

DH-XVR5104HE-4KL-I3

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



Wiz Sense

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 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.

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Technical Specification System Main Processor Industrial-grade processor **Operating System** Embedded Linux Web; Local GUI **Operating Interface** Perimeter Protection Perimeter Performance AI Advanced Model : 1 channel, 10 IVS for each channel by Recorder (Number of General Model : 4 channels, 10 IVS for each channel Channels) Face Detection Gender; age group; glasses; expressions; face mask; Face Attributes beard Face Detection Performance of AI by 1 channel (up to 8 face images/s) Recorder (Number of Channels) Face Recognition Up to 10 face databases and 20,000 images. Face Database Capacity Face Recognition Performance of AI by 1 channel Recorder (Number of Channels) SMD Plus 4-channel: Secondary filtering for human and motor SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video 4 channels, BNC: adaptive access by default; HDCVI, AHD, Analog Camera Input TVI and CVBS access can be configured. 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, Camera Input 720p@25/30 fps. 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 are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 IP Camera Input Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. 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 **Encoding Capacity** 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) Dual-stream Yes 32 kbps-6144 kbps Video Bit Rate Audio Sampling 8 kHz, 16 bit Audio Bit Rate 64 kbps 1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 When IP extension mode not enabled: 1/4 Multi-screen Display When IP extension mode enabled: 1/4/8/9

Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung		
Compression Standard			
Video Compression	AI Coding; H.265+; H.265; H.264+; H.264		
Audio Compression	G.711a; G.711u; PCM		
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P		
Mobile Phone Access	iOS; Android		
Interoperability	ONVIF 21.06; CGI Conformant		
Browser	Chrome IE9 or later Firefox		
Network Mode	Single-address mode		
Recording Playback			
Record Mode	General, motion detection; intelligent; alarm; POS		
Recording Playback	1/4		
Backup Method	USB device and network		
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)		
Alarm			
General Alarm	Motion detection, video loss, tampering and local alarm		
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict		
Intelligent Alarm	Face detection, face recognition, perimeter protection		
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email		
Ports			
Audio Input	4-channel RCA 4-channel BNC (Coaxial Audio)		
Audio Output	1-channel RCA		
Two-way Talk	Yes (share the same audio input with the first channel)		
Alarm Input	8		
Alarm Output	3		
HDD Interface	1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature.		
RS-485	1		
USB	2 USB ports (USB 2.0)		
HDMI	1		
VGA	1		
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)		
General			
Power Supply	12 VDC, 2 A		
Power Consumption	<7 W		
Net Weight	1.3 kg (2.87 lb)		

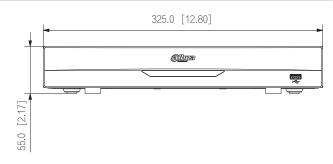
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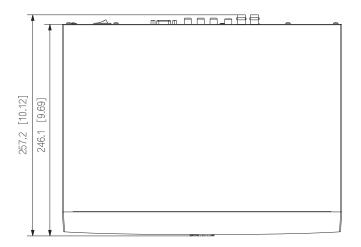
Gross Weight	1.9 kg (4.18 lb)	
Product Dimensions	325.0 mm × 257.2 mm × 55.0 mm (12.80" × 10.10" × 2.17") (W × D × H)	
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Operating Humidity	0%–90% (RH)	
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-XVR5104HE-	Mini 1U WizSense Digital Video
WizSense XVR	4KL-I3	Recorder

Dimensions (mm[inch])





Panels 3 8 10 12 11 1 ø 00 0 = 0 2 4 5679 1 VIDEO IN 2 AUDIO OUT, RCA Connector 3 AUDIO IN, RCA Connector 4 HDMI Port 5 Network Port 6 RS-485 Port 8 VGA Port 7 USB Port 10 Alarm In/Out 9 Power Input

- 11 Power Switch
- 12 Ground

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