

# NVR2821-04B/8HI

## 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

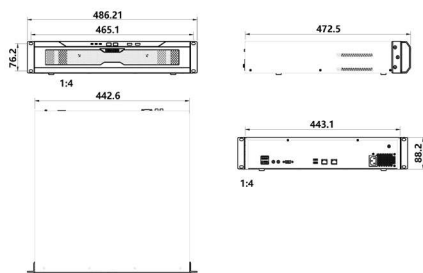
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

#### 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/8HI	NVR2821-04016B/8HI	NVR2821-04032B/8HI
<b>Video/Audio Input</b>	9 channel	16 channel	32 channel
IP Camera Input	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF		
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
<b>Live Viewing</b>			
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 Function	Live Viewing in E-Map (V Station) 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	4 x 3.5" HDD		
RAID	Max. 32TB (up to 8TB/each) 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		
<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>			
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 9	Up to 16	Up to 32
Control Terminal Channel			
People Counting Sensor Channel	Up to 9	Up to 16	Up to 32
LPR Camera Channel	Up to 8		
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, 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		
<b>Interfaces</b>			
Ethernet	3 x Gigabit network port, RJ45 interface		
Video Out	1 x HDMI (up to 3840 x 2160@60Hz)		
Audio In / Out	1 x VGA (up to 1920 x 1080@60Hz) 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		
<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	13kg / 28.66lb (Gross Weight)		
Dimensions	443 x 461 x 88mm / 17.44" x 18.15" x 3.46"		