



# DH-XVR5116HS-I3

## 16 Channels Penta-brid 5M-N/1080P Compact 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 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 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 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.

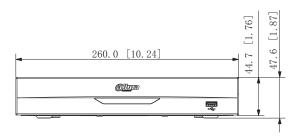
Technical Specification	on		1 HDMI ,1 VGA	
System		Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
Main Processor	Embedded processor		It changes to $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ when Face or IVS&SMD is selected 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 AI by Recorder (Number of	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	
Channels) Face Detection		Audio Compression	G.711A/G.711u/PCM	
race Detection	Conders age groups alactors expressions; fore marks	Network		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCF	
Face Detection Performance of AI by	2 channels (up to 12 face images/s)	Mobile Phone Access	DNS, DDNS, P2P iPhone, iPad, Android	
Recorder (Number of Channels)				
Face Recognition		Interoperability	ONVIF 21.06, CGI	
Face Database Capacity	Up to 10 face databases with 10000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries&regions and state can be added	Browser	Chrome, IE9 or above, Firefox	
		Network Mode	Single-address mode	
Face Recognition	to each face picture	Recording Playback		
Performance of AI by Recorder (Number of	2 channels	Record Mode	General, motion detection; intelligent; alarm; POS	
Channels) SMD Plus		Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in Al Mode.	
	16 channels: Secondary filtering for human and motor	Backup Method	USB Device/Network	
SMD Plus by Recorder	vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Audio and Video		Alarm		
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect	AldIII	Motion detection, Video Loss, tampering, and local	
	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.	General Alarm	alarm	
Camera Input		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		
		Audio Input	1-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	HDD Interface	1 SATA Port, up to 16TB, the maximum HDD capacity varies with environment temperature	
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	RS-485	1 Port, for PTZ Control	
Video Bit Rate	32 Kbps–6144 Kbps Per Channel	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
Audio Sampling	8 KHz, 16 bit	HDMI	1	
Audio Bit Rate	64 Kbps	VGA	1	

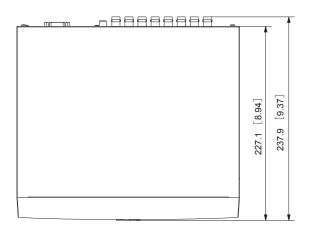
## Wiz Sense | DH-XVR5116HS-I3

Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	DC12V, 2A	
Power Consumption	Lower than 12 W	
Net Weight	1.17 kg (2.58 lb)	
Gross Weight	1.57 kg (3.46 lb)	
Product Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm 10.24" × 9.37" × 1.87" (W × D × H)	
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm 13.11" × 3.50" × 12.40" (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	

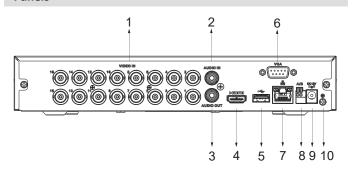
Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR5116HS-I3	Compact 1U DIGITAL VIDEO RECORDER		

## Dimensions (mm[inch])





**Panels** 



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