

## DH-XVR5116HE-4KL-I3

## 16CH Penta-brid 4K Value/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 Al 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.

\*Face Recognition conflicts 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.

# \* The parameters and datasheets below can only be applied to Hardware Version 2.0.

- · 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.

#### Al 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.

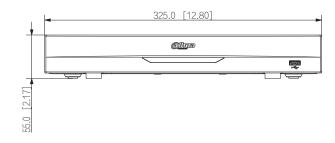
Technical Specification	on		1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
System		Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Main Processor	Industrial-grade processor		*Simultaneous/heterogeneous video sources output fo VGA and HDMI is configurable.
Operating System	Embedded Linux	Multi cerean Display	When IP extension mode not enabled: 1/4/8/9/16
Operating Interface	Web; Local GUI	Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16/25/3
Perimeter Protection		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
Perimeter Performance Al by Recorder (Number of	Advanced Model: 2 channels, 10 IVS for each channel	Compression Stand	ard
Channels)	General Model: 8 channels, 10 IVS for each channel	Video Compression	Al Coding; Smart H.265+; H.265; Smart 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	2 channels (up to 12 face images/s each channel) )	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Recorder (Number of Channels)		Mobile Phone Access	IOS; Android
Face Recognition		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be added to each face image	Browser	Chrome, IE9 or later, Firefox
Face Database Capacity		Network Mode	Single-address mode
Face Recognition	added to each race image	Recording Playback	
Performance of AI by Recorder (Number of	2 channels	Record Mode	General, motion detection; intelligent; alarm; POS
Channels)		Recording Playback	1/4/9/16
SMD Plus		Backup Method	USB device and network
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Audio and Video	agrand condition and agr	Alarm	
Audio and video		General Alarm	Motion detection; video loss; tampering; local alarm
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict
	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps.2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@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
	1080p@25/30 fps; 720p@25/30 fps  Up to 32 channels of IPC access	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) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.	Audio Input	16-channel RCA 16-channel BNC (Coaxial Audio)
		Audio Output	1-channel RCA
		Two-way Talk	Yes (share the same audio input with the first channel)
	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-25/30fps)	Alarm Input	16-channels
Encoding Capacity		Alarm Output	3-channels
		HDD Interface	1 SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.
Dual-stream	Yes	RS-485	1 port, for PTZ control
Video Bit Rate	32 kbps-6144 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
Audio Sampling	8 kHz, 16 bit	HDMI	1
Audio Bit Rate	64 kbps	VGA	1
		V U/A	-

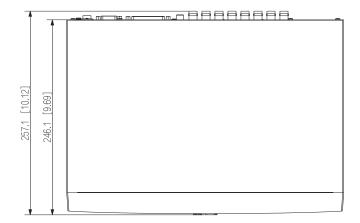
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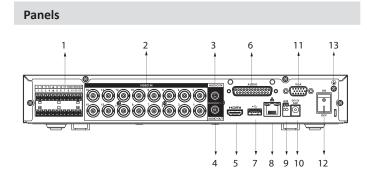
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	DC 12V, 3A	
Power Consumption	<15 W (without HDD)	
Net Weight	1.50 kg (3.31 lb)	
Gross Weight	2.30 kg (5.08 lb)	
Product Dimensions	325.0 mm $\times$ 257.1 mm $\times$ 55.0 mm (12.80" $\times$ 10.12" $\times$ 2.17") (W $\times$ D $\times$ 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	Rack or 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-XVR5116HE- 4KL-l3	16CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder		

## Dimensions (mm[inch])







- 1 Alarm In/Out 2 VIDEO IN
- 3 AUDIO IN, RCA Connector 4 AUDIO OUT, RCA Connector
- 5 HDMI Port
  - 6 DB–25 Port8 Network Port
- 7 USB Port9 RS-485 Port
- 10 Power Input
- 11 VGA Port
- 12 Power Switch
- 13 Ground