

# DH-XVR5104HE-I3

## 4CH 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.
- 4-channel SMD Plus for analog channels or 6-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 Al.
- 1-channel face recognition for analog channels which supports face comparison.
- 4-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 6-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 32 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.

## Wiz Sense | DH-XVR5104HE-I3

### **Technical Specification**

Technical Specification				
System				
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI			
Perimeter Protection				
Perimeter Performance Al 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			
Face Detection				
Face Attributes	6 attributes			
Face Detection Performance of AI by Recorder (Number of Channels)	1 channel (up to 8 face images/s each channel)			
Face Recognition				
Face Database Capacity	Up to 10 face databases with 10,000 images.			
Face Recognition Performance of AI by Recorder (Number of Channels)	1 channel			
SMD Plus				
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change			
SMD Plus by Camera	6 channels			
Al Video Quality Analytics				
Al Video Quality Analytics by Recorder	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white			
Scene Changing				
Scene Changing by Recorder	1 channel			
Irregular Black Block N	Лasking			
Irregular Black Block Masking by Recorder	1 channel			
Audio and Video				
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect			
Camera Input	<ol> <li>CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps;</li> <li>4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps;</li> <li>720p@25/30fps.</li> <li>TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps;</li> <li>720p@25/30 fps.</li> <li>AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps;</li> <li>720p@25/30 fps.</li> </ol>			
IP Camera Input	Up to 6 channels of IPC access 2 IP channels by default +4 channels (analog channels are converted to IP channels)			

	incoming bandwidth: 32 Mbps, recording bandwidth:	
	32 Mbps and outgoing bandwidth: 32 Mbps *After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection cannot be used.	
Encoding Capacity	Main stream: 5 MP Mode: All channel 5 MP@(1 fps-6 fps) 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)	
Dual-stream	Yes	
Video Bit Rate	32 kbps–6144 kbps	
Audio Sampling	8 kHz, 16 bit	
Audio Bit Rate	64 kbps	
Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	
Compression Standard	d	
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Audio Compression	G.711a; G.711u; PCM	
Network		
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.)	
Mobile Phone Access	iOS; Android	
Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK	
Browser	Chrome; IE; Safari; Edge; Firefox	
Recording Playback		
Record Mode	General; alarm; motion detection; intelligent; POS	
Recording Playback	1/4	
Backup Method	USB device and network	
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Alarm		
General Alarm	Motion detection; local alarm; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm	
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	
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; audio; buzzer; log; preset; email	
Ports		
Audio Input	4-channel RCA 4-channel BNC (Coaxial Audio)	

## Wiz Sense | DH-XVR5104HE-I3

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, 1.5A	
Power Consumption	<5 W(without HDD)	
Net Weight	1.31 kg (2.89 lb)	
Gross Weight	1.77 kg (3.90 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-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-XVR5104HE-I3	4CH Penta-brid 5MP Value/ 1080P Mini 1U 1HDD WizSense Digital Video Recorder		

## Accessories

Optional:

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DHI-SSD-V800S256G SSD

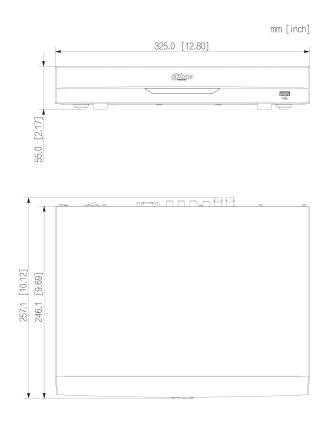
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

### Dimensions (mm[inch])



## Wiz Sense | DH-XVR5104HE-I3

#### Panels 1 3 8 10 11 12 ۲ 5 6 7 8 (HO1400H00 1 2 3 4 + C102 C0 0 •••••• •••••• ••••• 0'0'0 0 ---0 0 -0 0 ...... 2 5 679 4 1 VIDEO IN 2 AUDIO OUT, RCA Connector 3 AUDIO IN, RCA Connector 4 HDMI Port 5 Network Port 6 RS-485 Port 7 USB Port 8 VGA Port 9 Power Input 10 Alarm In/Out 11 Power Switch 12 Ground

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