

# PENDVR-ELE16C-S

## 16 Channel Pentabrid 1080P Lite 1.5U DVR



- Embedded processor
- H.264+/H.264 dual-stream video compression
- Support HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 5MP
- Max 96Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System



### System Overview

Throughout the years, HDCVI technology has gained in popularity and become a preferred standard for video surveillance, and has never stopped evolving. The 2MP HDCVI presents a much clearer and vivid world. As the perfect solution to upgrade existing video surveillance systems, these DVRs support penta-brid access technology including HDCVI, AHD, TVI, CVBS and IP to effortlessly integrate with popular industry formats, offering an affordable solution loaded with flexible options. Designed as a fully compatible product, these DVRs are able to provide the end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. It is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education.

### Functions

#### Smart H.264+

Smart Codec, H.264+ can reduce bit rate and storage requirements by up to 70% over standard H.264 without having to invest in new cameras.

#### HDCVI/AHD/TVI/CVBS Auto-detect

The DVR can auto recognize the signal from cameras without changing any settings. It makes operation more friendly and convenient.

#### 5MP Resolution

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

### 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)

With built-in intelligent video analytics, the DVR has the ability to detect and analyze moving objects for improved video surveillance. The DVR 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 pre-determined line has been crossed.

### 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. Facial recognition is a perfect complement to your existing surveillance system, enhancing security and/or customer experience in real time.

### Smart Search

This function helps you get more motion detection video during a short time by drawing a region during playback. It is very useful when an emergency occurs.

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## Technical Specification

### System

|                  |                    |
|------------------|--------------------|
| Main Processor   | Embedded Processor |
| Operating System | Embedded LINUX     |

### Display

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| Interface            | 2 HDMI, 1 VGA, 1 TV                                                      |
| Resolution           | 1920×1080, 1280×1024, 1280×720, 1024×768                                 |
| Multi-screen Display | 1/4/8/9/16/25                                                            |
| OSD                  | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

### Video Detection and Alarm

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| Trigger Events  | Recording, PTZ, Tour, Alarm Out, 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     | 8/16/16                                                                                   |
| Relay Output    | 6                                                                                         |

### Playback and Backup

|                   |                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Playback          | 1/4/9/16                                                                                                                                                              |
| Search Mode       | Time /Date, Alarm, MD and Exact Search (accurate to second), Smart search                                                                                             |
| 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 | 4 SATA Ports, up to 8TB capacity for each disk |
| eSATA        | 1 Port                                         |

### Auxiliary Interface

|       |                                         |
|-------|-----------------------------------------|
| USB   | 3 USB Ports (1 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                 |

### 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 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

### Audio and Video

|                    |                                      |
|--------------------|--------------------------------------|
| HDCVI Camera Input | 16 Channel                           |
| IP Camera Input    | 16+8 Channel, each channel up to 5MP |
| Audio In/Out       | 4/1, BNC                             |
| Two-way Talk       | 1 Mic In, 1 Mic Out, BNC             |

### Recording

|                 |                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------|
| Compression     | H.264+/H.264                                                                                                        |
| Resolution      | 1080P, 1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF                                                                  |
| Record Rate     | Main stream: 1080P(1~15fps)<br>1080N/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps)<br>Sub steram:D1/CIF/QCIF(1~15fps) |
| Bit Rate        | 1Kbps ~ 6144Kbps Per Channel                                                                                        |
| Record Mode     | Manual, Schedule (Regular, 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                                     |

### Network

|                  |                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface        | 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 2.42, CGI Conformant                                                                                                                                         |

### Electrical

|                   |                      |
|-------------------|----------------------|
| Power Supply      | AC100V-240V, 50/60Hz |
| Power Consumption | <30W (Without HDD)   |

### 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  |

### Construction

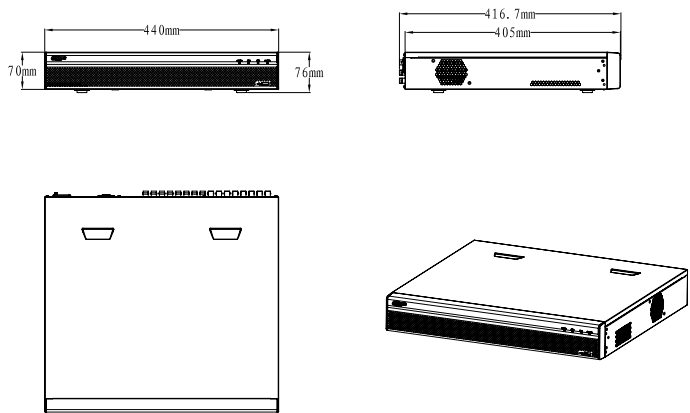
|              |                                              |
|--------------|----------------------------------------------|
| Dimensions   | 1.5U, 440mm×417mm×76mm (17.3"x 16.4" x 3.0") |
| Net Weight   | 6kg (13.23lb) (without HDD)                  |
| Gross Weight | 7kg (15.43lb)                                |
| Installation | Desktop installation/Rack-mounted            |

### Certifications

|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Certifications | FCC: Part 15, Subpart B: 2015                                                                                   |
|                | CE: EN 55032:2015(Class B), EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014, EN 61000-3-2:2014, EN61000-3-3:2013 |
|                | UL:EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013                                                     |

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## Dimensions (mm)



## Rear Panel

