

PENDVR-ELE32-X

32 Channel 2U DVR



System Overview

This 32 channel DVR is capable of recording HD-TVI, HD-CVI, AHD and up to 8MP IP cameras. Although this recorder is capable of working with higher resolution cams, they will only record in 5M-N at 10fps, 4M-N/1080P at 15fps, and 1080N, 1MP, 960H at 30fps. You can have a total of 32 cameras using a mix of coax technology cameras and IP cameras or you can use it for a total of 32 channels of IP. Thanks to the H.265+ video compression codec, bit rate and storage requirements will be reduced by 90%. Even so, depending on your camera's settings, you'll still need to have plenty of storage space and that's no problem with room for up to 8 SATA drives up to 8TB each.

Features

Smart H.265+

Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

HDCVI/AHD/TVI/CVBS Auto-detect

This unit can auto recognize the signal of the camera without having to change settings.

Coaxial Audio/Upgrade/Alarm

This integrated design can reduce wiring troubles and makes it easier to run audio, upgrade your camera, or trigger alarms all via the coax cable.
*CVI ONLY

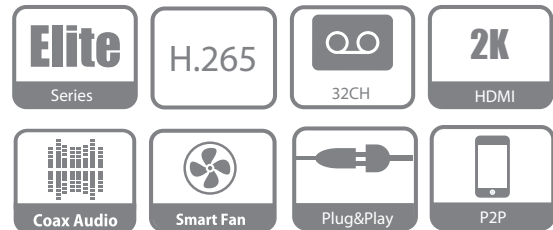
POS Functionality

This function includes POS ticket information overlay and search which can be widely used in retail programs.

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
- Max 32 channels IP camera inputs, each channel up to 8MP; Max 128Mbps incoming bandwidth
- First 16 channels support Tripwire & Intrusion; First 2 channels support Object Abandoned & Missing



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

The spot monitor outputs are separate and in addition to the VGA and HDMI video outputs that these DVRs support. The VGA and HDMI monitor outputs display the menu system and controls of the DVR. Spot outputs always display the live security camera views that you configure.

Intelligent Video System (IVS)

IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

Face Detection

Whether you wish to recognize, identify or verify a person, a camera with facial recognition software is an efficient solution. It can help you improve customer service and protect your assets by identifying important customers or potential perpetrators.

Smart Search

The smart search feature on a security recorder will allow you to skip over video that has motionless areas to get to the footage that you want to review. This is a great feature especially if you record in real time and have multiple cameras.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video and Audio

Analog Camera Input	32 Channel, BNC
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 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	32 Channel, each channel up to 8MP
Audio In/Out	16/1, BNC
Two-way Talk	1 Mic In, 1 Mic Out, BNC

Recording

Compression	H.265+/H.265/H.264+/H.264
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF
Record Rate	Main stream:the 1st & 2nd channel 5M-N (1~10fps), others 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)
Bit Rate	32Kbps ~ 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
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM
Audio Sample Rate	8KHz, 16 bit Per Channel
Audio Bit Rate	64Kbps Per Channel

Display

Interface	2 HDMI ,1 VGA, 1 TV
Resolution	1920×1080, 1280×1024, 1280×720
Multi-screen Display	HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×720
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Network

Interface	2 RJ-45 Ports (1000M)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports 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	16
Relay Output	6

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	8 SATA Ports, up to 10TB capacity
eSATA	N/A

Auxiliary Interface

USB	2 USB 2.0, 2 USB 3.0
RS232	1 port, for PC communication & Keyboard
RS485	1 Port, for PTZ Control
RS422	1 Port, for PTZ Control

Electrical

Power Supply	AC100V-240V, 50/60Hz
Power Consumption (Without HDD)	<35W

Construction

Dimensions	2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7")
Net Weight	7kg (15.4 lb) (without HDD)
Gross Weight	9.8kg (21.6lb)
Installation	Desktop installation/Rack-mounted

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

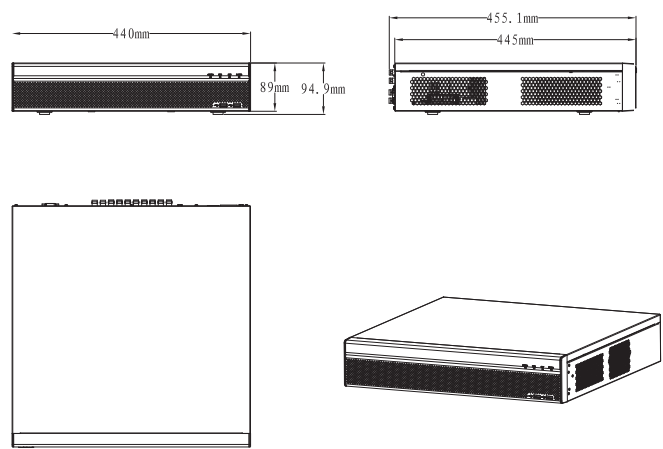
Third-party Support

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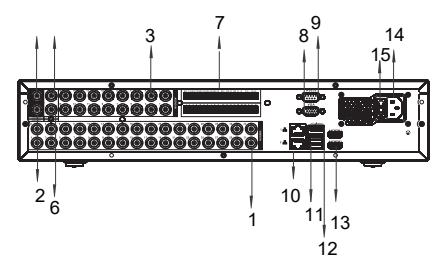
Certifications

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

Dimensions (mm)



Rear Panel



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|---|--------------------------------|----|--------------|
| 1 | VIDEO IN | 9 | RS232 |
| 2 | VIDEO OUT | 10 | VGA port |
| 3 | AUDIO IN, BNC Connector | 11 | 2*USB port |
| 4 | AUDIO OUT, BNC Connector | 12 | eSATA port |
| 5 | MIC IN, BNC Connector | 13 | 2*HDMI port |
| 6 | MIC OUT, BNC Connector | 14 | Power Input |
| 7 | ALARM IN/OUT; RS485;
RS422; | 15 | Power Switch |
| 8 | VGA port | | |