

## 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.
- $\cdot$  Max. decoding capability: 32 × 1080p@30 fps or 16 × 4MP@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 Al 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 Al 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 16 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 $\times$ 457.9 mm $\times$ 89.0 mm (17.32" $\times$ 18.03" $\times$ 3.50") (W $\times$ D $\times$ 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