

DH-XVR7104HE-4KL-X

4 Channel Penta-brid 4K Mini 1U 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.

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.

- \cdot H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 8 channels of IPC access, each channel up to 8MP input; Max 32Mbps Incoming Bandwidth
- · IoT & POS functionalities
- \cdot Smart Search and Intelligent Video System



POS Functionality

This funcion 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.



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Technical Specification		Video Detection and 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	
Operating System	Embedded LINUX	Alarm input	Loss,Tampering and Diagnosis	
Video and Audio		Relay Output	3	
Analog Camera Input	4 Channel, BNC	Playback and Backu		
HDCVI Camera	4K, 6MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback	1/4	
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		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	4+4 Channel, each channel up to 8MP	Backup Mode	Repeat, Shuffle, Backup Selection, Digital Zoom	
Audio In/Out	4 Channel Input, 1 Channel Output, RCA		USB Device/Network	
Two-way Talk	Reuse audio in/out, RCA	Storage		
Recording		Internal HDD	1 SATA Port, up to 10TB capacity for each disk	
Compression	H.265+/H.265/H.264+/H.264	eSATA	N/A	
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1,	Auxiliary Interface	Auxiliary Interface	
Resolution	CIF	USB	2 USB Ports (2 USB 2.0)	
	Main stream: the 1st channel 4K(1~7fps), 6MP(1~10fps),	RS232	N/A	
Record Rate	5MP(1~12fps), 4MP/3MP(1~15fps), others 4K-N(1~7fps), 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF(1~25/30fps) Sub steram:960H(1~15fps); D1/CIF(1~25/30fps)	RS485	1 Port, for PTZ Control	
		Electrical		
		Power Supply	DC12V/2A	
Bit Rate	32Kbps ~ 6144Kbps Per Channel	Power Consumption		
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection:	(without HDD)	<10W	
necora mode	Motion Detection, Video Loss, Tampering), Alarm, Stop	Construction		
Record Interval	$1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec	Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")	
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Net Weight (without HDD)	1.2kg (2.6lb)	
Audio Sample Rate	8KHz, 16 bit Per Channel	Gross Weight	1.9kg (4.2lb)	
Audio Bit Rate	64Kbps Per Channel	Installation	Desktop installation	
Display			Desktop instanation	
Interface	1 HDMI, 1 VGA	Environmental		
Resolution	HDMI:2560×1440, 1920×1080, 1280×1024, 1280×720	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH	
	VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 1/4	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH	
Multi-screen Display	When IP extension mode enabled: 1/4/6	Third-party Support		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP	
Network		Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more	
Interface	1 RJ-45 Port (100M)	Certifications		
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,	Certifications	FCC: Part 15 Subpart B	
	P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)		CE: CE-LVD: EN 60950-1/IEC 60950-1	
Max. User Access	128 users		CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024	
Smart Phone	iPhone, iPad, Android		UL: UL 60950-1	
Interoperability	ONVIF 16.12, CGI Conformant			

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Ordering Information					
Туре	Part Number	Description			
4 Channel XVR	DH-XVR7104HE-4KL-X	4 Channel Penta-brid 4K Mini 1U Digital Video Recorder			

Dimensions (mm)

Mbua



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1	VIDEO IN	7	USB port
2	AUDIO IN, RCA Connector	8	DC12V Power Input
3	AUDIO OUT, RCA Connector	9	ALARM IN / OUT
4	HDMI port	10	VGA port
5	Network port	11	Power Switch
6	RS485 port		







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