

# NVR16-641600RFAN(2U)

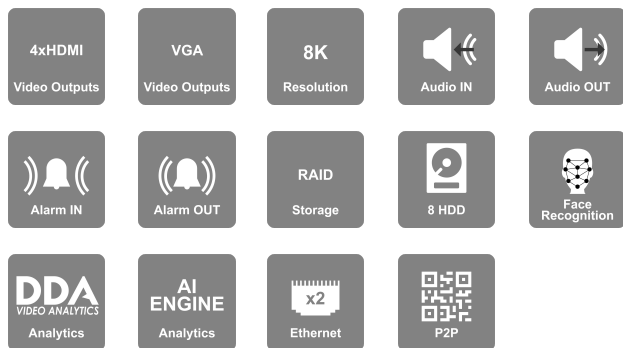
## 64CH 16MP NVR, NDAA-compliant, Face Recognition with Alarms and RAID

Provision-ISR NVR16-641600RFAN(2U) is an easy-to-install solution suitable for big-sized installations (up to 64 channels). The device features 16 alarm inputs + 4 alarm outputs and provides you with everything you need for a trouble-free CCTV project. All hardware components, including the Raid, are validated to meet the demands for reliable high-definition surveillance. This model complies with NDAA demands and ensures that your devices are cyber-protected round the clock with the integrated Check Point Quantum IoT Nano agent that provides an advanced threat prevention layer against the common attack vectors at runtime.

**64**  
CH

**CHECK POINT**  
EMBEDDED

**16**  
MP



## MAIN FEATURES

### Video:

- Input: 64 Channel Support
- 64 Channel Standard Connection (Via RJ-45 Network Port)
- Output: HDMI1 (8K 30/60Hz, 4K, 1080P, 1280×1024) (When the resolution of HDMI1 output is 8K, HDMI2 is unavailable) HDMI2: 4K, 1080P, 1280×1024, 1024×768 HDMI3: 4K, 1080P, 1280×1024, 1024×768 HDMI4: 1080P, 1280×1024, 1024×768 VGA: 1080P 1280×1024, 1024×768 (VGA and HDMI1 output the same video source)

### Bandwidth:

- Incoming: 640Mbps
- Outgoing: 640Mbps

### Decoding Support:

- H.265S/H.265+/H.265/H264

### Analytics:

- Camera Tampering, DDA2 With Object Classification, Line Crossing (DDA / Pixel Based), Sterile Area (DDA / Pixel Based), Object Monitoring, Object Counting (DDA), Crowd Gathering, People Intrusion, Smart Search, Face Recognition (Up to 16 CH), LPR, Thermal (Limited Support).
- Advanced Face Recognition Mode: Supports 4 Non-AI IPCs and performs face detection and recognition.

### Recording:

- 64CH 16MP Real-Time
- FPS: 1600 (PAL) / 1920 (NTSC)

### Playback:

- Local: 16Ch Simultaneously
- Remote: 16Ch Simultaneously

### Audio:

- Input: 1CH + IPC Inputs
- Output: 1CH + IPC Output
- 2 Way Audio

### Alarm:

- Input: 16+IPC
- Output: 4+IPC

### Storage:

- 8 x SATA (Up to 10TB each)
- 2 x E-SATA (Up to 10TB each)
- RAID: (0/1/5/6/10) Support

### USB Port:

- 2 USB 2.0 Port + 1 USB 3.0 Port

### Network:

- 2 x RJ-45: 10/100/1000Mbps Each

### Remarks:

- The following features are based on firmware v1.4.10\_70999 and are subject to firmware version changes.

