



# DH-XVR5104H-I3-4P

# 4CH Penta-brid 5MP Value/1080P Mini 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-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.

- 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 AI.
- 1-channel face recognition for analog channels which supports face comparison.
- 4-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 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.
- All the channels support PoC AT and PoC AF cameras, and the XVR auto recognizes PoC cameras that have different power consumption levels.













#### **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.

#### PoC

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

Technical Specification	on	
System		
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	
Operating Interface	Web; Local GUI	5 11 0 11
Perimeter Protection		Encoding Capacity
Perimeter Performance Al	Advanced Model: 2 channels, 10 IVS rules for each	
by Recorder (Number of	channel General Model: 4 channels, 10 IVS rules for each	Dual-stream
Channels)	channel	Video Bit Rate
Face Detection		Audio Sampling
Face Attributes	6 attributes	Audio Bit Rate
Face Detection Performance of Al by Recorder (Number of	1 channel (up to 8 face images/s each channel)	Video Output
Channels) Face Recognition		Multi-screen Display
Face Database Capacity	Up to 10 face databases with 10,000 images.	Third-party Camera Access
Face Recognition		Compression Standa
Performance of AI by Recorder (Number of	1 channel	Video Compression
Channels)		Audio Compression
SMD Plus		Network
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Network Protocol
SMD Plus by Camera	6 channels	Mobile Phone Access
Al Video Quality Analytics		Interoperability
Al Video Quality Analytics	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Browser
by Recorder		Recording Playback
Scene Changing		Record Mode
Scene Changing by	1 channel	Recording Playback
Recorder	1 channel	Backup Method
Irregular Black Block	Masking	васкар іменіой
Irregular Black Block Masking by Recorder	1 channel	Playback Mode
Audio and Video		Alarm
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect	General Alarm
Camera Input	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. 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.	Anomaly Alarm
		Intelligent Alarm
		Alarm Linkage
IP Camera Input	Up to 6 channels of IPC access 2 IP channels by default +4 channels (analog channels	Ports
	are converted to IP channels)	Audio Input

Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
Disk Interface	$1\mbox{SATA}$ port, up to $16\mbox{TB}.$ 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)
Cananal	

## General

Power Supply	53 VDC, 1.13 A	
Power Consumption	<7 W(without HDD)	
Net Weight	1.10 kg (2.43 lb)	
Gross Weight	2.12 kg (4.67 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	10%–90% (RH), non-condensing	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5104H-I3-4P	4CH Penta-brid 5MP Value/ 1080P Mini 1U 1HDD WizSense Digital Video Recorder			

## Accessories

## Optional:







DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

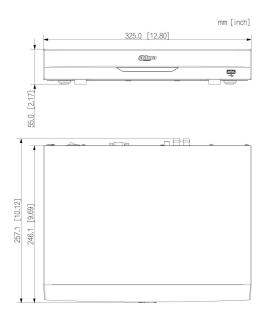


DHI-ARB1606 Alarm Box

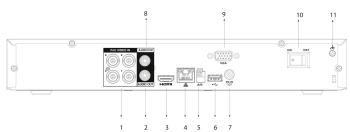
#### Rev 002.000

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## Dimensions (mm[inch])







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