

# DH-XVR5104HS-4KL-I3

## 4 Channel Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder



• 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
- $\cdot$  Up to 4 channels video stream ( analog channel ) SMD Plus
- Up to 1 channel 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.

#### **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.

#### 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 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 informaton and analyze. Person & Vehicle optonal for playback to achieve quick target search, saving event retrieval tme.

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#### **Technical Specification** System Main Processor Embedded processor Embedded linux **Operating System** Perimeter Protection Performance 1 channel, 10 IVS for each channel Human/Vehicle secondary recognition for tripwire and Object classification intrusion Search by target classification (Human, Vehicle) AI Search Face Recognition Max 8 face pictures/sec processing Performance 1 channel 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 20,000 face images in total. Name, gender, birthday, address, certificate type, Database Management cerificate No., countries&regions 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 4 channels AI Search Search by target classification (Human, Vehicle) Video and Audio Analog Camera Input 4 channels. BNC 4K, 6MP, 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 50/60 HDCVI Camera Input fps,720p@ 25/30 fps AHD Camera Input 4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps TVI Camera Input 4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps **CVBS** Camera Input PAL/NTSC IP Camera Input 4+4 channels, each channel up to 8MP 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 4K; 6MP; 5MP; 4MP; 3MP; 4M-N; 1080P; 720P; 960H; Resolution D1; CIF 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); Record Rate 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) Bit Rate 32 kbps-6144 kbps per channel Manual; Schedule (General, Continuous); MD (Video Record Mode detection: Motion Detection, Video Loss, Tampering); Alarm; Stop

Record Interval	1 min– 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-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	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8/9		
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording		
Network			
Interface	1 RJ-45 Port (100 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		
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 10 TB capacity		
eSATA	N/A		
Auxiliary Interface			
USB	2 USB ports (USB 2.0)		
RS485	1 port, for PTZ control		
RS232	N/A		
Electrical			
Power Supply	DC 12V/2A		
Power Consumption (Without HDD)	<7W		

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#### Construction

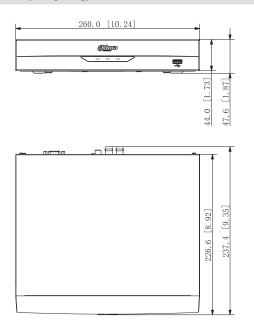
Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87")	
Net Weight (without HDD)	0.53 kg (1.17 lb)	
Gross Weight	1.07 kg (2.36 lb)	
Installation	Desktop installation	
Environmental		
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0%–90% (RH)	
Storage Conditions	-20°C to +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 1 2 9 8 0 Ø 0 8 3 5678 4 VIDEO IN RS485 Interface 1 6 2 AUDIO IN, RCA Connector 7 USB Interface 3 AUDIO OUT, RCA Connector DC 12V Power Input 8 4 HDMI Interface 9 VGA Interface 5 Network Interface

### **Ordering Information**

Туре	Model	Description
4 Channel	DH-XVR5104HS-	Compact 1U WizSense Digital Video
WizSense XVR	4KL-I3	Recorder

### Dimensions (mm[inch])



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