

# DH-XVR4216AN-I

16 Channel Penta-brid 720P 1U 2HDDs WizSense Digital Video Recorder



Launched by Dahua Technology, WizSense is a series of Al 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, WizSense Series featuring SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, 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

#### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

#### SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

#### AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

- H.265+/H.265 video compression
- Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 18 channels IP camera inputs, each channel up to 6MP; Max 64 Mbps Incoming Bandwidth
- Long transmission distance over coax cable
- Up to 8 channels video stream ( analog channel ) SMD Plus
- Supports 2 SATA HDD, up to 10 TB



#### 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. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

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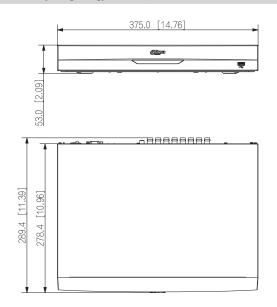
#### **Technical Specification** System Main Processor Embedded processor Embedded linux **Operating System** SMD Plus Performance 8 channels Al Search Search by target classification (Human, Vehicle) Video and Audio 16 Channel, BNC Analog Camera Input HDCVI Camera 1080P@ 25/30 fps, 720P@ 25/30 fps AHD Camera 1080P@ 25/30 fps, 720P@25/30 fps TVI Camera 1080P@25/30 fps, 720P@25/30fps CVBS Camera PAL/NTSC IP Camera Input 16+2/16 Channel, each channel up to 6MP Audio In/Out 1/1, RCA Two-way Talk Reuse audio in/out, RCA Recording Video Compression AI Coding/H.265+/H.265/H.264+/H.264 Resolution 1080N; 720P; 960H; D1; CIF Main Stream: the 1st channel 1080N/720P (1 fps-25/30 fps), others Record Rate 1080N/720P (1 fps-15 fps); 960H/D1/CIF (1 fps-25/30 fps) Sub steram: CIF(1 fps-7 fps) Bit Rate 32 kbps-4096 kbps per channel Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Record Mode Alarm; Stop 1 min-60 min (default: 60 min), Pre-record: 1 sec-30 sec, Record Interval Post-record: 10 sec-300 sec Audio Compression G.711A, G.711U, PCM Audio Sample Rate 8 KHz, 16 bit per channel Audio Bit Rate 64 kbps per channel Display Interface 1 HDMI; 1 VGA Resolution 1920 × 1080, 1280 × 1024, 1280 × 720 When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16 Camera title; Time; Video loss; Camera lock; Motion OSD detection; Recording Network 1 RJ-45 Port (100 MB) Interface HTTP; HTTPS; TCP/IP; IPv4/IPv6; Wi-Fi; 3G/4G; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Network Function Alarm Server; P2P; IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users

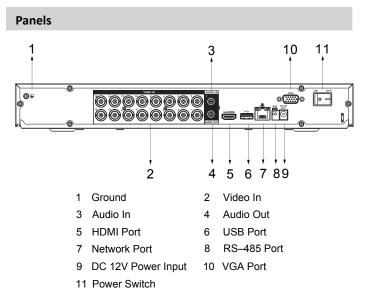
| Smart Phone                        | iPhone; iPad; Android   |  |
|------------------------------------|---|--|
| Interoperability                   | ONVIF 16.12, CGI Conformant   |  |
| Video Detection and Alarm          |   |  |
| Trigger Events                     | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot,<br>Buzzer and Screen Tips   |  |
| Video Detection                    | Motion Detection, MD Zones: 396 (22 × 18), Video Loss,<br>Tampering and Diagnosis   |  |
| Alarm input                        | N/A   |  |
| Relay Output                       | N/A   |  |
| Playback and Backup                |   |  |
| Playback                           | 1/4/9/16  |  |
| Search Mode                        | Time /Date, Alarm, MD and Exact Search (accurate to second)   |  |
| Playback Function                  | Play; Pause; Stop; Rewind; Fast play; Slow Play; Next File;<br>Previous File; Next Camera; Previous Camera; Full Screen;<br>Repeat; Shuffle; Backup Selection; Digital Zoom |  |
| Backup Mode                        | USB Device/Network  |  |
| Storage                            |   |  |
| Internal HDD                       | 2 SATA ports, up to 10 TB capacity  |  |
| eSATA                              | N/A   |  |
| Auxiliary Interface                |   |  |
| USB                                | 2 USB 2.0   |  |
| RS232                              | N/A   |  |
| RS485                              | 1 port, for PTZ control   |  |
| Electrical                         |   |  |
| Power Supply                       | DC 12V/4A   |  |
| Power Consumption<br>(without HDD) | <10W  |  |
| Construction                       |   |  |
| Dimensions                         | 1U, 375 mm × 287 mm × 53 mm (14.8" × 11.3" × 2.1")  |  |
| Net Weight<br>(without HDD)        | 1.61 kg (3.55 lb)   |  |
| Gross Weight                       | 2.86 kg(6.30 lb)  |  |
| Installation                       | Desktop installation  |  |
| Environmental                      |   |  |
| Operating Conditions               | -10°C to +55°C (+14°F to +131°F), 10%–90% (RH)  |  |
| Storage Conditions                 | -20°C to +70°C (-4°F to +158°F) , 0%–90% (RH)   |  |
| Third-party Support                | t   |  |
| Third-party Support                | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP<br>Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,<br>Sanyo, Sony, Videotec, Vivotek, and more               |  |
| Certifications                     |   |  |
|                                    | FCC: Part 15 Subpart B  |  |
| Certifications                     | CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50130;<br>EN 55024   |  |
|                                    | UL: UL 60950-1  |  |
|                                    |   |  |

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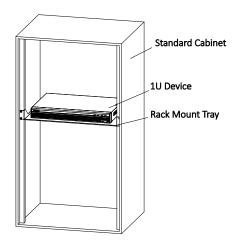
| Ordering Information       |                |  |  |
|----------------------------|----------------|--|--|
| Туре                       | Part Number    | Description  |  |
| 16 Channel<br>WizSense XVR | DH-XVR4216AN-I | 16 Channel Penta-brid 720P 1U<br>WizSense Digital Video Recorder |  |

### Dimensions (mm[inch])





#### Installation



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