

# NVR2821-04B/4HI

## 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

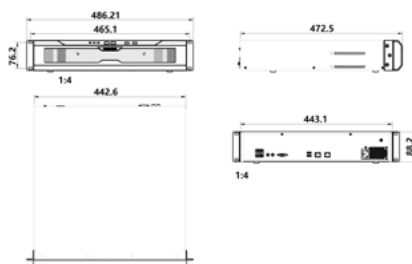
- Embedded Linux
- RAID 0/1/5/6/10
- Supports Automatic Network Replenishment (ANR)
- Supports Packet Loss Recovery (PLR)

#### 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/4HI	NVR2821-04016B/4HI	NVR2821-04032B/4HI
<b>Video/Audio Input</b>			
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
<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,	1/1, 4/4, 1+5/1+5,	1/1, 4/4, 1+5/1+5,
	1+7/1+7, 9/9	1+7/1+7, 9/9, 16/16	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)		
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	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 / 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 4		
Face Recognition Access	Up to 9	Up to 16	Up to 32
Control Terminal Channel			
People Counting Sensor	Up to 9	Up to 16	Up to 32
Channel	Up to 4		
LPR Camera Channel	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, 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) 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		
<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"		