

DH- XVR7816S-4KL-X

16 Channel Penta-brid 4K 2U Digital Video Recorder



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.

High Definition Camera Input

The XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and 12MP 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.

· H.265+/H.265 dual-stream video compression

- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- \cdot Supports 32 channels of IPC access, each channel up to
- 12MP input; Max 128Mbps incoming bandwidth
- · IoT & POS functionalities
- All channels support Tripwire & Intrusion; First 4 channels support Object Abandoned & Missing
- · Supports HDMI2 for spot output



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

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

HDMI2 port 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 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.



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Technical Specificat	tion			
System Main Processor	Embedded Processor			
	Embedded LINUX			
Operating System				
Video and Audio				
Analog Camera Input	16 Channel, BNC			
HDCVI Camera	4K, 5MP, 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	16+16 Channels, each channel up to 12MP			
Audio In/Out	16 Audio In, 1 Audio Out, BNC			
Two-way Talk	1 Mic In, 1 Mic Out, BNC			
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	$1{}^{\sim}60$ min (default: 60 min), Pre-record: $1{}^{\sim}30$ sec, Postrecord: $10{}^{\sim}300$ 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	2 HDMI, 1 VGA, 1 TV			
Resolution	HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 /VGA: 1920×1080, 1280×1024, 1280×720			
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36			
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording			
Network				
Interface	2 RJ-45 Ports (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 Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Trigger Events Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Video Detection Loss, Tampering and Diagnosis Alarm input 16 Relay Output 6 Playback and Backup 1/4/9/16 Playback Time /Date, Alarm, MD and Exact Search (accurate to Search Mode second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Playback Function Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Backup Mode USB Device/Network Storage Internal HDD 8 SATA Ports, up to 10TB capacity for each disk eSATA 1 Port Auxiliary Interface 4 USB Ports (2 USB 2.0, 2 USB 3.0) USB RS232 1 port, for PC communication & Keyboard RS485 1 Port, for PTZ Control RS422 1 Port, for PTZ Control Electrical AC100V-240V, 50/60Hz Power Supply <35W (Without HDD) **Power Consumption** Construction 2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7") Dimensions Net Weight 6.9kg (15.2lb) (without HDD) 9.8kg (21.6lb) Gross Weight Installation Desktop installation/Rack-mounted Environmental -10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH **Operating Conditions** Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Third-party Support Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more 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 Certifications 50130, EN 55024 UL: UL 60950-1

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Ordering Information				
Туре	Part Number	Description		
16 Channel XVR	DH-XVR7816S-4KL-X	16 Channel Penta-brid 4K 2U Digital Video Recorder		

Dimensions (mm)





Rear Panel

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1	VIDEO IN	9	2*HDMI port
2	VIDEO OUT	10	2*USB port
3	AUDIO IN, BNC Connector	11	eSATA port
4	AUDIO OUT, BNC Connector	12	RS232 port
5	MIC IN, BNC Connector	13	ALARM IN/OUT; RS485; RS422:
6	MIC OUT, BNC Connector	14	Power Input
7	2*Network port	15	Power Switch
8	VGA port		

