



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 Specification	n		3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 108	
System			fps; 720p@25/30 fps.	
Main Processor	Industrial-grade processor		Up to 12 channels of IPC access 4 IP channels by default + 8 channels (analog of are converted to IP channels) Incoming bandwidth: 64 Mbps, recording banded Mbps and outgoing bandwidth: 64 Mbps *After IP extension is enabled, Video Quality A Scene Changing, Face Recognition, Face Detection and QuickPick 2.0	
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI	IP Camera Input		
Quick Pick				
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels		used. Encode Enhancement disabled: Main stream:	
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		Channels 1-2 5M-N@(1 fps -25 fps), others 5M fps -12 fps); Channels 1-2 4M-N/1080p@(1 fps-25/30 fps), 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: 4-ch 5 MP@(1 fps-12 fps)/5M-N@(1 fps-25 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-15 fps) It changes to D1/CIF@(1 fps-7 fps) when Main 5 MP/5M-N/4M-N/1080p. *When Encode Enhancement is enabled,Video Analytics, Scene Changing, Face Recognition, Face Recognition, Perimeter Protection and QuickPick cannot be used.	
Face Detection				
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 Al by Recorder (Number of	2 channels	Dual-stream	Yes	
		Video Bit Rate	32 kbps-6144 kbps	
Channels)		Audio Sampling	8 kHz, 16 bit	
SMD Plus		Audio Bit Rate	64 kbps	
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	1 HDMI, 1 VGA HDMI: 2560 × 1440, 1920 × 1080, 1280 × 102 720	
SMD Plus by Camera	12 channels		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Al Video Quality Analy	/tics 8 channels: Supports detecting brightness levels, color	Multi-screen Display	When IP extension mode not enabled: 1/4/8/8, When IP extension mode enabled: 1/4/8/9/1	
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and	Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ON	
wnite		Compression Standar	Compression Standard	
Scene Changing by		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264	
Scene Changing by Recorder	1 channel	Audio Compression	G.711a; G.711u; PCM	
Irregular Black Block	Masking	Network		
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; N DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SMMF Server; P2P; Auto Registration; IP Search (Sup	
Audio and Video			camera, DVR, NVS, etc.)	
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Mobile Phone Access	iOS; Android	
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.	Interoperability	ONVIF 24.06 (Profile T; Profile S; Profile G); Co	
		Browser	Chrome; IE; Safari; Edge; Firefox	
		Recording Playback		
		Record Mode	General; alarm; motion detection; intelligent	
		Recording Playback	1/4/9	

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, 2 A			
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" × 9.36" × 1.87") (W × D × H)			
Packaging Dimensions	344.0 mm \times 89.0 mm \times 287.0 mm (13.54" \times 3.50" \times 11.30") (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-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				
Type	Model	Description		
DIGITAL VIDEO RECORDER	DH-XVR5108HS-5M-I3	8CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder		

Accessories

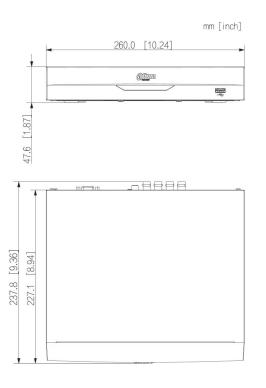
Optional:



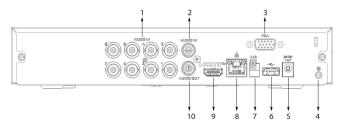


DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels



1 VIDEO IN

2 AUDIO IN, RCA Connector

3 VGA Port

4 Ground6 USB Port

5 Power Input7 RS-485 Port

8 Network Port

9 HDMI Port

10 AUDIO OUT, RCA Connector