



# DH-XVR5416L-I3

## 16 Channels Penta-brid 5M-N/1080P 1.5U 4HDDs 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-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 takes effect when Face is selected in Al Mode.

#### **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.

\*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

#### 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.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

- H.265+/H.265 dual-stream video compression.
- Supports 16-channel Al-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 24 channels IP camera inputs, each channel up to 8MP; Max 128
   Mbps incoming bandwidth.
- Up to 4 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.



			2 LIDAM 1 VCA 1 TV		
Technical Specification			2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280		
System		Video Outros			
Main Processor	Embedded Processor	Video Output	× 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is		
Operating System	Embedded Linux				
Operating Interface	Web; Local GUI		configurable.		
Perimeter Protection		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25		
Perimeter Performance of Al by Camera (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung		
Face Detection		Compression Standa	Compression Standard		
Face Attributes	Gender; age group; glasses; expressions; face mask;	Video Compression	Al Coding; H.265+; H.265; H.264+; H.264		
Face Detection	beard	Audio Compression	G.711a; G.711u; PCM		
Performance of AI by	2 channels (up to 12 face images/s)	Network	Network		
Recorder (Number of Channels)		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P		
Face Recognition		Mobile Phone Access	iOS; Android		
Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be	Interoperability	ONVIF 21.06; CGI		
	added to each face image	Browser	Chrome, IE9 or later, Firefox		
Face Recognition		Network Mode	Multi-address mode, Fault Tolerance, Load Balance		
Performance of AI by Recorder (Number of Channels)	2 channels	Recording Playback			
SMD Plus		Record Mode	General, motion detection; intelligent; alarm; POS		
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	Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.		
		Backup Method	USB device and network		
Audio and Video		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)		
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect	Storage			
	1. CVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 1080p@25/30	Disk Group	Yes		
Camera Input	fps, 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Alarm			
		General Alarm	Motion detection; video loss; tampering; local alarm		
	Up to 24 channels of IPC access 8 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.	Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict		
IP Camera Input		Intelligent Alarm	Face detection; face recognition; perimeter protection		
ir Camera input		Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email		
	Main stream: All channels 5M-N@(1 fps-10 fps); 4M-N@	Ports			
Encoding Capacity	(1 fps-15 fps); 1080p@(1 fps-15 fps); 1080N@(1 fps- 25/30 fps); 720p@(1 fps-25/30 fps); 960H@(1 fps-25/30 fps); D1@(1 fps-25/30 fps); CIF@(1 fps-25/30 fps) Sub stream: D1@(1 fps-15 fps); CIF@(1 fps-15 fps)	TV Output	Yes		
Encouning Capacity		Audio Input	4-channel BNC (external) 16-channel BNC (coaxial audio)		
Dual-stream	Yes	Audio Output	1-channel BNC		
Video Frame Rate	PAL: 1 fps–25 fps NTSC: 1 fps–30 fps	Two-way Talk	1-channel BNC		
Video Bit Rate	32 kbps-6144 kbps	Alarm Input	16 channels		
Audio Sampling	8 kHz, 16 bit	Alarm Output	6 channels		
Audio Bit Rate	64 kbps	Additi Sutput	o diamete		
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# Wiz Sense | DH-XVR5416L-I3

HDD Interface	4 SATA ports,up to 16TB, the maximum HDD capacity varies with environment temperature		
eSATA	1		
RS-232	1 port, for PC Communication & Keyboard		
RS-485	1 port, for PTZ control		
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)		
HDMI	2		
VGA	1		
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)		

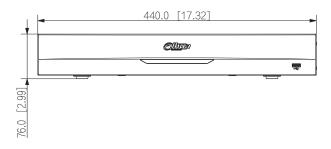
### General

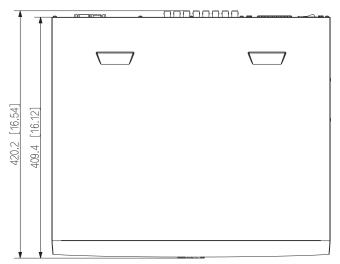
Power Supply	100–240 VAC, 50±2% Hz		
Power Consumption	<15 W (without HDD)		
Net Weight	4.45 kg (9.81 lb)		
Gross Weight	6.75 kg (14.88 lb)		
Product Dimensions	1.5U, 440 mm × 420.2 mm × 76 mm (17.32" × 16.54" × 2.99") (W × D × H)		
Packaging Dimensions	529.0 mm × 499.0 mm × 211.0 mm 20.83" × 19.65" × 8.31" (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**

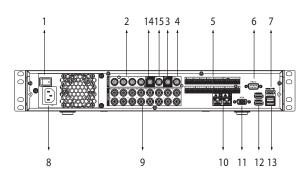
Туре	Model	Description
16 Channels WizSense XVR	DH-XVR5416L-I3	1.5U DIGITAL VIDEO RECORDER

## Dimensions (mm[inch])





## **Panels**



1	Power Switch	2	AUDIO IN
3	AUDIO OUT	4	VIDEO OUT
5	Alarm In/Out	6	RS-232 Port
7	eSATA Port	8	Power Input
9	VIDEO IN	10	Network Ports
11	VGA Port	12	HDMI Ports
13	USB Ports	14	MIC IN
15	MIC OUT		