# DHI-HCVR7104/08/16HE-S3

## 4/8/16 Channel Tribrid 1080P Mini 1U Digital Video Recorder

- Embedded processor
- H.264+/H.264 video compression
- Support HDCVI/CVBS/IP video inputs
- Max 6/12/24 channels IP camera inputs, each channel up to 5MP
- Max 24/48/96Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System

## System Overview

Dahua newest generation digital video recorder adopts HDCVI technology, our in-house technology is an over-coaxial-cable analog HD video transmission standard, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation. It supports up to 16 channels of HDCVI/CVBS inputs, and 8 channels IP camera additionally, 16 channels local live-view channels, and 16 playback channels.

Designed as a low-cost, easy installation product, this HCVR is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education. It is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4.1.

## Functions

### Smart H.264+

Smart Codec, H.264+ can reduce up to 70% bit rate and storage requirements without having to invest in new cameras.

### 5MP Resolution

The HCVR supports 5MP HD resolution (2560 x 1920) IPC input for recording, live viewing.

### 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 HCVR has the ability to detect and analyze moving objects for improved video surveillance. The HCVR 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 type technology being used in a variety of applications that search or identify individuals which show front cameras.

### 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

### System

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

### Display

| | |
|---|---|
| Interface | 1 HDMI ,1 VGA |
| Resolution | 1920×1080, 1280×1024, 1280×720, 1024×768 |
| Multi-screen Display | 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 |

### Video Detection and Alarm

| | |
|---|---|
| Trigger Events | Recording, PTZ, Tour, Alarm Out, 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 | 4/8/16 |
| Relay Output | 3 |
| Tracking Trigger Event | 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

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|---|---|
| Internal HDD | 1 SATA Port, up to 6TB capacity |
| HDD Mode | Single |
| eSATA | N/A |

### Auxiliary Interface

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|---|---|
| Front Cover | N/A |
| USB | 4CH:2 USB 2.0<br>8/16CH:1 USB 2.0 , 1 USB 3.0 |
| RS232 | N/A |
| RS485 | 1 Port, for PTZ Control |

### 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 |

### Audio and Video

| | |
|---|---|
| HDCVI Camera Input | 4/8/16 Channel |
| IP Camera Input | 4+2/8+4/16+8 Channel, each channel up to 5MP |
| Audio In/Out | 4/8/16 Channel input,1 Channel output |
| Two-way Talk | Reuse audio in(channel 1)/out, RCA |

### Recording

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|---|---|
| Compression | H.264+/H.264 |
| Resolution | 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF |
| Record Rate | Main stream: 1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps)<br>Sub stream:D1/CIF/QCIF(1~25/30fps) |
| 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 |

### Network

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|---|---|
| Interface | 4CH: 1 RJ-45 Port (100M)<br>8/16CH: 1 RJ-45 Port (1000M) |
| 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 2.4.1, CGI Conformant |

### Electrical

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|---|---|
| Power Supply | 4/8CH:DC12V/2A, 16CH:DC12V/3A |
| Power Consumption | <15W (Without HDD) |

### Environmental

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|---|---|
| Operating Conditions | -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa |
| Storage Conditions | 0°C ~ +50°C (+32°F ~ +122°F), 0 ~ 90% RH |

### Construction

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|---|---|
| Dimensions | Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2") |
| Net Weight | 1.5kg (3.3 lb) (without HDD) |
| Gross Weight | 2kg (4.4lb) |
| Installation | Desktop installation |

### Certifications

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|---|---|
| Certifications | FCC: Part 15 Subpart B   ICES 003 Issue 6 |
| | CE: EN 55032: 2012+AC:2013 (Class B)<br>EN 55024 : 2010 EN 61000-3-2 : 2014<br>EN 50130-4: 2011 EN 61000-3-3 : 2013 |
| | UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07 |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 4/8/16 Channel HCVR | DHI-HCVR7104HE-S3 | 4 Channel Tribrid 1080P Mini 1U Digital Video Recorder |
| | DHI-HCVR7108HE-S3 | 8 Channel Tribrid 1080P Mini 1U Digital Video Recorder |
| | DHI-HCVR7116HE-S3 | 16 Channel Tribrid 1080P Mini 1U Digital Video Recorder |

## Dimensions (mm)



325mm · 55mm · 48mm · 255.1mm · 243mm