

DH-XVR7416L-4K-I2

16 Channel Penta-brid 4K 1.5U 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, 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 12MP; 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
- ${\boldsymbol \cdot}$ 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	Technical Specification		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		Display		
Performance	6 channels, 10 IVS for each channel	Interface	2 HDMI, 1 VGA, 1 TV	
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Resolution	HDMI 1:3840×2160, 1920×1080, 1280×1024, 1280×720 HDMI2/VGA: 1920×1080, 1280×1024, 1280×720	
Al Search	Search by target classification (Human, Vehicle)		When IP extension mode not enabled: 1/4/8/9/16	
Face Recognition		Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16/25/36	
Performance	6 channels, max 12 face pictures/sec processing	OSD	Camera title, Time, Video loss, Camera lock, Motion 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®ions and state can be added to each face picture.	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.)	
Database Application	Each database can be applied to video channels independently .	Max. User Access	128 users	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording,	Smart Phone	iPhone, iPad, Android	
	Alarm Out, PTZ Activation, etc.	Interoperability	ONVIF 16.12, CGI Conformant	
SMD Plus		Video Detection and	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 and Audio		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Analog Camera Input	16 channels, BNC	Alarm input	16	
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Relay Output	6	
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback and Backup		
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	1/4/9/16	
CVBS Camera Input	PAL/NTSC	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
IP Camera Input	16+16 channels, each channel up to 12MP	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	
Audio In/Out	4/1, BNC	Backup Mode	USB Device/Network	
Two-way Talk	1 Mic In, 1 Mic Out, BNC	Storage		
Recording		Internal HDD	4 SATA Ports, up to 10TB capacity for each disk	
Compression	Al Coding/H.265+/H.265/H.264+/H.264	eSATA	1 Port	
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface		
Record Rate	Main stream: 4K (1fps–15fps); 6MP/5MP(1fps–25fps); 4K-N/4MP/3MP/1080P/720P/960H/D1/CIF (1fps– 25/30fps) Sub steram:960H(1fps–15fps); D1/CIF(1fps–25/30fps)	USB	3 USB Ports (1 USB 2.0 , 2 USB 3.0)	
		RS485	1 Port, for PTZ Control	
Bit Rate	32 Kbps–8192 Kbps Per Channel	RS232	1 Port, For PC Communication & Keyboard	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering),	Electrical		
	Alarm, Stop	Power Supply	AC100V-240V, 50/60Hz	
		Power Consumption (Without HDD)	<30W	

Wiz Sense | DH-XVR7416L-4K-I2

Construction

Dimensions	1.5U, 440 mm × 416 mm × 76 mm (17.32" × 16.37" × 2.99")
Net Weight (without HDD)	4.9 kg (10.7 lb)
Gross Weight	7.1 kg (15.7 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

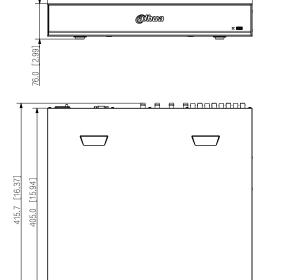
Certifications

	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

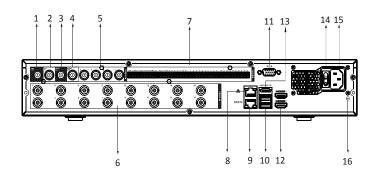
Ordering Information Type Model Description 16 Channel DH-XVR7416L-WizSense XVR 4K-I2 1.5U WizSense Digital Video Recorder

440.0 [17.32]

Dimensions (mm[inch])



Panels



1 Mic Out Mic In 3 Video Out Audio Out Video In 5 Audio In 7 Alarm Input/Output 8 Network Port 9 RS-232 Port 10 USB Ports 11 VGA Port 12 HDMI Ports 13 eSATA Port 14 Power Switch 15 Power Input 16 Ground