

# DH-XVR5216AN-I3-16P

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



Wiz Sense

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**

#### **PoC Series**

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

### **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.
- $\cdot$  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.
- · All-channel support PoC AT & AF camera. Auto recognize the PoC camera of different power consumptions.



#### **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.

Technical Specification		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	
System		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung	
Main Processor	Industrial-grade processor	Compression Standa	ard	
Operating System	Embedded Linux	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Operating Interface	Web; Local GUI	Audio Compression		
Perimeter Protection			G.711a; G.711u; PCM	
Perimeter Performance Al by Recorder (Number of	Advanced Model: 2 channel, 10 IVS for each channel	Network		
Channels)	General Model: 4 channels, 10 IVS for each channel	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P	
Face Detection		Mobile Phone Access	iOS; Android	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI	
Face Detection Performance of AI by	2 channels (up to 12 face images/s each channel) )	Browser	Chrome, IE9 or later, Firefox	
Recorder (Number of Channels)		Network Mode	Single-address mode	
Face Recognition		Recording Playback	Recording Playback	
	Up to 10 face databases with 20,000 face images in	Record Mode	General, motion detection; intelligent; alarm; POS	
Face Database Capacity	total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be	Recording Playback	1/4/9/16	
	added to each face image	Backup Method	USB device and network	
Face Recognition Performance of AI by Recorder (Number of	2 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Channels)		Storage		
SMD Plus		Disk Group	Yes	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Alarm		
		General Alarm	Motion detection; video loss; tampering; local alarm	
Audio and Video  16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-		Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict	
Analog Camera Input	detect	Intelligent Alarm	Face detection; face recognition; perimeter protection	
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.	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email	
	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.	Ports		
		TV Output	Yes	
IP Camera Input		Audio Input	1-channel RCA	
		Audio Output	16-channel BNC (Coaxial Audio)  1-channel RCA	
	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)		Yes (share the same audio input with the first channel)	
Encoding Capacity		Two-way Talk	res (snare the same audio input with the first channel)	
Dual-stream	Sub stream: Supported (D1/CIF (1 fps–15 fps)).	HDD Interface	2 SATA ports, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment	
Video Bit Rate	32 kbps-6144 kbps		temperature.	
Audio Sampling	8 kHz, 16 bit	RS-485	1 port, for PTZ control	
Audio Bit Rate	64 kbps	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
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	HDMI	1	
		VGA	1	
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
	when Face or IVS&SMD is selected in AI Mode.			

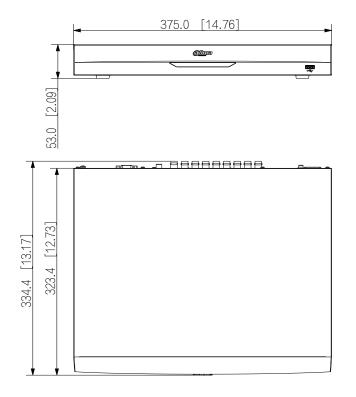
## General

Power Supply	100–240 VAC, 50/60 Hz		
Power Consumption	<15 W (without HDD)		
Net Weight	1.80 kg (3.97 lb)		
Gross Weight	4.13 kg (9.11 lb)		
Product Dimensions	375.0 mm × 334.4 mm × 53.0 mm (14.76" × 13.17" × 2.09") (W × D × H)		
Packaging Dimensions	449.0 mm × 170.0 mm × 421.0 mm (17.68" × 6.69" × 16.57") (W × D × H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Operating Humidity	10%-90% (RH)		
Installation	Rack or desktop		
Certifications	CE: CE-LVD: EN 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B		

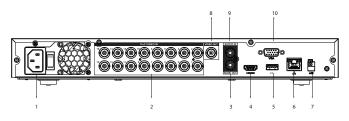
# **Ordering Information**

Туре	Model	Description
16 Channels	DH-XVR5216AN-	1U DIGITAL VIDEO RECORDER

# Dimensions (mm[inch])



# **Panels**



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