WizSense | DH-XVR5232AN-I3

dahua TECHNOLOGY

DH-XVR5232AN-I3

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

Launched by Dahua Technology, WizSense is a series of AI products and solutions which adopt independent AI chip and deep learning algorithm. I know focuses on humans and vehicles with high precision, allowing users to act quickly on defined objectives. Based on Dahua's advanced technologies, WizSense offers smart, simple and inclusive products and solutions.

series overview

Dahua Technology, a Smart IoT Solution and Service Provider the world's leading video-focused company, introduced its new XVR series, the XVR5000-I3 with SMD Plus full channel max. to benefit customers AI update (the number of channels differs depending on the See 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 providing great value to customers who seek products with accurate human/vehicle alarms 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 those in the database of faces to recognize the identity of the person.

perimeter protection

Automatically filters false alarms caused by animals, rustling leaves, lights shiny etc. Allows the system to act as secondary target reconnaissance. Improves the accuracy of the alarm.

AI search

With AI search, operators can search for videos by the attributes of the targets and types of events, helping them to investigate quickly and efficiently where and when targets appeared and events occurred.

- H.265+/H.265 dual stream video compression
- Support full channel AI encoding
- Support HDCVI/AHD/TVI/CVBS/IP video input
- Max 32 channels of IP camera inputs, each channel up to 6MP; Bandwidth 128 Mbps maximum incoming
- Video transmission of up to 2 channels (analog channel) Perimeter protection
- Video transmission up to 16 channels (analog channel) SMD Plus
- Video transmission of up to 2 channels (analog channel) face recognition human
- IoT and POS functionalities
- The output of simultaneous/heterogeneous video sources for VGA and HDMI is configurable.

| Face Recognition | Perimeter Protection | SMD Plus | AI Coding | Smart Code (H.265) | Audio over Coax | 1200m Long-distance Transmission |

AI Coding

Compared with H.265/H.264, AI encoding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing details clear on people and vehicles.

more SMD

With an intelligent algorithm, the intelligent motion detection technology of Dahua can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by unaffected targets to generate an effective and accurate alarm.

HDCVI/AHD/TVI/CVBS auto detection

The XVR can automatically recognize the signal from the front camera without any adjustment. It makes the operation more friendly and convenient.

Coaxial Audio/Update/Alarm

Integrated design can reduce wiring troubles, which makes it much more cost-effective and convenient for installation.

long distance transmission

HDCVI system supports long-distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

Smart H.265+

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

Technical specification

System

main processor	Industrial grade processor
OS	Embedded Linux

perimeter protection

AI Edge Performance per Recorder (Number of Channels)	2 channels, 10 IVS for each channel

face detection

face attributes	Gender, age groups, glasses, expressions, mask, beard
face detection AI Performance by Registrar (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. You can add name, gender, birthday, address, type of certificate, certificate number, countries and regions and state to each image of face
face recognition AI Performance by Registrar (Number of channels)	2 channels

more SMD

SMD Plus per recorder	16 channels: Smart motion detection alarm for human and vehicle to filter out false alarms such as leaves and light

Audio and video

Analog camera input	32 channel BNC: default adaptive access; HDCVI, AHD, TVI and CVBS access can be configured
camera input	1.CVI: 5MP, 4MP, 1080p@25/30fps; 720p at 50/60fps; 720p@25 /30fps. 2. TVI: 5MP, 4MP, 3MP, 1080p@25 /30fps; 720p@25 / 30fps. 3. AHD: 5MP, 4MP, 3MP, 1080p@25 /30fps, 720p@25 /30fps
IP camera input	32 channels, each channel up to 6 MP
encoding capacity	All channels 5M-N@ (1fps–10fps); 4M-N; 1080p@ (1fps–15fps); 1080N; 720p; 960H; D1; CIF@ (1fps–25/30fps)
double flow	Yes
video frame rate	PAL: 1fps–25fps. NTSC: 1fps–30fps
video bit rate	32kbps–6144kbps per channel
audio sampling	8 kHz, 16 bits per channel
Audio bit rate	64kbps per channel
Bit rate type	Video streaming and composite streaming
Video output	1HDMI, 1VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
multiscreen display	1/4/8/9/16/25/36

Access to third-party cameras	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; PDU; SMTP; PNT; DHCP; DNS; DDNS; P2P
mobile phone access	iPhone, iPad, Android
interoperability	ONVIF 16.12, CGI Compliant
Browser	Chrome, IE9 or later, Firefox
network mode	single address mode

recording playback

recording 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, tags, smart playback (face and motion detection)

Storage

disk group	Yes

Alarm

general alarm	Motion detection, video loss, tampering
abnormality alarm	No disk, storage error, low space, offline, IP conflict, mac conflict
Smart alarm	Face detection, face recognition, perimeter protection
alarm link	Recording, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email

ports

tv outlet	1 channel
audio input	1 RCA channel (external) 32 BNC channels (coaxial audio)
Audio output	1 channel RCA
two-way talk	Yes (shares the same audio input with the first channel)
hard drive interface	2 SATA ports, up to 16TB for a single hard drive, maximum hard drive capacity varies with ambient 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	12V DC, 5A

power consumption	Less than 17W
Net weight	1.98kg (4.36lbs)
Gross weight	3.15kg (6.94lbs)
product dimensions	1U, 375.0mm × 289.0mm × 53.0mm (14.76" × 11.38" × 2.09") (W × D × H)
Packaging dimensions	433.0mm × 141.0mm × 366.0mm (17.05" × 5.55" × 14.41") (width × depth × height)
Operating temperature	– 10 °C to +55 °C (+14 °F to +131 °F)
Operating humidity	0%–90% (RH)
Installation	Desk
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
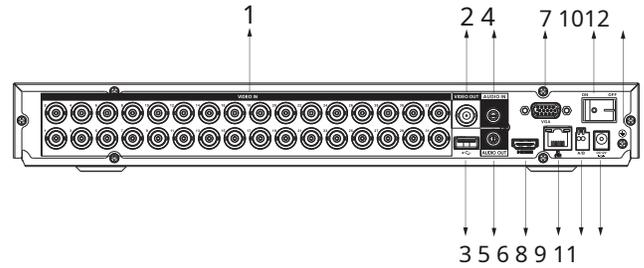
1	video input	two	Video output
3	USB port	4	audio in
5	Audio output	6	HDMI port
7	VGA port	8	network port
9	RS-485 port	10	power switch
11	12V DC power input	12	earth

Order Information

Writes	Model	Description
32 channels WizSenseXVR	DH-XVR5232AN-I3	1U DIGITAL VIDEO RECORDER

Dimensions (mm [inches])