

UHD7108/16HE-4KL-X

8/16 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 DVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

8MP Resolution

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

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.

- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- \cdot Supports 16/32 channels of IPC access, each channel up to 8MP input; Max 64/128Mbps Incoming Bandwidth
- · IoT & POS functionalities
- · Smart Search and Intelligent Video System



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 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 DVR has the ability to detect and analyze moving objects for improved video surveillance. The DVR 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.

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		Loss, Tampering and Diagnosis
Video and Audio		Alarm input Relay Output	8/16
Analog Camera Input	8/16 Channel, BNC	Playback and Back	
HDCVI Camera	4K, 6MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback and back	8CH: 1/4/9
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	,	16CH: 1/4/9/16
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time / Date, Alarm, MD and Exact Search (accurate to 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, Repeat, Shuffle, Backup Selection, Digital Zoom
IP Camera Input	8+8/16+16 Channel, each channel up to 8MP		
Audio In/Out	8/16 Channel Input, 1 Channel Output, RCA	Backup Mode	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, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface	
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);	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
		RS232	N/A
Dit Data	D1/CIF(1~25/30fps)	RS485	1 Port, for PTZ Control
Bit Rate	32Kbps ~ 6144Kbps Per Channel	Electrical	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Supply	8CH: DC12V/2A 16CH: DC12V/3A
Record Interval	$1 \sim 60 $ min (default: $60 $ min), Pre-record: $1 \sim 30 $ sec, Post-record: $10 \sim 300 $ sec	Power Consumption	8CH: <10W
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	(without HDD)	16CH: <20W
Audio Sample Rate	8KHz, 16 bit Per Channel	Construction	
Audio Bit Rate	64Kbps Per Channel	Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")
Display		Net Weight	8CH: 1.3kg (2.9 lb)
Interface	1 HDMI, 1 VGA	(without HDD)	16CH: 1.4kg (3.1 lb)
Resolution	HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720	Gross Weight	2kg (4.4lb)
Resolution	VGA: 1920×1080, 1280×1024, 1280×720	Installation	Desktop installation
Multi-screen Display	When IP extension mode not enabled: 8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 16CH: 1/4/8/9/16/25	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
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	Third-party Support	
Network		Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
Interface	1 RJ-45 Port (1000M)	a party support	Sanyo, Sony, Videotec, Vivotek, and more
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, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	Certifications	
May Heer Asses			FCC: Part 15 Subpart B
Max. User Access 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