

# DH-XVR5108HS-5M-I3

# 8CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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, XVR5000-5M-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.

\*Face Recognition takes effect when Face is selected in AI 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.

- 8-channel SMD Plus for analog channels which allows the device to trigger accurate alarms for humans and vehicles.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by Al.
- 2-channel face recognition for analog channels which supports face comparison.
- 8-channel Al Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- · Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 12-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 64 Mbps.
- Smart H.265+ and H.265 dual-stream video compression.
- IoT and POS capabilities.

















#### **Smart Dual Light**

With Smart Dual Light 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 light 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.

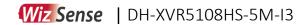
### **Customizable Alarm Audio**

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-ABR

Compared with H.265, AI coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

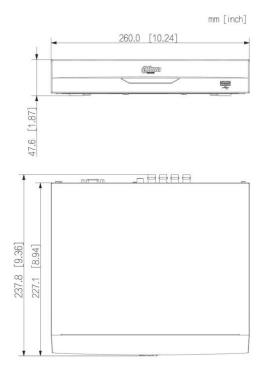
Technical Specification		Dual-stream	Yes	
System		Video Bit Rate	32 kbps–6144 kbps	
Main Processor	Industrial-grade processor	Audio Sampling	8 kHz, 16 bit	
Operating System	Embedded Linux	Audio Bit Rate	64 kbps	
Operating Interface Perimeter Protection	Web; Local GUI	Video Output	1 HDMI, 1 VGA HDMI: 2560 × 1440, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each channel	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16	
Face Detection		Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	
		Compression Standa	Compression Standard	
Face Attributes	6 attributes	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Face Detection Performance of AI by	2 channels (up to 8 face images/s each channel)	Audio Compression	G.711a; G.711u; PCM	
Recorder (Number of Channels)		Network	Network	
Face Recognition Face Database Capacity	Up to 10 face databases with 10,000 images.	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)	
Face Recognition Performance of AI by	2 channels	Mobile Phone Access	iOS; Android	
Recorder (Number of Channels)		Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK	
SMD Plus		Browser	Chrome; IE; Safari; Edge; Firefox	
	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback		
SMD Plus by Recorder		Record Mode	General; alarm; motion detection; intelligent; POS	
Audio and Video		Recording Playback	1/4/9	
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect	Backup Method	USB device and network	
	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Camera Input		Alarm		
		General Alarm	Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm	
IP Camera Input	Up to 12 channels of IPC access 4 IP channels by default + 8 channels (analog channels are converted to IP channels) Incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP extension is enabled, the AI Function (IVS, SMD, FACE) will be disabled.  Encode Enhancement enabled: Main stream: 4-ch 5 MP@(1 fps-12 fps)/5M-N@(1 fps-25 fps), others 5M-N@(1 fps-12 fps); 4-ch 4M-N/1080p@(1 fps-25 fps), others 4M-N@(1 fps-15 fps)/1080p@(1 fps-12 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps) It changes to D1/CIF@(1 fps-7 fps) when Main stream is 5 MP/5M-N/4M-N/1080p. *When Encode Enhancement is enabled, Face Recognition, Face Detection and Perimeter Protection cannot be used.	Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline	
		Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus	
Encoding Capacity		Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email	
		Ports		
		Audio Input	1-channel RCA 8-channel BNC (Coaxial Audio)	
		Audio Output	1-channel RCA	
		Two-way Talk	Yes (share the same audio input with the first channel)	
		Disk Interface	1 SATA port, up to 16 TB. This limit varies depending on the environment temperature.	
	Encode Enhancement disabled: Main stream: 5M-N@(1 fps —12 fps); 4M-N/1080p@(1 fps—15 fps); 1080N/720p/960H/D1/CIF@(1 fps—25/30 fps) Sub stream: D1/CIF@(1 fps—15 fps)	RS-485	1	
		USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
		HDMI	1	



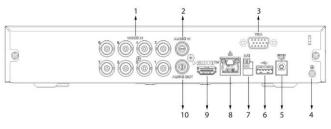
VGA	1	
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC, 2 A	
Power Consumption	<7 W (without HDD)	
Net Weight	0.97 kg (2.14 lb)	
Gross Weight	1.39 kg (3.07 lb)	
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H)	
Packaging Dimensions	344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50" × 11.30") (W × D × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–90% (RH), non-condensing	
Installation	Desktop	
Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3- 3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014	

Ordering Information				
Туре	Model	Description		
DIGITAL VIDEO RECORDER	DH-XVR5108HS-5M-I3	8CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder		

# Dimensions (mm[inch])



## **Panels**



1 VIDEO IN

3 VGA Port

5 Power Input 7 RS-485 Port

9 HDMI Port

2 AUDIO IN, RCA Connector

4 Ground

6 USB Port

8 Network Port

10 AUDIO OUT, RCA Connector