

# UN-NVR4232

## 32 Channel 1U 2HDDs Network Video Recorder



- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- AI by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as setting parameters, getting information, and upgrading IPC of the same model in batches

## Features and Functions

### Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

### Face Detection by Camera

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

### SMD Plus by Camera

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

### People Counting by Camera

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

### Smart Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.



Specifications

Technical Specification

System

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

Perimeter Protection by Camera

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

Face Detection by Camera

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| 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 | 12 channels                                      |
| AI Search   | Search by target classification (human, vehicle) |

Video

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Access Channel            | 32                                                                                           |
| Network Bandwidth         | Access: 160 Mbps; Storage: 128 Mbps; Forward: 48 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, 16, 25, 32 views                                                                 |
| Third-party Camera Access | ONVIF; RTSP                                                                                  |

Compression

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

Network

|                     |                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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    | CGI; SDK                                                                                                                                                                                 |
| Browser             | Chrome; IE9 or later; firefox                                                                                                                                                            |

Record Playback

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Multi-channel Playback | Up to 16 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<br>2. Full screen, backup (video clip/file), partial zoom in, and audio on/off |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|

Storage

|            |     |
|------------|-----|
| 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, local external alarm output, audio, buzzer, log, preset, and email                              |

External Port

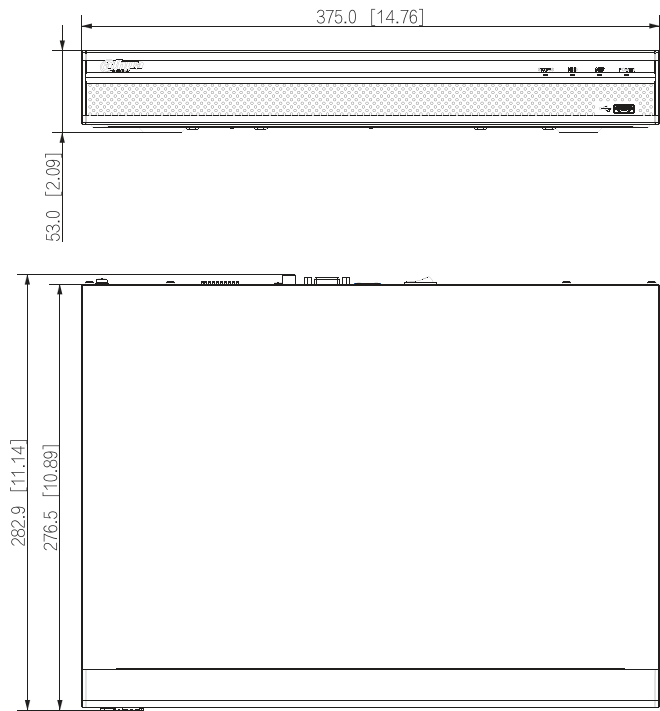
|              |                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------|
| Audio Input  | 1 × RCA input                                                                                                |
| Audio Output | 1 × RCA output                                                                                               |
| HDD          | 2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature |
| Alarm Input  | 4                                                                                                            |
| Alarm Output | 2                                                                                                            |
| USB          | 2 (1 × front USB2.0; 1 × back USB2.0)                                                                        |
| HDMI         | 1 (supports up to 4K resolution output)                                                                      |
| VGA          | 1                                                                                                            |
| Network      | 1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port                                                      |

General Parameter

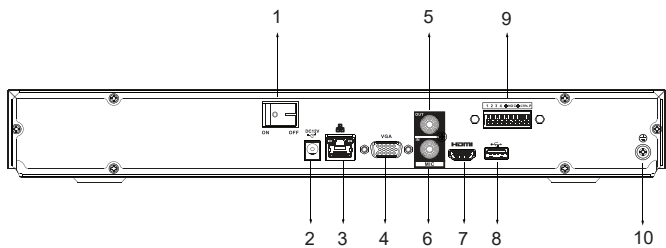
|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| Power Supply         | 12 V DC, 4A                                                                                           |
| Power Consumption    | < 5.6 W (HDD not included, idling)                                                                    |
| Net Weight           | 1.5 kg (3.31 lb)                                                                                      |
| Gross Weight         | 2.6 kg (5.73 lb)                                                                                      |
| Product Dimensions   | 375.0 mm × 282.9 mm x 53.0 mm (14.76" × 11.14" × 2.09") (W × L × H)                                   |
| Package Dimensions   | 433 mm × 140 mm × 363 mm (17.05" × 5.51" × 14.29") (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/Rack mount                                                                                    |
| Certifications       | CE: EN62368-1; EN55032,EN55024, EN55035, EN61000-3-2, EN61000-3-3 EN50130-4<br>FCC: Part 15 Subpart B |

| Ordering Information |            |                                            |
|----------------------|------------|--------------------------------------------|
| Type                 | Model      | Description                                |
| 32 Channel NVR       | UN-NVR4232 | 32 Channel 1U 2HDDs Network Video Recorder |

Dimensions (mm[inch])



Panels



- |   |                          |    |                         |
|---|--------------------------|----|-------------------------|
| 1 | Power Switch             | 2  | Power Input             |
| 3 | Network Port             | 4  | VGA Port                |
| 5 | AUDIO OUT, RCA Connector | 6  | AUDIO IN, RCA Connector |
| 7 | HDMI Port                | 8  | USB Port                |
| 9 | Alarm In/Out             | 10 | Ground                  |

