

# DHI- XVR5208/16AN-4KL-8/16P

8/16 Channel Penta-brid 4K 1U Digital Video Recorder



## System Overview

Throughout the years, HDCVI technology gained international fame for becoming a brand new international standard for video surveillance, and has never stopped evolving. From 2MP to 4MP, now Dahua Technology brings HDCVI into the 4K era. It presents a much clear and vivid world.

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.

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

### Smart H.264+

Smart Codec, H.264+ can reduce up to 70% bit rate and storage requirements 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.

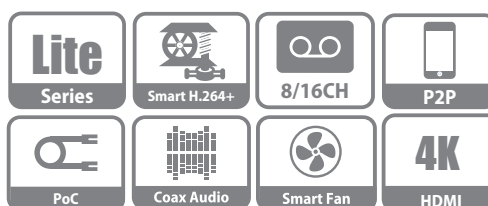
### 8MP Resolution

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

### PoC Function

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.

- Embedded processor
- H.264+/H.264 dual-stream video compression
- Support 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
- Note: HDCVI PoC system temporarily does not support balun accessing and UTP transmission.



### Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

### 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.

### 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 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 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

**Video and Audio**

Analog Camera Input	8/16 Channel, BNC
HDCVI Camera	4K, 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

**Recording**

Compression	H.264+/H.264
Resolution	4K, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF, QCIF
Record Rate	Main stream: 4K(1~7fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 1080P/720P/960H/D1/CIF/QCIF (1~25/30fps) Sub stream: 960H(1~15fps); 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

**Display**

Interface	8CH: 1 HDMI, 1 VGA 16CH: 1 HDMI, 1 VGA, 1 TV
Resolution	HDMI: 3840x2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768 VGA: 1920x1080, 1280x1024, 1280x720, 1024x768
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, 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 x 18), Video Loss, Tampering and Diagnosis
Alarm input	N/A
Relay Output	N/A

**Playback and Backup**

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**

Internal HDD	2 SATA Ports, up to 8TB capacity for each disk
eSATA	N/A

**Auxiliary Interface**

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

**Electrical**

Power Supply	8CH: DC48V/2A 16CH: DC48V/2.5A
Power Consumption	<15W (Without HDD)

**Construction**

Dimensions	1U, 375mmx287mmx53mm (14.8" x 11.3" x 2.1")
Net Weight	2.35kg (5.2 lb) (without HDD)
Gross Weight	3.2kg (7.05lb)
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
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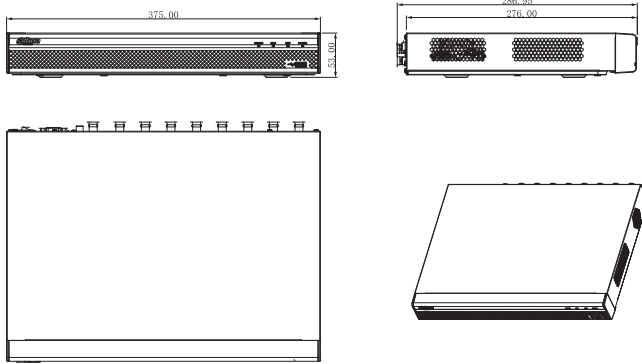
**Certifications**

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 UL: UL 60950-1
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Ordering Information

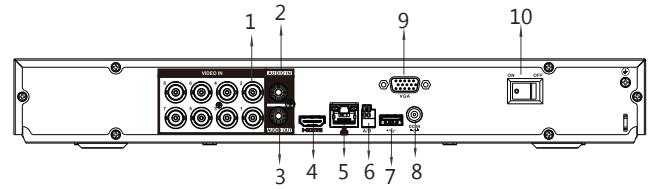
Type	Part Number	Description
8 Channel XVR	DHI-XVR5208AN-4KL-8P	8 Channel Penta-brid 4K 1U Digital Video Recorder
16 Channel XVR	DHI-XVR5216AN-4KL-16P	16 Channel Penta-brid 4K 1U Digital Video Recorder

Dimensions (mm)



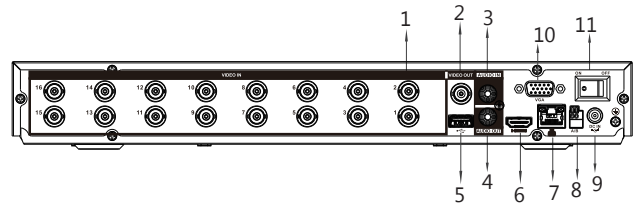
Rear Panel

DHI-XVR5208AN-4KL-8P



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

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| 5 USB Interface            | 11 Power Switch      |
| 6 HDMI Interface           |                      |