PDVR-E32W8N8-AI 32 Channel 4K DVR



- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Stream Perimeter protection on up to 6 analog channels
- · Stream SMD Plus on up to 32 analog channels
- · Stream Face recognition on up to 6 analog channels
- · IoT & POS functionalities

System Overview

The AI-revolution is now complete across our entire HD DVR line with the release of the new PDVR-E32W8N8-AI. Our most advanced Pentabrid DVR to date, the PDVR-E32W8N8-AI has all the bells and whistles one can ask for. Supporting 4K/8MP resolutions over coax and up to 12MP resolution over IP (at a maximum total bandwidth of 128Mbps) take your video to the next level at crystalline UHD resolution that actually makes use of that fancy new TV you got for Christmas. With dual-HDMI and VGA out, businesses can use the spot-out functionality to create custom second-screen views for lobbies or front-of-house staff. Dual Gigabit Ethernet ports allow installers to keep all their IP cameras off the main network, reducing cross-network traffic for both cameras and other users while providing a natural layer of security to any IP cameras connected to the DVR.



Features

Real Time Face Recognition

With real time face recognition you can use facial features including gender, age, expression, glasses, or even facial hair to identify faces on a real time video stream. This allows you to identify people and also be able to capture a face for storage and record faces with metadata. You can use facial feature filtering while monitoring in real time to show faces with target features.

Perimeter Protection

Perimeter Protection functions significantly improve accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or a mobile client reduces system requirements as well as resources, resulting in greater surveillance system efficiency

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgraded version of SMD that greatly improves the alarm accuracy by loading deep learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when a person or vehicle intrudes.

HDCVI/AHD/TVI/CVBS Auto-detect

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

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.

Audio, Upgrade, Alarm Over COAX

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.

Long Distance Transmission

This recorder supports long distance transmission over coaxial cable and UTP. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

Al Search

Using stored information you can quickly identify people and vehicles from massive video data. This makes it easier to trace back to a certain person vehicle or point in time. Now you can search for targets with ease.



0010 1000

1200m

| Technical Specificati | on | Record Interval | 1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post- |
|----------------------------------|---|---------------------------------|---|
| System | | Audio Compression | record: 10 s–300 s G.711A, G.711U, PCM |
| Main Processor | Embedded Processor | | |
| Operating System | Embedded LINUX | Audio Sample Rate | 8 KHz, 16 bit Per Channel |
| Perimeter Protection | | Audio Bit Rate | 64 Kbps Per Channel |
| Performance | 6 channels, 10 IVS for each channel | Display | |
| | Human/Vehicle secondary recognition for tripwire and | Interface | 2 HDMI, 1 VGA, 1 TV |
| Object classification Al Search | intrusion Search by target classification (Human, Vehicle) | Resolution | HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 |
| Face Recognition | | Multi-screen Display | 1/4/8/9/16/25/36 |
| Performance | 6 channels, max 12 face pictures/sec processing | OSD | Camera title, Time, Video loss, Camera lock, Motion |
| Stranger Mode | Detect strangers' faces (not in device's face database). Similarity threshold can be set manually. | Network | detection, Recording |
| Al Search | Up to 8 target face images search at same time, similarity | Interface | 2 RJ-45 Ports (1000 Mbps) |
| Database Management | threshold can be set for each target face image. Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture. | Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) |
| Database Application | Each database can be applied to video channels | Max. User Access | 128 users |
| | independently . Buzzer, Voice Prompts, Email, Snapshot, Recording, | Smart Phone | iPhone, iPad, Android |
| Trigger Events | Alarm Out, PTZ Activation, etc. | Interoperability | ONVIF 16.12, CGI Conformant |
| SMD Plus | | Video Detection a | nd Alarm |
| Performance | 32 channels | Trigger Events | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Al Search | Search by target classification (Human, Vehicle) | Video Detection | Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, |
| Video and Audio | | | Tampering and Diagnosis |
| Analog Camera Input | 32 channels, BNC | Alarm input | 16 |
| HDCVI Camera Input | 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps | Relay Output | 6 |
| AHD Camera Input | 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps | Playback and Back | |
| TVI Camera Input | 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps | Playback | 1/4/9/16 |
| CVBS Camera Input | PAL/NTSC | Search Mode | Time /Date, Alarm, MD and Exact Search (accurate to second) |
| IP Camera Input | 32 channels, each channel up to 12MP | 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 |
| Audio In/Out | 16/1, BNC | Backup Mode | USB Device/Network |
| Two-way Talk | 1 Mic In, 1 Mic Out, BNC | Storage | |
| Recording | | Internal HDD | 8 SATA Ports, up to 10TB capacity for each disk |
| Compression | Al Coding/H.265+/H.265/H.264+/H.264 | eSATA | 1 Port |
| Resolution | 4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF | Auxiliary Interface | |
| | Main stream: All channel 4K(1fps-7fps); 6MP(1fps-10fps); 5MP(1fps-12fps); 4K-N, 4MP/3MP(1fps-15fps); 4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps); Sub steram:960H(1fps-15fps); D1/CIF(1fps-25/30fps) | USB | 4 USB Ports (2 USB 2.0 , 2 USB 3.0) |
| Record Rate | | RS485 | 1 Port, for PTZ Control |
| Bit Rate | 32 Kbps–6144 Kbps Per Channel | RS232 | 1 Port, For PC Communication & Keyboard |
| Record Mode | Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), | Electrical Power Supply | AC100V-240V, 50/60Hz |
| | Alarm, Stop | Power Supply Power Consumption | |
| | | (Without HDD) | <30W |

Technical Specification

Construction

| Dimensions | 2U, 440 mm × 463 mm × 95 mm (17.32" × 18.23" × 3.73") |
|-----------------------------|--|
| Net Weight (without HDD) | 7.0 kg (15.5 lb) |
| Gross Weight | 9.6 kg (21.1 lb) |
| Installation | Desktop/racket mounted |

Environmental

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

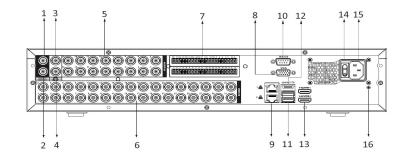
Third-party Support

| | 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 | |
|----------------|---|--|
| Certifications | 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 | |

Rear Panel



- 1 Audio Out
- 3 Mic In
- 5 Audio In
- 7 Alarm Input/Output
- 9 Network Ports
- 11 USB Ports
- 13 HDMI Ports
- 15 Power Input

- 2 Video Out
- 4 Mic Out
- 6 Video In
- 8 VGA Port
- 10 RS-232 Port
- 12 eSATA Port
- 14 Power Switch
- 16 Ground

Dimensions

