

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.



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Technical Specification System Main Processor Embedded Processor Embedded LINUX **Operating System** Video and Audio Analog Camera Input 16 Channel, BNC 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera 720P@25/30fps AHD Camera 5MP, 4MP, 1080P@25/30, 720P@25/30fps TVI Camera 5MP, 4MP, 1080P@25/30, 720P@25/30fps CVBS Camera PAL/NTSC IP Camera Input 16+8 Channel, each channel up to 6MP Audio In/Out 1/1, RCA Reuse audio in/out, RCA Two-way Talk Recording H.265+/H.265/H.264+/H.264 Compression Resolution 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF Main stream: All channel 5M-N@10fps/4MN@15fps/1080P@15fps, 108 Record Rate 0N/720P/960H/D1/CIF@25/30fps Sub stream: D1/CIF(1 fps-15 fps) Bit Rate 32 kbps-6144 kbps Per Channel Manual, Schedule (General, Continuous), MD (Video Record Mode detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1min-60 min (default: 60 min), Pre-record: 1 sec-30 sec, Record Interval Post-record: 10 sec-300 sec Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM Audio Sample Rate 8 KHz, 16 bit Per Channel Audio Bit Rate 64 kbps Per Channel Display 1 HDMI, 1 VGA, 1 TV Interface HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, Resolution 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25 Camera title, Time, Video loss, Camera lock, Motion OSD detection, Recording Network 1 RJ-45 Port (1000M) Interface HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Network Function Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users iPhone, iPad, Android Smart Phone

ONVIF 16.12, CGI Conformant

Interoperability

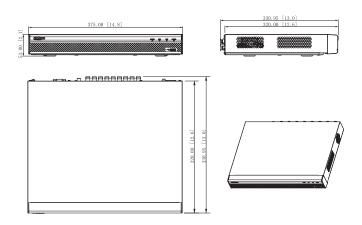
Video Detection and Alarm Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Trigger Events Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Video Detection Tampering and Diagnosis Alarm input N/A Relay Output N/A Playback and Backup Playback 1/4/9/16 Time /Date, Alarm, MD and Exact Search (accurate to Search Mode second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Playback Function Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network Backup Mode Storage Internal HDD 2 SATA Ports, up to 10TB capacity N/A eSATA Auxiliary Interface 1 USB 2.0, 1 USB 3.0 USB RS232 N/A 1 Port, for PTZ Control RS485 Electrical 100V-250V AC 190W Power Supply Power Consumption <12W (without HDD) Construction Dimensions 1U, 375.0 mm × 328.0 mm × 50.0 mm (14.8" × 12.9" × 2.0") $(W \times L \times H)$ Net Weight 2.75 kg (6.0 lb) (without HDD) 3.98 Kg (8.8 lb) Gross Weight 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 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Third-party Support Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Certifications FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024

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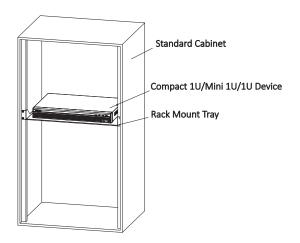
Ordering Information

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])

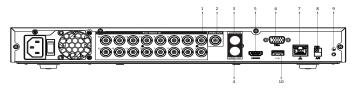


Installation on Rack Mount Tray



Rear Panel

DH-XVR5216AN-X-16P



- VIDEO IN
 VIDEO OUT
- 3 AUDIO IN, RCA Connector
- 4 AUDIO OUT, RCA Connector
- 5 HDMI Interface
- 6 VGA Interface
- 7 Network Interface
- 8 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



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