



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 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

Real 5MP Mode

This mode can enhance XVR preview and playback resolution to Real 5MP. Enable more clarity image experience.

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 parameters and datasheets below can only be applied to Hardware Version 3.0.
- 4-ch SMD Plus for analog channel to achieve accurate alarm for human and vehicles.
- 4-ch Perimeter Protection for analog channel to detect tripwire and intrusion violation powered by AI.
- 1-ch Face Recognition for analog channel to realize face comparison.
- 4-ch Al Coding to save storage and bandwidth costs while maintaining target details.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Up to 6-ch IP camera inputs and each channel supports up to 6 MP. Max 32 Mbps incoming bandwidth.
- Smart H.265+/H.265 dual-stream video compression.
- · IoT & POS functionalities.













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.

Smart Dual Light

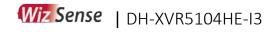
With Smart Dual Light technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of Al-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual light technology can meet the requirements of a wide variety of scenes.

Customizable Alarm Audio

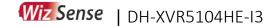
Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

Al Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.



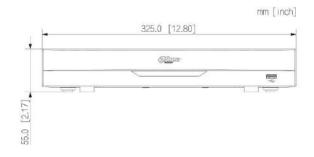
Technical Specification		Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	
System		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Main Processor	Industrial-grade processor	Compression Standar	Compression Standard	
Operating System	Embedded Linux	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Operating Interface	Web; Local GUI	Audio Compression	G.711a; G.711u; PCM	
Perimeter Protection		Network		
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS rules for each channel General Model: 4 channels, 10 IVS rules for each channel	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR,	
Face Detection			NVS, etc.)	
Face Attributes	6 attributes	Mobile Phone Access	IOS; Android	
Face Detection	1 channel (up to 8 face images/s each channel))	Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
Performance of AI by Recorder (Number of		Browser	Chrome; Firefox; IE 9 or later	
Channels)		Network Mode	Single-address mode	
Face Recognition		Recording Playback		
Face Database Capacity	Up to 10 face databases with 10,000 images.	Record Mode	General, motion detection; intelligent; alarm; POS	
Face Recognition		Recording Playback	Up to 4 channels	
Performance of AI by Recorder (Number of	1 channel	Backup Method	USB device and network	
Channels) SMD Plus		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
	4 channels: Secondary filtering for human and motor	Alarm		
SMD Plus by Recorder	vehicle , reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; PIR alarm	
Audio and Video			Error (no disk, disk error, low space, low quota space;	
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect	Anomaly Alarm	network disconnection; IP conflict; MAC conflict) ;video loss; video tampering; camera offline	
	1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@50/60fps, 720p@25/30fps. 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps. 3. AHD: 5MP@20fps, 4MP@25/30fps,	Intelligent Alarm	Face detection; face recognition; perimeter protection	
Camera Input		Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; audio; buzzer; log, preset; email	
		Ports		
	1080p@25/30fps, 720p@25/30fps. Up to 6 channels of IPC access 2 IP channels by default +	Audio Input	4-channel RCA 4-channel BNC (Coaxial Audio)	
	4 channels (analog channels are converted to IP	Audio Output	1-channel RCA	
IP Camera Input	channels) incoming bandwidth: 32 Mbps, recording bandwidth: 32 Mbps and outgoing bandwidth: 32 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS、SMD、Face) will be	Two-way Talk	Yes (share the same audio input with the first channel)	
		Alarm Input	8 channels	
Encoding Capacity	disabled. Main stream: 5MP Mode: All channel 5MP@(1-6fps) 5M-N Mode: All channel 5M-N@(1-12fps);4M- N,1080p@(1-15fps); 1080N, 720p, 960H, D1,CIF@(1- 25/30fps) Sub stream: D1, CIF@(1-15fps)	Alarm Output	3 channels	
		HDD Interface	1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature.	
		RS-485	1	
Dual-stream	Yes	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Video Bit Rate	32 kbps-6144 kbps	HDMI	1	
Audio Sampling	8 kHz, 16 bit	VGA	1	
Audio Bit Rate	64 kbps	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	General		
Video Output		Power Supply	12 VDC, 1.5A	
		Power Consumption	<5 W (without HDD)	

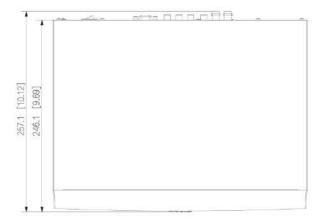


Net Weight	1.31 kg (2.89 lb)	
Gross Weight	1.77 kg (3.90 lb)	
Product Dimensions	325.0 mm \times 257.1 mm \times 55.0 mm (12.80" \times 10.12" \times 2.17") (W \times D \times H)	
Packaging Dimensions	372.0 mm x 117.0 mm x 308.0 mm (14.65" x 4.61" x 12.13") (W x D x H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	≤93% (RH)	
Installation	Rack or 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	

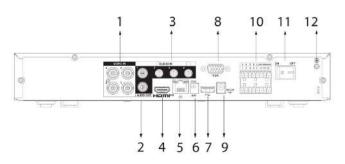
Ordering Information				
Туре	Part Number	Description		
DIGITAL VIDEO RECORDER	DH-XVR5104HE-I3	4CH Penta-brid 5MP Value/1080P Mini 1U 1HDD WizSense Digital Video Recorder		

Dimensions (mm[inch])





Panels



- 1 VIDEO IN 2 AUDIO OUT, RCA Connector
- 3 AUDIO IN, RCA Connector 4 HDMI Port
- 5 Network Port 6 RS-485 Port 7 USB Port 8 VGA Port
- 9 Power Input 10 Alarm In/Out
- 11 Power Switch 12 Ground