



DH-XVR5108HS-I3

8CH 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 Al 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.
- 2-channel QuickPick 2.0 for analog channels which improves target retrieval efficiency.
- 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.

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 Specificatio	n			
System				
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI	IP Camera Input	IP Camera Input	
QuickPick 2.0				
QuickPick 2.0 Al by				
Recorder (Number of Channels)	2 channels			
Perimeter Protection				
Perimeter Performance AI 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		Encoding Consider		
Face Attributes	6 attributes	Encoding Capacity		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (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		Dual-stream		
Recorder (Number of	2 channels	Video Bit Rate		
Channels)		Audio Sampling		
SMD Plus		Audio Bit Rate		
MD Plus by Recorder Secondary filt reducing false	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output		
SMD Plus by Camera	12 channels	Multi-screen Display		
AI Video Quality Anal		Third-party Camera Access		
Al Video Quality Analytics by Recorder	8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	,	Compression Standard Video Compression Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Scene Changing		Video Compression		
Scene Changing by		Audio Compression	G	
Recorder	1 channel	Network		
Irregular Black Block I	Masking		H	
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	:	
Audio and Video		Mobile Phone Access		
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Interoperability		
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(2560 x 1944)@20 fps; 5 MP(2960 x 1665)@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps;	Browser		
		Recording Playback		
		Record Mode		
		Recording Playback		
	720p@25/30 fps.	O ,		

Backup Method	USB device and network				
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 8-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, 2A				
Power Consumption	<7 W(without HDD)				
Net Weight	0.97 kg (2.14 lb)				
Gross Weight	1.39 kg (3.07 lb)				
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.37" × 1.87") (W × D × H)				
Packaging Dimensions	333.0 mm \times 89.0 mm \times 315.0 mm (13.11" \times 3.50" \times 12.40") (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: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035				

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5108HS-I3	8CH Penta-brid 5MP Value/ 1080P Compact 1U 1HDD WizSense Digital Video Recorder			

Accessories

Optional:







DHI-SSD-V800S256G SSD

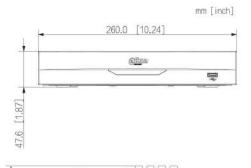
DHI-SSD-V800S512G SSD

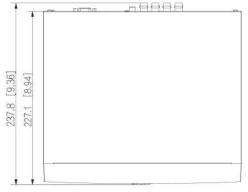
DHI-SSD-V800S1TB SSD



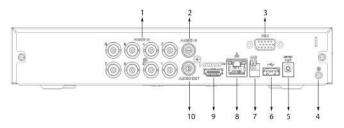
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])





Panels



1 VIDEO IN

3 VGA Port

5 Power Input7 RS-485 Port

9 HDMI Port

2 AUDIO IN, RCA Connector

4 Ground

6 USB Port

8 Network Port

10 AUDIO OUT, RCA Connector