

# NVR2881-16B/16HI

## 16-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 64 channel
- Up to 420Mbps incoming bandwidth
- 384Mbps output bandwidth
- 16 user access simultaneously
- Max. 16 HDDs up to 128TB storage
- IPSAN storage supported

#### 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

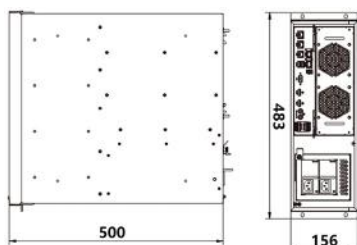
- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

#### 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

|                                                                                  | NVR2881-16016B/16HI                                                                                                                                                                             | NVR2881-16032B/16HI | NVR2881-16064B/16HI |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| <b>Video/Audio Input</b>                                                         |                                                                                                                                                                                                 |                     |                     |
| IP Camera Input                                                                  | 16 channel                                                                                                                                                                                      | 32 channel          | 64 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                                                               | 160Mbps                                                                                                                                                                                         | 320Mbps             | 420Mbps             |
| <b>Live Viewing</b>                                                              |                                                                                                                                                                                                 |                     |                     |
| Local Display                                                                    | 2 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, 16/16                                                                                                                                                          |                     |                     |
| Multi Screen Display Client                                                      | up to 4 screen simultaneously:<br>1 ~ 64 Multiple Layouts                                                                                                                                       |                     |                     |
| E-Map                                                                            | Live Viewing in E-Map (V Station)                                                                                                                                                               |                     |                     |
| Function                                                                         | E-PTZ / Scheme (V Station)                                                                                                                                                                      |                     |                     |
| <b>Recording</b>                                                                 |                                                                                                                                                                                                 |                     |                     |
| 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)                                                                                                                                                           |                     |                     |
| <b>Search &amp; Playback</b>                                                     |                                                                                                                                                                                                 |                     |                     |
| 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                                                                                                                      |                     |                     |
| <b>Storage</b>                                                                   |                                                                                                                                                                                                 |                     |                     |
| Max. Internal HDDs                                                               | 16x 3.5" HDD                                                                                                                                                                                    |                     |                     |
| RAID                                                                             | Max. 128TB (up to 8TB/each)<br>RAID 0/1/5/6/10                                                                                                                                                  |                     |                     |
| External                                                                         | IPSAN (iSCSI), up to 10 x IPSAN, Max. 100T (optional)                                                                                                                                           |                     |                     |
| Function                                                                         | Disk group / Quota / Disk dormancy                                                                                                                                                              |                     |                     |
| <b>Audio</b>                                                                     |                                                                                                                                                                                                 |                     |                     |
| 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                                                                                                                                               |                     |                     |
| <b>Alarm</b>                                                                     |                                                                                                                                                                                                 |                     |                     |
| Alarm input / Video lost / Motion detection / Tampering / Guard line / Defocus / |                                                                                                                                                                                                 |                     |                     |
| Service Alarm Triggers                                                           | 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              |                     |                     |
| <b>AI</b>                                                                        |                                                                                                                                                                                                 |                     |                     |
| Face Matching                                                                    | Real-time / Post-event                                                                                                                                                                          |                     |                     |
| Search Mode                                                                      | Date and time / Camera / Face image                                                                                                                                                             |                     |                     |
| Recognitive Camera Channel                                                       | Up to 16                                                                                                                                                                                        |                     |                     |
| Face Recognition Access                                                          | Up to 16                                                                                                                                                                                        | Up to 32            |                     |
| Control Terminal Channel                                                         |                                                                                                                                                                                                 |                     |                     |
| People Counting Sensor                                                           | Up to 16                                                                                                                                                                                        | Up to 32            |                     |
| Channel                                                                          |                                                                                                                                                                                                 |                     |                     |
| LPR Camera Channel                                                               | Up to 16                                                                                                                                                                                        |                     |                     |
| Face Picture Library                                                             | 64 libraries                                                                                                                                                                                    |                     |                     |
| LPR Library                                                                      | Up to 50,000                                                                                                                                                                                    |                     |                     |
| <b>System</b>                                                                    |                                                                                                                                                                                                 |                     |                     |
| Operating System                                                                 | Embedded Linux                                                                                                                                                                                  |                     |                     |
| User Management                                                                  | Admin / User                                                                                                                                                                                    |                     |                     |
| Log Management                                                                   | User login / User operation / Alarm / Backup / Update                                                                                                                                           |                     |                     |
| Application Programming                                                          | V Station SDK                                                                                                                                                                                   |                     |                     |
| <b>Network</b>                                                                   |                                                                                                                                                                                                 |                     |                     |
| Network Protocols                                                                | TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSP, UPNP, SMTP, IPv4, IPv6 (optional)                                                                                     |                     |                     |
| Viewer Software                                                                  | CMS (NVR Station) / Web / iOS app / Android app                                                                                                                                                 |                     |                     |
| Max. User Access                                                                 | 16 Users                                                                                                                                                                                        |                     |                     |
| Output Bandwidth                                                                 | 384Mbps                                                                                                                                                                                         |                     |                     |
| Function                                                                         | NAT / Multiple network access / Packet loss recovery / Auto network organizing                                                                                                                  |                     |                     |
| Network Test                                                                     | Supported                                                                                                                                                                                       |                     |                     |
| <b>Interfaces</b>                                                                |                                                                                                                                                                                                 |                     |                     |
| Ethernet                                                                         | 3 x Gigabit network port, RJ45 interface                                                                                                                                                        |                     |                     |
| Video Out                                                                        | 2 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                                                                                                                                                              |                     |                     |
| Alarm In / Out                                                                   | 2 x Inputs / 2 x Outputs                                                                                                                                                                        |                     |                     |
| Control                                                                          | 1 x RS485, 1 x RS232                                                                                                                                                                            |                     |                     |
| USB                                                                              | 2 x USB2.0, 2 x USB3.0                                                                                                                                                                          |                     |                     |
| <b>Environmental</b>                                                             |                                                                                                                                                                                                 |                     |                     |
| Operating Temperature                                                            | -10°C ~ 55°C / 14°F ~ 131°F                                                                                                                                                                     |                     |                     |
| Operating Humidity                                                               | 10% ~ 85%                                                                                                                                                                                       |                     |                     |
| <b>Electrical</b>                                                                |                                                                                                                                                                                                 |                     |                     |
| Power                                                                            | 100 ~ 240V AC, 50 ~ 60Hz                                                                                                                                                                        |                     |                     |
| Power Consumption                                                                | Max. 150W (HDD not included)                                                                                                                                                                    |                     |                     |
| <b>Mechanical</b>                                                                |                                                                                                                                                                                                 |                     |                     |
| Weight                                                                           | 20kg / 44lb (HDD not included)                                                                                                                                                                  |                     |                     |
| Dimensions                                                                       | 483 x 500 x 156mm / 19.02" x 19.69" x 6.14"                                                                                                                                                     |                     |                     |