

# NVR2881-16B/8HI

## 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

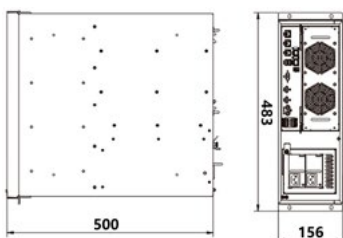
- Embedded Linux
- RAID 0/1/5/6/10
- Redundant Power Supply (optional)
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

#### 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/8HI  | NVR2881-16032B/8HI | NVR2881-16064B/8HI |
|---|---|--------------------|--------------------|
| <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 Function  | Live Viewing in E-Map (V Station)<br>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 / G.726  |                    |                    |
| Bit rate  | 32kbps ~ 64kbps   |                    |                    |
| Audio Function  | Bi-directional audio / Dumb / Mute / Broadcasting   |                    |                    |
| <b>Alarm</b>  |   |                    |                    |
| 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                          |                    |                    |
| <b>AI</b>   |   |                    |                    |
| Face Matching   | Real-time / Post-event  |                    |                    |
| Search Mode   | Date and time / Camera / Face image   |                    |                    |
| Recognitive Camera Channel                            | Up to 8   |                    |                    |
| 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 8   |                    |                    |
| LPR Library   | 64 libraries  |                    |                    |
| Face Picture Library                                  | Up to 50,000  |                    |                    |
| LPR Library   | Up to 100,000   |                    |                    |
| <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, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNMP, VSIP, 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"   |                    |                    |