Our Product

## PRODUCT NAME

# YCH-XVR5208/16AN-4KL-X-8/16P
## 8/16 Channel Penta-brid 4K 1U Digital Video Recorder



- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 12/24 channels IP camera inputs, each channel up to 8MP; Max 48/96Mbps incoming bandwidth
- Smart Search and Intelligent Video System
- Total 48/96W output power consumption; Max supports 8/16 channels Lite series PoC cameras inputs or 4/8 channels Pro series PoC cameras inputs.

Note: HDCVI PoC system temporarily does not support balun accessing and UTP transmission.



## 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.

**8MP Resolution**

The XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and IP camera input.

**PoC Functionality**

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces time and cost.

**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 is mainly used in retail programs which can superimpose POS ticket information on the video channel to preview and record.

**Long Distance Transmission**

The HDCVI PoC system supports long distance power transmission over coaxial cable, max. 400m for 1080P and 300m for 4MP.

**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 while extending the life of the fan at the same time.

**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 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 |

### Video and Audio

| | |
|---|---|
| **Analog Camera Input** | 8/16 Channel, BNC |
| **HDCVI Camera** | 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps |
| **AHD Camera** | 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps |
| **TVI Camera** | 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps |
| **CVBS Camera** | PAL/NTSC |
| **PoC Camera Input** | Supports HDCVI PoC Camera |
| **IP Camera Input** | 8+4/16+8 Channel, each channel up to 8MP |
| **Audio In/Out** | 1/1, RCA |
| **Two-way Talk** | Reuse audio in/out, RCA |

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## Recording

| | |
|---|---|
| Compression | H.265+/H.265/H.264+/H.264 |
| Resolution | 4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF |
| Record Rate | Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/ CIF(1~25/30fps) Sub steram:960H(1~15fps); D1/CIF(1~25/30fps) |
| Bit Rate | 32Kbps ~ 8192Kbps 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

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|---|---|
| Interface | 8CH:1 HDMI, 1 VGA   |   16CH: 1 HDMI, 1 VGA, 1 TV |
| Resolution | HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 |
| Multi-screen Display | When IP extension mode not enabled: 8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 16CH: 1/4/8/9/16/25 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

## Network

| | |
|---|---|
| Interface | 1 RJ-45 Port (1000M) |
| 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

| | |
|---|---|
| Sync Playback | 8CH: 1/4/9   |   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 | 2 SATA Ports, up to 10TB capacity for each disk |
| eSATA | N/A |

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## Auxiliary Interface

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|---|---|
| USB | 2USB Ports (1 USB 2.0 , 1 USB 3.0) |
| RS232 | N/A |
| RS485 | 1 Port, for PTZ Control |

## Electrical

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|---|---|
| Power Supply | 8CH: DC53V \| 16CH: DC54V |
| Power Consumption | 8CH: <10W (Without HDD) \| 16CH: <20W (Without HDD) |
| Max. Power Output | 8CH: <48W \| 16CH: <96W |

## Construction

| | |
|---|---|
| Dimensions | 1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1") |
| Device with PFH101 Rack Mount Tray | 483mmx281mmx56mm (19.0"x11.1"x2.2") |
| Net Weight (without HDD) | 1.7kg(3.75lb) \| 2.0kg (4.41lb) |
| Gross Weight | 3.62kg (7.98lb) |
| 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

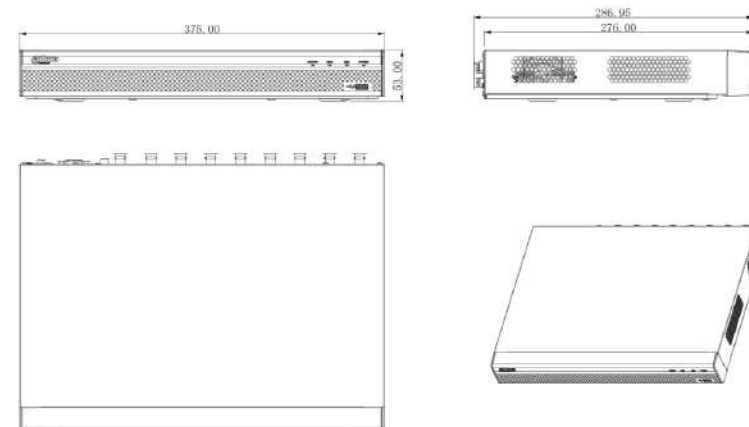| | |
|---|---|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more |

