

# DH-XVR5216AN-I3-16P

# 16 Channels Penta-brid 5M-N/1080P 1U 2HDDs 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**

#### **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 8 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.



# Wiz Sense | DH-XVR5216AN-I3-16P

| Technical Specification   |  | Multi-screen Display      | When IP extension mode not enabled: 1/4/8/9/16<br>When IP extension mode enabled: 1/4/8/9/16/25                      |  |
|---|--|---------------------------|--|--|
| System  |  | Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Samsung   |  |
| Main Processor  | ocessor Industrial-grade processor   |                           | Compression Standard   |  |
| 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         | G.711a; G.711u; PCM  |  |
| Perimeter Protection  |  | ·                         | 6.711d, 6.711d, 1 61vi   |  |
| Perimeter Performance Al<br>by Recorder (Number of<br>Channels) | Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel   | Network  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 Playba          | Recording Playback   |  |
| J   | 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                   | 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  | Alarm                     |  |  |
|   | lighting condition change  | 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                     | Ports  |  |
|   |  | TV Output                 | Yes  |  |
| IP Camera Input   |  | Audio Input               | 1-channel RCA 16-channel BNC (Coaxial Audio)   |  |
|   |  | Audio Output              | 1-channel RCA  |  |
| Encoding Capacity   | Main stream: All channel 5M-N (1 fps–10 fps);<br>4M-N/1080p (1 fps–15 fps); 1080N/720p/960H/D1/CIF   | Two-way Talk              | Yes (share the same audio input with the first channel)  |  |
| Dual-stream   | (1 fps-25/30 fps) Sub stream: Supported (D1/CIF (1 fps-15 fps)).   | UDD laboriface            | 2 SATA ports, up to 16 TB capacity for each disk. The  |  |
| Video Bit Rate  | 32 kbps-6144 kbps  | HDD Interface             | maximum HDD capacity varies with environment 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<br>VGA: 1920 × 1080, 1280 × 1024, 1280 × 720<br>HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×<br>720<br>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.   |                           | 1 (20, 200, 2000 Maps Editerriet port, 10 40)  |  |





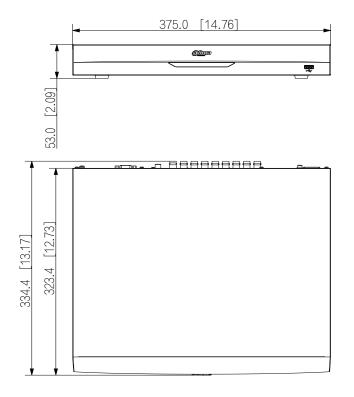
#### General

| Power Supply          | 100-240 VAC, 50±2% 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 × 289.4 mm × 53.0 mm (14.76" × 11.39" × 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<br>CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN<br>50130, EN 55024<br>FCC: Part 15 Subpart B |  |

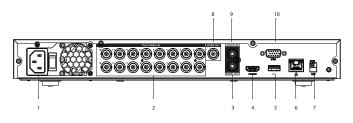
| Ordering I | nformation |
|------------|------------|
|------------|------------|

| Туре                        | Model                   | Description               |  |  |
|-----------------------------|-------------------------|---------------------------|--|--|
| 16 Channels<br>WizSense XVR | DH-XVR5216AN-<br>I3-16P | 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

