

# DH-XVR7208/16A-4KL-X

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
- $\cdot$  Supports 16/32 channels of IPC access, each channel up to
- 8MP input; Max 64/128Mbps Incoming Bandwidth
- $\cdot$  IoT & POS functionalities
- · Smart Search and Intelligent Video System



#### 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. Designed as a collection of intelligent encoding algorithm based on H.265, H.265+ significantly improves encoding efficiency and save bandwidth/storage cost, which fully meet the needs of users facing budget constraints who both require quality and performance.

Besides smart codec, the series supports various advanced functions like IoT and POS functionalities, making the whole system smarter and more convenient which is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required.

#### 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.

#### Coaxial Audio/Upgrade/Alarm

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

#### 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.

#### IoT Functionality

HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

#### **POS Functionality**

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

#### 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.

#### 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 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.



## Pro Series | DH-XVR7208/16A-4KL-X

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, 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			
IP Camera Input	8+8/16+16 Channel, each channel up to 8MP			
Audio In/Out	4/1, RCA			
Two-way Talk	Reuse audio in/out, RCA			
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 ~ 6144Kbps Per Channel			
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop			
Record Interval	$1{}^{\sim}60$ min (default: 60 min), Pre-record: $1{}^{\sim}30$ sec, Postrecord: $1{}^{\sim}300$ 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				
Interface	1 HDMI, 1 VGA			
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, 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			

## Video Detection and Alarm

video Detection and					
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	8/16				
Relay Output	3				
Playback and Backup					
	8CH: 1/4/9				
Playback	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 10TB capacity for each disk				
eSATA	N/A				
Auxiliary Interface					
USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)				
RS232	N/A				
RS485	1 Port, for PTZ Control				
Electrical					
Power Supply	8CH: DC12V/4A 16CH: DC12V/5A				
Power Consumption (without HDD)	8CH: <10W 16CH: <20W				
Construction					
Device 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)	8CH: 1.7kg (3.7 lb) 16CH: 1.8kg (4.0 lb)				
Gross Weight	8CH: 3.0kg (6.6 lb) 16CH: 3.2kg (7.0 lb)				
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					
	FCC: Part 15 Subpart B				
Certifications	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				

## Pro Series | DH-XVR7208/16A-4KL

## **Ordering Information**

**Dimensions (mm)** 

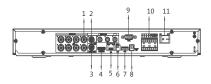
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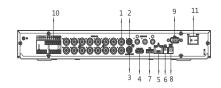
Туре	Part Number	Description	
8 Channel XVR	DH-XVR7208A-4KL	8 Channel Penta-brid 4K 1U Digital Video Recorder	
16 Channel XVR	DH-XVR7216A-4KL	16 Channel Penta-brid 4K 1U Digital Video Recorder	
Accessory, optional	DH-PFH101	Rack Mount Tray	

#### **Rear Panel**

DH-XVR7208A-4KL-X



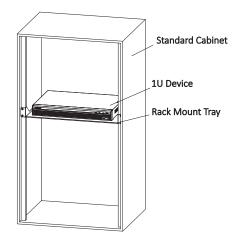
DH-XVR7216A-4KL-X



1	VIDEO IN	7	USB port
2	AUDIO IN, RCA Connector	8	DC 12V Power Input
3	AUDIO OUT, RCA Connector	9	VGA port
4	HDMI port	10	ALARM IN/OUT
5	Network port	11	Power Switch

- RS485 port 6
- V/OUT
- /itch

## **Installation on Rack Mount Tray**





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