KX-DAi8816H3

16 Channels Penta-brid 5M-N/1080P 2U 8HDDs DVR

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

· H.265+/H.265 dual-stream video compression.
· Supports 16-channel AI-Coding.
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
· Max 24 channels IP camera inputs, each channel up to 6MP; Max 128 Mbps incoming bandwidth.
· Up to 4 channels video stream (analog channel) Perimeter Protection.
· Up to 16 channels video stream (analog channel) SMD Plus.
· Up to 2 channels video stream (analog channel) human face recognition.
· IoT & POS functionalities.

System	
Main Processor	Embedded Processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

Perimeter Protection	
Perimeter Performance of AI by Camera (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel

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)

Face Recognition	
Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face image
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels

SMD Plus	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change

Audio and Video	
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect

Camera Input	1. CVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps, 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.
Encoding Capacity	Main stream: All channel 5M-N@(1 fps–10 fps); 4M-N@ (1 fps–15 fps); 1080p@(1 fps–15 fps); 1080N@(1 fps–25/30 fps); 720p@(1 fps–25/30 fps); 960H@(1 fps–25/30 fps); D1@(1 fps–25/30 fps); CIF@(1 fps–25/30 fps) Sub stream: D1@(1 fps–15 fps); CIF@(1 fps–15 fps)
Dual-stream	Yes
Video Frame Rate	PAL: 1 fps–25 fps NTSC: 1 fps–30 fps
Video Bit Rate	32 kbps–6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is configurable.
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung

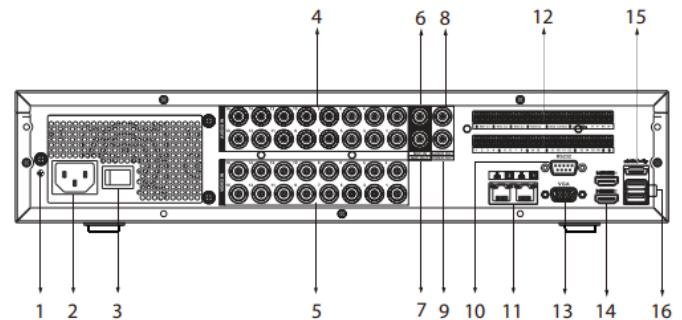| Compression Standard	
Video Compression	AI Coding; H.265+; H.265; H.264+; H.264

KBVISION

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Audio Compression	G.711a; G.711u; PCM
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 21.06; CGI
Browser	Chrome, IE9 or later, Firefox
Network Mode	Multi-address mode,Fault Tolerance,Load Balance
Recording Playback	
Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode
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; video loss; tampering; local alarm
Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict
Intelligent Alarm	Face detection; face recognition; perimeter protection
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email
Ports	
TV Output	Yes
Audio Input	16-channel BNC (external) 16-channel BNC (coaxial audio)
Audio Output	1-channel BNC
Two-way Talk	1-channel BNC
Alarm Input	16 channels
Alarm Output	6 channels
HDD Interface	8 SATA ports,up to 16TB, the maximum HDD capacity varies with environment temperature
eSATA	1
RS-232	1 port, for PC Communication & Keyboard
RS-485	1 port, for PTZ control

USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	2
VGA	1
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	100–240 VAC, 50±2% Hz
Power Consumption	<15 W (without HDD)
Net Weight	6.72 kg (14.81 lb)
Gross Weight	9.32 kg (20.55 lb)
Product Dimensions	2U, 439.9 mm × 463 mm × 94.9 mm (17.32" × 18.23" × 3.73") (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)
Operating Humidity	10%–90% (RH)
Installation	Rack or desktop
Panels	

1	Ground	2	Power Input
3	Power Switch	4	AUDIO IN
5	VIDEO IN	6	MIC IN
7	MIC OUT	8	AUDIO OUT
9	VIDEO OUT	10	RS-232 Port
11	Network Ports	12	Alarm In/Out
13	VGA Port	14	HDMI Ports
15	eSATA Port	16	USB Ports