

DH-XVR5116H-4KL-I3

16 Channel 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.

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.
- \cdot Up to 2 channels video stream (analog channel) Perimeter Protection.
- \cdot 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

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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Audio Bit Rate

64 kbps

1 HDMI ,1 VGA **Technical Specification** HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output System VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for Industrial-grade processor Main Processor VGA and HDMI is configurable. Embedded Linux **Operating System** When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25/36 Web; Local GUI **Operating Interface** Third-party Camera Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Perimeter Protection Canon, Samsung Access Perimeter Performance AI **Compression Standard** 2 channel, 10 IVS rules for each channel by Recorder (Number of Channels) Al Coding; H.265+; H.265; H.264+;H.264 Video Compression Face Detection Audio Compression G.711a; G.711u; PCM Gender; age group; glasses; expressions; face mask; Face Attributes Network beard HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; Face Detection Network Protocol DHCP; DNS; DDNS; P2P Performance of AI by 2 channels (up to 12 face images/s) Recorder (Number of iOS Android Mobile Phone Access Channels) ONVIF 21.06, CGI Interoperability Face Recognition Up to 10 face databases with 20,000 face images in Chrome, IE9 or later, Firefox Browser total. Name, gender, birthday, address, certificate type, Face Database Capacity cerificate No., countries®ions and state can be added Network Mode Single-address mode to each face picture Face Recognition **Recording Playback** Performance of AI by 2 channels General, motion detection; intelligent; alarm; POS Recorder (Number of Record Mode Channels) When the AI Function (IVS, FACE) is not enabled:1/4/9/16 **Recording Playback** When the AI Function (IVS, FACE) is enabled:1/4/9 **SMD** Plus 16 channels: Secondary filtering for human and motor USB device and network **Backup Method** vehicle SMD Plus, reducing false alarms caused by leaves, Instant playback, general playback, event playback, tag rain and lighting condition change, secondary filtering Playback Mode SMD Plus by Recorder for human and motor vehicle SMD Plus, reducing false playback, smart playback (face and motion detection) alarms caused by leaves, rain and lighting condition Alarm change Audio and Video General Alarm Motion detection, video loss, tampering, and local alarm 16 BNC ports, CVI access by default, supports HDCVI/ No disk, storage error, low space, offline, IP conflict, MAC Analog Camera Input Anomaly Alarm AHD/TVI/CVBS auto-detect conflict 1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080P@25/30 fps, Face detection, face recognition, perimeter protection Intelligent Alarm 720P@50/60 fps, 720P@25/30 fps. 2. TVI: 4K, 5 MP, 4 MP, 3 MP, 1080P@25/30 fps, Record, snapshot (panoramic), IPC external alarm Camera Input 720P@25/30 fps Alarm Linkage output, access controller, voice prompt, buzzer, log, 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080P@25/30 fps, preset, email 720P@25/30 fps. Up to 32 channels of IPC access Ports 16 IP channels by default + 16 channels (analog channels are converted to IP channels) 1-channel RCA (external) Audio Input incoming bandwidth: 128 Mbps, recording bandwidth: 16-channel BNC (coaxial audio) **IP** Camera Input 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing 1-channel RCA Audio Output channels, the AI Function (IVS, SMD, FACE) well be disabled Yes (share the same audio input with the first channel) Two-way Talk Main stream: All channel 4K@(1-7 fps); 6MP@ (1-10 1 SATA port, up to 16 TB, the maximum HDD capacity fps); 5MP@ (1-12 fps); 4K-N/4 MP/3 MP@ (1-15 fps); HDD Interface varies with environment temperature 4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps); **Encoding Capacity** Sub stream: 960H@ (1 fps-15 fps); D1/CIF@ (1 fps-25/30 RS-485 1 fps) 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) USB Dual-stream Yes PAL: 1 fps-25 fps. HDMI Video Frame Rate NTSC: 1 fps-30 fps VGA 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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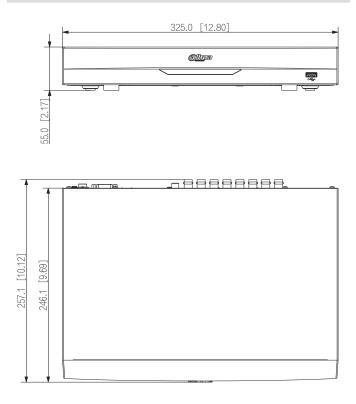
General

Power Supply	12 VDC, 3 A	
Power Consumption	Lower than 15 W	
Net Weight	1.23 kg (2.71 lb)	
Gross Weight	2.11 kg (4.65 lb)	
Product Dimensions	Mini 1U, 325.0 mm × 256.6 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	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	

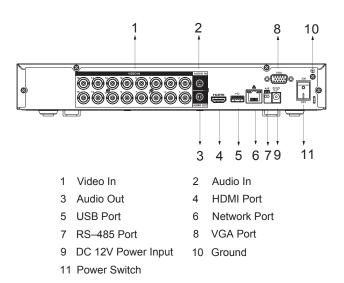
Ordering Information

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

Dimensions (mm[inch])



Panels



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