

# DH-XVR5104HE-4KL-I3

## 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 AI 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 to recognize the person identity.

\*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

#### **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.

#### **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.

- · H.265+/H.265 dual-stream video compression
- · Supports all-channels 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 1 channel 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.

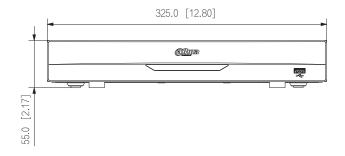
Technical Specification		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
System			Compression Standard	
Main Processor	Industrial-grade processor	Video Compression	Al Coding; H.265+; H.265; H.264+; H.264	
Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM	
Operating Interface	Web; Local GUI	Network	, ,	
Perimeter Protection			HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP;	
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Model : 1 channel, 10 IVS for each channel General Model : 4 channels, 10 IVS for each channel	Network Protocol	DNS; DDNS; P2P	
		Mobile Phone Access	iOS; Android	
Face Detection		Interoperability	ONVIF 21.06; CGI Conformant	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Browser	Chrome IE9 or later Firefox	
Face Detection Performance of Al by Recorder (Number of	1 channel (up to 8 face images/s)	Network Mode	Single-address mode	
Channels) Face Recognition		Recording Playback		
Face Necognition  Face Database Capacity	Up to 10 face databases and 20,000 images.	Record Mode	General, motion detection; intelligent; alarm; POS	
Face Recognition	op to 10 face databases and 20,000 images.	Recording Playback	1/4	
Performance of AI by Recorder (Number of	1 channel	Backup Method	USB device and network	
Channels)		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
SMD Plus		Alarm	Alarm	
SMD Plus by Recorder	4-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection, video loss, tampering and local alarm	
Audio and Video		Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
Analog Camera Input	4 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Intelligent Alarm	Face detection, face recognition, perimeter protection	
	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.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
Camera Input		Ports		
	3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.	Audio Input	4-channel BNC (Coaxial Audio)	
	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 outstains bandwidth (44 Mbps).	Audio Output	1-channel RCA	
IP Camera Input		Two-way Talk	Yes (share the same audio input with the first channel)	
	Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be	Alarm Input	8	
	channels, the Ai Function (IVS, SMID, FACE) Will be disabled.	Alarm Output	3	
Encoding Capacity	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 steram: 960H (1 fps–15 fps); D1/CIF (1 fps–25/30 fps)	HDD Interface	$1\mbox{SATA}$ port, up to $16\mbox{TB}$ . The maximum HDD capacity varies with environment temperature.	
		RS-485	1	
Dual-stream	Yes	USB	2 USB ports (USB 2.0)	
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)	
	1 HDMI, 1 VGA	General	General	
Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Power Supply	12 VDC, 2 A	
		Power Consumption	<7 W	
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8/9	Net Weight	1.3 kg (2.87 lb)	

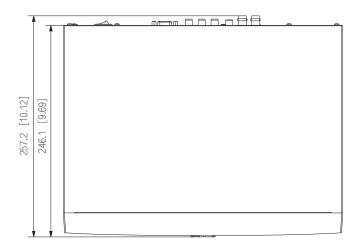
## Wiz Sense | DH-XVR5104HE-4KL-I3

Gross Weight	1.9 kg (4.18 lb)		
Product Dimensions	325.0 mm $\times$ 257.2 mm $\times$ 55.0 mm (12.80" $\times$ 10.10" $\times$ 2.17") (W $\times$ D $\times$ H)		
Packaging Dimensions	372.0 mm $\times$ 308.0 mm $\times$ 117.0 mm (14.65" $\times$ 12.13" $\times$ 4.61") (W $\times$ D $\times$ H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Operating Humidity	0%-90% (RH)		
Installation	Desktop		
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; EN50130; EN 55024		

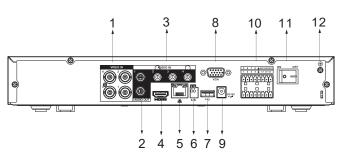
Ordering Information				
Туре	Model	Description		
4 Channels WizSense XVR	DH-XVR5104HE- 4KL-I3	Mini 1U WizSense Digital Video Recorder		

### Dimensions (mm[inch])





#### **Panels**



- 1 VIDEO IN 2 AUDIO OUT, RCA Connector
- 3 AUDIO IN, RCA Connector 4 HDMI Port
   5 Network Port 6 RS-485 Port
   7 USB Port 8 VGA Port
- 9 Power Input 10 Alarm In/Out
- 11 Power Switch 12 Ground