

# NVR16-128RFAN(3U)

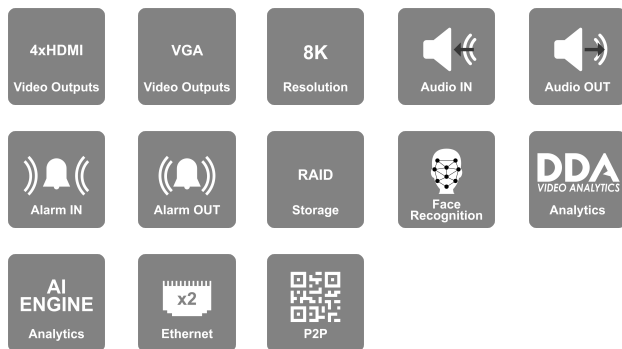
## 128CH 16MP NVR, NDAA-compliant, Face Recognition with Alarms and RAID

Provision-ISR NVR16-128RFAN(3U) is an easy-to-install solution suitable for big-sized installations (up to 128 channels). The device features 24 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.

**128**  
CH

**CHECK POINT**  
EMBEDDED

**16**  
MP



## MAIN FEATURES

### Video:

- Input: 128 Channel Support
- 128 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: 768Mbps
- Outgoing: 768Mbps

### 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:

- 128CH 16MP Real-Time
- FPS: 3200 (PAL) / 3840 (NTSC)

### Playback:

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

### Audio:

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

### Alarm:

- Input: 24+IPC
- Output: 4+IPC

### Storage:

- 16 supports Hot-Swap 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	
General	Quantum IoT Nano agent by Check Point™
Protection Methods	Shell injection protection, File Monitor, Import-Table Protection, Dynamic-Memory Protection
NDAA Compliant	
NDAA Compliant	Yes
Video	
Video Input	128Ch Over Network
Output	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)
View Mode	Independent*, Up to 32ch Per Monitor (When enabled, NVR based analytics are disabled)
Fish-Eye Dewarp	Local + Web
Decoding Format	H.265 / H.265+ / H.265S / H.264
Decoding Capabilities	1Ch – 16MP ; 4Ch – 12MP ; 9/16Ch – 1MP ; 32Ch – D1 ; 64Ch – D1
Audio	
Audio-specs-Input	1CH RCA (Linear, 1kΩ) + IPC Inputs
audio-specs-Output	1CH RCA (2.0 Vp-p, 1 kΩ) + IPC Outputs
Compression	G.711A/G.711U
Two Way Audio	Yes
Analytics	
Supported 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.
Analytics Channels (IPC Based)	128Ch (Requires supporting IPC)
Analytic Channels (NVR Based)	Up to 8Ch DDA1 (Sterile Area/Line Crossing) or Up to 4Ch Face Detection + Recognition or Up to 16Ch Face Recognition (or their combinations)
Face Recognition Rate	36 Faces per second (16Ch supported)

Bandwidth	
Incoming	768Mbps

<b>Outgoing</b>	768Mbps
-----------------	---------

## Record/ Main Stream

<b>Real-Time Recording</b>	128CH 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>	3840FPS(NTSC)/3200FPS(PAL)
<b>12MP</b>	3840FPS(NTSC)/3200FPS(PAL)
<b>8MP</b>	3840FPS(NTSC)/3200FPS(PAL)
<b>5MP and lower</b>	3840FPS(NTSC)/3200FPS(PAL)
<b>Master stream over network</b>	Up to 128CH@Recording Resolution

## Substream

<b>Resolution substream</b>	Depends on IPC
-----------------------------	----------------

## Remote view

<b>Max Channel View</b>	640Ch (Limited to Outgoing Bandwidth Capacity)
-------------------------	--

## Remote Applications

<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 connetion always requires Plugin
<b>Plug-in based Web-Browser</b>	Internet Exporer

## Playback

<b>Local</b>	16Ch
<b>Remote</b>	16Ch

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

## Backup

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

## Alarm

<b>Alarm-in</b>	24+IPC
<b>Alarm-out</b>	4+IPC

## Storage

<b>HDD</b>	16 supports Hot-Swap
<b>E-Sata Support</b>	2
<b>RAID</b>	Yes (0/1/5/6/10)

## PTZ

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

## Network

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

## PoE

<b>PoE Ports</b>	N/A
<b>Speed</b>	N/A
<b>Standard</b>	N/A

# NVR16-128RFAN(3U)

<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>	W437xD483xH143mm
<b>Operation Temperature</b>	0°C~50°C

<b>Main Features</b>	Channels: 128 Over Network Video output: HDMI1 (8K, 4K, 1080P, 1280X1024), HDMI2+HDMI3 (4K, 1080P, 1280X1024), HDMI4+VGA (1080P, 1280×1024, 1024×768) Max. Recording: 64CH 16MP Real Time HDD: 16 SATA (8TB each) with Smart Management, 2 E-SATA Port RAID Support Alarms: 24 In / 8 Out (+ IPC Inputs/Outputs) Audio: 1 In / 1 Out (+ IPC Inputs/Outputs) Video Analytics: Yes (Must be supported by IPC) DDA, LPR and Fish-Eye support
<b>Video Output</b>	4xHDMI+VGA