# NVR2821-04B/16HI

## 4-Bay H.265 4K AI Professional Network Video Recorder

## Features

**High-performance, High-capacity**
- H.265 supported
- 4 x 4K@30fps / 16 x 1080p@30fps video decoding capability
- Up to 32 channel
- Up to 320Mbps incoming bandwidth
- 256Mbps output bandwidth
- 16 user access simultaneously
- Max. 4 HDDs up to 32TB storage

**AI**
- Supports deep learning algorithm
- Supports up to 50,000 face detection comparison library
- Supports up to 100,000 LPR detection comparison library
- Real-time multiple face and LPR matching
- Supports searching picture by face picture

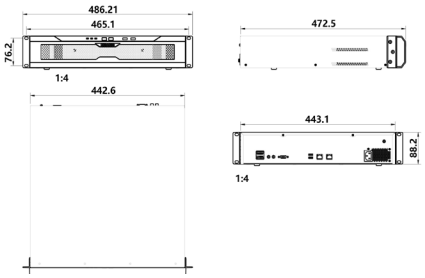
**Easy to install**
- Auto network organizing
- Built-in DHCP server

**High reliability**
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

**Abundant functions and features**
- HDMI/VGA simultaneously output different content
- E-Map, TV-Wall supported
- Bi-directional audio, Broadcasting
- NAT
- Alarm management
- Free CMS (V Station), supports 128 NVR simultaneously
- CMS supports 6 screens simultaneously (4 x Live viewing, 1 x E-Map, 1 x TV-Wall)

## Dimensions

Units:mm




## Specifications

| | NVR2821-04009B/16HI | NVR2821-04016B/16HI | NVR2821-04032B/16HI |
|---|---|---|---|
| **Video/Audio Input** | | | |
| IP Camera Input | 9 channel | 16 channel | 32 channel |
| Resolution | 8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF | | |
| Compression | H.265 / H.264 | | |
| Protocols | Onvif, RTSP, KEDACOM | | |
| Bit rate | 64kbps ~ 16384kbps | | |
| Incoming Bandwidth | 90Mbps | 160Mbps | 320Mbps |
| **Live Viewing** | | | |
| Local Display | 1 x HDMI, 1 x VGA, simultaneously output different content | | |
| Multi Screen Display Local monitor(Main / Secondary): | 1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9 | 1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16 | 1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16 |
| Multi Screen Display Client | up to 4 screen simultaneously: 1 ~ 64 Multiple Layouts | | |
| E-Map | Live Viewing in E-Map (V Station) | | |
| Function | E-PTZ / Scheme (V Station) | | |
| **Recording** | | | |
| Resolution | 8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF | | |
| Mode | Manual / Continuous / Schedule / Event (Pre / Post) | | |
| Event Trigger | Supported | | |
| Tag | Supported | | |
| Reliability | Automatic Network Replenishment (ANR) | | |
| **Search & Playback** | | | |
| Search Mode | Date and time (Calendar) / Event | | |
| Resolution | 8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF | | |
| Playback(Local Monitor) | 4 x 4K@30fps / 16 x 1080p@30fps | | |
| Playback(Client) | up to 16 x 4K@30fps | | |
| Synchronize Playback (Local Monitor) | 4 x 4K@30fps / 16 x 1080p@30fps | | |
| Synchronize Playback (Client) | up to 16 x 4K@30fps | | |
| Function | Slow forward / Fast forward / Loop / Single frame / E-PTZ / Slice playback | | |
| **Storage** | | | |
| Max. Internal HDDs | 4 x 3.5" HDD | | |
| | Max. 32TB (up to 8TB/each) | | |
| RAID | RAID 0/1/5/6/10 | | |
| External | IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional) | | |
| Function | Disk group / Quota / Disk dormancy / Face pictures storage | | |
| **Audio** | | | |
| Compression | G.711a / G.711u / ADPCM / G.722 / G.722.1c / AAC-LC / G.726 | | |
| Bit rate | 32kbps ~ 64kbps | | |
| Audio Function | Bi-directional audio / Dumb / Mute / Broadcasting | | |
| **Alarm** | | | |
| Service Alarm Triggers | Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / Scene change / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge / Face matching | | |
| System Alarm Triggers | Device disconnected / No disk / Disk error / IP Address conflict / Network disconnected / Low speed / Insufficient recording space / MAC address conflict / Insufficient Snapshot storage space | | |
| Alarm Events | Snapshot / Recording / PTZ preset / Buzzer / Email / Link to Client / Alarm caption / Live view in first window / Link to TV Wall / Link to secondary screen / Full screen viewing | | |
| **AI** | | | |
| Face Matching | Real-time / Post-event | | |
| Search Mode | Date and time / Camera / Face image | | |
| Recognitive Camera Channel | Up to 16 | | |
| Face Recognition Access Control Terminal Channel | Up to 9 | Up to 16 | Up to 32 |
| People Counting Sensor Channel | Up to 9 | Up to 16 | Up to 32 |
| LPR Camera Channel | Up to 16 | | |
| Face Picture Library | 64 libraries<br>Up to 50,000 | | |
| LPR Library | Up to 100,000 | | |
| **System** | | | |
| Operating System | Embedded Linux | | |
| User Management | Admin / User | | |
| Log Management | User login / User operation / Alarm / Backup / Update | | |
| Application Programming | V Station SDK | | |
| **Network** | | | |
| Network Protocols | TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNTP, VSIP, UPNP, SMTP, IPv4, IPv6 (optional) | | |
| Viewer Software | CMS (NVR Station) / Web / iOS app / Android app | | |
| Max. User Access | 16 Users | | |
| Output Bandwidth | 256Mbps | | |
| Function | NAT / Multiple network access / Packet loss recovery / Auto network organizing | | |
| Network Test | Supported | | |
| **Interfaces** | | | |
| Ethernet | 3 x Gigabit network port, RJ45 interface | | |
| Video Out | 1 x HDMI (up to 3840 x 2160@60Hz)<br>1 x VGA (up to 1920 x 1080@60Hz) | | |
| Audio In / Out | 1 x RCA Line in / 1 x RCA Line out | | |
| Control | 1 x RS485, 1 x RS232 | | |
| USB | 2 x USB2.0, 2 x USB3.0 | | |
| **Environmental** | | | |
| Operating Temperature | -10°C ~ 55°C / 14°F ~ 131°F | | |
| Operating Humidity | 10% ~ 85% | | |
| **Electrical** | | | |
| Power | 100 ~ 240V AC, 50 ~ 60Hz | | |
| Power Consumption | Max. 150W (HDD not included) | | |
| **Mechanical** | | | |
| Weight | 13kg / 28.66lb (Gross Weight) | | |
| Dimensions | 443 x 461 x 88mm / 17.44" x 18.15" x 3.46" | | |