DH-XVR7104/08E-4KL-X
4/8 Channel Penta-brid 4K Elegant Digital Video Recorder

System Overview
With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, HDCVI H.265+/H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K. Designed as a collection of intelligent encoding algorithm based on H.265, H.265+ significantly improves encoding efficiency and save bandwidth/storage cost, which fully meet the needs of users facing budget constraints who both require quality and performance.

Besides smart codec, the series supports various advanced functions like IoT and POS functionalities, making the whole system smarter and more convenient which is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required.

Functions

Smart H.265+
Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect
The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

8MP Resolution
The XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and IP camera input.

Coaxial Audio/Upgrade/Alarm
The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Long Distance Transmission
The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

· H.265+/H.265 dual-stream video compression
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs
· Supports 8/16 channels of IPC access, each channel up to 8MP input; Max 32/64Mbps Incoming Bandwidth
· IoT & POS functionalities
· Smart Search and Intelligent Video System

IoT Functionality
HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

POS Functionality
This function includes POS ticket information overlay and search which can be widely used in retail programs.

Smart Fan Design
The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

Spot Output
It is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

Intelligent Video System (IVS)
With built-in intelligent video analytics, the XVR has the ability to detect and analyze moving objects for improved video surveillance. The XVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Face Detection
It is a typical technology being used in a variety of applications for searching or identification of individuals.

Smart Search
This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

www.dahuasecurity.com
### Technical Specification

#### System
- **Main Processor**: Embedded Processor
- **Operating System**: Embedded LINUX

#### Video and Audio
- **Analog Camera Input**: 4/8 Channel, BNC
- **HDCVI Camera**: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
- **AHD Camera**: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
- **TVI Camera**: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
- **CVBS Camera**: PAL/NTSC
- **IP Camera Input**: 4+4/8+8 Channel, each channel up to 8MP
- **Audio In/Out**: 1/1, RCA
- **Two-way Talk**: Reuse audio in/out, RCA

#### Recording
- **Compression**: H.265+/H.265/H.264+/H.264
- **Resolution**: 4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
- **Record Rate**
  - **Main stream**: 4CH: 4K(1~15fps); 6MP/5MP(1~20fps); 4MP/3MP/1080P/720P/960H/D1/CIF/1~25/30fps
  - **8CH**: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF
    -(1~25/30fps)
  - **Sub stream**: 960H(1~15fps); D1/CIF(1~25/30fps)
- **Bit Rate**: 32Kbps ~ 8192Kbps 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 ~ 30 sec, Post-record: 10 ~ 300 sec
- **Audio Compression**: AAC (only for the 1st channel), G.711A, G.711U, PCM
- **Audio Sample Rate**: 8KHz, 16 bit Per Channel
- **Audio Bit Rate**: 64Kbps Per Channel

#### Display
- **Interface**: 1 HDMI, 1 VGA
- **Resolution**: HDMI: 3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720
  - VGA: 1920×1080, 1280×1024, 1280×720
- **Multi-screen Display**
  - When IP extension mode not enabled:
    - 4CH: 1/4
    - 8CH: 1/4/8/9
  - When IP extension mode enabled:
    - 4CH: 1/4/6
    - 8CH: 1/4/9/16
- **OSD**: Camera title, Time, Video loss, Camera lock, Motion detection, Recording

#### Network
- **Interface**: 1 RJ-45 Port (1000M)
- **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 x 18), Video Loss, Tampering and Diagnosis
- **Alarm input**: N/A
- **Relay Output**: N/A

#### Playback and Backup
- **Playback**: 4CH: 1/4
  - 8CH: 1/4/9
- **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**: 1 SATA Port, up to 10TB capacity
- **eSATA**: N/A

#### Auxiliary Interface
- **USB**: 3 USB Ports (2 USB 2.0, 1 USB 3.0)
- **RS232**: N/A
- **RS485**: 1 Port, for PTZ Control

#### Electrical
- **Power Supply**: DC12V/2A
- **Power Consumption (without HDD)**: <10W

#### Construction
- **Dimensions**: 265mm×150mm×87.5mm (10.4“ x 5.9“ x 3.4“)
- **Net Weight (without HDD)**: 1.2kg (2.6 lb)
- **Gross Weight**: 4CH: 1.8kg (4.0 lb)
  - 8CH: 1.9kg (4.2 lb)
- **Installation**: Desktop installation

#### Environmental
- **Operating Conditions**: -10°C ~ +45°C (+14°F ~ +113°F), 10% ~ 90% RH
- **Storage Conditions**: -20°C ~ +70°C (-4°F ~ +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

#### Certifications
- **Certifications**
  - FCC: Part 15 Subpart B
  - CE: CE-LVD: EN 60950-1/IEC 60950-1
  - CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55024, EN 55032, EN 55013, EN 55022
  - UL: UL 60950-1
Pro Series | DH-XVR7104/08E-4KL-X

### Ordering Information

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<th>Description</th>
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<td>4/8 Channel XVR</td>
<td>DH-XVR7104E-4KL-X</td>
<td>4 Channel Penta-brid 4K Elegant Digital Video Recorder</td>
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<td>DH-XVR7108E-4KL-X</td>
<td>8 Channel Penta-brid 4K Elegant Digital Video Recorder</td>
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### Rear Panel

**DH-XVR7104E-4KL-X**

- VIDEO IN: Interface for video input.
- AUDIO IN, RCA Connector: Interface for audio input.
- AUDIO OUT, RCA Connector: Interface for audio output.
- RS485 Interface: Interface for serial communication.
- HDMI Interface: Interface for HDMI output.
- USB Interface: Interface for USB devices.
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- VGA Interface: Interface for VGA output.
- Network Interface: Interface for network communication.
- DC 12V Power Input: Interface for power input.
- DC 12V Power Out: Interface for power output.

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