

# DH-XVR5104HS-4KL-I3

4 Channels Penta-brid 4K-N/5MP Compact 1U 1HDD WizSense Digital Video Recorder



# Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 AI-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.

# Wiz Sense | DH-XVR5104HS-4KL-I3

Technical Specification		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
System		Compression Stand	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		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP	
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model : 1 channel, 10 IVS for each channel General Model : 4 channels, 10 IVS for each channel	Mobile Phone Access	DNS; DDNS; P2P 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 AI by	1 channel (up to 8 face images/s)	Network Mode	Single-address mode	
Recorder (Number of Channels)		Recording Playback	Recording Playback	
Face Recognition		Record Mode	General, motion detection; intelligent; alarm; POS	
Face Database Capacity	Up to 10 face databases and 20,000 images.	Recording Playback	1/4	
Face Recognition		Backup Method	USB device and network	
Performance of AI by Recorder (Number of Channels)	1 channel	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
SMD Plus		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	
·		Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
Audio and Video		Intelligent Alarm	Face detection, face recognition, perimeter protection	
Analog Camera Input	4 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output access controller, voice prompt, buzzer, log, preset, email	
Camera Input	<ol> <li>CVI: 4K, 6 MP, 5 MP, 4 MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps.</li> <li>TVI: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps.</li> <li>AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720 for the second se</li></ol>	Ports	Ports	
		Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)	
	720p@25/30 fps. 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.	Audio Output	1-channel RCA	
		Two-way Talk	Yes (share the same audio input with the first channel)	
IP Camera Input		HDD Interface	1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature.	
		RS-485	1 port, for PTZ control	
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)	USB	2 USB ports (USB 2.0)	
		HDMI	1	
		VGA	1	
Dual-stream	Yes	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
Video Bit Rate	32 kbps–6144 kbps	General		
Audio Sampling	8 kHz, 16 bit	Power Supply	12 VDC, 2 A	
Audio Bit Rate	64 kbps	Power Consumption	<7 W	
Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Net Weight	0.53 kg (1.17 lb)	
		Gross Weight	1.07 kg (2.36 lb)	
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8/9	Product Dimensions	260.0 mm × 237.9 mm × 47.6 mm (10.24'' × 9.37'' × 1.87'') (W × D × H)	

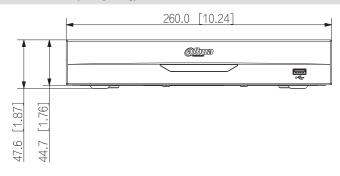
# Wiz Sense | DH-XVR5104HS-4KL-I3

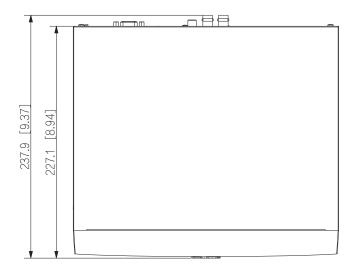
Packaging Dimensions	333.0 mm × 315.0 mm × 89.0 mm (13.11" × 12.40" × 3.50") (W× D × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	0%–90% (RH)
Installation	Desktop
Certifications	FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN50130; EN 55024

# **Ordering Information**

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

# Dimensions (mm[inch])





#### Panels 2 1 7 0000 Q 0 0 5 6 8 9 3 4 10 1 VIDEO IN 2 AUDIO IN, RCA Connector 3 AUDIO OUT, RCA Connector 4 HDMI Port 5 Network Port 6 RS-485 Port 8 USB Port 7 VGA Port 9 Power Input 10 Ground

Rev 002.000 © 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product