

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.

| System Main frecessor Interded to thus Compression Standard Operating piter face Work for all cities Compression Standard All Coding Smart (1255; H265; Smart (1264; H265) Operating piter face Work for all cities All Coding Smart (1255; H265; Smart (1264; H265) Perimeter Protection Perimeter Protection Network (1264) All Coding Smart (1255; H265; Smart (1264; H264) Pace Detection Face Obtection Moreover Models 2 claimed, 30 (N5 for asin charmed) Metwork Protected METH PRESS CROP) (INP, NSK (1797) (INP, NSK (1797)) Pace Detection Pace Detection All Coding Smart (1264; H265) (INP, NSK (1797)) Metwork Models (1264) Met | 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 | |
|--|---|---|----------------------|---|--|
| Main Processor Mean manual grain processor Compression Standard I I I I I Marked Model 2 (1994) A Coding Stream 1 (2014) (1994) (1994) A Coding Stream 1 (2014) (1994) (1 | System | | | ONVIF; Panasonic; Sony; Axis; Arecont; Samsung | |
| Operating Pysters Chinedeed Linux Video Compression Acciding Swarth L264-1, H264-1, | Main Processor | Industrial-grade processor | | ard | |
| Department of Profession Perimeter Profession Audio Compression Schlas Gribus Point Profession Perimeter Profession Audio Compression Schlas Gribus Point Profession Perimeter Profession Audio Compression Perimeter Profession Audio Compression Perimeter Profession Audio Compression Perimeter Profession Perimeter Profession Audio Entire Profession Perimeter Profession Perimete | Operating System | Embedded Linux | · | | |
| Perimeter Protection Protect Name By Recorder (Number of Channels) Construct (Supplier of Channels) Face Detection Face Detection Face Detection Face Detection Consider garginging glacency representations from mask; blood for agriculture of the protection board of the protection of All by Recorder (Number of Channels) Face Detection Face Detection | Operating Interface | Web; Local GUI | · | | |
| Advanced Model: 2 damels, 10 NS for each channel Channels (Mainteen) Face Detection Face Det | Perimeter Protection | | | G./11a, G./11u, PCIVI | |
| Chammels Secretary Medical Canamas 11 Ps for each channel Medical Phone Access 105, Androis 105, | | | Network | | |
| Record Altributes Sender ; age group; glacon; expressions face mask; Sender possibility Sender Sender (Section Performance of Alby Perfo | , , | | Network Protocol | | |
| Face Detection Performance of Al by Recorder (Number of Channels) Face Recognition Face Recognition Face Potentials (up to 12 face images/s each channel)) Face Recognition Face | Face Detection | | Mobile Phone Access | iOS; Android | |
| Performance of All by Recording Playback Recording Playback Recording Playback Recording Playback Recording Playback Recording Playback Record Mode General, motion detection; intelligent; alarm; POS Infance Database Capacity Certificate No., countries & regions and state can be added to each face image. Playback No. provided in the provided in the playback intelligent; alarm; POS Recording Playback Record Mode General, motion detection; intelligent; alarm; POS Recording Playback Record Mode Reco | Face Attributes | | Interoperability | ONVIF 21.12(Profile T; Profile S; Profile G); CGI | |
| Recorder Number of Channels Up to 10 face disabases with 0,000 face images in the Channels of Channels Up to 10 face disabases with 0,000 face images in the Channels of Chann | | 2 channels (up to 12 face images/s each channel)) | Browser | Chrome, IE9 or later, Firefox | |
| Recording Playback Record Mode General, motion detection, intelligent; alarn; POS | Recorder (Number of | | Network Mode | Single-address mode | |
| Face Database Capacity to 10 Trace databases with 20,000 Trace Images in too database Capacity to 20,000 Trace Images in too add to ach face image and state can be added to each face and state and state can be added to each face and state can be added to each face and state and s | · | | Recording Playback | Recording Playback | |
| Face Recognition Performance of Al by Recorder (Number of Channels) SMD Plus I 6 channels Secondary filtering for human and motor vehicle, reducing false plants caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input I 1. 6 NSP ports, supports HDCVI/AHD/TVI/CVBS auto- detect TO: SMP, MMP, 1080p@25/30 fps. 3. AHD: SMP, SMP, SMP, 1080p@25/30, 720p@25/30 fps. 3. AHD: SMP, SMP, SMP, 1080p@25/30, 720p@25/30 fps. 3. PhD: SMP, SMP, SMP, 1080p@25/30, 720p@25/30 fps. IP Camera Input IP Camera Input IP Camera Input Amount of the second of the seco | | Up to 10 face databases with 20,000 face images in | Record Mode | General, motion detection; intelligent; alarm; POS | |
| Pack Recognition Performance of Al by Recorder (Number of Channels) Playback (Mode Instant playback, general playback, tamper playback, tamper playback, smart shall s | Face Database Capacity | cerificate No., countries & regions and state can be | Recording Playback | 1/4/9/16 | |
| Performance of Al by Recorder (Number of Channels) Storage SMD Plus Instant playback, general playback, tag playback, tag playback, general playback, tag playback, tag playback, general p | | added to each face image | Backup Method | USB device and network | |
| SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change and rotor vehicle, reducing false alarms caused by leaves, rain and lighting condition change and lighting cond | Performance of AI by Recorder (Number of | 2 channels | Playback Mode | | |
| SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recording Plus by Recorder SMD Plus by Recorder SMD Plus by Recording Plus by Recorder SMD Plus | Channels) | | Storage | | |
| Audio and Video Analog Camera Input 16 BNC ports, supports HDCVVAHD/TVI/CVBS autodetect 1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps, 720p@25/30 fps, 720p@25/30 fps, 720p@25/30 fps, 720p@25/30 fps, 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps, 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps, 720p@25/30 fps, 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 3. AHD: 5MP, 4MP, 3MP, 4MP, 4MP, 3MP, | SMD Plus | | Disk Group | Yes | |
| Audio and Video Analog Camera Input | SMD Plus by Recorder | vehicle, reducing false alarms caused by leaves, rain and | | | |
| Analog Camera Input 16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect | Accelia and Mida | | General Alarm | | |
| Analog Camera input detect | | | Anomaly Alarm | | |
| Camera Input 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. 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 4. 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 hard outgoing | Analog Camera Input | | Intelligent Alarm | Face detection; face recognition; perimeter protection | |
| P Camera Input S 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 and outgoing bandwidth: 128 Mbps After IP channels are added beyond the existing channels, the Al Function (IVS, SMD, FACE) will be disabled. | Camera Input | 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 | Alarm Linkage | output; access controller; voice prompt; buzzer; log; | |
| 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. 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) Dual-stream Sub stream: Supported (D1/CIF (1 fps-15 fps)). Video Bit Rate 32 kbps-6144 kbps Audio Sampling 8 kHz, 16 bit RS-485 1 port, for PTZ control USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) HDMI Video Output Video Output Video Output Video Output Pyes Audio Input 1-channel RCA 1-channel BNC (Coaxial Audio) Audio Output 1-channel RCA 1-channel BNC (Coaxial Audio) Two-way Talk Yes (share the same audio input with the first channel) Pyes Audio Output Two-way Talk Yes (share the same audio input with the first channel) Pyes 4 SATA ports, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. USB 2 SATA ports, up to 16 TB capacity for each disk. The maximum HDD capacity varies with environment temperature. Pyes 4 HDM I 1 Dept. for PTZ control HDMI Video Output Video Output Video Output Video Output Pyes | | | Ports | | |
| 128 Mbps and outgoing bandwidth: 128 Mbps Audio Input 1-channel RCA 16-channel RCA 16-channel RCA 16-channel RCA 16-channel BNC (Coaxial Audio) | | are converted to IP channels) | TV Output | Yes | |
| channels, the Al Function (IVS, SMD, FACE) will be disabled. Audio Output 1-channel BNC (Coaxial Audio) Audio Output 1-channel BNC (Coaxial Audio) 1-c | IP Camera Input | 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be | Audio Input | | |
| Encoding Capacity | | | · | | |
| 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 temperature. | | Main stream: All channel 5M-N (1 fps–10 fps); 4M-N/1080p (1 fps–15 fps); 1080N/720p/960H/D1/CIF | | | |
| Note | Encoding Capacity | | Two-way Talk | Yes (share the same audio input with the first channel) | |
| Video Bit Rate 32 kbps-6144 kbps 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) 1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Pt. changes to 1920 × 1080, 1280 × 1024, 1280 × 720 Pt. changes to 1920 × 1080, 1280 × 1024, 1280 × 720 VGA 1 | Dual-stream | Sub stream: Supported (D1/CIF (1 fps–15 fps)). | HDD Interface | maximum HDD capacity varies with environment | |
| Audio Bit Rate 64 kbps USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) 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 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 | Video Bit Rate | 32 kbps-6144 kbps | | competitute. | |
| 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 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 | Audio Sampling | 8 kHz, 16 bit | RS-485 | 1 port, for PTZ control | |
| VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It schanges to 1920 × 1080, 1280 × 1024, 1280 × 720 | Audio Bit Rate | 64 kbps | USB | 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) | |
| Video Output HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 | Video Output | VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 | HDMI | 1 | |
| It changes to 1920 x 1080, 1280 x 1024, 1280 x 720 | | | VGA | 1 | |
| Network Port 1 110/100/1000 Minds Einernet nort R1-45) | | | Network Port | 1 (10/100/1000 Mbps Ethernet port, RJ-45) | |

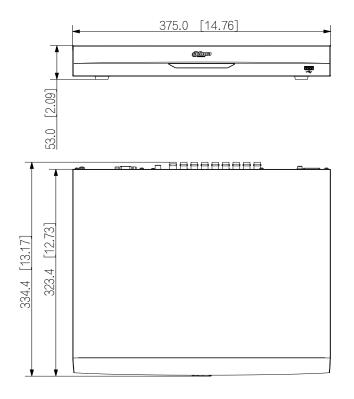
General

| 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 × 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 | | |

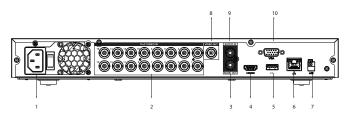
Ordering Information

| - · · · · · · · · · · · · · · · · · · · | | | | |
|---|-------------------------|---------------------------|--|--|
| Туре | Model | Description | | |
| 16 Channels WizSense XVR | DH-XVR5216AN- 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
- HDMI Port
- 6 Network Port 8 VIDEO OUT 10 VGA Port