# NVR-E8L1P8
## 8 Ch E Series PoE Mini 4K NVR

· Smart H.265+/H.265/Smart H.264+/H.264
· Max 80Mbps Incoming Bandwidth
· Up to 8MP Resolution for Preview and Playback
· 8 channels 1080p @30 fps. decoding
· HDMI/VGA simultaneous video output

## System Overview

The NVR-E8L1P8 is an 8 channel mini NVR with 8 ports of PoE built right in, allowing you to eliminate extra cabling as you can power your cameras directly from the back of the unit. Connect up to 8 IP cameras, which can range in resolution from 1MP all the way up to 8MP or 4K. You can connect the NVR to a monitor using either an HDMI or VGA connection allowing you to complete your security camera setup. You can also utilize your unit for remote monitoring with your phone, tablet or computer as long as you have an internet connection.

SMD Plus    Face Detection    Perimeter Protection    People Counting    HDMI

## Features

### Perimeter Protection
These functions significantly improve accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection it also 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.

### People Counting
This feature counts the number of people that go in a specified region and the number of people that come out. This is perfect for businesses, banks and anybody who wants to monitor the amount of people coming and going.

### SMART H.265+
Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments, it can also greatly reduce transmission bit rate, storage capacity to improve the overall system.

### 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.

### SMD Plus
SMD Plus, (Smart Motion Detection Plus), is an upgraded version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm that helps analyzes person and vehicle shapes based on motion.

Onvif

## Technical Specification

### System

| | |
|---|---|
| Main Processor | Industrial-grade embedded processor |
| OS | Embedded Linux |
| Operation Interface | Web/operating in local GUI |

### Perimeter Protection by Camera

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|---|---|
| Performance | 8 channels |
| AI Search | Search for pictures by channel, time and event type |

### Face Detection by Camera

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|---|---|
| Performance | 4 channels |
| Face Attributes | 6 attributes: Gender, age, glasses, expression, mouth mask, and beard |
| AI Search | Search for pictures by channel, time and face attributes |

### SMD Plus by Camera

| | |
|---|---|
| Performance | 8 channels |
| AI Search | Search by target classification (human, vehicle) |

### Video

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|---|---|
| Access Channel | 8 |
| Network Bandwidth | Access: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps |
| Resolution | 8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1 |
| Decoding Capability | 8 × 1080p@30 fps |
| Video Output | 1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI |
| Multi-screen Display | 1, 4, 8, 9 views |
| Third-party Camera Access | ONVIF; RTSP |

### Compression

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|---|---|
| Video | Smart H.265/H.265/Smart H.264/H.264/MJPEG |
| Audio | PCM/G711A/G711U/G726/AAC |

### Network

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|---|---|
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register |
| Mobile Phone Access | Android; iOS |
| Interoperability | ONVIF(profile T/S/G); CGI; SDK |
| Browser | Chrome; IE9 or later; firefox |

### Record Playback

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|---|---|
| Multi-channel Playback | Up to 8 channels for playback |
| Record Mode | Manual record; alarm recording; SMD recording; smart recording |
| Storage | Local HDD; network |
| Backup | USB storage device |

| | |
|---|---|
| Playback Function | 1. Play/pause/stop/slow/quick/backward/by frame 2. Full screen, backup (video clip/file), partial zoom in, and audio on/off |

### Storage

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|---|---|
| Disk Group | Yes |

