**alhua** TECHNOLOGY

# DH-XVR5104C-X1
## 4 Channel Penta-brid 1080P Smart 1U Digital Video Recorder

· H.265+/H.265 dual-stream video compression
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 6 channels IP camera inputs, each channel  up to 6MP; Max 24Mbps incoming bandwidth
· Smart Search and Intelligent Video System

| Lite Series | H.265 | 4CH | 1080p HDMI / VGA |
|---|---|---|---|
| Coax Audio | 1200m Long Distance | 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

### 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.

### High Definition Camera Input
The XVR supports up to 5MP HDCVI camera and 6MP 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.

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

### 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.

### 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.

**Onvif**

## Technical Specification

### System

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

### Video and Audio

| | |
|---|---|
| Analog Camera Input | 4 Channel, BNC |
| HDCVI Camera | 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps |
| AHD Camera | 5MP, 4MP, 1080P@25/30, 720P@25/30fps |
| TVI Camera | 5MP, 4MP, 1080P@25/30, 720P@25/30fps |
| CVBS Camera | PAL/NTSC |
| IP Camera Input | 4+2 Channel, each channel up to 6MP |
| 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 | 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF |
| Record Rate | Main stream: 5M-N(1~10fps), 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps) Sub stream: D1/CIF(1~15fps) |
| Bit Rate | 32Kbps ~ 6144Kbps 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 | 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 When IP extension mode enabled: 1/4/6 |
| 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 |
| 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 |
| eSATA | N/A |

### Auxiliary Interface

| | |
|---|---|
| USB | 2 USB 2.0 |
| RS232 | N/A |
| RS485 | N/A |

### Electrical

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|---|---|
| Power Supply | DC12V/1.5A |
| Power Consumption (without HDD) | <10W |

### Construction

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|---|---|
| Dimensions | Smart 1U, 205mm×211mm×45mm (8.1"×8.3"×1.8") |
| Net Weight (without HDD) | 0.5kg (1.2lb) |
| Gross Weight | 1.1kg (2.2lb) |
| Installation | Desktop installation |

### Environmental

| | |
|---|---|
| Operating Conditions | -10°C ~ +45°C (+14°F ~ +113°F), up to 55°C/131°F with case fan, 10~ 90% RH |
| Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH |

### Third-party Support

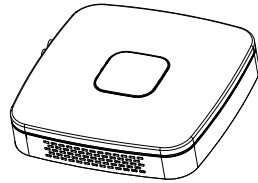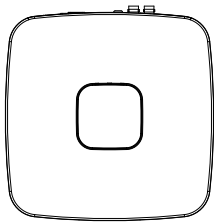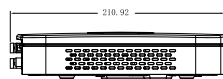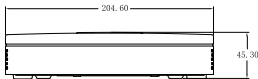| | |
|---|---|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more |

### Certifications

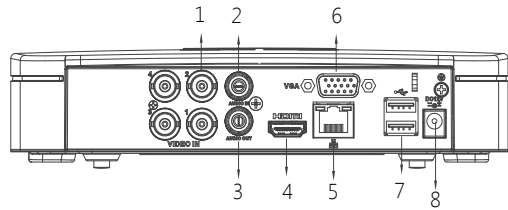| | |
|---|---|
| Certifications | FCC: Part 15 Subpart B |
| | CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 |

## Ordering Information

| Type | Part Number | Description |
|------|-------------|-------------|
| 4 Channel XVR | DH-XVR5104C-X1 | 4 Channel Penta-brid 1080P Smart 1U Digital Video Recorder |

## Dimensions (mm)

204.60

45.30

210.92

## Rear Panel

DH-XVR5104C-X1

| 1 | VIDEO IN | 5 | Network Interface |
|---|----------|---|-------------------|
| 2 | AUDIO IN, RCA Connector | 6 | VGA Interface |
| 3 | AUDIO OUT, RCA Connector | 7 | USB Interface |
| 4 | HDMI Interface | 8 | DC12V Power Input |

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