

DH-XVR7816S-4KL-X-LP

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.

Loop Functionality

Replacing the video distributor, this function simply provides an additional output to use as you wish. Users can achive recording as well as video matrix at the same time. Supports Loop video out transmission of more than 300m for CVBS/720P as well as more than 200m for 1080P and above.

· 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 320Mbps incoming bandwidth
- \cdot 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 funcion 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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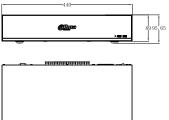
Technical Specification System Embedded Processor Main Processor Operating System Embedded LINUX Video and Audio Analog Camera Input 16 Channel, BNC 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera 720P@25/30fps AHD Camera 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps **TVI** Camera 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps CVBS Camera PAL/NTSC 16+16 Channels, each channel up to 12MP IP Camera Input Audio In/Out 16 Audio In, 1 Audio Out, BNC 1 Mic In, 1 Mic Out, BNC Two-way Talk Recording H.265+/H.265/H.264+/H.264 Compression 4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF Resolution Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/ Record Rate CIF(1~25/30fps) Sub steram:960H(1~15fps); D1/CIF(1~25/30fps) Bit Rate 32Kbps ~ 8192Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video detection: Record Mode Motion Detection, Video Loss, Tampering), Alarm, Stop 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-Record Interval record: 10 ~ 300 sec Audio Compression G.711A, G.711U, PCM Audio Sample Rate 8KHz, 16 bit Per Channel Audio Bit Rate 64Kbps Per Channel Display 2 HDMI, 1 VGA, 1 TV Interface HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, Resolution 1280×720 HDMI 2 /VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25/36 Camera title, Time, Video loss, Camera lock, Motion detection, OSD Recording Network 2 RJ-45 Ports (1000M) Interface HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Network Function Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.) 128 users Max. User Access Smart Phone iPhone, iPad, Android ONVIF 16.12, CGI Conformant Interoperability

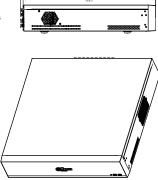
Video Detection and Alarm Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Trigger Events Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Video Detection Loss, Tampering and Diagnosis Alarm input 16 Relay Output 6 Playback and Backup 1/4/9/16 Playback Time /Date, Alarm, 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 USB 4 USB Ports (2 USB 2.0, 2 USB 3.0) RS232 1 port, for PC communication & Keyboard RS485 1 Port, for PTZ Control RS422 1 Port, for PTZ Control 16 Channel, BNC, support HDCVI/AHD/TVI/CVBS Loop Out Electrical AC100V-240V. 50/60Hz Power Supply **Power Consumption** <35W (Without HDD) Construction 2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7") Dimensions Net Weight 6.9kg (15.2lb) (without HDD) Gross Weight 9.8kg (21.6lb) Installation Desktop installation/Rack-mounted 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 Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Third-party Support Sanyo, Sony, Videotec, Vivotek, and more Certifications FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 Certifications 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				
Туре	Part Number	Description		
16 Channel XVR	DH-XVR7816S-4KL-X-LP	16 Channel Penta-brid 4K 2U Digital Video Recorder		

Dimensions (mm)





Rear Panel

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1	VIDEO IN	9	2*USB port
2	VIDEO OUT	10	eSATA port
3	LOOP OUT	11	2*HDMI port
4	AUDIO IN, BNC Connector	12	ALARM IN/OUT; RS485; RS422;
5	AUDIO OUT, BNC Connector	13	VGA port
6	MIC IN, BNC Connector	14	RS232 port
7	MIC OUT, BNC Connector	15	Power Input
8	2*Network port	16	Power Switch



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