

# 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
- · 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 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.

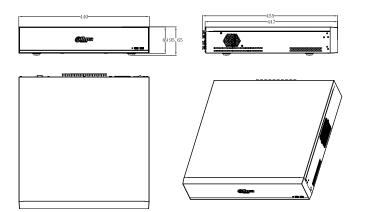
#### Smart Search

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	ition	Video Detection a	nd Alarm	
System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot 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	Playback and Backup	
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	ocar on mode	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	
IP 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	
Two-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 stream: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	Electrical		
	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-	Power Supply	AC100V-240V, 50/60Hz	
Record Interval	record: 10 ~ 300 sec	Power Consumption	<35W (Without HDD)	
Audio Compression	G.711A, G.711U, PCM	Construction		
Audio Sample Rate	8KHz, 16 bit Per Channel	Dimensions	2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7")	
Audio Bit Rate	64Kbps Per Channel	Net Weight (without HDD)	6.9kg (15.2lb)	
Display		Gross Weight	9.8kg (21.6lb)	
Interface	2 HDMI, 1 VGA, 1 TV	Installation	Desktop installation/Rack-mounted	
Resolution	HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 /VGA: 1920×1080, 1280×1024, 1280×720	Environmental		
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	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection,	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH	
	Recording	Third-party Support		
Network		Third was C	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more	
Interface	2 RJ-45 Ports (1000M)	Third-party Support		
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SMMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	Certifications	Certifications	
Max. User Access	128 users		FCC: Part 15 Subpart B	
Smart Phone	iPhone, iPad, Android	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	
Interoperability	ONVIF 16.12, CGI Conformant		UL: UL 60950-1	

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

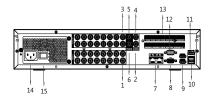
## Dimensions (mm)



## **Rear Panel**

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VGA port



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

