



# DH-XVR5216AN-I3

# 16 Channel Penta-brid 5M-N/1080P 1U 2HDDs WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 Al 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 1080p and 1200 m for 720p.

#### 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		Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon,	
System		Compression Standa	Samsung  Compression Standard	
Main Processor	Embedded processor	Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	
Operating System	Embedded Linux	Audio Compression	G.711A/G.711u/PCM	
Perimeter Protection		Network	G./TIA/G./TIU/FCIVI	
Perimeter Performance Al by Recorder (Number of Channels)	2 channels	Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P	
,		Mobile Phone Access	iPhone, iPad, Android	
Face Detection	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to four detection panels displayed at the same time.	Interoperability	ONVIF 16.12, CGI Conformant	
Face Attributes		Browser	Chrome, IE9 or above, Firefox	
Face Detection Performance of Al by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.	Network Mode	Single-address mode	
		Recording Playback		
Face Recognition		Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	
Face Database Capacity Face Recognition	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.	
Performance of AI by Recorder (Number of Channels)	2 channels	Backup Method	USB Device/Network	
SMD Plus		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
SMD Plus by Recorder	Full-channel SMD Plus (Al by recorder), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	Storage		
Audio and Video	Condition change	Disk Group	Yes	
	16 channels BNC: adaptive access by default: HDCVI		Alarm	
Analog Camera Input	AHD, TVI and CVBS access can be configured.	General Alarm	Motion detection, Video Loss, tampering, and local alarm	
Camera Input	<ol> <li>CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps.</li> <li>TVI: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.</li> <li>AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30</li> </ol>	Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict	
	fps.	Intelligent Alarm	Face detection, face recognition, perimeter protection	
IP Camera Input Encoding Capacity	16+8 channels, each channel up to 6MP  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)	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email	
Dual-stream	Supported (D1/CIF (1 fps=15 fps)).	Ports		
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	Audio Input	1, RCA (external) 16, BNC (coaxial)	
Video Bit Rate	32 Kbps–6144 Kbps Per Channel	Audio Output	1, RCA	
Audio Sampling	8 KHz, 16 bit Per Channel	Two-way Talk	Yes (share the same audio input with the first channel)	
Audio Bit Rate	64 Kbps Per Channel	HDD Interface	2 SATA Ports, up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature	
Bit Rate Type	Video stream and composite stream.	RS-485	1 Port, for PTZ Control	
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 Al Mode.	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
		HDMI	1	
		VGA	1	
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	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	

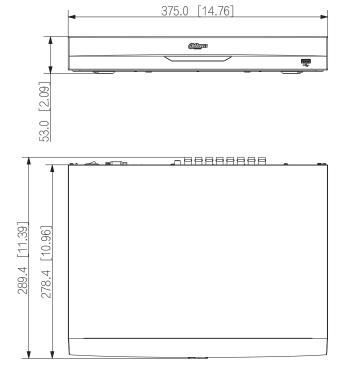
# Wiz Sense | DH-XVR5216AN-I3

#### General

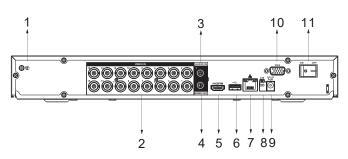
Power Supply	DC12V, 4A	
Power Consumption	Lower than 12 W	
Net Weight	1.56 kg (3.44 lb)	
Gross Weight	2.86 kg (6.31 lb)	
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (W × D × H) 14.76" × 11.38" × 2.09" (W × D × H)	
Packaging Dimensions	433.0 mm $\times$ 141.0 mm $\times$ 366.0 mm (L $\times$ W $\times$ H) 17.05" $\times$ 5.55" $\times$ 14.41" (L $\times$ W $\times$ 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-XVR5216AN-I3	1U DIGITAL VIDEO RECORDER		

# Dimensions (mm[inch])



# **Panels**



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

**USB Port** 

11 Power Switch