

# KX-DAi4K8832EN3

## 32 Channels 2U 8HDD Network Video Recorder

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- 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.
- Support Raid0/1/5/6/10.
- 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 AI by Recorder (Number of Channels)           | 4 channels, 10 IVS rules for each channel   |
| Perimeter Performance of AI by Camera (Number of Channels)          | 16 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)     | 16 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. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s   |

|   | 2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s   |
|---|---|
| Face Recognition Performance of AI by Camera (Number of Channels) | 16 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  | 16 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.<br>2. Blocklist and allowlist   |
| Audio and Video   |   |
| Access Channel  | 32  |
| Network Bandwidth   | AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing<br>AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing |
| Resolution  | 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF  |
| Decoding Capability   | AI disabled:  |

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|                             |  |
|-----------------------------|--|
|                             | 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; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps<br>AI enabled:<br>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; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps |
| Video Output                | 2-channel VGA, 2-channel HDMI video output. Heterogeneous video source output for HDMI1 and HDMI2<br>Simultaneous video source output for VGA1 and HDMI1<br>Simultaneous video source output for VGA2 and HDMI2<br>Supports 4K display   |
| Multi-screen Display        | Main screen: 1/4/8/9/16/25/36<br>Sub screen: 1/4/8/9/16  |
| Third-party Camera Access   | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung   |
| <b>Compression Standard</b> |  |
| Video Compression           | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  |
| Audio Compression           | G.711a; G.711u; PCM; G726  |
| <b>Network</b>              |  |
| 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<br>IE 9 or later<br>Firefox   |
| Network Mode                | Multi-address mode, load balance, fault tolerance and other network port binding modes   |
| <b>Recording Playback</b>   |  |
| Multi-channel Playback      | Up to 16 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)   |
| <b>Storage</b>              |  |
| Disk Group                  | Yes  |
| RAID                        | RAID 0/1/5/6/10  |

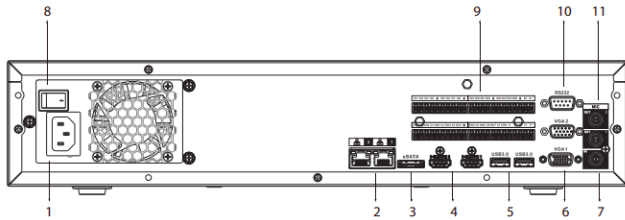
|                       |   |
|-----------------------|---|
| <b>Alarm</b>          |   |
| General Alarm         | Motion detection; privacy masking; local alarm  |
| Anomaly Alarm         | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity 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   |
| <b>Port</b>           |   |
| Audio Input           | 1-channel RCA   |
| Audio Output          | 2-channel RCA   |
| Alarm Input           | 16 channels   |
| Alarm Output          | 8 channels (1-channel 12 V 1 A output)  |
| HDD Interface         | 8 SATA ports, up to 20 TB. The maximum HDD capacity varies with environment temperature.  |
| eSATA                 | 1   |
| RS-232                | 1   |
| RS-485                | 2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)  |
| USB                   | 4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)   |
| HDMI                  | 2   |
| VGA                   | 2   |
| Network Port          | 2(10/100/1000 Mbps Ethernet port, RJ-45)  |
| <b>General</b>        |   |
| Power Supply          | 100–240 VAC, 50-60 Hz   |
| Power Consumption     | Total output of NVR is ≤ 13 W (without HDD)   |
| Net Weight            | 6.4 kg (14.11 lb)   |
| Gross Weight          | 9.01 kg (19.86 lb)  |
| Product Dimensions    | 439.9 mm × 457.9 mm × 89.0 mm (17.32" × 18.03" × 3.50") (W × D × H)   |
| Packaging Dimensions  | 570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (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   |

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#### Panels



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