## SPECIFICATIONS

3rd Party Cyber Protection	
<b>General</b>	Quantum IoT Nano agent by Check Point™
<b>Protection Methods</b>	Shell injection protection, File Monitor, Import-Table Protection, Dynamic-Memory Protection
NDAA Compliant	
<b>NDAA Compliant</b>	Yes
Video	
<b>Video Input</b>	64Ch Over Network
<b>Output</b>	HDMI1 (8K 30/60Hz, 4K, 1080P, 1280x1024) (When the resolution of HDMI1 output is 8K, HDMI2 is unavailable) HDMI2: 4K, 1080P, 1280x1024, 1024x768 HDMI3: 4K, 1080P, 1280x1024, 1024x768 HDMI4: 1080P, 1280x1024, 1024x768 VGA: 1080P 1280x1024, 1024x768 (VGA and HDMI1 output the same video source)
<b>View Mode</b>	Independent*, Up to 32ch Per Monitor (When enabled, NVR based analytics are disabled)
<b>Fish-Eye Dewarp</b>	Local + Web
<b>Decoding Format</b>	H.265 / H.265+ / H.265S / H.264
<b>Decoding Capabilities</b>	1Ch - 16MP ; 4Ch - 12MP ; 9/16Ch - 1MP ; 32Ch - D1 ; 64Ch - D1
Audio	
<b>Audio-specs-Input</b>	1CH RCA (Linear, 1kΩ) + IPC Inputs
<b>audio-specs-Output</b>	1CH RCA (2.0 Vp-p, 1 kΩ) + IPC Outputs
<b>Compression</b>	G.711A/G.711U
<b>Two Way Audio</b>	Yes
Analytics	
<b>Supported Analytics</b>	Camera Tampering, DDA2 With Object Classification, Line Crossing (DDA / Pixel Based), Sterile Area (DDA / Pixel Based), Object Monitoring, Object Counting (DDA), Crowd Gathering, People Intrusion, Smart Search, Face Recognition (Up to 16 CH), LPR, Thermal (Limited Support). Advanced Face Recognition Mode: Supports 4 Non-AI IPCs and performs face detection and recognition.
<b>Analytics Channels (IPC Based)</b>	64Ch (Requires supporting IPC)
<b>Analytic Channels (NVR Based)</b>	Up to 8Ch DDA1 (Sterile Area/Line Crossing) or Up to 4Ch Face Detection + Recognition or Up to 16Ch Face Recognition (or their combinations)
<b>Face Recognition Rate</b>	36 Faces per second (16Ch supported)

**Bandwidth****Incoming**

640Mbps

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<b>Outgoing</b>	640Mbps
<b>Record/ Main Stream</b>	
<b>Real-Time Recording</b>	64CH 16MP Real-Time
<b>Record Type</b>	Video / Video + Audio
<b>Recording Modes</b>	Schedule, Manual, Motion, Sensor, Analytics, POS and all of its combinations
<b>16MP</b>	1920FPS(NTSC)/1600FPS(PAL)
<b>12MP</b>	1920FPS(NTSC)/1600FPS(PAL)
<b>8MP</b>	1920FPS(NTSC)/1600FPS(PAL)
<b>5MP and lower</b>	1920FPS(NTSC)/1600FPS(PAL)
<b>Master stream over network</b>	Up to 64CH@Recording Resolution
<b>Substream</b>	
<b>Resolution substream</b>	Depends on IPC
<b>Remote view</b>	
<b>Max Channel View</b>	320Ch (Limited to Outgoing Bandwidth Capacity)
<b>Remote Applications</b>	
<b>User Access</b>	128 Users online with Professional Authority Management
<b>Mobile App</b>	Provision Cam2 for iOS/Android
<b>PC/Mac Software</b>	Ossia VMS Standard / Enterprise
<b>Plug-in free Web-Browser</b>	Chrome, FireFox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) *P2P WEB connection always requires Plugin
<b>Plug-in based Web-Browser</b>	Internet Explorer
<b>Playback</b>	
<b>Local</b>	16Ch
<b>Remote</b>	16Ch

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<b>Search Mode</b>	DDA Object, Smart Search, LPR, Time-Slice, Time, Event, POS
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## Backup

<b>USB</b>	2 USB 2.0 Port + 1 USB 3.0 Port
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<b>Backup Format</b>	AVI (Unencrypted) / Private Format (Encrypted / Unencrypted)
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## Alarm

<b>Alarm-in</b>	16+IPC
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<b>Alarm-out</b>	4+IPC
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## Storage

<b>HDD</b>	8
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<b>E-Sata Support</b>	2
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<b>RAID</b>	Yes (0/1/5/6/10)
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## PTZ

<b>Connection</b>	Via Network
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<b>Supported Controls</b>	Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus
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<b>RS-485</b>	Yes (C06 Keyboard Connection)
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## Network

<b>Ethernet</b>	2x1000/100/10Mbps self-adaptive Ethernet interface with Fault Tolerance / Dual Network Configuration
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<b>Protocols</b>	TCP/IPv4/IPv6, DHCP, DDNS, NTP, SMTP, SSL/TLS, UPnP, P2P, RTSP, FTP, HTTPS, 820.1X, SNMP, Auto Report (Ossia VMS)
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<b>ONVIF</b>	Full Device Support (Profile T/G, ONVIF Version 20.12)
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## PoE

<b>PoE Ports</b>	N/A
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<b>Speed</b>	N/A
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<b>Standard</b>	N/A
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<b>CCTV Mode</b>	N/A
<b>Total Power</b>	N/A
<b>Max. Power Output (Per Ch.)</b>	N/A
<b>Others</b>	
<b>Power Supply</b>	AC100-240V
<b>Power consumption (No HDD)</b>	50W
<b>Dimension</b>	W436xD445xH90mm
<b>Operation Temperature</b>	0°C~50°C