



DH-XVR5116HF-I3

16 Channels Penta-brid 5M-N/1080P Mini 1U 1HDD WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

*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.

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

- · H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128
 Mbps incoming bandwidth
- Up to 4 channels video stream (analog channel) Perimeter Protection
- Up to 16 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- · IoT & POS functionalitie



Smart Dual Illuminators

With Smart Dual Illuminators 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 AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

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.

AI 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.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Technical Specification	on		1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
System		Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
Main Processor	Embedded processor		It changes to 1920×1080 , 1280×1024 , 1280×720 when Face or IVS&SMD is selected in Al Mode.	
Operating System	Embedded Linux	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25	
Operating Interface	Web; Local GUI	Third-party Camera Access	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	
Perimeter Protection		Compression Standa	Compression Standard	
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Model: 2 channel, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel	Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	
Face Detection		Audio Compression	G.711A/G.711u/PCM	
	Gender: age group: glasses: expressions: face mask			
Face Attributes Face Detection	beard	Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P	
Performance of Al by Recorder (Number of	2 channels (up to 12 face images/s)	Mobile Phone Access	iPhone, iPad, Android	
Channels)		Interoperability	ONVIF 21.06, CGI	
Face Recognition	Us to 10 feet databases with 10000 feet increasing	Browser	Chrome, IE9 or above, Firefox	
Face Database Capacity	Up to 10 face databases with 10000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added	Network Mode	Single-address mode	
	to each face picture	Recording Playback		
Face Recognition Performance of AI by	2 channels	Record Mode	General, motion detection; intelligent; alarm; POS	
Recorder (Number of Channels)		Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.	
SMD Plus		0.1.001.1		
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by	Backup Method	USB Device/Network Instant playback, general playback, event playback, tag	
leaves, rain and lighting condition change Audio and Video		Playback Mode	playback, smart playback (face and motion detection)	
, , , , , , , , , , , , , , , , , , , ,	16 BNC ports, CVI access by default, supports HDCVI/	Alarm		
Analog Camera Input	AHD/TVI/CVBS auto-detect	General Alarm	Motion detection, Video Loss, tampering, and local alarm	
Camera Input	1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.	Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
		Intelligent Alarm	Face detection, face recognition, perimeter protection	
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
		Ports	Ports	
		Audio Input	16-channel RCA (external) 16-channel BNC (coaxial audio)	
Encoding Capacity	Main stream: All channel 5M-N (1 fps-10 fps); 4M-N/1080p (1 fps-15 fps); 1080N/720p/960H/D1/CIF (1 fps-25/30 fps) Sub stream: Supported (D1/CIF (1 fps-15 fps)).	Audio Output	1-channel RCA	
		Two-way Talk	Yes (share the same audio input with the first channel)	
Dual-stream	Yes	Alarm Input	16 channels	
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	Alarm Output	3 channels	
Video Bit Rate	32 Kbps–6144 Kbps Per Channel	HDD Interface	1 SATA Port, up to 16TB, the maximum HDD capacity varies with environment temperature	
Audio Sampling	8 KHz, 16 bit	RS-485	1 Port, for PTZ Control	
Audio Bit Rate	64 Kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
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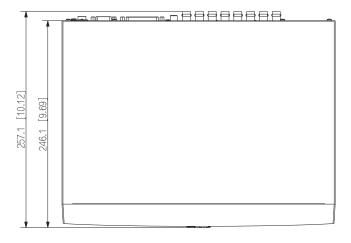
HDMI

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VGA	1	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	DC12V, 2A	
Power Consumption	Lower than 12 W	
Net Weight	1.36 kg (3.00 lb)	
Gross Weight	2.16 kg (4.76 lb)	
Product Dimensions	Mini 1U, 325.0 mm × 257.1 mm × 55.0 mm 12.80" × 10.12" × 2.17" (W × D × 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)	
Operating Humidity	10%-90%	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR5116HE-I3	Mini 1U DIGITAL VIDEO RECORDER		

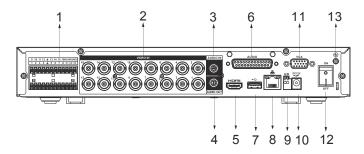
Dimensions (mm[inch]) 325.0 [12.80]



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Panels



- 1 Alarm In/Out
- 3 Audio In
- 5 HDMI Port
- 7 USB Port
- 9 RS-485 Port
- 11 VGA Port
- 13 Ground

- 2 Video In
- 4 Audio Out
- 6 DB-25 Port
- 8 Network Port
- 10 DC 12V Power Input
- 12 Power Switch