



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 Al 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 AI 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	
Ouick Pick				
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		fps -12 fps); Channels 1-2 4M-N/1080p@(1 fps-25/30 fps), othe 4M-N/1080p@(1 fps -15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps); Sub stream: D1/CIF@(1 fps-15 fps); Encode Enhancement enabled: Main stream: Encoding Capacity 4-ch 5 MP@(1 fps-12 fps)/5M-N@(1 fps-25 fps), oth 5M-N@(1 fps-12 fps); 4-ch 4M-N/1080p@(1 fps-25	
Face Detection		Encoding Canacity		
Face Attributes	6 attributes	Encouning Capacity		
Face Detection Performance of Al 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		Dual-stream		
Performance of AI by Recorder (Number of	2 channels	Video Bit Rate		
Channels)		Audio Sampling		
SMD Plus		Audio Bit Rate		
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output		
SMD Plus by Camera	12 channels			
AI Video Quality Anal	ytics 8 channels: Supports detecting brightness levels, color	Multi-screen Display	\	
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and	Third-party Camera Access	F	
white		Compression Standar	Compression Standard	
Scene Changing		Video Compression	Α	
Scene Changing by Recorder	1 channel	Audio Compression	G.	
Irregular Black Block Masking		Network	Network	
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	H1 Df	
Audio and Video			C	
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Mobile Phone Access		
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; 720p@25/30 fps.	Interoperability		
		Browser		
		Recording Playback		
		Record Mode		
		Recording Playback		

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 Audio Input 1-channel RCA 2. According to the primary of the primary output; audio; buzzer; log; preset; email Ports Vision of present email and protection; face recognition; perimeter protection; sMD Plus Audio Input 1-channel RCA Audio Input 1-channel RCA Action of District Alarm 2. Protection of the primary output; audio; buzzer; log; preset; email Ports 1-channel RCA Audio Output 1-channel RCA Schannel BNC (Coaxial Audio) Audio Input 2-channel RCA Schannel BNC (Coaxial Audio)					
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CE-EMC: EN IEC 61000-3-2:2019, EN Certifications 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015,	Installation	Desktop			
	Certifications	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,			

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5108HS-5M-I3	8CH Penta-brid 5MP 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])

