

# Network Video Recorder

## NVR824-R Series



## Features

- Support Ultra 265/H.265/H.264 video formats
- 128/256-channel input
- Support 2-ch HDMI, 1-ch VGA, HDMI at up to 4K(3840x2160) resolution
- HDMI1, HDMI2 and VGA independent outputs provided
- Up to 12 Megapixels resolution recording
- Redundant power supply optional
- Support HDD hot swap with RAID 0, 1, 5, 6, 10, 50, 60 storage scheme configurable
- Support 2 miniSAS Interfaces
- Support 12V power output
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade
- Support N+1 Hot spare

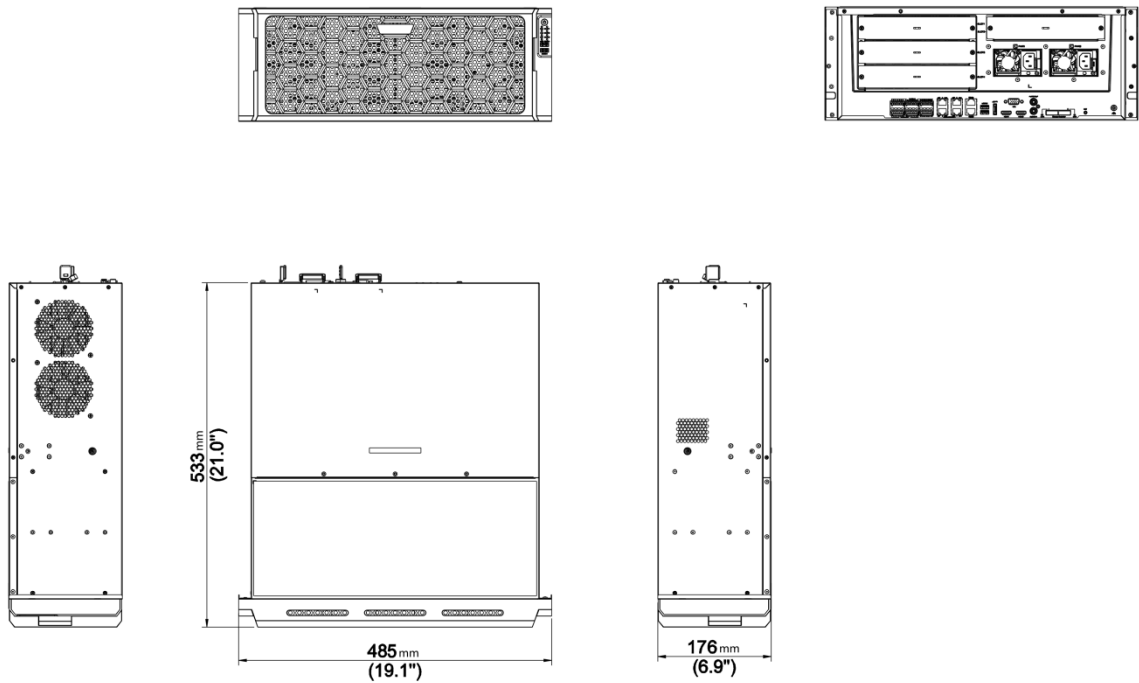
## Specifications

| Model                           | NVR824-128R                                                                                                                                                                                                                                                       | NVR824-256R |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Decoding                        |                                                                                                                                                                                                                                                                   |             |
| Decoding Format                 | Ultra 265, H.265, H.264                                                                                                                                                                                                                                           |             |
| Decoding Capability             | 3 x 12MP@30, 5 x 4K@30, 20 x 1080P@30, 24 x 1080P@25, 40 x 960P@25, 45 x 720P@30, 54 x 720P@25, 96 x D1                                                                                                                                                           |             |
| Decoding Capability Description | The resolution of each channel cannot exceed 4096 pixels in length or width, For VGA/HDMI independent output, the VGA live video is output by default. To output the highest resolution video from the HDMI port, please clear the VGA video on the preview page. |             |

