

DH-XVR5216A-4KL-12

16 Channel Penta-brid 4K-N/5MP 1U 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.

System Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-4KL-I2 featuring full-channel SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, 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

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

- · H.265+/H.265 dual-stream video compression
- 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



AI Coding

Compared with H.265, Al codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

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.

High Definition Camera Input

The XVR supports up to 4K HDCVI camera and 8MP IP camera input.

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. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

AI Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval time.



Technical Specification		Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s	
System		Audio Compression	G.711A, G.711U, PCM	
Main Processor	Embedded Processor	Audio Sample Rate	8 KHz, 16 bit Per Channel	
Operating System	Embedded LINUX	Audio Bit Rate	64 Kbps Per Channel	
Perimeter Protection		Display	o maga i di anama	
Performance	2 channels, 10 IVS for each channel	Interface	1 HDMI ,1 VGA	
Object classification	Human/Vehicle secondary recognition for tripwire and	menace	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
Al Search	intrusion Search by target classification (Human, Vehicle)	Resolution	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Face Recognition	Search Systematics (Family Femole)	Multi-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	
race necognition	Max 12 face pictures/sec processing	OSD	Camera title, Time, Video loss, Camera lock, Motion	
Performance	2 channels video stream face recognition, only support		detection, Recording	
	analog camera	Network		
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Interface	1 RJ-45 Port (1000 MB)	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	
Database Management	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	Max. User Access	128 users	
	to each face picture.	Smart Phone	iPhone, iPad, Android	
Database Application	Each database can be applied to video channels independently .	Interoperability	ONVIF 16.12, CGI Conformant	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Video Detection and	d Alarm	
SMD Plus		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Performance	16 channels	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,	
Al Search	Search by target classification (Human, Vehicle)		Tampering and Diagnosis	
Video and Audio		Alarm input	16	
Analog Camera Input	16 channels, BNC	Relay Output	3	
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback and Backu		
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	1/4/9/16 Time /Date, Alarm, MD and Exact Search (accurate to	
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	second)	
CVBS Camera Input	PAL/NTSC	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
IP Camera Input	16+16 channels, each channel up to 8MP	Backup Mode	USB Device/Network	
Audio In/Out	4/1, RCA	Storage		
Two-way Talk	Reuse audio in/out, RCA	Internal HDD	2 SATA Ports, up to 10TB capacity for each disk	
Recording		eSATA	N/A	
Compression	Al Coding/H.265+/H.265/H.264+/H.264	Auxiliary Interface		
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
Record Rate	Main stream: All channel 4K(1fps–7fps); 6MP(1fps–10fps); 5MP(1fps–12fps); 4K-N, 4MP/3MP(1fps–15fps); 4M-N/1080P/720P/960H/D1/CIF (1fps–25/30fps); Sub steram:960H(1fps–15fps); P1/(V(1fps–25/30fps))	RS485	1 Port, for PTZ Control	
		RS232	N/A	
Bit Rate	D1/CIF(1fps-25/30fps) 32 Kbps-6144 Kbps Per Channel	Electrical		
	Manual, Schedule (General, Continuous), MD (Video	Power Supply	DC 12V/5A	
Record Mode detection: Motion Detection, Video Loss, Tampering), Alarm, Stop		Power Consumption (Without HDD)	<15W	

Wiz Sense | DH-XVR5216A-4KL-I2

Construction

Dimensions	1U, 375 mm × 288 mm × 53 mm (14.76" × 11.30" × 2.09")	
Net Weight (without HDD)	1.9 kg (4.2 lb)	
Gross Weight	3.2 kg (7.0 lb)	
Installation	Desktop installation	

Environmental

Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH

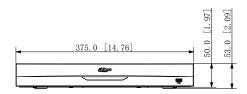
Third-party Support

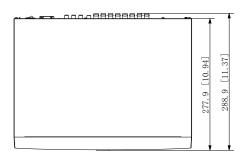
Certifications

	FCC: Part 15 Subpart B
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

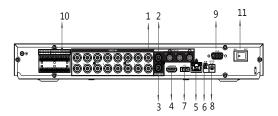
Ordering Information				
Туре	Model	Description		
16 Channel WizSense XVR	DH-XVR5216A- 4KL-I2	1U WizSense Digital Video Recorder		

Dimensions (mm[inch])





Panels



- VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI port

1

5 Network port

RS485 port

8 DC 12V Power Input

7

VGA port

USB port

- 10 ALARM IN/OUT
- 11 Power Switch