

UHD7104HE-4KL-X

4 Channel Penta-brid 4K Mini 1U 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 DVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

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.

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.

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



POS Functionality

This funcion 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 Outpu

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 DVR has the ability to detect and analyze moving objects for improved video surveillance. The DVR 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.

| Technical Specification | | Video Detection and Alarm | |
|-------------------------|--|------------------------------------|---|
| System | | Trigger Events | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Main Processor | Embedded Processor | Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video |
| Operating System | Embedded LINUX | Alarm input | Loss,Tampering and Diagnosis |
| Video and Audio | | Relay Output | 3 |
| Analog Camera Input | 4 Channel, BNC | Playback and Back | |
| HDCVI Camera | 4K, 6MP, 4MP, 1080P@25/30fps, 720P@50/60fps, | , | 1/4 |
| AHD Camera | 720P@25/30fps 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps | Playback | Time /Date, Alarm, MD and Exact Search (accurate to |
| TVI Camera | 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps | Search Mode | second) |
| CVBS Camera | PAL/NTSC | 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 |
| IP Camera Input | 4+4 Channel, each channel up to 8MP | | |
| Audio In/Out | 4 Channel Input, 1 Channel Output, RCA | Backup Mode | USB Device/Network |
| Two-way Talk | Reuse audio in/out, RCA | Storage | |
| Recording | , , | Internal HDD | 1 SATA Port, up to 10TB capacity for each disk |
| Compression | H.265+/H.265/H.264+/H.264 | eSATA | N/A |
| | 4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, | Auxiliary Interface | |
| Resolution | CIF | USB | 2 USB Ports (2 USB 2.0) |
| Record Rate | Main stream: the 1st channel 4K(1~7fps), 6MP(1~10fps), 5MP(1~12fps), 4MP/3MP(1~15fps), others 4K-N(1~7fps), 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF(1~25/30fps) Sub steram:960H(1~15fps); D1/CIF(1~25/30fps) | RS232 | N/A |
| | | RS485 | 1 Port, for PTZ Control |
| | | Electrical | |
| | | Power Supply | DC12V/2A |
| Bit Rate | 32Kbps ~ 6144Kbps Per Channel | Power Consumption (without HDD) | <10W |
| Record Mode | Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop | Construction | |
| Record Interval | $1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec | Dimensions | Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2") |
| Audio Compression | AAC(only for the 1st channel), G.711A, G.711U, PCM | Net Weight (without HDD) | 1.2kg (2.6lb) |
| Audio Sample Rate | 8KHz, 16 bit Per Channel | Gross Weight | 1.9kg (4.2lb) |
| Audio Bit Rate | 64Kbps Per Channel | Installation | Desktop installation |
| Display | | | |
| Interface | 1 HDMI, 1 VGA | Environmental | |
| Resolution | HDMI:2560×1440, 1920×1080, 1280×1024, 1280×720 | Operating Conditions | -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH |
| Maulti cara an Dianlau | VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 1/4 | Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH |
| Multi-screen Display | When IP extension mode enabled: 1/4/6 | Third-party Support | |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording | Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, |
| Network | | | Sanyo, Sony, Videotec, Vivotek, and more |
| Interface | 1 RJ-45 Port (100M) | Certifications | |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P IP Search (Supports Dabus IP Camera, DVP, NVS, etc.) | Certifications | FCC: Part 15 Subpart B |
| Max. User Access | P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) 128 users | | 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 |
| Smart Phone | iPhone, iPad, Android | | |
| Interoperability | ONVIF 16.12, CGI Conformant | | UL: UL 60950-1 |