

# DH-XVR5232AN-I3

32 Channels Penta-brid 5M-N/1080P 1U 2HDDs WizSense Digital Video Recorder



**WizSense**

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 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

### 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.

### 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.

### AI Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

- 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 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
- Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.



### 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.

### 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.

### 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.

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

### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

## Technical Specification

### System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux

### Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS for each channel
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### Face Detection

Face Attributes	Gender, age groups, glasses, expressions, face mask, beard
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 face images

### Face Recognition

Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries&regions and state can be added to each face picture
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels

### SMD Plus

SMD Plus by Recorder	16 channels: Smart motion detection alarm for human and vehicles to filter false alarms such as leaves and light
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### Audio and Video

Analog Camera Input	32 channel BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured
Camera Input	1. CVI: 5 MP, 4 MP, 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP, 4 MP, 3 MP, 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP, 4 MP, 3 MP, 1080p@25/30 fps, 720p@25/30 fps
IP Camera Input	32 channels, each channel up to 6 MP
Encoding Capacity	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	Yes
Video Frame Rate	PAL: 1 fps-25 fps. NTSC: 1 fps-30 fps
Video Bit Rate	32 kbps-6144 kbps per channel
Audio Sampling	8 kHz, 16 bit per channel
Audio Bit Rate	64 kbps per channel
Bit Rate Type	Video stream and composite stream
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	1/4/8/9/16/25/36

Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
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### Compression Standard

Video Compression	AI Coding; H.265+; H.265; H.264+;H.264
Audio Compression	G.711A; G.711u; PCM

### Network

Network Protocol	HTTP; HTTPS; TCP / IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant
Browser	Chrome, IE9 or later, Firefox
Network Mode	Single-address mode

### Recording Playback

Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Recording Playback	1/4/9/16
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)

### Storage

Disk Group	Yes
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### Alarm

General Alarm	Motion detection, video loss, tampering
Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC 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

### Ports

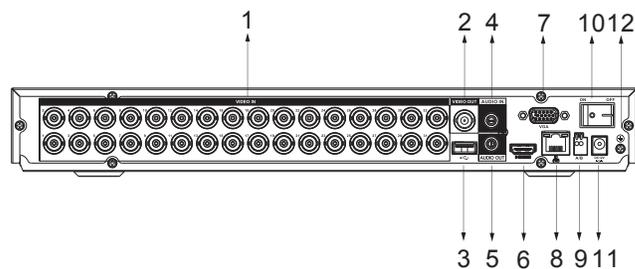
TV Output	1 channel
Audio Input	1-channel RCA (external) 32-channel BNC (coaxial audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	2 SATA ports, up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature
RS-485	1 port, for PTZ control
USB	2 USB ports (1 USB 2.0, 1 USB 3.0)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

### General

Power Supply	12 VDC, 5 A
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Power Consumption	Lower than 17 W
Net Weight	1.98 kg (4.36 lb)
Gross Weight	3.15 kg (6.94 lb)
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (14.76" × 11.38" × 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	0%–90% (RH)
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

**Panels**



- 1 Video In
- 2 Video Out
- 3 USB Port
- 4 Audio In
- 5 Audio Out
- 6 HDMI Port
- 7 VGA Port
- 8 Network Port
- 9 RS-485 Port
- 10 Power Switch
- 11 DC 12V Power Input
- 12 Ground

**Ordering Information**

Type	Model	Description
32 Channels WizSense XVR	DH-XVR5232AN-I3	1U DIGITAL VIDEO RECORDER

**Dimensions (mm[inch])**

