



DH-XVR5104HS-I3

4CH Penta-brid 5MP Value/1080P Compact 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.
- 1-channel QuickPick 2.0 for analog channels which improves target retrieval efficiency.
- 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.











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.

QuickPick 2.0

By employing the back-end perimeter protection algorithm, QuickPick 2.0 not only retains the capability to identify the color of clothing and vehicles, which was offered by its predecessor QuickPick 1.0, but it also possesses the enhanced ability to detect various types of hats, clothing and vehicles, thus greatly improving the accuracy of the search function.

*QuickPick 2.0 takes effect when Quick Pick is enabled in Al Mode.

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.

Technical Specification	n	
System		
Main Processor Operating System Operating Interface QuickPick 2.0 QuickPick 2.0 Al by	Industrial-grade processor Embedded Linux Web; Local GUI	IP Camera Input
Recorder (Number of Channels) Perimeter Protection Perimeter Performance Al by Recorder (Number of Channels)	1 channel Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each channel	
Face Detection Face Attributes Face Detection Performance of Al by Recorder (Number of Channels) Face Recognition	6 attributes 1 channel (up to 8 face images/s each channel)	Encoding Capacity
Face Database Capacity	Up to 10 face databases with 10,000 images.	Dual-stream
Face Recognition		Video Bit Rate
Performance of AI by Recorder (Number of	1 channel	Audio Sampling
Channels)		Audio Bit Rate
SMD Plus SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting	Video Output
	condition change	Multi-screen Display
SMD Plus by Camera	6 channels	Third-party Camera Access
Al Video Quality Analy	4 channels: Supports detecting brightness levels, color	Compression Standar
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and	Video Compression
Scene Changing	white	Audio Compression
Scene Changing by Recorder Irregular Black Block N	1 channel	Network Network Protocol
Irregular Black Block		
Masking by Recorder	1 channel	Mobile Phone Access
Audio and Video		Interoperability
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Browser
Camera Input	detect 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(2560 x 1944)@20 fps; 5 MP(2960 x 1665)@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Recording Playback
		Record Mode
		Recording Playback
		Backup Method

Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback			
Alarm				
General Alarm	Motion detection; 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); IPC external alarm output; audio; buzzer; log; preset; email			
Ports				
Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)			
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)			
General				
Power Supply	12 VDC, 1.5A			
Power Consumption	<5 W(without HDD)			
Net Weight	0.84 kg (1.85 lb)			
Gross Weight	1.37 kg (3.02 lb)			
Product Dimensions	260.0 mm \times 237.8 mm \times 47.6 mm (10.24" \times 9.36" \times 1.87") (W \times D \times H)			
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.11" × 3.50" × 12.40") (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-XVR5104HS-I3	4CH Penta-brid 5MP Value/ 1080P Compact 1U 1HDD WizSense Digital Video Recorder		

Accessories

Optional:







DHI-SSD-V800S256G

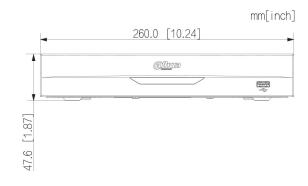
DHI-SSD-V800S512G SSD SSD

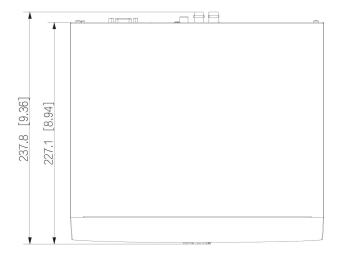
DHI-SSD-V800S1TB SSD



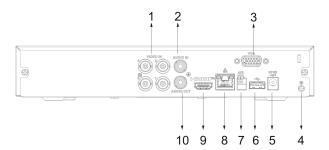
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])





Panels



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