### Alarm

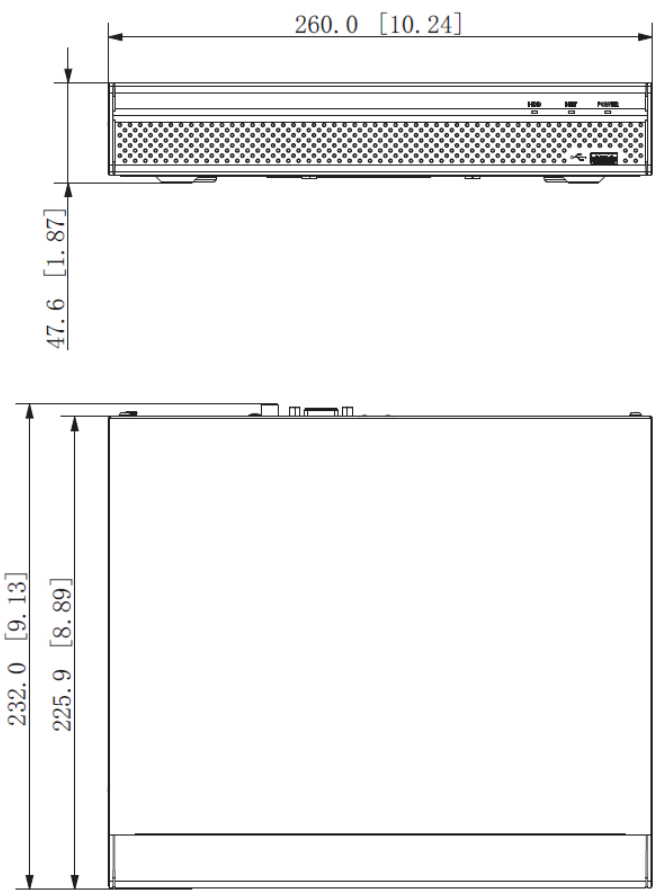| | |
|---|---|
| General Alarm | Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm |
| Anomaly Alarm | Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception |
| Intelligent Alarm | Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms |
| Alarm Linkage | Recording, snapshot, audio, buzzer, log, preset, and email |

### External Port

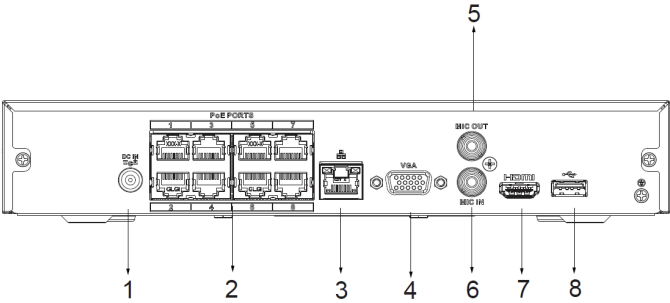| | |
|---|---|
| Audio Input | 1 × RCA input |
| Audio Output | 1 × RCA output |
| HDD | 1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature |
| USB | 2 (1 × front USB2.0; 1 × back USB2.0) |
| HDMI | 1 (supports up to 4K resolution output) |
| VGA | 1 |
| Network | 1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port |
| POE | 8 |

### General Parameter

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|---|---|
| Power Supply | DC48 V/53 V, 2A/1.8 A |
| Power Consumption | < 10 W (HDD not included, idling) Total output power of PoE is 72W, the maximum output power of a single port is 25.5W |
| Net Weight | 0.92 kg (2.03 lb) |
| Gross Weight | 2.07 kg (4.56 lb) |
| Product Dimensions | 260 mm × 232.5 mm × 50.3 mm (10.24" × 9.15" × 1.98") (W × L × H) |
| Package Dimensions | 117 mm × 373 mm × 307 mm (4.61" × 14.69" × 12.09") (W × L × H) |
| Operating Conditions | −10 °C to +55 °C (+10 °F to +131 °F) |
| Storage Conditions | 0 °C to +40 °C (32 °F to 104 °F) |
| Operating Humidity | 10%~93% |
| Storage Humidity | 30%~85% |
| Operating Altitude | 3000 m (9842.52 ft) |
| Installation | Desktop mounted |
| Certifications | CE: EN62368-1; EN55032,EN55024, EN55035, EN61000-3-2, EN61000-3-3 EN50130-4 FCC: Part 15 Subpart B |

## Dimensions

260.0 [10.24]

47.6 [1.87]

232.0 [9.13]

225.9 [8.89]

## Rear Panel



| | | |
|---|---|---|
| 1 | DC Power Input | |
| 3 | Network Port | |
| 5 | AUDIO IN, RCA Connector | |
| 7 | HDMI Port | |

| | |
|---|---|
| 2 | PoE Ports |
| 4 | VGA Port |
| 6 | AUDIO OUT, RCA Connector |
| 8 | USB Port |