|                               |                                                                                                                                                                                                                                                                                                                                                                               |        |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Audio Compression             | G.711A, G.711U                                                                                                                                                                                                                                                                                                                                                                |        |
| Network                       |                                                                                                                                                                                                                                                                                                                                                                               |        |
| Incoming Bandwidth            | 768 Mbps                                                                                                                                                                                                                                                                                                                                                                      |        |
| Outgoing Bandwidth            | 768 Mbps                                                                                                                                                                                                                                                                                                                                                                      |        |
| Remote Users                  | 128                                                                                                                                                                                                                                                                                                                                                                           |        |
| Protocols                     | TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, RTSP, 802.1x, IPv6, IPv4                                                                                                                                                                                                                                                                        |        |
| Browser (Plugin)              | IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+                                                                                                                                                                                                                                                                                                                                 |        |
| Video/Audio Input             |                                                                                                                                                                                                                                                                                                                                                                               |        |
| IP Video Input                | 128-ch                                                                                                                                                                                                                                                                                                                                                                        | 256-ch |
| RCA Audio Input               | 1-ch                                                                                                                                                                                                                                                                                                                                                                          |        |
| Video/Audio Output            |                                                                                                                                                                                                                                                                                                                                                                               |        |
| HDMI Output                   | 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz                                                                                                                                                                                                                                        |        |
| VGA Output                    | 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz                                                                                                                                                                                                                                                                |        |
| RCA Audio Output              | 1-ch                                                                                                                                                                                                                                                                                                                                                                          |        |
| Liveview Display              | VGA:1/4/6/8/9/16/25/36, HDMI1/HDMI2:1/4/6/8/9/16/25/36/64                                                                                                                                                                                                                                                                                                                     |        |
| Corridor Mode Screen          | 3/4/5/7/9/10/12/16/32                                                                                                                                                                                                                                                                                                                                                         |        |
| Two-way Audio                 |                                                                                                                                                                                                                                                                                                                                                                               |        |
| Two-way Audio                 | 1-ch, RCA (Using the audio input and output)                                                                                                                                                                                                                                                                                                                                  |        |
| Snapshot                      |                                                                                                                                                                                                                                                                                                                                                                               |        |
| FTP/Schedule/Event Snapshot   | Full-ch snapshot (max. 4000 × 3000 video resolution, with snapshot resolution same as the video resolution)                                                                                                                                                                                                                                                                   |        |
| Recording                     |                                                                                                                                                                                                                                                                                                                                                                               |        |
| Recording Resolution          | 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF                                                                                                                                                                                                                                                                                                                    |        |
| Synchronous Playback in Local | 16-ch                                                                                                                                                                                                                                                                                                                                                                         |        |
| Smart                         |                                                                                                                                                                                                                                                                                                                                                                               |        |
| VCA Detection by IPC          | Face Detection, Face Comparison, Vehicle Detection, SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area), Ultra Motion Detection (UMD), Temperature Detection (Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection), People Counting (People Flow Counting, Crowd Density Monitoring), Video Metadata, Traffic Monitoring |        |
| Smart by NVR                  | In the Smart Card datasheet                                                                                                                                                                                                                                                                                                                                                   |        |
| VCA Search                    | Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report                                                                                                                                                                                                                       |        |
| Smart by IPC                  | All channels (up to 64 images/s in total)Face Detection, Face Comparison, Vehicle Detection, Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring                                                                                                                                                                                                              |        |
| Vehicle Picture Library       | Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total                                                                                                                                                                                                                                                                                                |        |
| SIP by NVR                    | In the Smart Card datasheet                                                                                                                                                                                                                                                                                                                                                   |        |
| Capacity of Snapshot Records  | 5 millions records for face snapshot, 5 millions records for vehicle snapshot, 2 millions records for SIP                                                                                                                                                                                                                                                                     |        |
| Alarm                         |                                                                                                                                                                                                                                                                                                                                                                               |        |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Alarm                   | Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion Detection, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection                                                                                                                                                                                                                                 |
| Alert Alarm                     | IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, High CPU Temperature, High Motherboard Temperature, Array Damaged, Array Degraded                                                                                                                                                                                       |
| GUI Language                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| GUI Language                    | 38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian |
| Hard Disk                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SATA                            | 24 SATA interfaces                                                                                                                                                                                                                                                                                                                                                                                                        |
| Capacity                        | Up to 16 TB for each HDD (The maximum HDD capacity varies with environment temperature)                                                                                                                                                                                                                                                                                                                                   |
| Disk Array Type                 | RAID 0, 1, 5, 6, 10, 50, 60                                                                                                                                                                                                                                                                                                                                                                                               |
| Hot Swap                        | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| External Interface              |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Network Interface               | 4 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface                                                                                                                                                                                                                                                                                                                                                                 |
| USB                             | Front panel: 2 × USB2.0, Rear panel: 2 × USB3.0                                                                                                                                                                                                                                                                                                                                                                           |
| RS485                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RS232                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alarm In                        | 24-ch                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alarm Out                       | 8-ch                                                                                                                                                                                                                                                                                                                                                                                                                      |
| eSATA                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| miniSAS                         | 2                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Extension Board                 | 4                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power Output                    | 12 V                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power Supply                    | AC 100 to 240 V                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power Switch                    | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Redundant Power Supply          | Support                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Working Environment             |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Working Temperature             | -10 °C to 50 °C (14 °F to 122 °F)                                                                                                                                                                                                                                                                                                                                                                                         |
| Working Humidity                | ≤ 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power Consumption (without HDD) | ≤ 70W                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Weight (without HDD)            | ≤ 12.5Kg (27.56lb)                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions                      | 484.6mm × 533mm × 175.5mm (19.1"×21.0"×6.9")                                                                                                                                                                                                                                                                                                                                                                              |
| Certification                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Certification                   | CE; FCC; UL; RoHS; WEEE                                                                                                                                                                                                                                                                                                                                                                                                   |
| CE                              | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035                                                                                                                                                                                                                                                                                                                                                                        |
| FCC                             | Part15 Subpart B                                                                                                                                                                                                                                                                                                                                                                                                          |

