

# DH-XVR5104H-4KL-I3-4P

# 4 Channels Penta-brid 4K-N/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 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**

## **PoC Series**

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

# **Face Recognition**

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

\*The Face Recognition is conflicted 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.

- · 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 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.
- · All-channel support PoC AT & AF camera. Auto recognize the PoC camera of different power consumptions.



#### 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, AI 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.

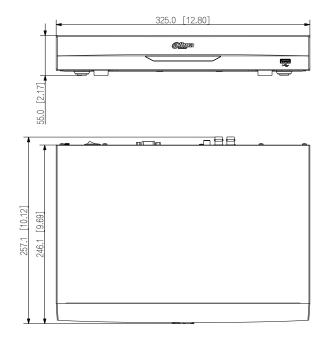
Technical Specification			1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
System		NEL 0		
Main Processor	Industrial-grade processor	Video Output VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video source		
Operating System	Embedded Linux		VGA and HDMI is configurable.	
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		
Perimeter Performance Al by Recorder (Number of	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel	Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Channels)		Compression Standa	Compression Standard	
Face Detection		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Audio Compression	G.711a; G.711u; PCM	
Face Detection	2 channels (up to 8 face images/s each channel) )	Network		
Performance of AI by Recorder (Number of Channels)		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P	
Face Recognition		Mobile Phone Access	IOS; Android	
	Up to 10 face databases with 20,000 face images in	Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI	
Face Database Capacity	total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be	Browser	Chrome, IE9 or later, Firefox	
	added to each face image	Network Mode	Single-address mode	
Face Recognition Performance of AI by	2 channels	Recording Playback		
Recorder (Number of Channels)	Zullailleis	Record Mode	General, motion detection; intelligent; alarm; POS	
SMD Plus		Recording Playback	1/4	
	4 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Backup Method	USB device and network	
SMD Plus by Recorder		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Audio and Video		Alarm	Alarm	
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	General Alarm	Motion detection; video loss; tampering; local alarm	
	1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.	Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict	
Camera Input		Intelligent Alarm	Face detection; face recognition; perimeter protection	
	3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.  Up to 8 channels of IPC access 4 IP channels by default + 4 channels (analog channels	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email	
IP Camera Input	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.	Ports		
		Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)	
		Audio Output	1-channel RCA	
	Main stream: All channel 4K@ (1 fps-7 fps); 6MP@ (1 fps-10 fps); 5MP@ (1 fps-12 fps); 4K-N, 4MP, 3MP@ (1 fps-15 fps);4M-N, 1080p, 720p, 960H, D1, CIF@ (1 fps-25/30 fps); Sub stream: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 for each disk. The maximum HDD capacity varies with environment temperature.	
Dual-stream	Yes	RS-485	1 port, for PTZ control	
Video Bit Rate	32 kbps-6144 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Audio Sampling	8 kHz, 16 bit	HDMI	1	
Audio Bit Rate	64 kbps	VGA	1	

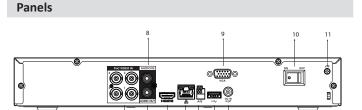
# Wiz Sense | DH-XVR5104H-4KL-I3-4P

Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
General		
Power Supply	53 VDC , 1.13 A	
Power Consumption	<7 W (without HDD)	
Net Weight	1.10 kg (2.43 lb)	
Gross Weight	2.15 kg (4.74 lb)	
Product Dimensions	325.0 mm $\times$ 257.1 mm $\times$ 55.0 mm (12.80" $\times$ 10.12" $\times$ 2.17") (W $\times$ D $\times$ H)	
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Operating Humidity	10%-90% (RH)	
Installation	Rack or desktop	
Certifications	CE: CE-LVD: EN 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

Ordering Information				
Туре	Model	Description		
4 Channels WizSense XVR	DH-XVR5104H-4KL- I3-4P	Mini 1U DIGITAL VIDEO RECORDER		

# Dimensions (mm[inch])





3 4 5 6 7

- 1 VIDEO IN
- 3 HDMI Port
- 5 RS-485 Port
- 7 Power Input 9 VGA Port
- 9 VGA Port 11 Ground
- 2 AUDIO OUT, RCA Connector
- 4 Network Port
- 6 USB Port
- 8 AUDIO IN, RCA Connector
- 10 Power Switch