

# NVR16-128RFAN(3U)

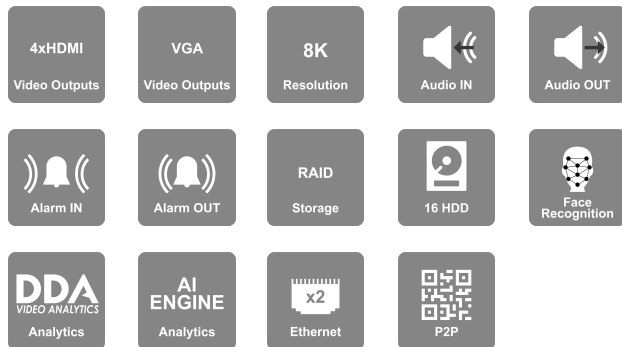
## 128CH 16MP Face Recognition NVR with alarms, RAID support, and NDAA compliance

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.
- 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 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 1.4.12\_78966\_RD250520 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 IP Speaker                                                                                                                                                                                                                                                                                                                    |
| 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. 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) Supported Resolution: 1MP – 4K                                                                                                                                                                                          |

|                       |                                      |
|-----------------------|--------------------------------------|
| 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)<br>*P2P WEB connetion always requires Plugin |
| <b>Plug-in based Web-Browser</b> | Internet Exporer                                                                                                             |

## Playback

|               |      |
|---------------|------|
| <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 |
|--------------------|-------------------------------------------------------------|

## 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               |
| <b>HDD Max Capacity</b>       | 10TB             |
| <b>E-Sata Support</b>         | 2                |
| <b>Total HDD Max Capacity</b> | 180TB            |
| <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 Input + Output (Ossia VMS) |
| <b>ONVIF</b>     | Full Device Support (Profile T/G, ONVIF Version 20.12)                                                                           |

## PoE

|                  |     |
|------------------|-----|
| <b>PoE Ports</b> | N/A |
|------------------|-----|

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|                                    |     |
|------------------------------------|-----|
| <b>Speed</b>                       | N/A |
| <b>Standard</b>                    | N/A |
| <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         |