# DHI-XVR4104/08/16HS-S2

4/8/16 Channel Penta-brid 720P Compact 1U Digital Video Recorder
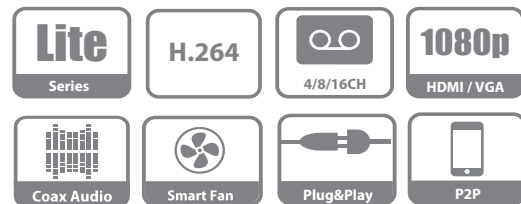
· Embedded processor
· H.264 video compression
· Support HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 5/10/18 channels IP camera inputs
· Long transmission distance over coax cable
· Support 1 SATA HDD, up to 8TB

| Lite Series | H.264 | 4/8/16CH | 1080p HDMI / VGA |
|---|---|---|---|
| Coax Audio | Smart Fan | Plug&Play | P2P |

## System Overview

Dahua, as a technology leader, is always the first ever developed the shining new technology in the security industry ,and today we present XVR-S2 Series. As the perfect solution to upgrade existing video surveillance systems, XVR supports penta-brid access technology such as HDCVI, AHD, TVI, CVBS and IP to effortlessly integrate with popular industry formats, offering an affordable solution loaded with flexible options.  It supports up to 4/8/16 channels of HDCVI/AHD/TVI/CVBS inputs, and 1/2/2 channels IP camera additionally, 16 channels local live-view channels, and 16 playback channels.

Designed as a full compatibility product, XVR is able to provide end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. It is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education.

## Functions

### 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.

### 5MP Resolution ( XVR4108/16HS-S2 )
The XVR supports up to 5MP HD resolution (2560 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.

### Smart Fan
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 while extending the life of the fan at the same time.

### 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 | 4/8/16 Channel, BNC |
| HDCVI Camera | 1080P@25/30fps, 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 | 4+1: each channel up to 2MP<br>8+2/16+2:each channel up to 5MP |
| Audio In/Out | 1/1, RCA |
| Two-way Talk | Reuse audio in/out, RCA |

### Recording

| | |
|---|---|
| Compression | H.264 |
| Resolution | 1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF |
| Record Rate | Main Stream:<br>4CH:1080N/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps)<br>8/16CH:1080N(1~12fps)/720P(1~15fps)/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps)<br>Sub steram:4CH:CIF/QCIF(1~15fps)<br>8/16CH:CIF/QCIF(1~7fps) |
| Bit Rate | 1Kbps ~ 6144Kbps Per Channel |
| Record Mode | Manual, Schedule (Regular, 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 |

### Display

| | |
|---|---|
| Interface | 1 HDMI ,1 VGA |
| Resolution | 1920×1080, 1280×1024, 1280×720, 1024×768 |
| Multi-screen Display | When IP extension mode not enabled:<br>4CH: 1/4<br>8CH: 1/4/8/9<br>16CH: 1/4/8/9/16<br>When IP extension mode enabled:<br>4CH: 1/4/6<br>8CH: 1/4/8/9/16<br>16CH: 1/4/8/9/16/25 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

### Network

| | |
|---|---|
| Interface | 1 RJ-45 Port (100M) |
| Network Function | HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP camera, DVR, NVS, etc.) |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 2.42, 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 | 4CH: 1/4<br>8CH: 1/4/9<br>16CH: 1/4/9/16 |
| 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 8TB capacity |
| eSATA | N/A |

### Auxiliary Interface

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

### Electrical

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

### Construction

| | |
|---|---|
| Dimensions | Compact 1U, 260×236×48mm(10.2"×9.3"×1.9") |
| Net Weight | 0.75kg ( 1.7lb) (without HDD) |
| Gross Weight | 1.5kg (3.3lb) |
| Installation | Desktop installation |

### Environmental

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

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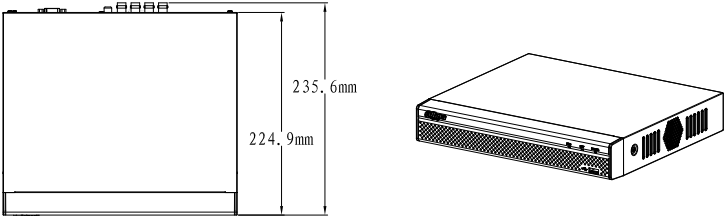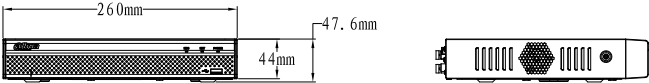
| | |
|---|---|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more |

### Certifications

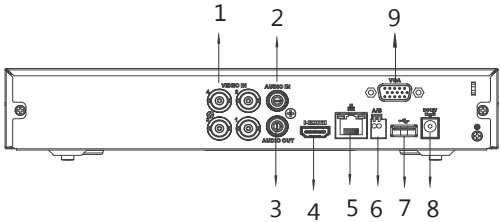| | |
|---|---|
| Certifications | FCC: Part 15 Subpart B |
| | CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 |
| | UL: UL 60950-1 |

# Lite Series | DHI-XVR4104/08/16HS-S2

## Ordering Information

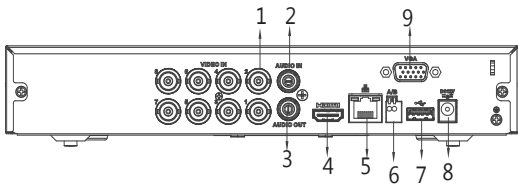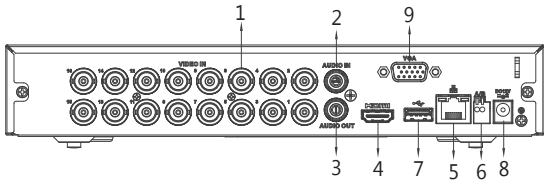| Type | Part Number | Description |
|---|---|---|
| 4/8/16 Channel XVR | DHI-XVR4104HS-S2 | 4 Channel Penta-brid 720P Compact 1U Digital Video Recorder |
| | DHI-XVR4108HS-S2 | 8 Channel Penta-brid 720P Compact 1U Digital Video Recorder |
| | DHI-XVR4116HS-S2 | 16 Channel Penta-brid 720P Compact 1U Digital Video Recorder |

## Dimensions (mm)

## Rear Panel

DHI-XVR4104HS-S2

DHI-XVR4108HS-S2

DHI-XVR4116HS-S2

| 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 | | |

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