



DH-XVR5104HE-I3

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.

- * 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 AI.
- 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.

Al 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.

Main Processor Operating System Embedded Linux Operating Interface Web; Local GUI Perimeter Protection Perimeter Performance Al by Recorder (Number of Channels) Face Detection Face Attributes Face Detection Face Attributes Face Detection Face Recognition Face Recognition Face Recognition Face Recognition Face Recognition Face Recognition Face Mumber of Channels) SMD Plus A channels SMD Plus by Recorder Face Attributes Face Recognition Face Re	Technical Specification	n	
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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 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 Masking Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking 1 channel Audio and Video Analog Camera Input 4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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@25/30 fps; 720p@25/3	SMD Plus		Network
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by Recorder white Scene Changing Scene Changing by Recorder 1 channel Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking 1 channel Audio and Video Analog Camera Input 4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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@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; 720p@25/30 fps. IP Camera Input 2 IP channels of IPC access 2 IP channels by default +4 channels (analog channels	Al Video Quality Analytics		Browser
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Audio and Video 4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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@25/30fps; 720p@25/30fps. Camera Input 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@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. Up to 6 channels of IPC access 2 IP channels by default +4 channels (analog channels	Irregular Black Block	-	Playback Mode
Analog Camera Input 4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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. Up to 6 channels of IPC access 2 IP channels by default +4 channels (analog channels	- 1		Alarm
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. 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 fps; 720p@25/30 fps. Up to 6 channels of IPC access IP Camera Input 2 IP channels by default +4 channels (analog channels	Analog Camera Input		General Alarm
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. Up to 6 channels of IPC access IP Camera Input 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. Up to 6 channels by default +4 channels (analog channels	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
fps; 720p@25/30 fps. Up to 6 channels of IPC access IP Camera Input 2 IP channels by default +4 channels (analog channels			Intelligent Alarm
IP Camera Input 2 IP channels by default +4 channels (analog channels			Alarm Linkage
are converted to IP channels)	IP Camera Input	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)
Alarm Input	8 channels
Alarm Output	3 channels
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)
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:

DHI-SSD-V800S512G

SSD

DHI-SSD-V800S1TB

SSD

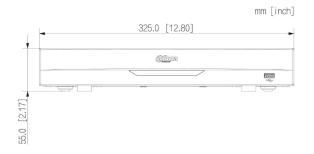


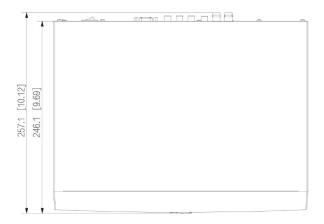
DHI-SSD-V800S256G

SSD

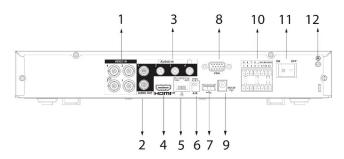
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])





Panels



1 VIDEO IN 2 AUDIO OUT, RCA Connector

10 Alarm In/Out

- 3 AUDIO IN, RCA Connector 4 HDMI Port
 5 Network Port 6 RS-485 Port
 7 USB Port 8 VGA Port
- 11 Power Switch 12 Ground

9 Power Input