



# DH-XVR5104HS-4KL-I3

## 4CH Penta-brid 4K Value/5MP Compact 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 Series featuring max.full-channel SMD Plus to benefit customers from Al upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, 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**

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

\*Face Recognition conflicts with SMD Plus and Perimeter Protection

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

### SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

# \* The parameters and datasheets below can only be applied to Hardware Version 3.0.

- · H.265+/H.265 dual-stream video compression.
- · Supports all-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 4 channels video stream (analog channel) perimeter protection.
- · Up to 4 channels video stream (analog channel) SMD plus.
- · Up to 2 channels video stream (analog channel) human face recognition.
- · IoT & POS functionalities.



#### **Scheduled AI**

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

#### **Smart Dual Illuminators**

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of Al-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

#### One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

#### **Customizable Alarm Audio**

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

#### **AI Coding**

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

#### **Audio over Coax**

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

			1 HDMI, 1 VGA	
Technical Specification			HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
System  Main Processor	Industrial-grade processor	Video Output	VGA: $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ *Simultaneous/heterogeneous video sources output for	
Operating System	Embedded Linux		VGA and HDMI is configurable	
Operating System Operating Interface	Web; Local GUI	Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8/9	
Perimeter Protection		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Perimeter Performance AI Advanced Model: 2 channels, 10 IVS for each channel			Compression Standard	
by Recorder (Number of Channels)	General Model: 4 channels, 10 IVS for each channel	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Face Detection		Audio Compression	G.711a; G.711u; PCM	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network		
Face Detection Performance of AI by Recorder (Number of	2 channels (up to 8 face images/s each channel)	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; P2P; Auto Registration	
Channels)		Mobile Phone Access	iOS; Android	
Face Recognition		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
Face Recognition	Up to 10 face databases with 20,000 face images in total.	Browser	Chrome IE9 or later Firefox	
	2 channels	Network Mode	Single-address mode	
SMD Plus		Recording Playback	Recording Playback	
	4 channels: Secondary filtering for human and motor	Record Mode	General, motion detection; intelligent; alarm; POS	
SMD Plus by Recorder	vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback	1/4	
Audio and Video		Backup Method	USB device and network	
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
	detect	Alarm		
	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps. 2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps	General Alarm	Motion detection; video loss; video tampering;	
Camera Input		Anomaly Alarm	No disk; disk error; disk full; offline; IP conflict; MAC conflict	
		Intelligent Alarm	Face detection; face recognition; perimeter protection	
IP Camera Input	Up to 8 channels of IPC access 4 IP channels by default + 4 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; voice prompt; buzzer; log; preset; email	
		Ports		
		Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)	
		Audio Output	1-channel RCA	
	Main stream: 4K@(1 fps-1 fps); 6 MP@(1 fps-10 fps); 5 MP@(1 fps-12 fps); 4K-N, 4 MP, 3 MP@(1 fps-15 fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1 fps-25/30 fps); Sub stream: 960H@(1 fps-15 fps); D1/CIF@(1 fps-25/30 fps)	Two-way Talk	Yes (share the same audio input with the first channel)	
Encoding Capacity		HDD Interface	1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature.	
		RS-485	1 port, for PTZ control	
Dual-stream	Yes	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Video Bit Rate	32 kbps-6144 kbps	HDMI	1	
Audio Sampling	8 kHz, 16 bit	VGA	1	
Audio Bit Rate	64 kbps	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	

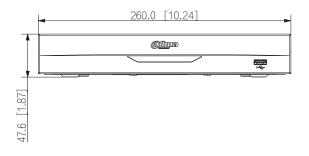
#### General

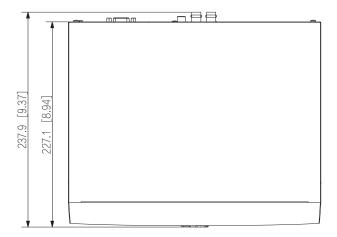
Power Supply	12 VDC , 2 A	
Power Consumption	<7 W (without HDD)	
Net Weight	0.96 kg (2.12 lb)	
Gross Weight	1.37 kg (3.03 lb)	
Product Dimensions	260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87") (W × D × H)	
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.12" × 3.51" × 12.41") (W × D × H)	
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	≤93% (RH)	
Installation	Rack or desktop	
Certifications	CE: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035 FCC: Part 15 Subpart B	

# **Ordering Information**

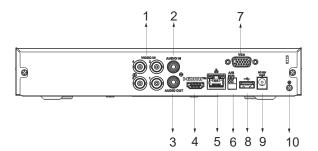
Туре	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5104HS- 4KL-I3	4CH Penta-brid 4K Value/5MP Compact 1U 1HDD WizSense Digital Video Recorder

## Dimensions (mm[inch])





### **Panels**



- 1 VIDEO IN 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector 4
- 5 Network Port
- 7 VGA Port
- 9 Power Input
- HDMI Port
- 6 RS-485 Port
- 8 USB Port
- 10 Ground