DH-XVR4232AN-I

32 Channels Penta-brid 1080N/720P 1U 2HDDs WizSense Digital Video Recorder

- H.265+/H.265 dual-stream video compression
- Supports 16-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 16 channels video stream (analog channel) SMD Plus

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, XVR4000-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

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.

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.

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%.

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.

Technical Specification

System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

SMD Plus

SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change

Audio and Video

Analog Camera Input	32 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect
Camera Input	HDCVI 1080P@ 25/30 fps, 720P@ 25/30 fps AHD 1080P@ 25/30 fps, 720P@ 25/30 fps TVI 1080P@ 25/30 fps, 720P@ 25/30 fps
IP Camera Input	Up to 32 channels of IPC access 32 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps
Encoding Capacity	Main Stream: the 1st channel 1080N/720P (1 fps–25/30 fps), others 1080N/720P (1 fps–15 fps); 960H/D1/CIF (1 fps–25/30 fps) Sub steram: CIF(1 fps–7 fps)
Dual-stream	Yes
Video Bit Rate	32 kbps–6144 kbps per channel
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA, 1 TV VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 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

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	iOS, Android
Interoperability	ONVIF 16.12, CGI
Browser	Chrome, IE9 or above, Firefox
Network Mode	Single-address mode

Recording Playback

Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9/16
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback

Storage

Disk Group	Yes

Alarm

General Alarm	Motion detection, video loss, tampering
Anomaly Alarm	No disk, storage error, low space, offline, IP conflict, MAC conflict
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, RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	2 SATA ports, up to 16 TB, the maximum HDD capacity varies with environment temperature
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

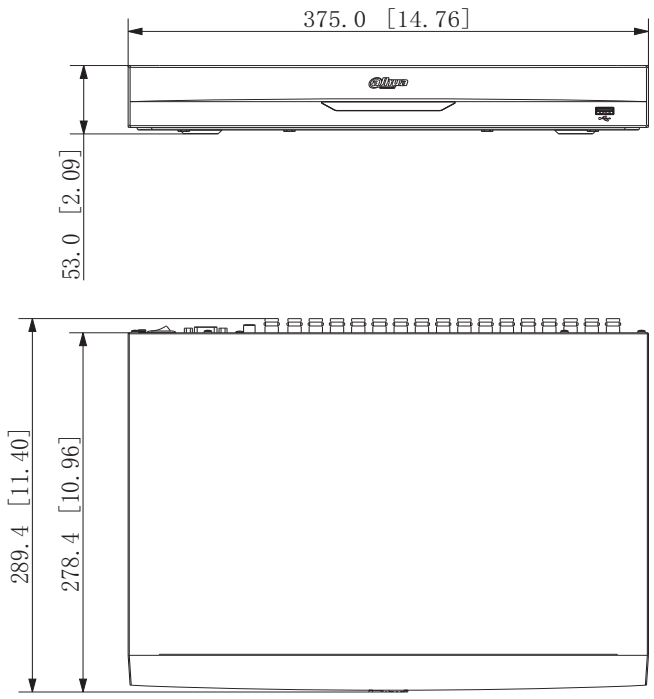
General

Power Supply	12 VDC, 4 A
Power Consumption	Lower than 12 W
Net Weight	1.92 kg (4.23 lb)
Gross Weight	3.09 kg (6.81 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

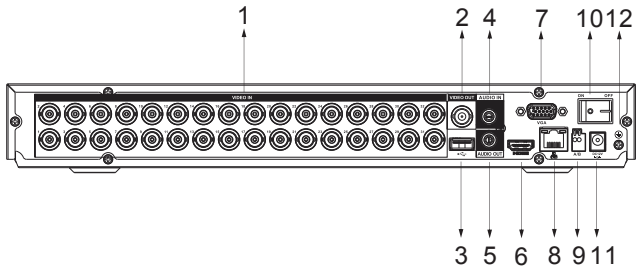
Ordering Information

Type	Model	Description
32 Channels WizSense XVR	DH-XVR4232AN-I	1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])



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