

KX-DAi4K8208EN3

8 Channels 1U 8PoE 2HDD Network Video Recorder

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- 32-channel 1080p self-adaptive decoding capability.
- Max. 384 Mbps incoming/recording/outgoing bandwidth.
- AI by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- AI by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- Security baseline 2.3.



| System | |
|---|---|
| Main Processor | Industrial-grade processor |
| Operating System | Embedded Linux |
| Operating Interface | Web, Local GUI |
| AI | |
| AI by Recorder | Face detection; face recognition; perimeter protection; SMD Plus |
| AI by Camera | Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map |
| Perimeter Protection | |
| Perimeter Performance of AI by Recorder (Number of Channels) | 4 channels, 10 IVS rules for each channel |
| Perimeter Performance of AI by Camera (Number of Channels) | 8 channels |
| Face Detection | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard |
| Face Detection Performance of AI by Recorder (Number of Channels) | 2 channels (up to 12 face images/s each channel) |
| Face Detection Performance of AI by Camera (Number of Channels) | 8 channels |
| Face Recognition | |
| Face Database Capacity | Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image. |

| Face Recognition Performance of AI by Recorder (Number of Channels) | 1. 8-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s |
|---|--|
| Face Recognition Performance of AI by Camera (Number of Channels) | 8 channels |
| SMD Plus | |
| SMD Plus by Recorder | 8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change |
| SMD Plus by Camera | 8 channels |
| Video Metadata | |
| Metadata Performance of AI by Camera (Number of Channels) | 8 channels |
| Human Attributes | Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella |
| Motor Vehicle Attributes | License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location. |
| Non-motor Vehicle Attributes | Vehicle model, vehicle color, number of persons, helmet. |
| Vehicle License Plate Comparison | |
| ANPR by Camera (Number of Channels) | 8 channels |
| License Plate Database Capacity | 1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist |
| Audio and Video | |
| Access Channel | 8 |
| Network Bandwidth | AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing |

KX-DAi4K8208EN3

8 Channels 1U 8PoE 2HDD Network Video Recorder

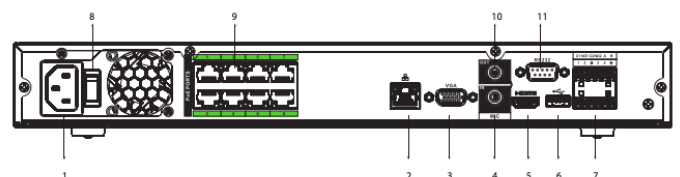
Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

| | |
|-----------------------------|--|
| Resolution | 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF |
| Decoding Capability | AI disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps AI enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps |
| Video Output | 1-channel VGA, 1-channel HDMI video output. Heterogeneous video source output for HDMI and VGA Supports 4K display |
| Multi-screen Display | Main screen: 1/4/8/9 Sub screen: 1/4/8/9 |
| Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung |
| Compression Standard | |
| Video Compression | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG |
| Audio Compression | G.711a; G.711u; PCM; G726 |
| Network | |
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports KBVISION IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration |
| Mobile Phone Access | iOS; Android |
| Interoperability | ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK |
| Browser | Chrome IE 9 or later Firefox |
| Recording Playback | |
| Multi-channel Playback | Up to 8 channels |
| Record Mode | General, motion detection; intelligent; alarm; POS |
| 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 |
| Alarm | |
| General Alarm | Motion detection; privacy masking; local alarm |
| Anomaly Alarm | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception |
| Intelligent Alarm | Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map |
| Alarm Linkage | Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email |

| | |
|---------------|--|
| Port | |
| Audio Input | 1-channel RCA |
| Audio Output | 1-channel RCA |
| Alarm Input | 4 channels |
| Alarm Output | 2 channels |
| HDD Interface | 2 SATA ports, up to 20 TB. The maximum HDD capacity varies with environment temperature. |
| RS-232 | 1 |
| 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) |
| PoE Port | 8 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE |

| | |
|-----------------------|--|
| General | |
| Power Supply | 100–240 VAC, 47-63 Hz |
| Power Consumption | Total output of NVR is ≤ 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5W |
| Net Weight | 2.57 kg (5.67 lb) |
| Gross Weight | 3.8 kg (8.38 lb) |
| Product Dimensions | 375.0 mm × 329.4 mm × 53.0mm (14.76" × 12.97" × 2.09") (W × D × H) |
| Packaging Dimensions | 451.0 mm × 147.0 mm × 425.0 mm (17.76" × 5.79" × 16.73") (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%–93% (RH) |
| Installation | Rack or desktop |

Panels



- 1 Power Input
- 2 Network Port
- 3 VGA Port
- 4 MIC IN, RCA Connector
- 5 HDMI Port
- 6 USB Port
- 7 Alarm In/Out
- 8 Power Switch
- 9 PoE Ports
- 10 MIC OUT, RCA Connector
- 11 RS-232 Port