



DH-XVR5116HE-I3

16CH Penta-brid 5MP Value/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

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 to recognize the person identity.

*Face Recognition takes effect when Face is selected in Al 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 Al 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, Al 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

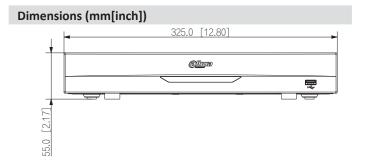
The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

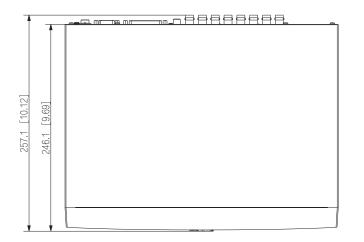
Technical Specification	on	Audio Bit Rate	64 Kbps	
System			1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Main Processor	Embedded processor	Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
Operating System	Embedded Linux		It changes to 1920×1080 , 1280×1024 , 1280×720 when Face or IVS&SMD is selected in AI Mode.	
Operating Interface	Web; Local GUI	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	
Perimeter Protection		Third-party Camera Acces	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channel, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel	Compression Stand	ard	
Face Detection		Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	
Face Attributes	Gender; age group; glasses; expressions; face mask;	Audio Compression	G.711A/G.711u/PCM	
Face Detection	beard	Network		
Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)	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, NVS, etc.)	
Face Recognition	Up to 10 face databases with 10000 face images in	Mobile Phone Access	iPhone, iPad, Android	
Face Database Capacity	total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added	Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
	to each face picture	Browser	Chrome, IE9 or above, Firefox	
Face Recognition Performance of AI by Recorder (Number of	2 channels	Network Mode	Single-address mode	
Channels)		Recording Playback	Recording Playback	
SMD Plus		Record Mode	General, motion detection; intelligent; alarm; POS	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.	
Audio and Video		Backup Method	USB Device/Network	
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
	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, 1080p@25/30fps, 720p@25/30fps.	Alarm		
Camera Input		General Alarm	Motion detection, Video Loss, tampering, and local alarm	
		Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
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.	Intelligent Alarm	Face detection, face recognition, perimeter protection	
		Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
		Ports	Ports	
Encoding Capacity	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M-N@ (1-12fps) 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)	Audio Input	16-channel RCA (external) 16-channel BNC (coaxial audio)	
		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.	Alarm Output	3 channels	
Video Bit Rate	NTSC: 1 fps–30 fps. 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	
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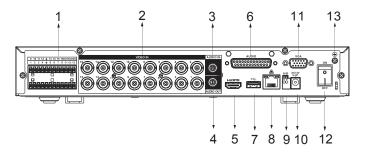
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	12 VDC, 2A			
Power Consumption	Lower than 12 W			
Net Weight	1.36 kg (3.00 lb)			
Gross Weight	2.16 kg (4.76 lb)			
Product Dimensions	Mini 1U, 325.0 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	16CH Penta-brid 5MP Value/1080P Mini 1U 1HDD WizSense Digital Video Recorder		





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