



# DH-XVR5116H-I3

## 16 Channel 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**

## **Real Time Face Recognition**

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, face mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

\*Face Recognition takes effect when Face is selected in AI Mode.

## **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving 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 2 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















### **AI Coding**

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

### Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

## HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

#### **High Definition Camera Input**

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

## Coaxial Audio/Upgrade/Alarm

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

#### **Long Distance Transmission**

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080 p and 1200 m for 720 p.

## AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

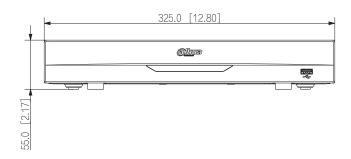
Technical Specification		Compression Standard	
System		Video Compression	Al Coding/H.265+/H.265/H.264+/H.264
Main Processor	Embedded processor	Audio Compression	G.711A/G.711u/PCM
Operating System	Embedded Linux	Network	
Perimeter Protection		Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP DNS, DDNS, P2P
Perimeter Performance AI by Recorder (Number of Channels)	2 channels	Mobile Phone Access	iPhone, iPad, Android
,		Interoperability	ONVIF 16.12, CGI Conformant
Face Detection	6 attributes: Gender, age groups (6), glasses, expressions	Browser	Chrome, IE9 or above, Firefox
Face Attributes	(8), face mask, beard, with up to four detection panels displayed at the same time.	Network Mode	Single-address mode
Face Detection		Recording Playback	
Performance of Aby Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.	Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Face Recognition Face Database Capacity	Up to 10 face databases and 10,000 pictures.	Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in Al Mode.
Face Recognition	op to 10 face databases and 10,000 pictures.	Backup Method	USB Device/Network
Performance of AI by Recorder (Number of Channels)	2 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
SMD Plus		Alarm	
	Full-channel SMD Plus (AI by recorder), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection, Video Loss, tampering, and local alarm
SMD Plus by Recorder		Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
Audio and Video		Intelligent Alarm	Face detection, face recognition, perimeter protection
Analog Camera Input	16 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
Camera Input	<ol> <li>CVI: SMP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps.</li> <li>TVI: SMP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.</li> <li>AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30</li> </ol>	Ports	, ,
	fps.	Audio Input	1, RCA (external) 16, BNC (coaxial)
IP Camera Input	16+8 channels, each channel up to 6MP	Audio Output	1, RCA
Encoding Capacity	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)	Two-way Talk	Yes (share the same audio input with the first channel)
Dual-stream	Supported (D1/CIF (1 fps–15 fps)).	HDD Interface	1 SATA Port, up to 16TB for a single HDD, 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 USB Ports (1 USB 2.0 , 1 USB 3.0)
Audio Sampling	8 KHz, 16 bit Per Channel	HDMI	1
Audio Bit Rate	64 Kbps Per Channel	VGA	1
Bit Rate Type	Video stream and composite stream.	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
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 when Face or IVS&SMD is selected in AI Mode.	General	
		Power Supply	DC12V, 2A
		Power Consumption	Lower than 12 W
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	Net Weight	1.15 kg (2.54 lb)
Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	Gross Weight	1.95 kg (4.30 lb)

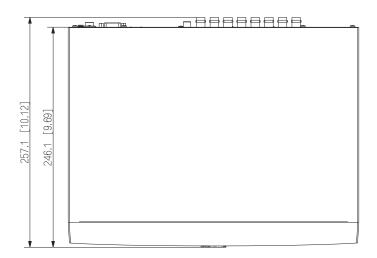
# Wiz Sense | DH-XVR5116H-I3

Product Dimensions	Mini 1U, 325.0 mm × 256.6 mm × 55.0 mm (W × D × H) 12.80" × 10.10" × 2.17" (W × D × H)	
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (L × W × H) 14.65" × 4.61" × 12.13" (L × W × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Operating Humidity	10%-90%	
Installation	Desktop; (Some Models)	
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	

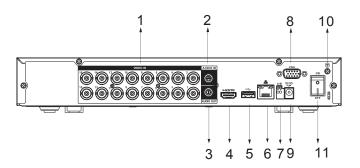
Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR5116H-I3	Mini 1U DIGITAL VIDEO RECORDER		

## Dimensions (mm[inch])





## **Panels**



- 1 Video In
- 3 Audio Out
- 5 USB Port
- 7 RS-485 Port
- 9 DC 12V Power Input
- 11 Power Switch
- 2 Audio In
- 4 HDMI Port
- 6 Network Port
- 8 VGA Port
- 10 Ground