

# DH-XVR5108HE-I3

### 8CH Penta-brid 5MP Value/1080P Mini 1U 1HDD WizSense Digital Video Recorder



#### Wiz Sense

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

#### **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.

- \* The information below only applies to hardware version 3.0. of the product.
- 8-channel SMD Plus for analog channels or 12-channel SMD by camera 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 AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 8-channel AI 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.



#### 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.

#### 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.

#### Irregular Black Block Masking

Dahua's black block masking function supports the use of irregular shapes for masking, ensuring privacy in public and private locations.

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#### **Technical Specification** System Main Processor Industrial-grade processor Operating System Embedded Linux **Operating Interface** Web; Local GUI En Perimeter Protection Advanced Mode: 2 channels, 10 IVS rules for each Perimeter Performance AI channel by Recorder (Number of General Mode: 4 channels, 10 IVS rules for each Dι Channels) channel Vid **Face Detection** Au Face Attributes 6 attributes Au Face Detection Performance of AI by 2 channels (up to 8 face images/s each channel) Recorder (Number of Vic Channels) Face Recognition Μ Face Database Capacity Up to 10 face databases with 10,000 images. Th Face Recognition Performance of AI by Сс 2 channels Recorder (Number of Vid Channels) Au SMD Plus Ν 8 channels: Secondary filtering for human and motor vehicle, SMD Plus by Recorder reducing false alarms caused by leaves, rain and lighting condition change Ne SMD Plus by Camera 12 channels М AI Video Quality Analytics Int 8 channels: Supports detecting brightness levels, color AI Video Quality Analytics cast, defocus, overexposure, contrast levels, black and by Recorder Br white Re Scene Changing Re Scene Changing by 1 channel Recorder Re Irregular Black Block Masking Ba Irregular Black Block 1 channel Masking by Recorder Pla Audio and Video Al 8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-Analog Camera Input detect Ge 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@25/30fps. Ar Camera Input 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 Int fps; 720p@25/30 fps. Up to 12 channels of IPC access Ala 4 IP channels by default +8 channels (analog channels IP Camera Input are converted to IP channels)

	incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection cannot be used.
ncoding Capacity	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M- N@(1-12fps) 5M-N Mode: 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)
ual-stream	Yes
ideo Bit Rate	32 kbps6144 kbps
udio Sampling	8 kHz, 16 bit
udio Bit Rate	64 kbps
ideo Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Iulti-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
hird-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
compression Standard	t
ideo Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264
udio Compression	G.711a; G.711u; PCM
letwork	
etwork 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.)
1obile Phone Access	iOS; Android
teroperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK
rowser	Chrome; IE; Safari; Edge; Firefox
ecording Playback	
ecord Mode	General; alarm; motion detection; intelligent; POS
ecording Playback	1/4/9 It changes to 1/4 split when Face or IVS&SMD is selected in Al Mode.
ackup Method	USB device and network
layback Mode	Instant playback; general playback; event playback; tag playback; smart playback
larm	
eneral Alarm	Motion detection; local alarm; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm
nomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
telligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus
larm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; audio; buzzer; log; preset; email

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#### Ports

Audio Input	8-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)			
Alarm Input	8 channels			
Alarm Output	3 channels			
Disk Interface	1 SATA port, up to 16 TB. This limit varies depending on the environment temperature.			
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, 2A			
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 × 257.1 mm × 55.0 mm (12.80" × 10.12" × 2.17") (W × D × H)			
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (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: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035			

### Accessories

Optional:

		6	





DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

### Dimensions (mm[inch])

mm[inch]



Ordering	Information

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

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