

DH-XVR5216AN-4KL-12

16 Channel Penta-brid 4K-N/5MP 1U WizSense Digital Video Recorder



- · 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
- Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel) human face detection
- · IoT & POS functionalities



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.

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

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	AAC (only for the 1st channel), 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	1	Display	or raps i et endimer
Performance	2 channels, 10 IVS for each channel	Interface	1 HDMI ,1 VGA
Object classification	Human/Vehicle secondary recognition for tripwire and	interface	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 Detection		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
	Max 12 face pictures/sec processing	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Performance	2 channels video stream face recognition, only support analog camera	Network	detection, necording
Stranger Mode	Detect strangers' faces (not in device's face database).	Interface	1 RJ-45 Port (1000 MB)
Al Search	Similarity threshold can be set manually. 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
Database Management	Up to 20 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	Dahua IP camera, DVR, NVS, etc.) 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	Alarm
SMD Plus	Alami out, 112 Activation, etc.	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot,
Performance	16 channels		Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Loss,
Al Search	Search by target classification (Human, Vehicle)	Video Detection	Tampering and Diagnosis
Video and Audio		Alarm input	N/A
Analog Camera Input	16 channels, BNC	Relay Output	N/A
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps,	Playback and Backup	
AHD Camera Input	720P@25/30fps 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	1/4/9/16
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to 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	1/1, 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)
	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);	RS485	1 Port, for PTZ Control
Record Rate		RS232	N/A
Bit Rate	D1/CIF(1fps-25/30fps) 32 Kbps-6144 Kbps Per Channel	Electrical	
Sicrate	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-XVR5216AN-4KL-I2

Construction

Dimensions	1U, 375 mm × 288 mm × 53 mm (14.76" × 11.30" × 2.09")	
Net Weight (without HDD)	1.8 kg (4.0 lb)	
Gross Weight	3.1 kg (6.8 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

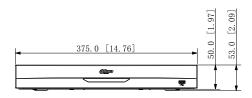
Third-party Support

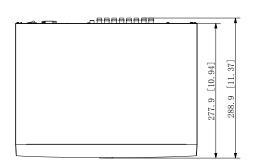
Certifications

	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	Part Number	Description		
16 Channel WizSense XVR	DH-XVR5216AN- 4KL-I2	1U WizSense Digital Video Recorder		

Dimensions (mm[inch])



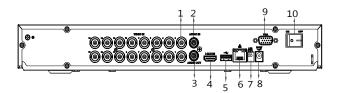


Panels

1

4

5



- VIDEO IN 6 Network Interface
- 2 AUDIO IN, RCA Connector 7 RS485 Interface
 - AUDIO OUT, RCA Connector 8 DC 12V Power Input
 - HDMI Interface 9 VGA Interface
 - USB Interface 10 Power Switch