

DH-XVR5116HS-I2

16 Channel Penta-brid 5M-N/1080P Compact 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
- · Up to 2 channels video stream (analog channel) Perimeter Protection
- \cdot Up to 16 channels video stream (analog channel) SMD Plus
- 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, AI 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.

AI Search

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



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-I2 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

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Technical Specification System Main Processor Embedded Processor Embedded LINUX **Operating System** Perimeter Protection Performance 2 channels, 10 IVS for each channel Human/Vehicle secondary recognition for tripwire and Object classification intrusion AI Search Search by target classification (Human, Vehicle) Face Recognition Max 12 face pictures/sec processing Performance 2 channels video stream face recognition, only support analog camera Detect strangers' faces (not in device's face database). Stranger Mode Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity AI Search threshold can be set for each target face image. Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, Database Management cerificate No., countries®ions and state can be added to each face picture. Each database can be applied to video channels Database Application independently Buzzer, Voice Prompts, Email, Snapshot, Recording, **Trigger Events** Alarm Out, PTZ Activation, etc. **SMD** Plus Performance 16 channels Search by target classification (Human, Vehicle) AI Search Video and Audio 16 channels, BNC Analog Camera Input 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera Input 720P@25/30fps AHD Camera Input 5MP, 4MP, 1080P@25/30, 720P@25/30fps **TVI** Camera Input 5MP, 4MP, 1080P@25/30, 720P@25/30fps PAL/NTSC CVBS Camera Input 16+8 channels, each channel up to 6MP IP Camera Input Audio In/Out 1/1, RCA Two-way Talk Reuse audio in/out, RCA Recording AI Coding/H.265+/H.265/H.264+/H.264 Compression 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF Resolution Main stream: All channel 5M-N (1fps-10fps); 4M-N/1080P (1fps-15fps); 1080N/720P/960H/ Record Rate D1/CIF (1fps-25/30fps) Sub stream: D1/CIF (1fps-15fps) Bit Rate 32 Kbps-6144 Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video Record Mode detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1-60 min (default: 60 min), Pre-record: 1 s-30 s, Post-Record Interval record: 10 s-300 s

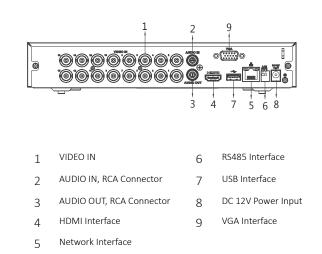
Audio Compression	G.711A, G.711U, PCM		
Audio Sample Rate	8 KHz, 16 bit Per Channel		
Audio Bit Rate	64 Kbps Per Channel		
Display			
Interface	1 HDMI ,1 VGA		
Resolution	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode.		
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		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
Network			
Interface	1 RJ-45 Port (1000 MB)		
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.)		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android		
Interoperability	ONVIF 16.12, CGI Conformant		
Video Detection and Alarm			
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis		
Alarm input	N/A		
Relay Output	N/A		
Playback and Backup			
Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.		
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
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		
Backup Mode	USB Device/Network		
Storage			
Internal HDD	1 SATA Port, up to 10TB capacity		
eSATA	N/A		
Auxiliary Interface			
USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)		
RS485	1 Port, for PTZ Control		
RS232	N/A		
Electrical			
Power Supply	DC 12V/2A		
Power Consumption (Without HDD)	<12W		

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Construction

	Compact 1U, 260 mm × 238 mm × 48 mm	
Dimensions	(10.24" × 9.34" × 1.87")	
Net Weight (without HDD)	1.0 kg (2.2 lb)	
(menode nob)		
Gross Weight	1.4 kg (3.1 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	
Certifications		
Certifications	FCC: Part 15 Subpart B	
	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	

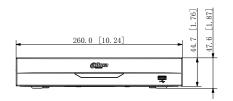
Panels

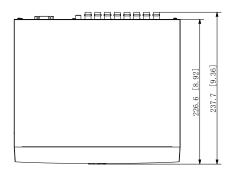


Ordering Information

Туре	Model	Description
16 Channel WizSense XVR	DH-XVR5116HS-I2	Compact 1U WizSense Digital Video Recorder

Dimensions (mm[inch])





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