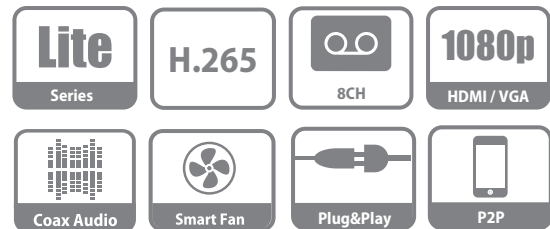**dahua** TECHNOLOGY

# DH-XVR4108HS-X

8 Channel Penta-brid 720P Compact 1U Digital Video Recorder

· H.265 video compression
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 10 channels IP camera inputs, each channel up to 6MP; Max 40Mbps Incoming Bandwidth
· Long transmission distance over coax cable
· Supports 1 SATA HDD, up to 10TB

Lite Series · H.265 · 8CH · 1080p HDMI / VGA

Coax Audio · Smart Fan · Plug&Play · P2P

## 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.

The Lite Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and significantly reducing the Total Cost of Ownership (TCO).

## Functions

### H.265 Video Compression
Newly added H.265 video compression ensures the same image quality with only half bitrate and storage compared to H.264.

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

### 6MP Resolution
The XVR supports up to 6MP HD resolution (2880 x 1920) IPC input for recording, live viewing.

### 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.

### 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.

### 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.

### Perfect Image Quality
High performance chip provides perfect image quality with better color reproduction.

### P2P
Monitor at anytime and anywhere. Easily and conveniently mange the device.

Onvif

## Technical Specification

### System

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

### Video and Audio

| | |
|---|---|
| Analog Camera Input | 8 Channel, BNC |
| HDCVI Camera | 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps |
| AHD Camera | 1080P@25/30, 720P@25/30fps |
| TVI Camera | 1080P@25/30, 720P@25/30fps |
| CVBS Camera | PAL/NTSC |
| IP Camera Input | 8+2, each channel up to 6MP |
| Audio In/Out | 1/1, RCA |
| Two-way Talk | Reuse audio in/out, RCA |

### Recording

| | |
|---|---|
| Video Compression | H.265/H.264 |
| Resolution | 1080N, 720P, 960H, D1, CIF |
| Record Rate | Main Stream:<br>the 1st channel 1080N/720P(1~25/30fps), others 1080N/720P(1~15fps);<br>960H/D1/CIF (1~25/30fps)<br>Sub steram:CIF (1~7fps) |
| Video Bit Rate | 32Kbps ~ 4096Kbps 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 | 1920×1080, 1280×1024, 1280×720 |
| Multi-screen Display | When IP extension mode not enabled: 1/4/8/9<br>When IP extension mode enabled: 1/4/8/9/16 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

### Network

| | |
|---|---|
| Interface | 1 RJ-45 Port (100M) |
| 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.) |
| 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 | N/A |
| Relay Output | N/A |

### Playback and Backup

| | |
|---|---|
| Playback | 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

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|---|---|
| Internal HDD | 1 SATA Port, up to 10TB capacity |
| eSATA | N/A |

### Auxiliary Interface

| | |
|---|---|
| USB | 2 USB 2.0 |
| RS232 | N/A |
| RS485 | 1 Port, for PTZ Control |

### Electrical

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|---|---|
| Power Supply | DC12V/2A |
| Power Consumption (without HDD) | <10W |

### Construction

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|---|---|
| Dimensions | Compact 1U, 260×236×48mm(10.2"×9.3"×1.9") |
| Net Weight (without HDD) | 0.9kg ( 2.0lb) |
| Gross Weight | 1.6kg (3.5lb) |
| Installation | Desktop installation |

### Environmental

| | |
|---|---|
| Operating Conditions | -10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH |
| Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH |

### Third-party Support

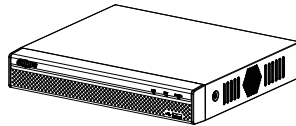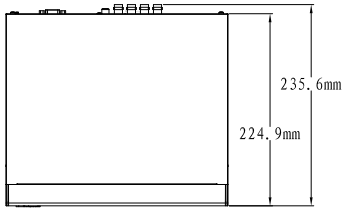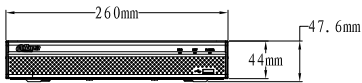| | |
|---|---|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more |

### Certifications

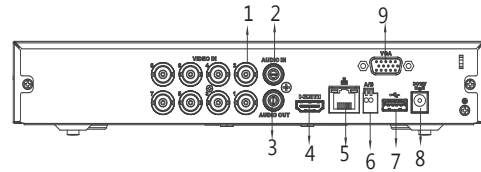| | |
|---|---|
| Certifications | FCC: Part 15 Subpart B<br><br>CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024<br><br>UL: UL 60950-1 |

## Ordering Information

| Type | Part Number | Description |
|------|-------------|-------------|
| 8 Channel XVR | DH-XVR4108HS-X | 8 Channel Penta-brid 720P  Compact 1U Digital Video Recorder |

## Dimensions (mm)



## Rear Panel

DH-XVR4108HS-X



| | | | |
|---|---|---|---|
| 1 | VIDEO IN | 6 | RS485 Interface |
| 2 | AUDIO IN, RCA Connector | 7 | USB Interface |
| 3 | AUDIO OUT, RCA Connector | 8 | DC 12V Power Input |
| 4 | HDMI Interface | 9 | VGA Interface |
| 5 | Network Interface | | |