



DH-XVR5116H-4KL-I3

16 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.

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 32 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- Up to 8 channels video stream (analog channel) Perimeter Protection.
- Up to 16 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.

64 kbps

Audio Bit Rate

Technical Specification			1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
System	System			
Main Processor	Industrial-grade processor		*Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.	
Operating System	Embedded Linux	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16	
Operating Interface	Web; Local GUI		When IP extension mode enabled: 1/4/8/9/16/25/36	
Perimeter Protection		Third-party Camera Access	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel	Compression Stand	Compression Standard	
		Video Compression	Al Coding; H.265+; H.265; 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 12 face images/s)	Network Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P	
Channels)	, , , , , , , , , , , , , , , , , , ,	Mobile Phone Access	iOS, Android	
Face Recognition		Interoperability	ONVIF 21.06, CGI	
5 5 1 6 "	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type,	Browser	Chrome, IE9 or later, Firefox	
Face Database Capacity	cerificate No., countries®ions and state can be added to each face picture	Network Mode	Single-address mode	
Face Recognition	2 channels	Recording Playbacl	Recording Playback	
Performance of AI by Recorder (Number of		Record Mode	General, motion detection; intelligent; alarm; POS	
Channels) SMD Plus		Recording Playback	When the AI Function (IVS, FACE) is not enabled: 1/4/9/16 When the AI Function (IVS, FACE) is enabled: 1/4/9	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change, secondary filtering for human and motor vehicle SMD Plus, reducing false alarms	Backup Method	USB device and network	
		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
	caused by leaves, rain and lighting condition change	Alarm		
Audio and Video		General Alarm	Motion detection, video loss, tampering, and local alarm	
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect	Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict	
	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. 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080P@25/30 fps, 720P@25/30 fps.	Intelligent Alarm	Face detection, face recognition, perimeter protection	
Camera Input		Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
		Ports	Ports	
IP Camera Input	Up to 32 channels of IPC access 16 IP channels by default + 16 channels (analog channels are converted to IP channels)	Audio Input	1-channel RCA (external) 16-channel BNC (coaxial audio)	
	incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps	Audio Output	1-channel RCA	
	*After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.	Two-way Talk	Yes (share the same audio input with the first channel)	
	Main stream: All channels 4K@ (1-7 fps); 6 MP@ (1-10 fps); 5 MP @ (1-12 fps); 4K-N/4 MP/3 MP@ (1-15 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)	HDD Interface	1 SATA port,up to 16 TB, the maximum HDD capacity varies with environment temperature	
Encoding Capacity		RS-485	1	
Dual-stream	Yes	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
Video Frame Rate	PAL: 1 fps–25 fps	HDMI	1	
	NTSC: 1 fps–30 fps	VGA	1	
Video Bit Rate	32 kbps–6144 kbps per channel	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
Audio Sampling	8 kHz, 16 bit			

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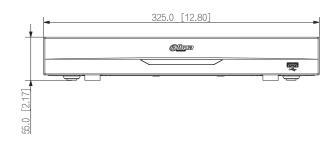
General

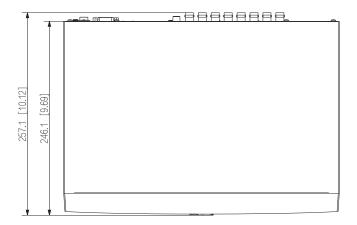
Power Supply	12 VDC, 3 A	
Power Consumption	Lower than 15 W (without HDD)	
Net Weight	1.23 kg (2.71 lb)	
Gross Weight	2.11 kg (4.65 lb)	
Product Dimensions	Mini 1U, 325.0 mm × 257.1 mm × 55.0 mm (12.80" × 10.12" × 2.17") (W × D × H)	
Packaging Dimensions	372.0 mm \times 117.0 mm \times 308.0 mm (14.65" \times 4.61" \times 12.13") (W \times D \times H)	
Operating Temperature	−10 °C to +55 °C (−14 °F to +131 °F)	
Operating Humidity	10%-90% (RH)	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000- 3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

Ordering Information

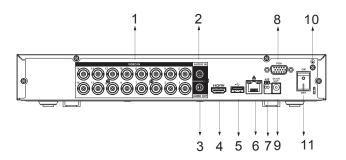
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Туре	Model	Description
16 Channels WizSense XVR	DH-XVR5116H- 4KL-I3	Mini 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])





Panels



- 1 Video In
- 3 Audio Out
- 5 USB Port
- 7 RS-485 Port
- 9 DC 12V Power Input
- 2 Audio In
- HDMI Port
- Network Port
- VGA Port
- 10 Ground
- 11 Power Switch