

DH-XVR5116H-I3

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



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al 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 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 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 functionalities



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 Al-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.

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Technical Specification

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System					
Main Processor	Embedded processor				
Operating System	Embedded Linux				
Operating Interface	Web; Local GUI				
Perimeter Protection					
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Model: 2 channel, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel				
Face Detection					
Face Attributes	Gender; age group; glasses; expressions; face mask; beard				
Face Detection Performance of Aby Recorder (Number of Channels)	2 channels (up to 12 face images/s)				
Face Recognition					
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 to each face picture				
Face Recognition Performance of Al by Recorder (Number of Channels)	2 channels				
SMD Plus					
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				
Audio and Video					
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect				
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.				
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.				
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)).				
Dual-stream	Yes				
Video Frame Rate	PAL: 1 fps-25 fps. NTSC: 1 fps-30 fps.				
Video Bit Rate	32 Kbps–6144 Kbps Per Channel				
Audio Sampling	8 KHz, 16 bit				
Audio Bit Rate	64 Kbps				

Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720				
Multi-screen Display	when Face or IVS&SMD is selected in Al Mode. When IP extension mode not enabled: 1/4/8/9/16				
Third-party Camera Access	When IP extension mode enabled: 1/4/8/9/16/25 Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon,				
	Samsung				
Compression Standard					
Video Compression	AI Coding/H.265+/H.265/H.264+/H.264				
Audio Compression	G.711A/G.711u/PCM				
Network					
Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P				
Mobile Phone Access	iPhone, iPad, Android				
Interoperability	ONVIF 21.06, CGI				
Browser	Chrome, IE9 or above, Firefox				
Network Mode	Single-address mode				
Recording Playback					
Record Mode	General, motion detection; intelligent; alarm; POS				
Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in Al Mode.				
Backup Method	USB Device/Network				
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)				
Alarm					
General Alarm	Motion detection, Video Loss, tampering, and local alarm				
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict				
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					
Audio Input	1-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)				
HDD Interface	1 SATA Port, up to 16TB, the maximum HDD capacity varies with environment temperature				
RS-485	1 Port, for PTZ Control				
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)				

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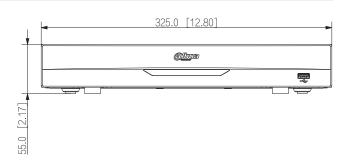
General

DC12V, 2A	
Lower than 12 W	
1.15 kg (2.54 lb)	
1.95 kg (4.30 lb)	
Mini 1U, 325.0 mm × 257.1 mm × 55.0 mm 12.80" × 10.12" × 2.17" (W × D × H)	
372.0 mm × 117.0 mm × 308.0 mm 14.65" × 4.61" × 12.13" (W × D × H)	
-10 °C to +55 °C (+14 °F to +131 °F)	
10%-90%	
Desktop; (Some Models)	
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-XVR5116H-I3	Mini 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])



246.1 [9.69]	7	-		
	257.1 [10.12]	246.1 [9.69]		