## Certifications

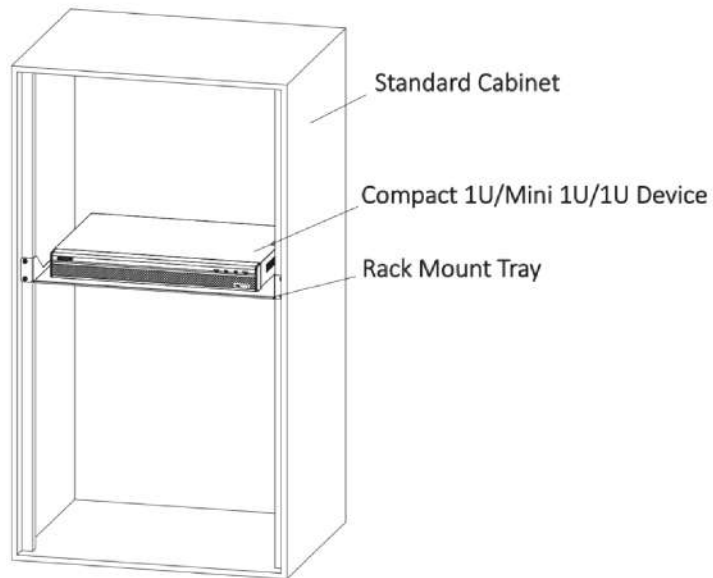| | |
|---|---|
| Certifications | FCC: Part 15 Subpart B<br>CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024<br>UL: UL 60950-1 |

## Ordering Information

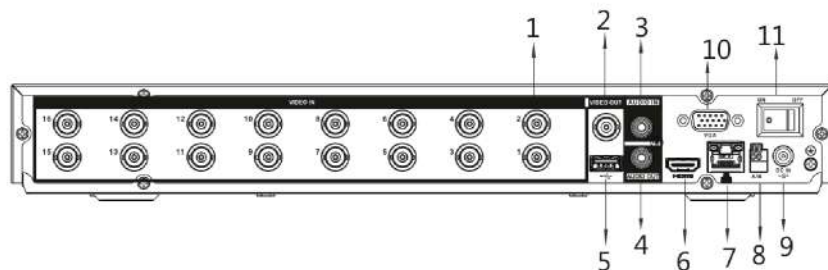| Type | Part Number | Description |
|---|---|---|
| 8 Channel XVR | YCH-XVR5208AN-4KL-X-8P | 8 Channel Penta-brid 4K 1U Digital Video Recorder |
| 16 Channel XVR | YCH-XVR5216AN-4KL-X-16P | 16 Channel Penta-brid 4K 1U Digital Video Recorder |
| Accessory, optional | YCH-PFH101 | Rack Mount Tray |

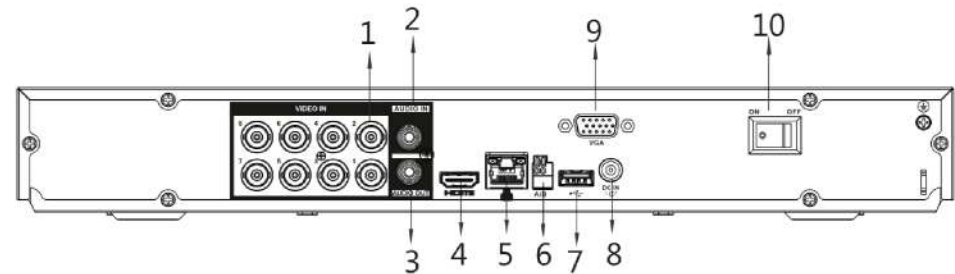## DIMENSIONS (MM)

## INSTALLATION ON RACK MOUNT TRAY



Standard Cabinet

Compact 1U/Mini 1U/1U Device

Rack Mount Tray

## REAR PANEL

### PRODUCT NAME

## YCH-XVR5216AN-4KL-X-16P



1. VIDEO IN
2. VIDEO OUT
3. AUDIO IN, RCA Connector
4. AUDIO OUT, RCA Connector
5. USB Interface
6. HDMI Interface
7. Network Interface
8. RS485 Interface
9. DC 48V Power Input
10. VGA Interface
11. Power Switch

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4. HDMI Interface
5. Network Interface
6. RS485 Interface
7. USB Interface
8. DC 48V Power Input
9. VGA Interface
10. Power Switch