

DH-XVR5116HE-4KL-I3

16 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.

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

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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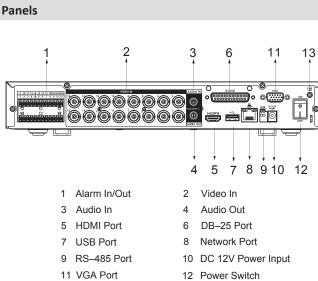
Technical Specification Μ System Τŀ Ac Main Processor Industrial-grade processor Μ Embedded Linux **Operating System** Web; Local GUI **Operating Interface** Th Ad Perimeter Protection С Perimeter Performance AI Advanced Model: 2 channels, 10 IVS for each channel by Recorder (Number of Vi General Model: 8 channels, 10 IVS for each channel Channels) Aı Face Detection Ν Gender; age group; glasses; expressions; face mask; **Face Attributes** beard Ne Face Detection Performance of AI by 2 channels (up to 12 face images/s) Μ Recorder (Number of Channels) Int Face Recognition Br Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, Ν Face Database Capacity cerificate No., countries®ions and state can be added to each face picture Re Face Recognition Re Performance of AI by 2 channels Recorder (Number of Channels) Re SMD Plus Ва 16 channels: Secondary filtering for human and motor PI SMD Plus by Recorder vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change A Audio and Video Ge 16 BNC ports, CVI access by default, supports HDCVI/ Analog Camera Input AHD/TVI/CVBS auto-detect Ar 1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps. Int 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30 fps, Camera Input 720P@25/30 fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30 fps, AI 720P@25/30 fps. Up to 32 channels of IPC access Ρ 16 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: A IP Camera Input 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing A channels, the AI Function (IVS, SMD, FACE) will be disabled. Τv Main stream: All channels 4K@(1-7 fps); 6MP@(1-10 fps); 5MP@(1-12 fps); 4K-N/4 MP/3 MP@(1-15 fps); AI **Encoding Capacity** 4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps); Sub stream: 960H@(1 fps-15 fps); D1/CIF@(1 fps-25/30 Al fps) Dual-stream Yes HI Video Bit Rate 32 kbps-6144 kbps per channel RS U Audio Sampling 8 kHz, 16 bit н 64 kbps Audio Bit Rate V 1 HDMI ,1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × Video Output 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Ν *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.

/ulti-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
hird-party Camera	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
Aulti-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
hird-party Camera	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
Compression Standar	d
ideo Compression	Al Coding; H.265+; H.265; H.264+;H.264
udio Compression	G.711a; G.711u; PCM
letwork	
letwork Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Nobile Phone Access	iOS, Android
nteroperability	ONVIF 21.06, CGI
rowser	Chrome, IE9 or later, Firefox
letwork Mode	Single-address mode
Recording Playback	
ecord Mode	General, motion detection; intelligent; alarm; POS
ecording 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
ackup Method	USB device and network
layback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
larm	
ieneral Alarm	Motion detection, video loss, tampering, and local alarm
nomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict
ntelligent Alarm	Face detection, face recognition, perimeter protection
larm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
Ports	
udio Input	16-channel RCA (external) 16-channel BNC (coaxial audio)
udio Output	1-channel RCA
wo-way Talk	Yes (share the same audio input with the first channel)
larm Input	16 channels
larm Output	3 channels
IDD Interface	1 SATA Port, up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature
S-485	1
ISB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
IDMI	1
'GA	1
letwork Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

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General

Power Supply	12 VDC, 3 A
Power Consumption	Lower than 15 W(without HDD)
Net Weight	1.45 kg (3.20 lb)
Gross Weight	2.33 kg (5.14 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 × 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

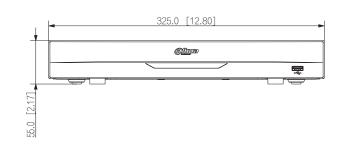


- 12 Power Switch
- 13 Ground

Ordering Information

Туре	Model	Description
16 Channels WizSense XVR	DH-XVR5116HE- 4KL-I3	Mini 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])



	1	
257.1 [10.12]	246.1 [9.69]	

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