# Dimensions

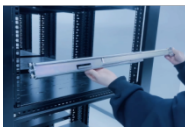


# Accessories

**FB-HD04-B-NB**  
4-ch HDMI Output Decoding Card



SL-A  
Slide Rail



**FB-HD07-B-NB**  
7-ch HDMI Output Decoding Card



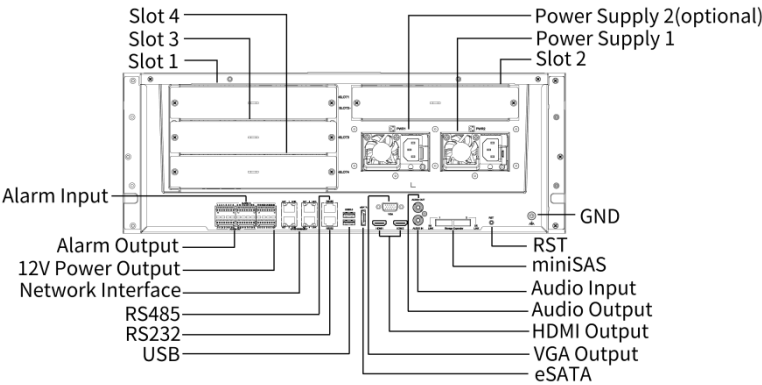
PWR-DC12-550A-IN  
550W Power Accessories Module



**DEU1016-B**  
16 HDDs 3U Disk Enclosure



# Rear Panel



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