

# DH-XVR5216AN-4KL-I3

## 16 Channels Penta-brid 4K-N/5MP 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, XVR5000-4KL-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.

\*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

#### **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.

#### 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.

- H.265+/H.265 dual-stream video compression.
- · Supports Full-channel AI-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 32 channels IP camera inputs, each channel up to 8MP; 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.



#### Scheduled AI

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

#### **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.

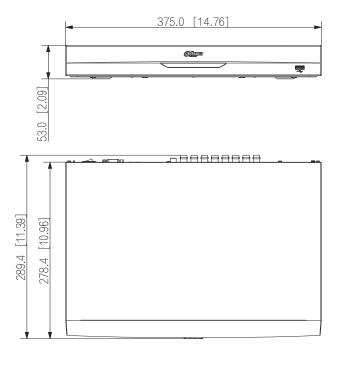
| Technical Specification   |   |  | Audio Bit Rate   | 64 kbps  |
|---|---|--|--|--|
| System  |   |  | Bit Rate Type  | Video stream and composite stream.   |
| Main Processor Operating System                                 | Industrial-grade processor Embedded Linux   |  | Video Output   | HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×  |
| Operating Interface   | Web; Local GUI  |  | *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable. |  |
| Perimeter Protection  |   |  | Multi-screen Display   | When IP extension mode not enabled: 1/4/8/9/16   |
| Perimeter Performance AI<br>by Recorder (Number of<br>Channels) | Advanced Model: 2 channels, 10 IVS for each channel<br>General Model: 8 channels, 10 IVS for each channel   |  | Third-party Camera Access  | When IP extension mode enabled: 1/4/8/9/16/25/36  Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung       |
| Face Detection  |   |  | Compression Standard   |  |
| Face Attributes   | Gender; age group; glasses; expressions; face mask; beard   |  | Video Compression  | Al Coding; H.265+; H.265; H.264+; H.264  |
| Face Detection  | 2 channels (up to 12 face images/s)   |  | Audio Compression  | G.711A; G.711u; PCM  |
| Performance of AI by<br>Recorder (Number of<br>Channels)        |   |  | Network  |  |
| Face Recognition  |   |  | Network Protocol   | HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P  |
|   | Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries&regions and state can be added to each face picture  |  | Mobile Phone Access  | iOS, Android   |
| Face Database Capacity  |   |  | Interoperability   | ONVIF 21.06, CGI   |
| Face Recognition  | ·   |  | Browser  | Chrome, IE9 or above, Firefox  |
| Performance of AI by<br>Recorder (Number of                     | 2 channels  |  | Network Mode   | Single-address mode  |
| Channels)   |   |  | Recording Playback   |  |
| SMD Plus  |   |  | Record Mode  | General, motion detection; intelligent; alarm; POS   |
| SMD Plus by Recorder  | 16 channels:<br>Secondary filtering for human and motor vehicle SMD<br>Plus, reducing false alarms caused by leaves, rain and<br>lighting condition change  |  | Recording Playback   | When the AI Function (IVS, FACE) is not enabled: $1/4/9/16$ When the AI Function (IVS, FACE) is enabled: $1/4/9$     |
|   |   |  | Backup Method  | USB device and network   |
| Audio and Video   |   |  | Playback Mode  | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)         |
| Analog Camera Input   | 16 channel BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.  |  | Storage  |  |
|   | 1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps,<br>720P@50/60fps, 720P@25/30fps.<br>2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps,<br>720P@25/30fps.<br>3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps,<br>720P@25/30fps.   |  | Disk Group   | Yes  |
| Camera Input  |   |  | Alarm  |  |
|   |   |  | General Alarm  | Motion detection, video loss, tampering, and local alarm   |
| IP Camera Input   | Up to 32 channels of IPC access 16 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. |  | Anomaly Alarm  | No disk, storage error, low space, offline, IP conflict, MAI conflict  |
|   |   |  | Intelligent Alarm  | Face detection, face recognition, perimeter protection   |
|   |   |  | Alarm Linkage  | Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email |
|   | Main stream:<br>All channels 4K@(1-7fps); 6MP@(1-10fps);<br>5MP@(1-12fps); 4K-N/4MP/3MP@(1-15fps);<br>4M-N/1080P/720P/960H/D1/CIF(1fps-25/30fps);<br>Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-<br>25/30fps)   |  | Ports  |  |
| Encoding Capacity   |   |  | Audio Input  | 1-channel RCA (external)<br>16-channel BNC (coaxial audio)   |
|   |   |  | Audio Output   | 1, RCA   |
| Dual-stream   | Yes   |  | Two-way Talk   | Yes (share the same audio input with the first channel)  |
| Video Frame Rate  | PAL: 1 fps–25 fps.<br>NTSC: 1 fps–30 fps.   |  | HDD Interface  | 2 SATA ports, up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature             |
| Video Bit Rate  | 32 kbps–6144 kbps per channel   |  | RS-485   | 1  |
| Audio Sampling  | 8 kHz, 16 bit   |  | USB  | 2 (1 front USB 2.0 port, 1 rear USB 3.0 port)  |

## Wiz Sense | DH-XVR5216AN-4KL-I3

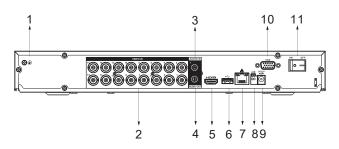
| HDMI                  | 1   |  |  |
|-----------------------|---|--|--|
| VGA                   | 1   |  |  |
| Network Port          | 1 (10/100/1000 Mbps Ethernet port, RJ-45)   |  |  |
| General               |   |  |  |
| Power Supply          | 12 VDC, 5 A   |  |  |
| Power Consumption     | Lower than 15 W(without HDD)  |  |  |
| Net Weight            | 1.77 kg (3.90 lb)   |  |  |
| Gross Weight          | 2.94 kg (6.48 lb)   |  |  |
| Product Dimensions    | 1U, 375.0 mm × 289.4 mm × 53.0 mm (14.76" × 11.39" × 2.09") (W × D × H)   |  |  |
| Packaging Dimensions  | 433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H)  |  |  |
| Operating Temperature | −10 °C to +55 °C (14 °F to +131 °F)   |  |  |
| Operating Humidity    | 10%-90% (RH)  |  |  |
| Installation          | Desktop   |  |  |
| Certifications        | CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-<br>3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC:<br>Part 15 Subpart B |  |  |

| Ordering Information        |                         |                           |  |  |
|-----------------------------|-------------------------|---------------------------|--|--|
| Туре                        | Model                   | Description               |  |  |
| 16 Channels<br>WizSense XVR | DH-XVR5216AN-<br>4KL-I3 | 1U DIGITAL VIDEO RECORDER |  |  |

### Dimensions (mm[inch])



#### **Panels**



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