

KX-DAi8232H3

32CH Penta-brid 5MP Value/1080P 1U 2HDDs Digital Video Recorder



* *The information below only applies to hardware version 2.0. of the product.*

- 32-channel SMD Plus for analog channels or 48-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 8-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 16-channel AI Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 48-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 192 Mbps.
- Smart H.265+ and H.265 dual-stream video compression.
- IoT and POS capabilities.



Technical Specification

System

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

Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 8 channels, 10 IVS rules for each channel
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Face Detection

Face Attributes	6 attributes
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)

Face Recognition

Face Database Capacity	Up to 10 face databases with 10,000 images.
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels

SMD Plus

SMD Plus by Recorder	32 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	48 channels

AI Video Quality Analytics

AI Video Quality Analytics by Recorder	32 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white
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Scene Changing

Scene Changing by Recorder	1 channel
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Irregular Black Block Masking

Irregular Black Block Masking by Recorder	1 channel
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Audio and Video

Analog Camera Input	32 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.

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IP Camera Input	Up to 48 channels of IPC access 16 IP channels by default +32 channels (analog channels are converted to IP channels) incoming bandwidth: 192 Mbps, recording bandwidth: 192 Mbps and outgoing bandwidth: 192 Mbps
	*After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection cannot be used.
Encoding Capacity	Main stream: 5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); others 5M-N@(1 fps-12 fps) 5M-N Mode: 5M-N@(1 fps-12 fps); 4M-N/1080p@(1 fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps)
Dual-stream	Yes
Video Bit Rate	32 kbps-6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA, 1 TV HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Multi-screen Display	Main Screen: 1/4/8/9/16/25/36 Sub Screen: 1/4/8/9/16 The sub screen display conflicts with IP extension function.
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF

Compression Standard

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

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE; Safari; Edge; Firefox

Recording Playback

Record Mode	General; alarm; motion detection; intelligent; 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
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Storage

Disk Group	Yes
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Alarm

General Alarm	Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email

Ports

TV Output	1 channel
Audio Input	1-channel RCA 32-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
Disk Interface	2 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the 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, 5 A
Power Consumption	<16 W (without HDD)
Net Weight	1.90 kg (4.20 lb)
Gross Weight	3.20 kg (7.00 lb)
Product Dimensions	375.0 mm × 289.6 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H)
Packaging Dimensions	427.0 mm × 137.0 mm × 356.0 mm (16.81" × 5.39" × 14.02") (W × D × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%-90% (RH), non-condensing
Installation	Desktop

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Dimensions (mm[inch])

