



# DH-XVR5108HS-I3

# 8CH Penta-brid 5MP Value/1080P Compact 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-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 5MP Mode

This mode can enhance XVR preview and playback resolution to Real 5MP. Enable more clarity image experience.

#### **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

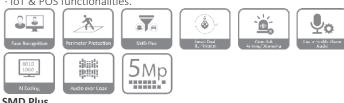
#### **Perimeter Protection**

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 Al Mode

### \* The parameters and datasheets below can only be applied to Hardware Version 3.0.

- · H.265+/H.265 dual-stream video compression.
- · Supports all-channel AI Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 12 channels IP camera inputs, each channel up to 6MP; Max 64 Mbps incoming bandwidth.
- · Up to 4 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.



#### **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.

#### **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.

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

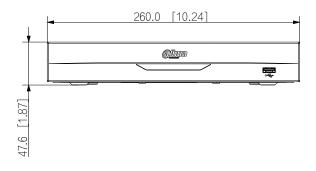
Technical Specification			Audio Bit Rate	64 kbps
System			Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720
Main Processor	Industrial-grade processor  Embedded Linux		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9
Operating System Operating Interface	Web; Local GUI		Third-party Camera	When IP extension mode enabled: 1/4/8/9/16
Perimeter Protection			Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
Perimeter Performance Al			Compression Standa	rd
by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 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;		Network	
Face Detection Performance of AI by	beard  2 channels (up to 8 face images/s each channel)		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; P2P; Auto Registration
Recorder (Number of Channels)			Mobile Phone Access	iOS; Android
Face Recognition			Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image		Browser	Chrome IE9 or later Firefox
			Network Mode	Single-address mode
Face Recognition Performance of AI by	2 channels		Recording Playback	
Recorder (Number of Channels)			Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus			Recording Playback	1/4/9 It changes to 1/4 split when Face or IVS&SMD is selected in Al Mode.
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		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	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-		Alarm	
	detect  1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@50/60fps, 720p@25/30fps. 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps,		General Alarm	Motion detection; video loss; video tampering
Camera Input			Anomaly Alarm	No disk; disk error; disk full; offline; IP conflict; MAC conflict
	720p@25/30fps. 3. AHD: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps,		Intelligent Alarm	Face detection; face recognition; perimeter protection
	720p@25/30fps  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 channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled		Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; voice prompt; buzzer; log; preset; email
			Ports	
IP Camera Input			Audio Input	1-channel RCA 8-channel BNC (Coaxial Audio)
			Audio Output	1-channel RCA
	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M-N@(1-12fps) 5M-N Mode: All channel 5M-N@(1–12fps);4M-N,1080p@(1–15fps); 1080N, 720p, 960H, D1,CIF@(1–25/30fps)		Two-way Talk	Yes (share the same audio input with the first channel)
Encoding Capacity			HDD Interface	1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature
	Sub stream: D1, CIF@(1–15fps)		RS-485	1 port, for PTZ control
Dual-stream	Yes		USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
Video Bit Rate	32 kbps-6144 kbps		HDMI	1
Audio Sampling	8 kHz, 16 bit		VGA	1

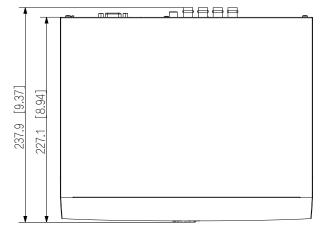
# Wiz Sense | DH-XVR5108HS-I3

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 $\times$ 237.9 mm $\times$ 47.6 mm (10.24" $\times$ 9.37" $\times$ 1.87") (W $\times$ D $\times$ H)		
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.12" × 3.51" × 12.41") (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	≤93% (RH)		
Installation	Rack or desktop		
Certifications	CE: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035		

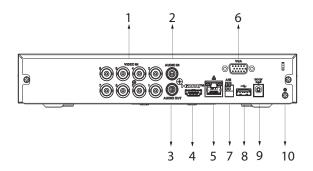
Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5108HS-I3	8CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder			

## Dimensions (mm[inch])





### **Panels**



- 1 VIDEO IN
- 3 AUDIO OUT, RCA Connector
- 5 Network Port
- 7 RS-485 Port
- 9 Power Input

- 2 AUDIO IN, RCA Connector
- 4 HDMI Port
- 6 VGA Port
- 8 USB Port
- 10 Ground