

DH-XVR5816S-4KL-I3

16 Channels Penta-brid 4K-N/5MP 2U 8HDDs 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.

- · H.265+/H.265 dual-stream video compression.
- Supports 16-channel Al-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 32 channels IP camera inputs, each channel up to 12MP; 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, 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.

System Wideo Output Wideo Configurable. Third-party Camera Access OnVIF; Panasonic; Sony; Axis; Arecont; Pelco; Conditions output for HDM Configurable. Third-party Camera Access Compression Standard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Network	4, 1280 /II2 is /16 /25/36
Main Processor Industrial-grade processor Operating System Embedded Linux Operating Interface Web; Local GUI Multi-screen Display When IP extension mode not enabled: 1/4/8/9/ When IP extension mode enabled: 1/4/8/9/16/2 Perimeter Protection Perimeter Performance AI by Recorder (Number of Channels) Face Detection Face Attributes Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Audio Compression Network	/16 '25/36
Operating system Operating Interface Web; Local GUI Multi-screen Display When IP extension mode not enabled: 1/4/8/9/ When IP extension mode enabled: 1/4/8/9/16/3 Third-party Camera Access ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; C Samsung Compression Standard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Face Attributes Gender; age group; glasses; expressions; face mask; beard Network	25/36
Perimeter Protection Perimeter Performance AI by Recorder (Number of Channels) Face Detection Face Attributes Web, Eccardor Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/2 Third-party Camera Access Samsung ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; C Samsung Compression Standard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Audio Compression Audio Compression Network	25/36
Perimeter Performance AI by Recorder (Number of Channels) Face Detection Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Face Attributes Gender; age group; glasses; expressions; face mask; beard Network	Canon;
by Recorder (Number of Channels) Face Detection Gender; age group; glasses; expressions; face mask; beard Advanced Model: 2 channels, 10 IVS for each channel Compression Standard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression Gender; age group; glasses; expressions; face mask; beard Network	
Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Video Compression Al Coding; H.265+; H.265; H.264+; H.264 Audio Compression G.711a; G.711u; PCM Network	
Face Attributes beard Network	
Network	
Performance of Al by Recorder (Number of 2 channels (up to 12 face images/s) Network Protocol Network Protocol Network Protocol HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NDHCP; DNS; DDNS; DDNS; P2P	ITP;
Channels) Mobile Phone Access iOS; Android Face Recognition	
Interoperability ONVIF 21.12; CGI	
Face Database Capacity 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 Network Mode Multi-address mode, Fault Tolerance, Load Balar	nce
Face Recognition Performance of Al by Recording Playback	
Recorder (Number of Channels Record Mode General, motion detection; intelligent; alarm; Potential Record Mode General, motion detection; alar	'OS
SMD Plus Recording Playback 1/4/9/16	
Backup Method USB device and network	
SMD Plus by Recorder vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change Playback Mode Instant playback, general playback, event playback, rain and lighting condition change	
Audio and Video Storage	
Analog Camera Input 16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect Disk Group Yes	
1. CVI: 4K, 6 MP, 5 MP, 4 MP, 1080p@25/30 fps;	
720p@50/60 fps; 720p@25/30 fps. Camera Input Camera Input 720p@50/60 fps; 720p@25/30 fps. General Alarm Motion detection; video loss; tampering; local and alarm Alarma Input Camera Input Camera Input Motion detection; video loss; tampering; local and alarm Alarma Input Camera Input	alarm
720p@25/30 fps. 3. AHD: 4K, 5 MP, 4 MP, 3 MP, 1080p@25/30 fps; 720p@25/30 fps. Anomaly Alarm 720p@25/30 fps. No disk; storage error; disk full; camera offline; conflict; MAC conflict	IP
Up to 32 channels of IPC access Intelligent Alarm Face detection; face recognition; perimeter pro	otection
16 IP channels by default + 16 channels (analog channels are converted to IP channels) IP Camera Input 16 IP channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps Alarm Linkage Alarm Linkage output; access controller; voice prompt; buzzer preset; email	
*After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be Ports	
disabled. TV Output Yes	
Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 4K@(1fps-712fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps);	
Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps- Audio Output 1-channel BNC 25/30fps)	
Dual-stream Yes 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 HDD Interface 8 SATA ports, up to 16TB for a single HDD, the m	

eSATA

Wiz Sense | DH-XVR5816S-4KL-13

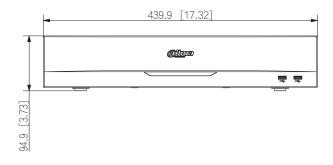
RS-232	1 port, for PC Communication & Keyboard
RS-485	1 port, for PTZ control
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	2
VGA	1
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)
Cananal	

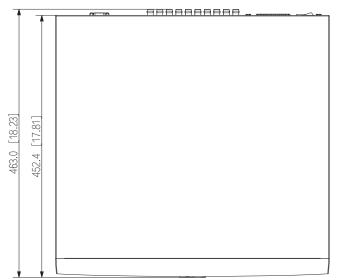
General

Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	<20 W
Net Weight	6.8 kg (14.99 lb)
Gross Weight	9.3 kg (20.50 lb)
Product Dimensions	2U, 439.9 mm × 463.0 mm × 94.9 mm (17.32" × 18.23" × 3.73") (W × D × H)
Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (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

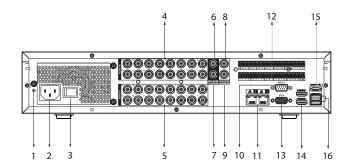
Ordering Information Type Model Description 16 Channels DH-XVR5816S-2U DIGITAL VIDEO RECORDER WizSense XVR 4KL-I3

Dimensions (mm[inch])





Panels



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