

DH-XVR5104/08H-X-4/8P

4/8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder



- · H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6/12 channels IP camera inputs, each channel up to 6MP;
 Max 24/48 Mbps Incoming Bandwidth
- · Supports SMD, human face detection, IVS
- · All-channel support HDCVI PoC AT & AF camera



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.

The Lite Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and significantly reducing the Total Cost of Ownership (TCO).

Functions

PoC

This series product supports PoC (Power over Coax) function. All-channel support PoC AT & AF camera: AT camera power consumption is less than 12W, AF power consumption is less than 6W.

PoC power auto limitation. PoC over current/short circuit auto protection, auto power off after unplug the cable.

Auto recognize the PoC camera of different power consumptions. Display PoC camera information such as current power consumption status, remaining power capability.

Manually disable PoC function, compatible with the UTP transmission. Disable PoC function before connecting to balun.

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 5MP HDCVI camera and 6MP 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

Non-PoC mode: The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

PoC mode: The HDCVI system supports video no-loss long distance transmission and coaxial cable control for 5MP, 4MP, 1080P, 720P camera (HDCVI, AHD, TVI). min. 100m for AT camera, min. 200m for AF camera.

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.

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 predetermined 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.

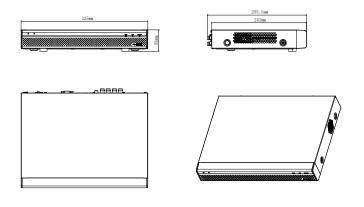


Technical Specific	ation	Video Detection a	and Alarm	
System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Main Processor	Embedded Processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Operating System	Embedded LINUX			
Video and Audio		Alarm input	N/A	
Analog Camera Input	4/8 Channel, BNC	Relay Output	N/A	
	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps,	Playback and Back	kup	
HDCVI Camera	720P@25/30fps	Playback	4CH: 1/4 8CH: 1/4/9	
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to	
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search 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, Repeat, Shuffle, Backup Selection, Digital Zoom	
IP Camera Input	4+2/8+4 Channel, each channel up to 6MP			
Audio In/Out	1/1, 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	
Compression	H.265+/H.265/H.264+/H.264	eSATA	N/A	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	Auxiliary Interface		
Record Rate	Main stream: 5M-N(1~10fps), 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps)	USB	2 USB 2.0	
necord nate	Sub stream: D1/CIF(1~15fps)	RS232	N/A	
Bit Rate	32 kbps–6144 kbps Per Channel	RS485	1 Port, for PTZ Control	
		Electrical		
Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm, Stop		50/50/40/200 // 10	
Record Interval	1 min- 60 min (default: 60 min), Pre-record: 1 sec-30 sec,	Power Supply	53V DC (48V DC Optional)	
Audia Cammanian	Post-record: 10 sec=300 sec	Power Consumption (without HDD)	4CH: ≤5W 8CH: ≤8W	
Audio Compression	G.711A, G.711U, PCM	Construction		
Audio Sample Rate Audio Bit Rate	8 KHz, 16 bit Per Channel	Dimensions	Mini 1U, 325 mm × 255 mm × 55 mm (12.8 " x 10 " x 2.2 ")	
	64 kbps Per Channel	Device with PFH101		
Display		Rack Mount Tray	483 mm x 281 mm x 56 mm (19.0 " x 11.1 " x 2.2 ")	
Interface	1 HDMI ,1 VGA	Net Weight (without HDD)	4CH: 1.16 kg (2.56 lb) 8CH: 1.24 kg (2.73 lb)	
Resolution	4CH: 1920 × 1080, 1280 × 1024, 1280 × 720 8CH:HDMI:1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Gross Weight	4CH: 2.09 kg (4.60 lb) 8CH: 2.28 kg (5.03 lb)	
Multi-screen Display	When IP extension mode not enabled: 4CH: 1/4 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/6 8CH: 1/4/8/9/16	Installation	Desktop installation	
		Environmental		
		Operating Conditions	-10 °C to +55 °C (+14 °F to +131 °F), 10%RH–90%RH	
		Storage Conditions	-20 °C to +70 °C (-4 °F to +158 °F), 0%RH–90%RH	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	Ü	, , , , , , , , , , , , , , , , , , , ,	
Network		τιπα-ραιτή συρρί	Third-party Support	
Interface	1 RJ-45 Port (100M)	Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, 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, PPP0E, DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR,	Certifications		
	NVS, etc.)		FCC: Part 15 Subpart B	
Max. User Access	128 users		CE: CE-LVD: EN 60950-1/IEC 60950-1	
Smart Phone	iPhone, iPad, Android		CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 5013	
Interoperability	ONVIF 16.12, CGI Conformant		EN 55024	

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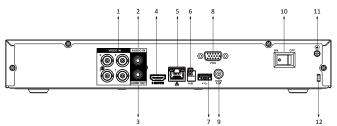
Ordering Information				
Туре	Part Number	Description		
4/0 Channal V//D	DH-XVR5104H-X-4P	4 Channel Penta-brid 1080P Mini 1U Digital Video Recorder		
4/8 Channel XVR	DH-XVR5108H-X-8P	8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder		
Accessory, optional	DH-PFH101	Rack Mount Tray		

Dimensions (mm)

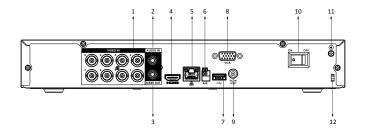


Rear Panel

DH-XVR5104H-X-4P



DH-XVR5108H-X-8P



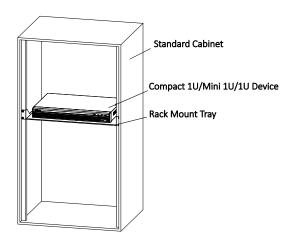
1 VIDEO IN 7 USB Interface
2 AUDIO IN, RCA Connector 8 VGA Interface
3 AUDIO OUT, RCA Connector 9 DC 12V Power Input
4 HDMI Interface 10 Power Switch
5 Network Interface 11 GND

12

RS-485 Interface

Power Cable Fastener

Installation on Rack Mount Tray



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Appendix

AT/AF Mode

Based on PoE standards, Dahua introduces AT and AF mode for PoC to distinguish the power level of PoC cameras: the max. operating power of AT and AF are 12 W and 6 W respectively. These two modes are not related to IEEE 802.3 IP standard.

PoC Access Capability

PoC Device	Allowed AT/AF Camera Access	
4-ch PoC device	4 AT cameras	
8-ch PoC device	8 AT cameras	
16-ch PoC device	16 AT cameras	

