



DH-XVR5108HS-5M-I3

8CH Penta-brid 5MP 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, XVR5000-5M-I3 Series featuring max.full-channel SMD Plus to benefit customers from Al 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.

- 2-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 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.

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.

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.

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				Up to 12 c	
System				4 IP channels by defau are converted to IP cha	
Main Processor	Industrial-grade processor		IP Camera Input	Incoming bandwidth: 64 Mbps, 64 Mbps and outgoing bandwid	
Operating System	Embedded Linux			*After IP exten	
Operating Interface	Web; Local GUI			SMD, Perimeter used.	
Quick Pick					
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels			Encode Enhancement disabled: Main stream: 5M-N@(1 fps -12 fps); 4M-N/1080p@(1 fps-1 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps) Encode Enhancement enabled: Main stream: 4-ch 5 MP@(1 fps-12 fps); 4-ch 4M-N/1080p@(1 fps-5M-N@(1 fps-12 fps); 4-ch 4M-N/1080p@(1 fps), others 4M-N@(1 fps-15 fps)/1080p@(1 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 Sub stream: D1/CIF@(1 fps-7 fps) It changes to D1/CIF@(1 fps-7 fps) when Main 5 MP/5M-N/4M-N/1080p. *When Encode Enhancement is enabled, Vide Analytics, Scene Changing, Face Recognition, F Detection, Perimeter Protection and QuickPick cannot be used.	
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		Encoding Capacity		
Face Detection					
Face Attributes	6 attributes				
Face Detection Performance of Al by Recorder (Number of	2 channels (up to 8 face images/s each channel)				
Channels)			Dual-stream	Yes	
Face Recognition			Video Bit Rate	32 kbps-6144 kbp	
Face Database Capacity	Up to 10 face databases with 10,000 images.		Audio Sampling	8 kHz, 16 bit	
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels		Audio Bit Rate Video Output	64 kbps 1 HDMI, 1 VGA HDMI: 2560 × 1440	
SMD Plus			νιασο σατρατ	720 VGA: 1920 × 1080	
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Multi-screen Display	When IP extension	
SMD Plus by Camera	12 channels		Third-party Camera Access	Panasonic; Sony; H	
Al Video Quality Anal			Compression Standard		
AT VIUCO QUALITY ALIAI	8 channels: Supports detecting brightness levels, color		Video Compression	Al Coding; Smart H.	
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and		Audio Compression	G.711a; G.711u; PCI	
,	white		Network		
Scene Changing Scene Changing by Recorder	1 channel		Network Protocol	HTTP; HTTPS; TCP/IF DNS; SMTP; UPnP; If Server; P2P; Auto Re	
Irregular Black Block Masking				camera, DVR, NVS,	
Irregular Black Block	_		Mobile Phone Access	iOS; Android	
Masking by Recorder	1 channel		Interoperability	ONVIF 23.12 (Profil	
Audio and Video			Browser	Chrome; IE; Safari;	
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-		Recording Playback		
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@25/30 fps. 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.		Record Mode	General; alarm; mo	
			Recording Playback	1/4/9	
			Backup Method	USB device and net	
			Playback Mode	Instant playback; ger playback; smart play	

Alarm Motion detection; alarm box; HDCVI alarm; camera General Alarm external alarm; network alarm; PIR alarm Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video Anomaly Alarm loss; video tampering; camera offline Face detection; face recognition; perimeter protection; Intelligent Alarm Record; snapshot (panoramic); IPC external alarm Alarm Linkage output; audio; buzzer; log; preset; email **Ports** 1-channel RCA Audio Input 8-channel BNC (Coaxial Audio) Audio Output 1-channel RCA Two-way Talk Yes (share the same audio input with the first channel) 1 SATA port, up to 16 TB. This limit varies depending on Disk Interface the environment temperature. RS-485 USB 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) **HDMI** VGA 1 (10/100 Mbps Ethernet port, RJ-45) Network Port General **Power Supply** 12 VDC, 2 A <7 W (without HDD) Power Consumption Net Weight 0.97 kg (2.14 lb) Gross Weight 1.39 kg (3.07 lb) 260.0 mm \times 237.8 mm \times 47.6 mm (10.24" \times 9.36" \times **Product Dimensions** 1.87") (W \times D \times H) 344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50" × Packaging Dimensions 11.30") (W × D × H) Operating Temperature -10 °C to +55 °C (+14 °F to +131 °F) -20 °C to +60 °C (-4 °F to +140 °F) Storage Temperature Operating Humidity 10%-90% (RH), non-condensing

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

CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN

EN 50130-4:2011+A1:2014

61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015,

Desktop

Installation

Certifications

Accessories

Optional:







DHI-SSD-V800S256G SSD

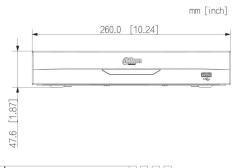
DHI-SSD-V800S512G SSD

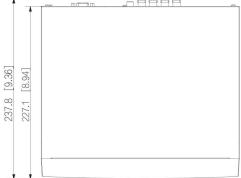
DHI-SSD-V800S1TB SSD



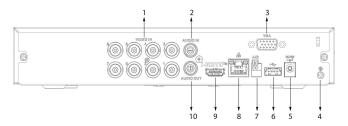
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])





Panels



1 VIDEO IN

3 VGA Port

5 Power Input

7 RS-485 Port

9 HDMI Port

2 AUDIO IN, RCA Connector

4 Ground

6 USB Port

8 Network Port

10 AUDIO OUT, RCA Connector