

DH-XVR8208A-4KL-I

8 Channel Penta-brid 4K 1U Digital Video Recorder



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

The complete lineup of Dahua AI series includes network (PTZ) cameras, network video recorders, digital video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Dahua new XVR8000-4KL/4K-I series XVR delivers excellent performance and high recording quality that is ideally applicable to a wide range of industries ranging from retail to banking and real estate. Holding Dahua Technology's patented HDCVI signature technology, these new AI XVR products are featured with long distance transmission, seamless upgrading, and IoT into analog monitoring—all while maintaining perfect 4K resolution over coax.

With build-in deep learning module, XVR8000-4KL/4K-I series products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition, perimeter protection, and metadata.. By applying deep learning artificial intelligence, XVR8000-4KL/4K-I allows users to focus on what matters most, improves event response time and helps make video actionable.

With its extensive portfolio of front-end and back-end products with HDCVI technology, Dahua solutions can be easily integrated into self-contained systems to satisfy the needs of both system integrators and users.

Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 16 channels of IPC access, each channel up to 12MP input; Max 128 Mbps incoming bandwidth
- HDMI1 4K@60 fps output
- Supports AI by camera function
- · Up to 4 channel perimeter protection
- Up to 2 channel video stream human face recognition
- Up to 2 channel metadata
- · Up to 24 face pictures/sec processing
- Up to 10 face databases with 20,000 face images in total



Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

Common/Stranger Mode

Supports regular and stranger mode. In stranger mode, when XVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

Metadata

Supports human body properties analytics, motor vehicle properties analytics, non-motor vehicle properties analytics, suitable to quickly find the corresponding target. The human body properties support top, top color, bottom, bottom color, hat, bag, gender, age, and umbrella. The motor vehicle properties support plate No., vehicle color, type, logo, plate color, ornament, calling, and seatbelt. The non-motor vehicle properties support type, vehicle color, people number, and helmet.

Smart Search

Supports seach by metadata of human face, human body, motor vehicle, and non-motor vehicle. Support uploading face pictures to XVR and compare them with recorded faces in XVR by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.



