

DH-XVR5104H-4KL-I3

4 Channel Penta-brid 5MP Mini 1U 1HDD 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.

Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-4KL-I3 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 Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 8 channels IP camera inputs, each channel up to 8MP; Max
 64 Mbps incoming bandwidth
- Up to 1 channel video stream (analog channel) Perimeter Protection
- Up to 4 channels video stream (analog channel) SMD Plus
- Up to 1 channel video stream (analog channel) human face recognition
- · IoT & POS functionalities



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 4K HDCVI camera and 8MP 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. 700 m for 4K/4MP, 800 m for 1080p and 1200 m 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 Specificati	on	Record Interval	1 min – 60 min (default: 60 min), Pre-record: 1 s – 30 s, Post-record: 10 s – 300 s		
System		Audio Compression	Post-record: 10 s – 300 s 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			or rops per channel		
Performance	1 channel, 10 IVS for each channel	Display	1110041-1-1/64		
Object classification	Human/Vehicle secondary recognition for tripwire and	Interface	1 HDMI; 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×		
	intrusion	Resolution	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Al Search	Search by target classification (Human, Vehicle)	Multi-screen Display	When IP extension mode not enabled: 1/4		
Face Recognition		Waiti-screen display	When IP extension mode enabled: 1/4/8/9 Camera title; Time; Video loss; Camera lock; Motion		
Performance	Max 8 face pictures/sec processing	OSD	detection; Recording		
	1 channel video stream face recognition, only support analog camera	Network			
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually	Interface	1 RJ-45 Port (100 MB)		
Al Search	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		
Databasa Managamant	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type,		(Supports Dahua IP camera, DVR, NVS, etc.)		
Database Management	cerificate No., countries®ions and state can be added to each face picture	Max. User Access	128 users		
Database Application	Each database can be applied to video channels	Smart Phone	iPhone; iPad; Android		
	independently Buzzer, Voice Prompts, Email, Snapshot, Recording,	Interoperability	ONVIF 16.12, CGI Conformant		
Trigger Events	Alarm Out, PTZ Activation, etc.	Video Detection and	Video Detection and Alarm		
SMD Plus		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		
Performance	4 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 4 channels, BNC		Playback and Backu			
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 50/60 fps, 720p@ 25/30 fps	Playback	1/4		
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps		Time/Date, Alarm, MD and Exact Search (accurate to		
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps		second) Play; Pause; Stop; Rewind; Fast play; Slow Play; Next		
CVBS Camera Input	PAL/NTSC	Playback Function	File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup Selection; Digital Zoom		
IP Camera Input	4+4 channels, each channel up to 8MP	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 10 TB capacity		
Recording		eSATA	N/A		
Compression	Al Coding/H.265+/H.265/H.264+/H.264	Auxiliary Interface			
Resolution	4K; 6MP; 5MP; 4MP; 3MP; 4M-N; 1080p; 720p; 960H; D1; CIF	USB	2 USB ports (USB 2.0)		
Record Rate	Main stream: All channel 4K (1 fps—7 fps); 6MP (1 fps—10 fps); 5MP (1 fps—12 fps); 4MP/3MP (1 fps—15 fps); 4M-N/1080p/720p/960H/D1/CIF (1 fps—25/30 fps); Sub steram:960H (1 fps—15 fps); D1/CIF (1 fps—25/30 fps)	RS485	1 port, for PTZ control		
		RS232	N/A		
Bit Rate	32 kbps–6144 kbps per channel	Electrical			
Record Mode	Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Alarm; Stop	Power Supply	DC 12V/2A		
		Power Consumption (Without HDD)	<7W		

Wiz Sense | DH-XVR5104H-4KL-I3

Construction

Dimensions	Mini 1U, 325.0 mm × 256.6 mm × 55.0 mm (12.80" × 10.10" × 2.17")
Net Weight (without HDD)	1.3 kg (2.87 lb)
Gross Weight	1.76 kg (3.88 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)

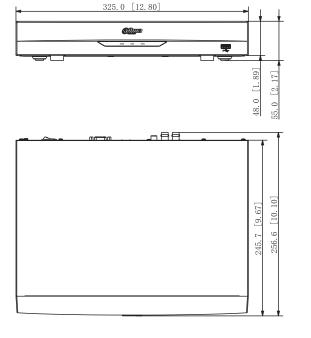
Third-party Support

Certifications

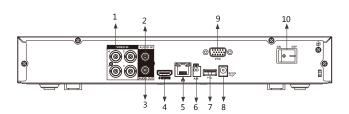
	FCC: Part 15 Subpart B
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50130; EN 55024

Ordering Information Type Model Description 4 Channel DH-XVR5104H-WizSense XVR 4KL-13 Mini 1U WizSense Digital Video Recorder

Dimensions (mm[inch])



Panels



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