

DH-XVR5116H-I2

16 Channel Penta-brid 5M-N/1080P Mini 1U 1HDD 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
- Up to 16 channels video stream (analog channel) SMD Plus
- \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, 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.

Series 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

Wiz Sense | DH-XVR5116H-I2

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 AI Search Search by target classification (Human, Vehicle) Video and Audio Analog Camera Input 16 channels, BNC 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera Input 720P@25/30fps 5MP, 4MP, 1080P@25/30, 720P@25/30fps AHD Camera Input **TVI** Camera Input 5MP, 4MP, 1080P@25/30, 720P@25/30fps **CVBS** Camera Input PAL/NTSC IP Camera Input 16+8 channels, each channel up to 6MP Audio In/Out 1/1, RCA Two-way Talk Reuse audio in/out, RCA Recording Compression AI Coding/H.265+/H.265/H.264+/H.264 Resolution 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF 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 Al 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	

Wiz Sense | DH-XVR5116H-I2

Construction

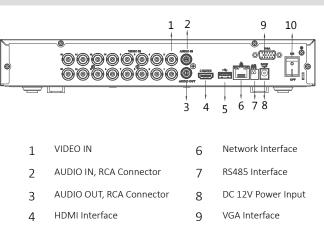
Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80" × 10.10" × 2.17")
Net Weight (without HDD)	1.2 kg (2.6 lb)
Gross Weight	2.0 kg (4.4 lb)
Installation	Desktop installation
Environmental	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH
Third-party Support	
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

Description

Mini 1U WizSense Digital Video Recorder

Panels



Power Switch

10

5 USB Interface

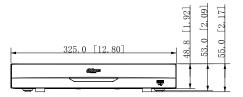
16 Channel WizSense XVR DH-XVR5116H-I2

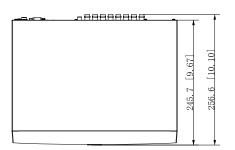
Туре

Ordering Information

Model

Dimensions (mm[inch])





Rev 001.001 © 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.