KBVISION

KX-DAi8816H2

16 Channel Penta-brid 5M-N/1080P 2U 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 HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 24 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
· Up to 2 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
Perimeter Protection	
Performance	2 channels, max 12 face pictures/sec processing
AI Search	Search by target classification (Human, Vehicle)
Face Recognition	
Performance	Max 12 face pictures/sec processing
	2 channels video stream face recognition, only support analog camera
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Management	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face picture.
Database Application	Each database can be applied to video channels independently.
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
SMD Plus	
Performance	16 channels
AI Search	Search by target classification (Human, Vehicle)
Video and Audio	
Analog Camera Input	16 channels, BNC
HDCVI Camera Input	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps
TVI Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps
CVBS Camera Input	PAL/NTSC

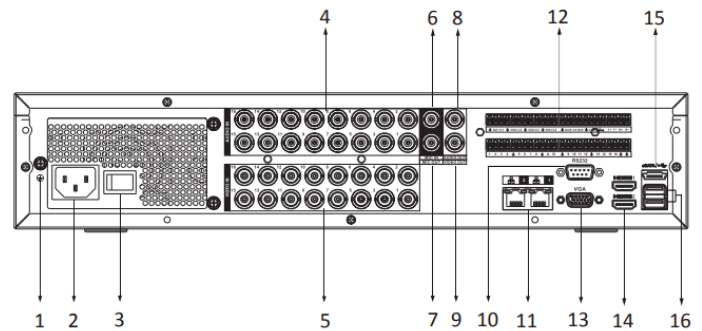| IP Camera Input	16+8 channels, each channel up to 8MP
Audio In/Out	16/1, BNC
Two-way Talk	1 Mic In, 1 Mic Out, BNC
Recording	
Compression	AI Coding/H.265+/H.265/H.264+/H.264
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF
Record Rate	Main stream: All channel 5M-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/D1/CIF (1fps–25/30fps) Sub stream: D1/CIF (1fps–15fps)
Bit Rate	32 Kbps–6144 Kbps Per Channel
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s
Audio Compression	G.711A, G.711U, PCM
Audio Sample Rate	8 KHz, 16 bit Per Channel
Audio Bit Rate	64 Kbps Per Channel
Display	
Interface	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.
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
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Network	
Interface	2 RJ-45 Port (1000 Mbps)

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Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports KBVISION IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant
Video Detection and Alarm	
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Alarm input	16
Relay Output	6
Playback and Backup	
Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network
Storage	
Internal HDD	8 SATA Ports, up to 10TB capacity for each disk
eSATA	1 Port
Auxiliary Interface	
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS485	1 Port, for PTZ Control
RS232	1 Port, for PC communication & Keyboard
Electrical	
Power Supply	AC100V-240V, 50/60Hz
Power Consumption (Without HDD)	<15W

Construction	
Dimensions	2U, 440 mm × 463 mm × 95 mm (17.32'' × 18.23'' × 3.73'')
Net Weight (without HDD)	6.7 kg (14.7 lb)
Gross Weight	9.3 kg (20.4 lb)
Installation	Desktop/racket mounted
Environmental	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH
Third-party Support	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
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 Input/Output
13	VGA Port	14	HDMI Ports
15	eSATA Port	16	USB Ports