



# DH-XVR5108HE-I3

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

#### \* 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.

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.

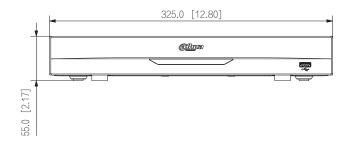
<sup>\*</sup>SMD Plus takes effect when SMD or IVS&SMD is selected in Al Mode

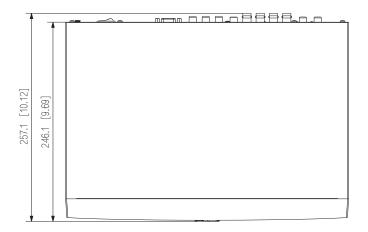
Technical Specification		Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720	
System				
Main Processor	Industrial-grade processor	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16	
Operating System	Embedded Linux	Third-party Camera		
Operating Interface	Web; Local GUI	Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Perimeter Protection		Compression Stand	Compression Standard	
Perimeter Performance Al 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	
		Audio Compression	G.711a; G.711u; PCM	
Face Detection		Network		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; P2P; Auto Registration	
Face Detection Performance of AI by	2 channels (up to 8 face images/s each channel)	Mobile Phone Access	iOS; Android	
Recorder (Number of Channels)		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
Face Recognition		Browser	Chrome IE9 or later Firefox	
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	Network Mode	Single-address mode	
		Recording Playback	Recording Playback	
Face Recognition Performance of AI by	2 channels	Record Mode	General, motion detection; intelligent; alarm; POS	
Recorder (Number of Channels)	2 Citalineis	Recording Playback	1/4/9 It changes to 1/4 split when Face or IVS&SMD is selected in Al Mode.	
SMD Plus		Backup Method	USB device and network	
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
		Alarm	Alarm	
Audio and Video	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	General Alarm	Motion detection; video loss; video tampering; local alarm	
Analog Camera Input	detect  1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps, 720p@25/30fps, 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps.  3. AHD: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps	Anomaly Alarm	No disk; disk error; disk full; offline; IP conflict; MAC conflict	
		Intelligent Alarm	Face detection; face recognition; perimeter protection	
Camera Input		Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; voice prompt; buzzer; log; preset; email	
	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	Ports	Ports	
10.0		Audio Input	8-channel RCA 8-channel BNC (Coaxial Audio)	
IP Camera Input		Audio Output	1-channel RCA	
		Two-way Talk	Yes (share the same audio input with the first channel)	
	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M-N@	Alarm Input	8 channels	
Encoding Capacity	(1-12fps) 5M-N Mode: All channel 5M-N@(1–12fps);4M-N,1080p@(1–15fps); 1080N, 720p, 960H, D1,CIF@(1–25/30fps) Sub stream: D1, CIF@(1–15fps)	Alarm Output	3 channels	
		HDD Interface	1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature	
Dual-stream	Yes	RS-485	1 port, for PTZ control	
Video Bit Rate	32 kbps-6144 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Audio Sampling	8 kHz, 16 bit	HDMI	1	
Audio Bit Rate	64 kbps	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	1.21 kg (2.67 lb)	
Gross Weight	1.83 kg (4.04 lb)	
Product Dimensions	325.0 mm $\times$ 257.1 mm $\times$ 55.0 mm (12.80" $\times$ 10.12" $\times$ 2.17") (W $\times$ D $\times$ H)	
Packaging Dimensions	372.0 mm $\times$ 117.0 mm $\times$ 308.0 mm (14.65" $\times$ 4.61" $\times$ 12.13") (W $\times$ D $\times$ 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	

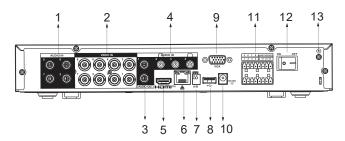
Ordering Information				
Туре	Model	Description		
DIGITAL VIDEO RECORDER	DH-XVR5108HE-I3	8CH Penta-brid 5MP Value/1080P Mini 1U 1HDD WizSense Digital Video Recorder		

### Dimensions (mm[inch])









- 1 AUDIO IN, RCA Connector 2 VIDEO IN
- 3 AUDIO OUT, RCA Connector 4 AUDIO IN, RCA Connector
- 5 HDMI Port
  - DMI Port 6 Network Port
- 7 RS-485 Port
- 8 USB Port
- 9 VGA Port
- 10 Power Input
- 11 Alarm In/Out
- 12 Power Switch
- 13 Ground