

DH-XVR5216AN-I3

16 Channel 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, Cooper-I Series featuring max. full-channel SMD Plus to benefit customers from AI 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

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, face mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

*Face Recognition takes effect when Face is selected in AI Mode.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving 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
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128
 Mbps incoming bandwidth
- Up to 2 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



AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

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 1200 m for 720P.

AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

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Technical Specification System Main Processor Embedded processor Embedded Linux **Operating System** Perimeter Protection Perimeter Performance AI by Recorder (Number of 2 channels Channels) Face Detection 6 attributes: Gender, age groups (6), glasses, expressions **Face Attributes** (8), face mask, beard, with up to four detection panels displayed at the same time Face Detection Performance of AI by 2 channels, and a single channel can detect up to 12 Recorder (Number of faces. Channels) Face Recognition Face Database Capacity Up to 10 face databases and 10.000 pictures. Face Recognition Performance of AI by 2 channels Recorder (Number of Channels) **SMD** Plus Full-channel SMD Plus (AI by recorder), secondary filtering for human and motor vehicle SMD Plus, SMD Plus by Recorder reducing false alarms caused by leaves, rain and lighting condition change Audio and Video 16 channels, BNC: adaptive access by default; HDCVI, Analog Camera Input AHD, TVI and CVBS access can be configured. 1. CVI: 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps Camera Input 2. TVI: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps. 3. AHD:5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps. 16+8 channels, each channel up to 6MP IP Camera Input All channel 5M-N (1 fps-10 fps); 4M-N/1080P (1 fps-**Encoding Capacity** 15fps); 1080N/720P/960H/D1/CIF (1fps-25/30 fps) Dual-stream Supported (D1/CIF (1 fps-15 fps)) PAL: 1 fps-25 fps. Video Frame Rate NTSC: 1 fps-30 fps. Video Bit Rate 32 Kbps-6144 Kbps Per Channel 8 KHz, 16 bit Per Channel Audio Sampling Audio Bit Rate 64 Kbps Per Channel Bit Rate Type Video stream and composite stream. 1 HDMI .1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720

when Face or IVS&SMD is selected in AI Mode.

Samsung

Multi-screen Display

Third-party Camera Access

When IP extension mode not enabled: 1/4/8/9/16

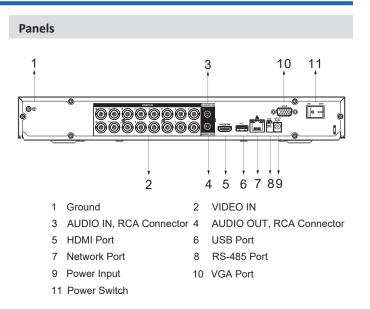
When IP extension mode enabled: 1/4/8/9/16/25

Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon,

Compression Standard AI Coding/H.265+/H.265/H.264+/H.264 Video Compression Audio Compression G.711A/G.711u/PCM Network HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, Network Protocol DNS, DDNS, P2P Mobile Phone Access iPhone, iPad, Android ONVIF 16.12, CGI Conformant Interoperability Browser Chrome, IE9 or above, Firefox Network Mode Single-address mode **Recording Playback** Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Record Mode Alarm, Stop 1/4/9/16 **Recording Playback** It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode. USB Device/Network Backup Method Instant playback, general playback, event playback, tag Playback Mode playback, smart playback (face and motion detection) Storage **Disk Group** Yes Alarm Motion detection, Video Loss, tampering, and local General Alarm alarm No disk, disk error, low space, offline, ip conflict, MAC Anomaly Alarm conflict Intelligent Alarm Face detection, face recognition, perimeter protection Record, snapshot (panoramic), IPC external alarm Alarm Linkage output, access controller, voice prompt, buzzer, log, preset, email Ports 1. RCA (external) Audio Input 16, BNC (coaxial) Audio Output 1. RCA Two-way Talk Yes (share the same audio input with the first channel) 2 SATA Ports, up to 16TB for a single HDD, the maximum HDD Interface HDD capacity varies with environment temperature RS-485 1 Port, for PTZ Control USB 2 USB Ports (1 USB 2.0, 1 USB 3.0) HDMI VGA Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) General Power Supply DC12V, 4A

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Power Consumption	Lower than 12W	
Net Weight	1.56 kg (3.44 lb)	
Gross Weight	2.86 kg (6.31 lb)	
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (W × D × H) 14.76" × 11.38" × 2.09" (W × D × H)	
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (L × W × H) 17.05" × 5.55" × 14.41" (L× W × H)	
Operating Temperature	–10 °C to +55 °C (+14 °F to +131 °F)	
Operating Humidity	10%-90%	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 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	1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])

