

# DH-XVR7216AN-4K-I2

# 16 Channel Penta-brid 4K 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, XVR7000-4K-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 6 channels video stream ( analog channel ) perimeter protection
- Up to 16 channels video stream ( analog channel ) SMD plus
- Up to 6 channels video stream (analog channel ) human face recognition
- IoT & POS functionalities



#### Al 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.

#### 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			04 KUPS FEI CHAINEI
Performance	6 channels, 10 IVS for each channel	Display	4 10041 4 1/64 4 71/
Object classification	Human/Vehicle secondary recognition for tripwire and	Interface	1 HDMI, 1 VGA, 1 TV  HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
,	intrusion	Resolution	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Al Search	Search by target classification (Human, Vehicle)	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16
Face Recognition		Width-screen Display	When IP extension mode enabled: 1/4/8/9/16/25/36  Camera title, Time, Video loss, Camera lock, Motion
Performance	6 channels, max 12 face pictures/sec processing	OSD	detection, Recording
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Network	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Interface	1 RJ-45 Port (1000 Mbps)
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries&regions and state can be added to each face picture.	Network protocol	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.)
	·	Max. User Access	128 users
Database Application	Each database can be applied to video channels independently .	Smart Phone	iPhone, iPad, Android
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Interoperability	ONVIF 16.12, CGI Conformant
SMD Plus		Video Detection and Alarm	
Performance	16 channels	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Al Search	Search by target classification (Human, Vehicle)	Video Detection	Motion Detection, MD Zones: 396 (22 $\times$ 18), Video Loss, 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, 720P@25/30fps	Playback and Backu	0
AHD Camera Input	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	r layback i diretion	
Audio In/Out	1/1, RCA	Backup Mode	USB Device/Network
Two-way Talk	Reuse audio in/out, RCA	Storage	
Recording		Internal HDD	2 SATA Ports, up to 10TB capacity for each disk
Compression	Al Coding/H.265+/H.265/H.264+/H.264	eSATA	N/A
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface	
Record Rate	Main stream: 4K (1fps–15fps); 6MP(1fps–20fps); 5MP(1fps–25fps); 4K-N/4MP/3MP/1080P/720P/960H/D1/CIF (1fps– 25/30fps) Sub steram:960H(1fps–15fps);	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
		RS485	1 Port, for PTZ Control
		RS232	N/A
	D1/CIF(1fps-25/30fps)	Electrical	
Bit Rate	32 Kbps–8192 Kbps Per Channel	Power Supply	DC 12 V/5A
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Consumption (Without HDD)	< 32 W

# Wiz Sense | DH-XVR7216AN-4K-I2

#### Construction

Dimensions	1U, 375 mm × 332 mm × 53 mm (14.76" × 13.00" × 2.09")
Net Weight (without HDD)	2.4 kg (5.4 lb)
Gross Weight	4.0 kg (8.8 lb)
Installation	Desktop/racket mounted

## 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

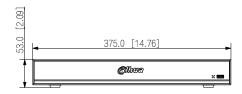
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
	Sanyo, Sony, Videotec, Vivotek, and more

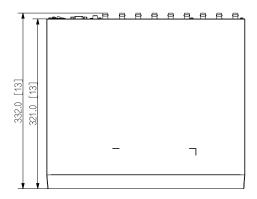
#### Certifications

	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 Type Model Description 16 Channel WizSense XVR DH-XVR7216AN-4K-I2 1U WizSense Digital Video Recorder

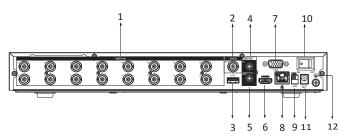
# Dimensions (mm[inch])





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#### **Panels**



Video Out

Audio In

- 1 Video In 2
  3 USB Port 4
  5 Audio Out 6
- 5 Audio Out
   6 HDMI Port
   7 VGA Port
   8 Network Port
   9 RS-485 Port
   10 Power Switch
- 11 DC 12V Power Input 12 Ground