



DH-XVR5104HE-I3

4CH Penta-brid 5MP Value/1080P Mini 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 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.

Tochnical Specification			3 AHD 5 MD@20 for		
Technical Specificatio	П		3. AHD: 5 MP@20 fps; fps; 720p@25/30 fps.		
System			Up to 6 channels of IPC access		
Main Processor	Industrial-grade processor		2 IP channels by defau are converted to IP ch		
Operating System	Embedded Linux	IP Camera Input	incoming bandwidth: 32 Mbps, recording bandw 32 Mbps and outgoing bandwidth: 32 Mbps *After IP extension is enabled, Video Quality An Scene Changing, Face Recognition, Face Detecti		
Operating Interface	Web; Local GUI				
QuickPick 2.0			SMD, Perimeter Prote		
QuickPick 2.0 Al by Recorder (Number of Channels)	1 channel		used. Encode Enhancemen Main stream:		
Perimeter Protection			Channels 1-2 5M-N@(1 fps-25 fps), other fps-12 fps); Channels 1-2 4M-N/1080p@(1 fps-30 fp N/1080p@(1 fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-30 fp Sub stream: D1/CIF@(1 fps-15 fps); Encode Enhancement enabled:		
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 Capacity	Main stream: 4-ch 5M-N@(1 fps-25 fps		
Face Attributes	6 attributes		transformed to 5MP@		
Face Detection Performance of AI by Recorder (Number of Channels)	1 channel (up to 8 face images/s each channel)		4-ch 4M-N/1080p@(1 fps-25 fps); 1080N/720p/960H/D1/CIF@(1 fps-30 fps); Sub stream: D1/CIF@(1 fps-15 fps); *When Encode Enhancement is enabled, Vid Analytics, Scene Changing, Face Recognition, Detection, Perimeter Protection and QuickPic		
Face Recognition			cannot be used.		
Face Database Capacity	Up to 10 face databases with 10,000 images.	Dual-stream	Yes		
Face Recognition Performance of AI by Recorder (Number of	1 channel	Video Bit Rate	32 kbps-6144 kbps		
		Audio Sampling	8 kHz, 16 bit		
Channels)		Audio Bit Rate	64 kbps		
SMD Plus	4 channels: Secondary filtering for human and motor vehicle	Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, VGA: 1920 × 1080, 1		
SMD Plus by Recorder		Multi-screen Display	When IP extension m		
SMD Plus by Camera	6 channels	Third-party Camera Access	Panasonic; Sony; Han		
Al Video Quality Anal	ytics	Compression Standard			
Al Video Quality Analytics	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and	Video Compression	Al Coding; Smart H.26		
by Recorder	white	Audio Compression	G.711a; G.711u; PCM		
Scene Changing		Network			
Scene Changing by Recorder	1 channel	Network Protocol	HTTP; HTTPS; TCP/IP; DNS; SMTP; UPnP; IP I		
Irregular Black Block Masking		INCLWOLK PLOTOCOL	Server; P2P; Auto Reg camera, DVR, NVS, et		
Irregular Black Block Masking by Recorder	1 channel	Mobile Phone Access	iOS; Android		
Audio and Video		Interoperability	ONVIF 24.06 (Profile		
		Browser	Chrome; IE; Safari; Ed		
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Recording Playback	Recording Playback		
	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps;	Record Mode	General; alarm; motio		
Camera Input	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	1/4		
		Backup Method	USB device and netwo		

Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback				
Alarm					
General Alarm	Motion detection; local alarm; 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); local alarm output; IPC external alarm output; audio; buzzer; log; preset; email				
Ports					
Audio Input	4-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)				
Alarm Input	8 channels				
Alarm Output	3 channels				
Disk Interface	$1\mbox{SATA}$ port, up to 16 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	1.31 kg (2.89 lb)				
Gross Weight	1.77 kg (3.90 lb)				
Product Dimensions	325.0 mm \times 257.1 mm \times 55.0 mm (12.80" \times 10.12" \times 2.17") (W \times D \times H)				
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (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-XVR5104HE-I3	4CH Penta-brid 5MP Value/ 1080P Mini 1U 1HDD WizSense Digital Video Recorder			

Accessories

Optional:







DHI-SSD-V800S256G SSD

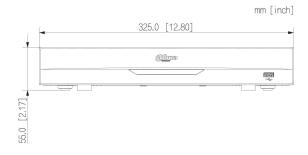
DHI-SSD-V800S512G SSD

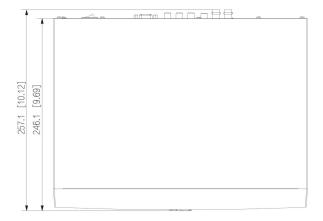
DHI-SSD-V800S1TB SSD



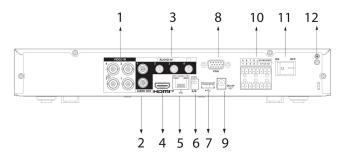
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])





Panels



1 VIDEO IN 2 AUDIO OUT, RCA Connector

10 Alarm In/Out

- 3 AUDIO IN, RCA Connector 4 HDMI Port
 5 Network Port 6 RS-485 Port
 7 USB Port 8 VGA Port
- 11 Power Switch 12 Ground

9 Power Input