Al Series | DH-XVR8208A-4KL-I

| Technical Specification | | Bit Rate | 32 Kbps–6144 Kbps Per Channel |
|------------------------------|--|----------------------|--|
| System | | | · Manual, Schedule (General, Continuous), MD (Video |
| Main Processor | Embedded Processor | Record Mode | detection: Motion Detection, Video Loss, Tampering), Alarm, Stop |
| Operating System | Embedded LINUX | Record Interval | 1 min–60 min (default: 60 min), Pre-record: 1 sec–30 sec, Post-record: 10 sec–300 sec |
| Perimeter Protection | | Display | |
| Performance | 4 channel, 10 IVS rules for each channel | Interface | 2 HDMI, 1 VGA |
| Object classification | Human/Vehicle secondary recognition for tripwire and intrusion | | HDMI 1: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × |
| AI Search | Search by target classification (Human, Vehicle) | Resolution | 1024, 1280 × 720 HDMI2/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 |
| Face Recognition | | Multi-screen Display | When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16 |
| | Max 24 face pictures/sec processing (modeling and comparing) | OSD | Camera title, Time, Video loss, Camera lock, Motion |
| Performance | 2 channel video stream face recognition | | detection, Recording |
| | Up to 8 channel picture stream human face recognition | Network | |
| Stranger Mode | Detect strangers' faces (not in device's face database).Similarity threshold can be set manually | Interface | 2 RJ-45 Ports (1000 M) |
| Al Search | Up to 8 target face images search at same time, similarity threshold can be set for each target face image | 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 Dahua IP camera, DVR, NVS, etc.) |
| Database Management | Up to 10 face databases with 20000 face images in total. Name, gender, birthday, nationality, address, ID information can be | Max. User Access | 128 users |
| - | added to each face picture | Smart Phone | iPhone, iPad, Android |
| Database Application | Each database can be applied to video channels independently | Interoperability | ONVIF 16.12, CGI Conformant |
| Trigger Events | Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc | Video Detection ar | nd Alarm |
| Metadata | | Trigger Events | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Face | Gender, age, glasses, beard, mask | Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss, |
| Human body | top, top color, bottom, bottom color, hat, bag, gender, age, and umbrella | Alarm input | Tampering and Diagnosis |
| Motor vehicle | Plate No., vehicle color, type, logo, plate color, ornament, | Relay Output | 3 |
| Non-motor Vehicle | calling, and seatbelt type, vehicle color, people number, and helmet | Playback and Back | up |
| | | Playback | 1/4/9 |
| AI Search Video and Audio | Support search target video by metadata | Search Mode | Time/Date, Alarm, MD and Exact Search (accurate to |
| Analog Camera Input | 8 Channel, BNC | Scaren Wode | second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, |
| HDCVI Camera | 4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps | Playback Function | Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom |
| AHD Camera | 5MP, 4MP, 3MP, 1080P@25/30 fps, 720P@25/30 fps | Backup Mode | USB Device/Network |
| TVI Camera | 5MP, 4MP, 3MP, 1080P@25/30 fps, 720P@25/30 fps | Storage | |
| CVBS Camera | PAL/NTSC | Internal HDD | 2 SATA Ports, up to 10 TB capacity for each disk |
| IP Camera Input | 16 Channel, each channel up to 12MP | eSATA | N/A |
| Audio In/Out | 4/1, RCA | Auxiliary Interface | |
| Two-way Talk | Mic in & reuse Audio out for Mic out, RCA | USB | 3 USB Ports (1 USB 2.0 , 2 USB 3.0) |
| Recording | | RS232 | 1 port, For PC communication & Keyboard |
| Compression | H.265+, H.265, H.264+, H.264 | RS485 | 1 Port, for PTZ Control |
| Resolution | 4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF | Electrical | |
| Record Rate | Main stream: 4K (1 fps–7 fps); 6MP (1 fps–10 fps); 5MP(1 fps–12 fps); 4MP/3MP (1 fps–15 fps); 4M-N/1080P/720P/960H/D1/CIF/ QCIF (1 fps–25/30 fps) Sub steram:960H (1 fps–15 fps); D1/CIF/QCIF (1 fps–25/30 fps) | Power Supply | DC 12V/4A |
| | | Power Consumption | <20W (Without HDD) |

Al Series | DH-XVR8208A-4KL-I

Construction

| Dimensions | 1U, 375 mm × 328 mm × 50 mm (14.8" × 12.9" × 2.0") | | | |
|----------------------|---|--|--|--|
| Net Weight | 2.35 kg (5.2 lb) (Without HDD) | | | |
| Gross Weight | 3.2 kg (7.05 lb) | | | |
| Installation | Desktop installation | | | |
| Environmental | | | | |
| Operating Conditions | -10°C to +55°C (+14°F to +131°F), 0%RH–90%RH | | | |
| Storage Conditions | -20°C to +70°C (-4°F to +158°F) , 0%RH–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 | | | |
| Certifications | | | | |
| | FCC: Part 15 Subpart B | | | |
| Certifications | CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 | | | |
| | | | | |

Installation on Rack Mount Tray



Rear Panel

DH-XVR8208A-4KL-I

| Ordering Information | | | | |
|----------------------|-------------------|--|--|--|
| Туре | Part Number | Description | | |
| 8 Channel XVR | DH-XVR8208A-4KL-I | 8 Channel Penta-brid 4K 1U Digital Video Recorder | | |

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- AUDIO IN, RCA Connector 2
- AUDIO OUT, RCA Connector 3
- 4 MIC IN Interface

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- VGA Interface
- Network Interface 6
- 7 HDMI Interface
- USB Interface 8
- RS232 Interface 9
- 10 ALARM IN/OUT; RS485;
- 11 Power Input
- Power Switch 12



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Dimensions (mm)

