DHI- XVR4216/32AN-X

16/32 Channel Penta-brid 720P Digital Video Recorder

· H.265 video compression
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 18/16 channels IP camera inputs, each channel up to 5MP; Max 72/64Mbps Incoming Bandwidth
· Long transmission distance over coax cable
· Supports 2 SATA HDD, up to 10TB

Lite Series	H.265	16/32CH	1080p HDMI / VGA
Coax Audio	Smart Fan	Plug&Play	P2P

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

H.265 Video Compression
Newly added H.265 video compression ensures the same image quality with only half bitrate and storage compared to H.264.

HDCVI/AHD/TVI/CVBS/IP Auto-detect
The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

5MP Resolution
The XVR supports up to 5MP HD resolution (2560 x 1920) IPC input for recording, live viewing.

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.

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.

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.

Perfect Image Quality
High performance chip provides perfect image quality with better color reproduction.

P2P
Monitor at anytime and anywhere. Easily and conveniently mange the device.
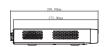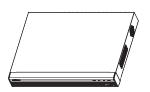
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Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video and Audio

Analog Camera Input	16/32 Channel, BNC
HDCVI Camera	1080P@25/30fps, 720P@25/30fps
AHD Camera	1080P@25/30, 720P@25/30fps
TVI Camera	1080P@25/30, 720P@25/30fps
CVBS Camera	PAL/NTSC
IP Camera Input	16+2/16 Channel, each channel up to 5MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

Recording

Compression	H.265/H.264+/H.264
Resolution	1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main Stream: the 1st channel 1080N/720P(1~25/30fps), others 1080N/720P(1~15fps); 960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps) Sub steram:CIF/QCIF(1~7fps)
Bit Rate	1Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Display

Interface	16CH:1 HDMI, 1 VGA, 32CH:1 HDMI, 1 VGA, 1 TV
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Multi-screen Display	16CH: When IP extension mode not enabled:1/4/8/9/16 When IP extension mode enabled:1/4/8/9/16/25 32CH:1/4/8/9/16/25/36
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Network

Interface	16CH:1 RJ-45 Port (100M) 32CH:1 RJ-45 Port (1000M)
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Alarm input	N/A
Relay Output	N/A

Playback and Backup

Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
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
Backup Mode	USB Device/Network

Storage

Internal HDD	2 SATA Port, up to 10TB capacity
eSATA	N/A

Auxiliary Interface

USB	16CH:2 USB 2.0 32CH:1 USB 2.0 , 1 USB 3.0
RS232	N/A
RS485	1 Port, for PTZ Control

Electrical

Power Supply	16CH: DC12V/4A 32CH: DC12V/5A
Power Consumption	16CH:<15W (Without HDD) 32CH: <20W (Without HDD)

Construction

Dimensions	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")
Net Weight	2.35kg (5.2 lb) (without HDD)
Gross Weight	3.2kg (7.05lb)
Installation	Desktop installation

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH

Third-party Support

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more

Certifications

Certifications	FCC: Part 15 Subpart B
	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
	UL: UL 60950-1

Ordering Information

Type	Part Number	Description
16 Channel XVR	DHI-XVR4216AN-X	16 Channel Penta-brid 720P 1U Digital Video Recorder
32 Channel XVR	DHI-XVR4232AN-X	32 Channel Penta-brid 720P 1U Digital Video Recorder

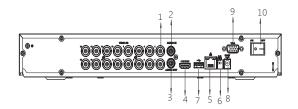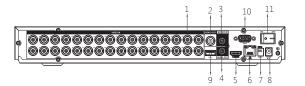## Dimensions (mm)

Rear Panel

DHI-XVR4216AN-X

1	VIDEO IN	6	RS485 Interface
2	AUDIO IN, RCA Connector	7	USB Interface
3	AUDIO OUT, RCA Connector	8	DC 12V Power Input
4	HDMI Interface	9	VGA Interface
5	Network Interface	10	Power Switch

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3	AUDIO IN, RCA Connector	9	USB Interface
4	AUDIO OUT, RCA Connector	10	VGA Interface
5	HDMI Interface	11	Power Switch
6	Network Interface		

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