Type	Video stream and composite stream.
System			1 HDMI, 1 VGA
Main Processor	Industrial-grade processor	Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Operating System	Embedded Linux	M. III	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, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
Perimeter Performance AI by Recorder (Number of	2 channels, 10 IVS rules for each channel	Compression Standar	rd
Channels)		Video Compression	Al Coding; H.265+; H.265; 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	2 channels (up to 12 face images/s)	Network Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Channels)		Mobile Phone Access	iOS, Android
Face Recognition		Interoperability	ONVIF 16.12, CGI
	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	Browser	Chrome, IE9 or later, Firefox
Face Database Capacity		Network Mode	Single-address mode
Face Recognition		Recording Playback	
Performance of AI by Recorder (Number of	2 channels	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 SMD Plus, 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	
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect	Disk Group	Yes
	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.	Alarm	
Camera Input		General Alarm	Motion detection, video loss, tampering, and local alarm
		Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict
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	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
	Main stream: 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@(1 fps-25/30fps))	Ports	
Encoding Capacity		Audio Input	4-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.	Alarm Input	16 channels
Video Bit Rate	32 kbps–6144 kbps per channel	Alarm Output	3 channels
Audio Sampling	8 kHz, 16 bit	HDD Interface	2 SATA ports,up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature
Audio Bit Rate	64 kbps	RS-485	1

USB

2 (1 front USB 2.0 port, 1 rear USB 3.0 port)

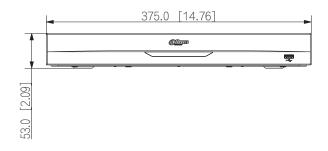
Wiz Sense | DH-XVR5216A-4KL-I3

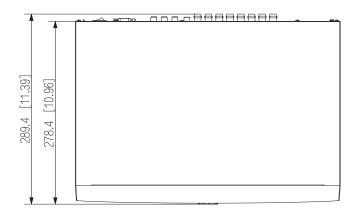
HDMI	1	
VGA	1	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC, 5 A	
Power Consumption	Lower than 15 W	
Net Weight	1.80 kg (3.97 lb)	
Gross Weight	2.98 kg (6.57lb)	
Product Dimensions	1U, 375.0 mm \times 289.0 mm \times 53.0 mm (14.76" \times 11.38" \times 2.09") (W \times D \times H)	
Packaging Dimensions	433.0 mm \times 141.0 mm \times 366.0 mm (17.05" \times 5.55" \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	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:	

Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR5216A- 4KL-I3	1U DIGITAL VIDEO RECORDER		

Part 15 Subpart B

Dimensions (mm[inch])





Panels

