

# DH-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

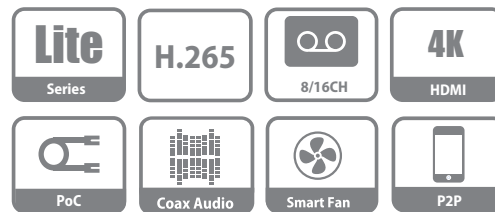
The XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and IP camera input.

### 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 function 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

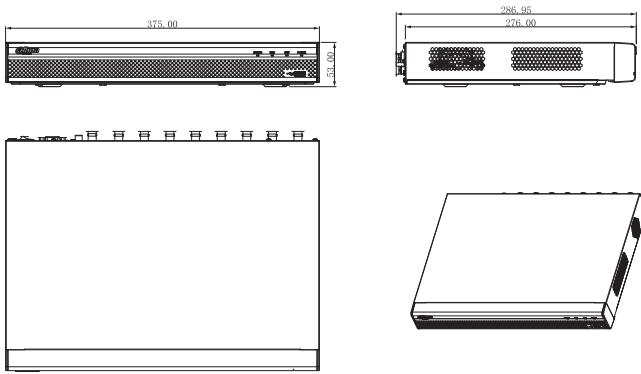
This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

Technical Specification		Video Detection and Alarm	
<b>System</b>		<b>Video Detection and Alarm</b>	
Main Processor	Embedded Processor	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Operating System	Embedded LINUX	Video Detection	Motion Detection, MD Zones: 396 (22 x 18), Video Loss, Tampering and Diagnosis
<b>Video and Audio</b>		Alarm input	N/A
Analog Camera Input	8/16 Channel, BNC	Relay Output	N/A
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	<b>Playback and Backup</b>	
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	8CH: 1/4/9 16CH: 1/4/9/16
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
CVBS Camera	PAL/NTSC	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
PoC Camera Input	Supports HDCVI PoC Camera	Backup Mode	USB Device/Network
IP Camera Input	8+4/16+8 Channel, each channel up to 8MP	<b>Storage</b>	
Audio In/Out	1/1, RCA	Internal HDD	2 SATA Ports, up to 10TB capacity for each disk
Two-way Talk	Reuse audio in/out, RCA	eSATA	N/A
<b>Recording</b>		<b>Auxiliary Interface</b>	
Compression	H.265+/H.265/H.264+/H.264	USB	2USB Ports (1 USB 2.0 , 1 USB 3.0)
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	RS232	N/A
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 stream: 960H(1~15fps); D1/CIF(1~25/30fps)	RS485	1 Port, for PTZ Control
Bit Rate	32Kbps ~ 8192Kbps Per Channel	<b>Electrical</b>	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Supply	8CH: DC53V 16CH: DC54V
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	Power Consumption	8CH: <10W (Without HDD) 16CH: <20W (Without HDD)
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Max. Power Output	8CH: <48W 16CH: <96W
Audio Sample Rate	8KHz, 16 bit Per Channel	<b>Construction</b>	
Audio Bit Rate	64Kbps Per Channel	Dimensions	1U, 375mmx287mmx53mm (14.8" x 11.3" x 2.1")
<b>Display</b>		Device with PFH101 Rack Mount Tray	483mmx281mmx56mm (19.0"x11.1"x2.2")
Interface	8CH:1 HDMI, 1 VGA 16CH: 1 HDMI, 1 VGA, 1 TV	Net Weight (without HDD)	1.7kg(3.75lb) 2.0kg(4.41lb)
Resolution	HDMI:3840x2160, 2560x1440, 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024, 1280x720	Gross Weight	3.62kg (7.98lb)
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	Installation	Desktop installation
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	<b>Environmental</b>	
<b>Network</b>		Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10%~90% RH
Interface	1 RJ-45 Port (1000M)	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0~90% RH
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.)	<b>Third-party Support</b>	
Max. User Access	128 users	Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
Smart Phone	iPhone, iPad, Android	<b>Certifications</b>	
Interoperability	ONVIF 16.12, CGI Conformant	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

**Ordering Information**

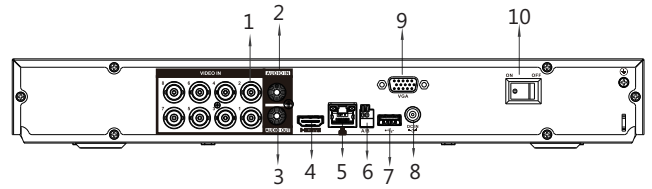
Type	Part Number	Description
8 Channel XVR	DH-XVR5208AN-4KL-X-8P	8 Channel Penta-brid 4K 1U Digital Video Recorder
16 Channel XVR	DH-XVR5216AN-4KL-X-16P	16 Channel Penta-brid 4K 1U Digital Video Recorder
Accessory, optional	DH-PFH101	Rack Mount Tray

**Dimensions (mm)**



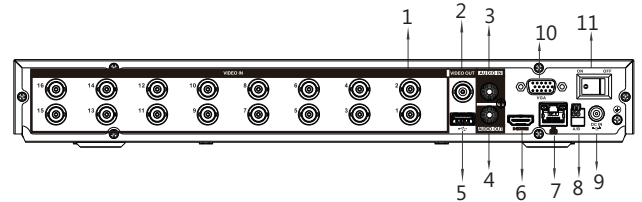
**Rear Panel**

DH-XVR5208AN-4KL-X-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      |

DH-XVR5216AN-4KL-X-16P



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

**Installation on Rack Mount Tray**

