

KX-DAi4K8816EN3

16 Channels 2U 8HDDs 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.
- · Max. decoding capability: 32×1080 p@30 fps or 16×4 MP@30 fps.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · Support AcuPick with Max. 16-Channel.
- · Support N+M cluster.
- · Support Raid0/1/5/6/10.
- \cdot Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- \cdot Al 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 | |
| Al | | |
| Al by Recorder | Face detection; face recognition; perimeter protection; SMD Plus | |
| Al 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 | |
| AcuPick AI by Camera + Recorder | Max. 16-channel, 1 combined event per channel/s | |
| 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 | |
| Chamileis) | | |

| 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 | Create up to 20,000 plate numbers. Blocklist and allowlist | |



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| Audio and Video | | |
|---------------------------|--|--|
| Access Channel | 16 | |
| Network Bandwidth | Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al 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 | Al 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; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps Al 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; 12-channel 4 MP@30 fps | |
| Video Output | 2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 | |
| Multi-screen Display | Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16 | |
| 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; 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; iSCSI | |
| Mobile Phone Access | iOS; Android | |
| Interoperability | ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK | |
| Browser | Chrome;IE;Safari;Edge;Firefox | |
| Network Mode | Multi-address mode, load balance, fault tolerance and other network port binding modes | |
| Recording Playback | | |
| 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) | |

| Storage | | |
|-----------------------|---|--|
| Disk Group | Yes | |
| RAID | RAID 0/1/5/6/10 | |
| 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 | 2-channel RCA | |
| Alarm Input | 16 channels | |
| Alarm Output | 8 channels (1-channel 12 V 1 A output) | |
| HDD Interface | 8 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the 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) | |
| General | | |
| Power Supply | 100–240 VAC, 50-60 Hz | |
| Power Consumption | Total output of NVR is \leq 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 x 89.0 mm (17.32" × 18.03" × 3.50") (W ×D × H) | |
| Packaging Dimensions | 570.0 mm \times 570.0 mm \times 226.0 mm (22.44" \times 22.44" \times 8.90") (W \times D \times 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 | |