



DH-XVR5116H-I2

16 Channel Penta-brid 5M-N/1080P Mini 1U WizSense Digital Video Recorder



- · 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
- · Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- · 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, XVR5000-12 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 AI 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

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.

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.

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 Specifica	tion	Audio Compression	AAC (only for the 1st channel), 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	on	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 When IP extension mode enabled: 1/4/8/9/16/25	
Face Recognition		OSD	Camera title, Time, Video loss, Camera lock, Motion	
Danfarmana	Max 12 face pictures/sec processing		detection, Recording	
Performance	2 channels video stream face recognition, only support analog camera	Network	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.)	
Databasa Managamant	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type,	Max. User Access	128 users	
Database Management	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 ar	Video Detection and Alarm	
SMD Plus	Alaim Out, 112 Activation, etc.	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, Tampering and Diagnosis	
Al Search	Search by target classification (Human, Vehicle)	Alarm input	N/A	
Video and Audio		Relay Output	N/A	
Analog Camera Input	16 channels, BNC	Playback and Back	Playback and Backup	
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, 3MP, 1080P@25/30, 720P@25/30fps	Carrello M.A. alla	selected in AI Mode. Time /Date, Alarm, MD and Exact Search (accurate to	
TVI Camera Input	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+8 channels, each channel up to 6MP	Backup Mode	USB Device/Network	
Audio In/Out	1/1, RCA	Storage		
Two-way Talk	Reuse audio in/out, RCA	Internal HDD	1 SATA Port, up to 10TB capacity	
Recording		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	
Dit Date	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/2A	
Record Interval	$1-60$ min (default: 60 min), Pre-record: $1s{-}30s,$ Post-record: $10s{-}300s$	Power Consumption (Without HDD)	<12W	

Wiz Sense | DH-XVR5116H-I2

Construction

Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80" × 10.10" × 2.17")
Net Weight (without HDD)	1.2 kg (2.6 lb)
Gross Weight	2.0 kg (4.4 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

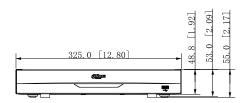
Third-party Support

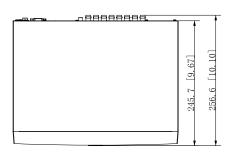
Certifications

	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

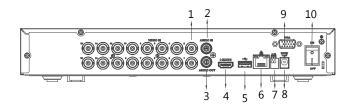
Ordering Information Type Model Description 16 Channel WizSense XVR DH-XVR5116H-I2 Mini 1U WizSense Digital Video Recorder

Dimensions (mm[inch])





Panels



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