

# DH-XVR5108H-4KL-I3

# 8 Channel Penta-brid 4K-N/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 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**

### **Real Time Face Recognition**

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, face mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

#### **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving 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.

#### **AI Coding**

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

- H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 16 channels IP camera inputs, each channel up to 8MP; Max
   128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) Perimeter Protection
- Up to 8 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities
- Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable















#### Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

# HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

#### **High Definition Camera Input**

The XVR supports up to 4K HDCVI camera and 8MP IP camera input.

# Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

### **Long Distance Transmission**

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080p and 1200 m for 720p.

## **AI Search**

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

Technical Specification	on	
System		
Main Processor	Embedded processor	
Operating System	Embedded Linux	
Perimeter Protection		
Perimeter Performance Al by Recorder (Number of Channels)	2 channels	
Face Detection		
Face Attributes	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to four detection panels displayed at the same time.	
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.	
Face Recognition		
Face Database Capacity	Up to 10 face databases and 20,000 pictures.	
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels	
SMD Plus		
SMD Plus by Recorder	Full-channel SMD Plus (AI by recorder), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	
Audio and Video		
Analog Camera Input	8 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	
Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.	
IP Camera Input	8+8 channels, each channel up to 8MP *After IP channels are added beyond the existing channels, the Al Function (IVS, SMD, FACE) will be disabled.	
Encoding Capacity	All channel 4K (1 fps–7 fps); 6MP (1 fps–10 fps); 5MP (1 fps–12 fps); 4K-N, 4MP/3MP(1 fps–15 fps); 4M-N/1080p/720p/960H/D1/CIF (1 fps–25/30 fps);	
Dual-stream	Supported (960H (1 fps–15 fps); D1/CIF(1 fps–25/30 fps)).	
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	
Video Bit Rate	32 Kbps-6144 Kbps Per Channel	
Audio Sampling	8 KHz, 16 bit Per Channel	
Audio Bit Rate	64 Kbps Per Channel	
Bit Rate Type	Video stream and composite stream.	
Video Output	1 HDMI ,1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.	
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16	

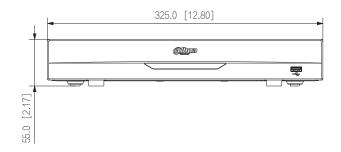
Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung			
Compression Standard				
Video Compression	Al Coding/H.265+/H.265/H.264+/H.264			
Audio Compression	G.711A/G.711u/PCM			
Network				
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P			
Mobile Phone Access	iPhone, iPad, Android			
Interoperability	ONVIF 16.12, CGI Conformant			
Browser	Chrome, IE9 or above, Firefox			
Network Mode	Single-address mode			
Recording Playback				
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop			
Recording Playback	1/4/09			
Backup Method	USB Device/Network			
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)			
Alarm				
General Alarm	Motion detection, Video Loss, tampering, and local alarm			
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict			
Intelligent Alarm	Face detection, face recognition, perimeter protection			
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email			
Ports				
Audio Input	1, RCA (external) 8, BNC (coaxial)			
Audio Output	1, RCA			
Two-way Talk	Yes (share the same audio input with the first channel)			
HDD Interface	1 SATA Port, up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature			
RS-485	1 Port, for PTZ Control			
USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	DC12V, 2A			
Power Consumption	Lower than 10 W			
Net Weight	1.2 kg (2.65 lb)			
Gross Weight	1.9 kg (4.19 lb)			

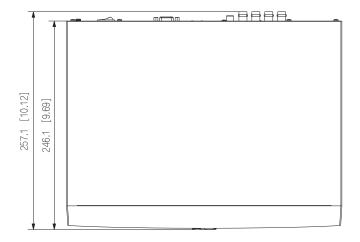
# Wiz Sense | DH-XVR5108H-4KL-I3

Product Dimensions	Mini 1U, 325.0 mm × 256.6 mm × 55.0 mm (W × D × H) 12.80" × 10.10" × 2.17" (W × D × H)	
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (L × W × H) 14.65" × 4.61" × 12.13" (L × W × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Operating Humidity	10%-90%	
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	

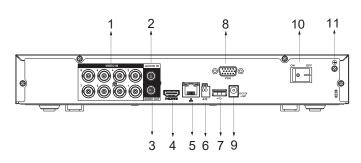
Ordering Information				
Туре	Model	Description		
8 Channels WizSense XVR	DH-XVR5108H- 4KL-I3	Mini 1U DIGITAL VIDEO RECORDER		

# Dimensions (mm[inch])





# **Panels**



- 1 VIDEO IN 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
   5 Netwrok Port
   6 RS-485 Port
   7 USB Port
   8 VGA Port
- 9 Power Input 10 Power Switch
- 11 Ground