



DH-XVR5216A-I2

16 Channel Penta-brid 5M-N/1080P 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, XVR5000-12 featuring full-channel SMD Plus (except for 32-channel devices) 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.

*Face Recognition takes effect when Face is selected in AI Mode.

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.

*Perimeter Protection takes effect when IVS&SMD is selected in Al Mode.

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

- · H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; 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
- $\boldsymbol{\cdot}$ Up to 2 channels video stream (analog channel) human face recognition
- · IoT & POS functionalities



based on motion detection and send alarms only when person and vehicle intrudes.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

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 5MP HDCVI camera and 6MP 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.

Al 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 tme.



Technical Specification		Audio Compression	G.711A, G.711U, PCM
System		Audio Sample Rate	8 KHz, 16 bit Per Channel
Main Processor	Embedded Processor	Audio Bit Rate	64 Kbps Per Channel
Operating System	Embedded LINUX	Display	
Perimeter Protection		Interface	1 HDMI ,1 VGA
Performance	2 channels, 10 IVS for each channel		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Resolution	720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in Al Mode.
Al Search	Search by target classification (Human, Vehicle)	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16
Face Recognition		OCD	When IP extension mode enabled: 1/4/8/9/16/25 Camera title, Time, Video loss, Camera lock, Motion
0. (Max 12 face pictures/sec processing	OSD	detection, Recording
Performance	2 channels video stream face recognition, only support analog camera	Network	
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 (Support Dahua IP camera, DVR, NVS, etc.)
Database Management	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type,	Max. User Access	128 users
	cerificate No., countries®ions and state can be added 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	Alami out, 112 Activation, etc.	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshor Buzzer and Screen Tips
Performance	16 channels	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Los Tampering and Diagnosis
Al Search	Search by target classification (Human, Vehicle)	Alarm input	16
Video and Audio		Relay Output	3
Analog Camera Input	16 channels, BNC	Playback and Backu	p
HDCVI Camera Input	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is
AHD Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps		selected in AI Mode. Time /Date, Alarm, MD and Exact Search (accurate to
TVI Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search Mode	second)
CVBS Camera Input IP Camera Input	PAL/NTSC 16+8 channels, each channel up to 6MP	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 Zoor
Audio In/Out	4/1, RCA	Backup Mode	USB Device/Network
Two-way Talk	Reuse audio in/out, RCA	Storage	
,	neuse addio iliyodi, neA	Internal HDD	2 SATA Ports, up to 10TB capacity for each disk
Recording	ALC-45-411 205 (1) 205 11 204 11 205	eSATA	N/A
Compression	Al Coding/H.265+/H.265/H.264+/H.264	Auxiliary Interface	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
Record Rate	Main stream: All channel 5M-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/ D1/CIF (1fps–25/30fps)	RS485	1 Port, for PTZ Control
	Sub stream: D1/CIF (1fps–15fps)	RS232	N/A
Bit Rate	32 Kbps–6144 Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video	Electrical	
Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Supply	DC 12V/4A
Record Interval	1-60 min (default: 60 min), Pre-record: $1s-30$ s, Post-record: $10s-300$ s	Power Consumption (Without HDD)	<12W

Wiz Sense | DH-XVR5216A-I2

Construction

Dimensions	1U, 375 mm × 288 mm × 53 mm (14.76" × 11.37" × 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

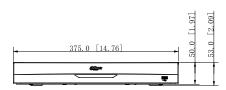
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
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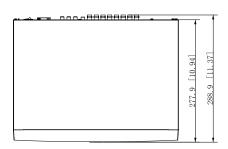
Certifications

	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

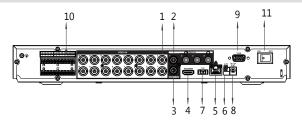
Ordering Information				
Туре	Model	Description		
16 Channel WizSense XVR	DH-XVR5216A-I2	1U WizSense Digital Video Recorder		

Dimensions (mm[inch])





Panels



- VIDEO IN
 AUDIO IN, RCA Connector
 DC 12V Power Input
- 3 AUDIO OUT, RCA Connector 9 VGA port

10

ALARM IN/OUT

5 Network port 11 Power Switch

HDMI port

RS485 port

4

6

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