

DH-XVR5216AN-X-16P

16 Channel Penta-brid 1080P Digital Video Recorder



- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP;
 Max 96Mbps 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 video no-loss long distance transmission and coaxial cable control, min. 500m for 720P camera (HDCVI, AHD, TVI), min.300m for 1080P or higher camera (HDCVI, AHD, TVI).

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.

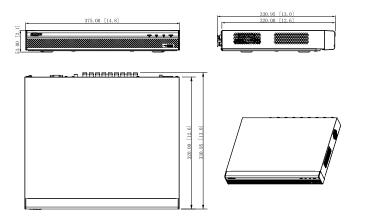


Technical Specific	ation	Video Detection a	nd Alarm
System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Main Processor	Embedded Processor		Motion Detection, MD Zones: 396 (22 × 18), Video Loss,
Operating System	Embedded LINUX	Video Detection	Tampering and Diagnosis
Video and Audio		Alarm input	N/A
Analog Camera Input	16 Channel, BNC	Relay Output	N/A
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback and Back	ир
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Playback	1/4/9/16
TVI Camera	5MP, 4MP, 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	16+8 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	2 SATA Ports, 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) Sub stream: D1/CIF(1~15fps)	USB	1 USB 2.0 , 1 USB 3.0
		RS232	N/A
Bit Rate	32 kbps–6144 kbps Per Channel	RS485	1 Port, for PTZ Control
	Manual, Schedule (General, Continuous), MD (Video	Electrical	
Record Mode		Power Supply	100V-250V AC 190W
Record Interval	1min-60 min (default: 60 min), Pre-record: 1 sec-30 sec, Post-record: 10 sec-300 sec	Power Consumption (without HDD)	≤12W
Audio Compression	G.711A, G.711U, PCM	Construction	
Audio Sample Rate	8 KHz, 16 bit Per Channel	Dimensions (W × L × H)	1U, 375.0 mm × 328.0 mm × 50.0 mm (14.8" × 12.9" × 2.0")
Audio Bit Rate	64 kbps Per Channel	Net Weight	2.75 kg (6.0 lb)
Display		(without HDD) Gross Weight	3.98 Kg (8.8 lb)
Interface	1 HDMI, 1 VGA, 1 TV	Installation	Desktop installation
Resolution	HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720	Environmental	Desktop ilistaliation
	VGA: 1920×1080, 1280×1024, 1280×720		10 °C + - 1 FF °C (114 °F + - 121 °F) 100 (DU 000 (DU
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	Operating Conditions Storage Conditions	-10 °C to +55 °C (+14 °F to +131 °F), 10%RH–90%RH -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	Third-party Suppo	, , , , , , , , , , , , , , , , , , , ,
Network		1 / 11	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP
Interface	1 RJ-45 Port (1000M)	Third-party Support PI	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,	Certifications	
	DVR, NVS, etc.)		FCC: Part 15 Subpart B
Max. User Access	128 users	Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1
Smart Phone	iPhone, iPad, Android	CE-EMC: EN 61000-3-2, EN 61000-3- EN 55024	CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024
Interoperability	ONVIF 16.12, CGI Conformant		

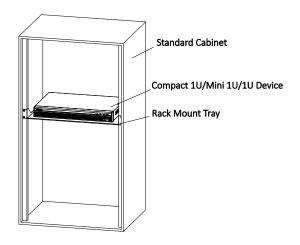
Lite Series | DH-XVR5216AN-X-16P

Ordering Information				
Туре	Part Number	Description		
16 Channel XVR	DH-XVR5216AN- X-16P	16 Channel Penta-brid 1080P 1U Digital Video Recorder		
Accessory, optional	DH-PFH101	Rack Mount Tray		

Dimensions (mm[inch])

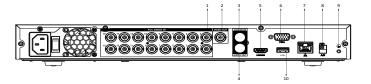


Installation on Rack Mount Tray



Rear Panel

DH-XVR5216AN-X-16P



- 1 VIDEO IN
- 2 VIDEO OUT
- 3 AUDIO IN, RCA Connector
- 4 AUDIO OUT, RCA Connector
- 5 HDMI Interface
- 6 VGA Interface
- 7 Network Interface
 - RS-485 Interface
- 9 GND
- 10 USB Interface

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

