

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
- · Supports 32 channels of IPC access, each channel up to 12MP input; Max 320Mbps 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 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.

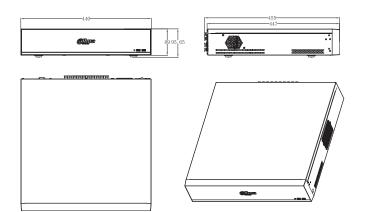
Smart Search

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.

Technical Specifica	etion	Video Detection a	nd Alarm	
System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapsh Buzzer and Screen Tips	
Main Processor	Embedded Processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Operating System	Embedded LINUX	Alarm input	16	
Video and Audio		Relay Output	6	
Analog Camera Input	16 Channel, BNC	Playback and Back	KUD	
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback	1/4/9/16	
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to	
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Scarentividae	second)	
CVBS Camera	PAL/NTSC	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next Previous File, Next Camera, Previous Camera, Full Sc	
P Camera Input	16+16 Channels, each channel up to 12MP	Backup Mode	Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network	
Audio In/Out	16 Audio In, 1 Audio Out, BNC	·	USB Device/Network	
Гwo-way Talk	1 Mic In, 1 Mic Out, BNC	Storage		
Recording		Internal HDD	8 SATA Ports, up to 10TB capacity for each disk	
Compression	H.265+/H.265/H.264+/H.264	eSATA	1 Port	
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface	Auxiliary Interface	
	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)	USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)	
Record Rate		RS232	1 port, for PC communication & Keyboard	
		RS485	1 Port, for PTZ Control	
Bit Rate	32Kbps ~ 8192Kbps Per Channel	RS422	1 Port, for PTZ Control	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Loop Out	16 Channel, BNC, support HDCVI/AHD/TVI/CVBS	
Danad Intamial	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-	Electrical		
Record Interval	record: 10 ~ 300 sec	Power Supply	AC100V-240V, 50/60Hz	
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Power Consumption	<35W (Without HDD)	
Audio Sample Rate	8KHz, 16 bit Per Channel	Construction		
Audio Bit Rate	64Kbps Per Channel	Dimensions	2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7")	
Display		Net Weight (without HDD)	6.9kg (15.2lb)	
nterface	2 HDMI, 1 VGA, 1 TV	Gross Weight	9.8kg (21.6lb)	
Resolution	HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 /VGA: 1920×1080, 1280×1024, 1280×720	Installation	Desktop installation/Rack-mounted	
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16	Environmental	Environmental	
. ,	When IP extension mode enabled: 1/4/8/9/16/25/36 Camera title, Time, Video loss, Camera lock, Motion detection,	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH	
OSD	Recording	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH	
Vetwork		Third-party Suppo	ort	
nterface	2 RJ-45 Ports (1000M)		Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canol	
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.)	Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsu Sanyo, Sony, Videotec, Vivotek, and more	
Max. User Access	128 users	Certifications		
Smart Phone	iPhone, iPad, Android		FCC: Part 15 Subpart B	
nteroperability	ONVIF 16.12, CGI Conformant	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	

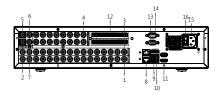
Ordering Information					
Туре	Part Number	Description			
16 Channel XVR	DH-XVR7816S-4KL-X-LP	16 Channel Penta-brid 4K 2U Digital Video Recorder			

Dimensions (mm)



Rear Panel

DH-XVR7816S-4KL-X-LP



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

