

# NVR-ELE16M-16P4KS2

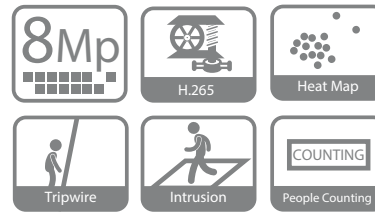
## 16Ch 4K NVR W/ 16 Ports PoE



### System Overview

This 16 Channel NVR can record 16 IP cameras up to 8MP each. With a powerful Quad Core processor and a trouble free Linux Operating System, this NVR is made to handle recording and viewing high definition cameras 24 hours a day. It can hold up to 2 hard drives each up to 8TB. With 2 USB ports, you'll also have the ability to plug in a flash drive to copy and share smaller amounts of footage as needed.

- H.265/H.264 codec decoding
- Max 200Mbps Incoming Bandwidth
- Up to 8MP Resolution for Preview and Playback
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output
- Support IPC UPnP, 16PoE ports



### Features

#### High Efficiency Video Coding (H.265)

The H.265 video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

#### 4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

#### 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.

#### ANR (Automatic Network Replenishment Technology)

NVRs with the ANR function can automatically store video data on the IP camera storage card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

#### Easy4ip

The Easy4ip app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere!

## Technical Specification

### System

|                  |                              |
|------------------|------------------------------|
| Main Processor   | Quad-core embedded processor |
| Operating System | Embedded LINUX               |

### Aduio and Video

|                 |                                        |
|-----------------|----------------------------------------|
| IP Camera Input | 16 Channel                             |
| Two-way Talk    | 1 Channel Input, 1 Channel Output, RCA |

### Display

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Interface            | 1 HDMI, 1 VGA                                                |
| Resolution           | HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720              |
|                      | VGA: 1920×1080, 1280×1024, 1280×720                          |
| Decoding Capacity    | 2ch@4K 30fps, 8ch@1080P 30fps                                |
| Multi-screen Display | 1/4/8/9/16                                                   |
|                      |                                                              |
| OSD                  | Camera title, Time, Camera lock, Motion detection, Recording |

### Recording

|                 |                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------|
| Compression     | H.265/ H.264                                                                                                |
| Resolution      | 8Mp/ 6Mp/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P etc.                                                            |
| Record Rate     | 200Mbps                                                                                                     |
| Bit Rate        | 16Kbps ~ 20Mbps Per Channel                                                                                 |
| Record Mode     | Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Tampering, Video Loss), Stop |
| Record Interval | 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec                            |

### Video Detection and Alarm

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Trigger Events  | Recording, PTZ, Tour, Video Push, Email, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering       |
| Alarm input     | 4 Channel                                                                 |
| Relay Output    | 2 Channel                                                                 |

### Playback and Backup

|                   |                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Playback          | 1/4/9/16                                                                                                                                             |
| Search Mode       | Time /Date, 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, Backup Selection, Digital Zoom |
| Backup Mode       | USB Device/Network                                                                                                                                   |

### Third-party Support

|                     |                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Third-party Support | Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|

### Network

|                  |                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface        | 1 RJ-45 Port (10/100/1000Mbps)                                                                                                                                         |
| Ethernet Port    | 1 Independent 1000Mbps Ethernet Port                                                                                                                                   |
| PoE              | 16 ports (IEEE802.3at/af)                                                                                                                                              |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4ip |
| Max. User Access | 128 users                                                                                                                                                              |
| Smart Phone      | iPhone, iPad, Android                                                                                                                                                  |
| Interoperability | ONVIF 2.4, SDK, CGI                                                                                                                                                    |

### Storage

|              |                                                    |
|--------------|----------------------------------------------------|
| Internal HDD | 2 SATA III Ports, Up to 8 TB capacity for each HDD |
| HDD Mode     | Single                                             |

### Auxiliary Interface

|       |                             |
|-------|-----------------------------|
| USB   | 2 ports(1 USB2.0, 1 USB3.0) |
| RS232 | 1 Channel                   |
| RS485 | N/A                         |

### Electrical

|                   |                                               |
|-------------------|-----------------------------------------------|
| Power Supply      | AC100V ~ 240V, 50 ~ 60 Hz                     |
| Power Consumption | NVR: < 13.2W(without HDD)                     |
|                   | PoE: Max 25.5w for single port, 130w in total |

### Environmental

|                      |                                             |
|----------------------|---------------------------------------------|
| Operating Conditions | -10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa |
| Storage Conditions   | -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH   |

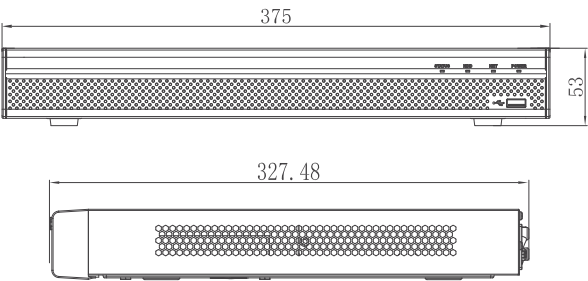
### Construction

|              |                                              |
|--------------|----------------------------------------------|
| Dimensions   | 1U, 375mm×327.5mm×53mm (14.8" x 12.9" x2.1") |
| Net Weight   | 2.6kg (5.7 lb) (without HDD)                 |
| Gross Weight | 4kg(8.8 lb)(without HDD)                     |

### Certifications

|     |                                        |
|-----|----------------------------------------|
| CE  | EN55032, EN55024, EN50130-4, EN60950-1 |
| FCC | Part 15 Subpart B, ANSI C63.4-2014     |
| UL  | UL60950-1                              |

**Dimensions (mm)**



**Rear Panel**

