# KX-DAi8416H2

## 16 Channel Penta-brid 5M-N/1080P 1U 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

| Face Recognition | Perimeter Protection | SMD Plus | AI Coding |
| H.265 | 4K HDMI | Coax Audio | 1200m Long Distance |

| System | |
| --- | --- |
| Main Processor | Embedded Processor |
| Operating System | Embedded LINUX |

| Perimeter Protection | |
| --- | --- |
| Performance | 2 channels, 10 IVS for each channel |
| Object classification | Human/Vehicle secondary recognition for tripwire and intrusion |
| AI Search | Search by target classification (Human, Vehicle) |

| Face Recognition | |
| --- | --- |
| Performance | 2 channels, max 12 face pictures/sec processing |
| 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 | 4/1, 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)<br>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<br>HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720<br>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<br>When IP extension mode enabled: 1/4/8/9/16/25 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

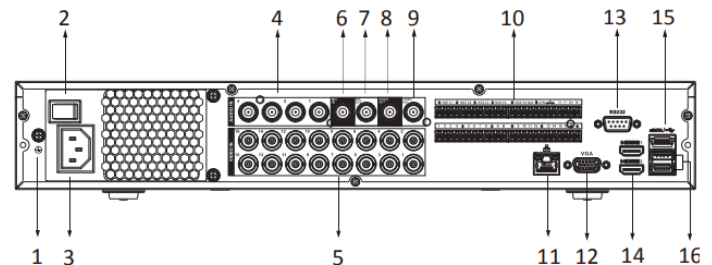| Network | |
| --- | --- |
| Interface | 1 RJ-45 Port (1000 Mbps) |

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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**

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|---|---|
| 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<br>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**

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|---|---|
| Internal HDD | 4 SATA Ports, up to 10TB capacity for each disk |
| eSATA | 1 Port |

**Auxiliary Interface**

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|---|---|
| USB | 3 USB Ports (1 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**

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|---|---|
| Dimensions | 1.5U, 440 mm × 421 mm × 76 mm (17.32'' × 16.54'' × 2.99'') |
| Net Weight (without HDD) | 4.6 kg (10.2 lb) |
| Gross Weight | 6.9 kg (15.1 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 Switch |
| 3 | Power Input | 4 | Audio In |
| 5 | Video In | 6 | Mic In |
| 7 | Mic Out | 8 | Audio Out |
| 9 | Video Out | 10 | Alarm Input/Output |
| 11 | Network Port | 12 | VGA Port |
| 13 | RS-232 Port | 14 | HDMI Port |
| 15 | eSATA Port | 16 | USB Ports |