NVR12-16400PFAN(1U)

16CH 12MP PoE NDAA-Compliant Face Recognition NVR with Alarms

Provision-ISR's NVR12-16400PFAN(1U) is an NDAA-compliant high-performance network video recorder with an integrated 16-channel PoE switch for high-definition surveillance, supporting Face Recognition and advanced Video Analytics (DDA). The device, suitable for small-sized installations (up to 16 channels), features 8 alarm inputs + 4 alarm outputs and provides you with everything you need for a trouble-free CCTV project.

16 CH

CHECK POINT EMBEDDED

12 MP



HDMI Video Outputs | VGA Video Outputs | 4K Resolution | Audio IN | Audio OUT

Alarm IN | Alarm OUT | 2 HDD | Face Recognition | DDA VIDEO ANALYTICS Analytics

AI ENGINE Analytics | PoE | x1 Ethernet | P2P

NDAA | face recognition | POWER OVER ETHERNET | AI ENGINE

MAIN FEATURES

Video:
- Input: 16 Channel Support
- 16 Channel PoE / Standard Network Connection (Via 16 x RJ-45 / Network)
- Output: HDMI (4K@60Hz, 4K@30Hz, 1080P), VGA (1080P, 1280×1024, 1024×768)

Bandwidth:
- Incoming: 160Mbps
- Outgoing: 160Mbps

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, LPR, Thermal (Limited Support).
- Advanced Face Recognition Mode: Supports 2 Non-AI IPCs and performs face detection and recognition.

Recording:
- 16CH 12MP Real-Time
- FPS: 400 (PAL) / 480 (NTSC)

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

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

Alarm:
- Input: 8+IPC
- Output: 4+IPC

Storage:
- 2 x SATA (Up to 10TB each)

USB Port:
- 2 USB 2.0 Port + 1 USB 3.0 Port

Network:
- 1 x RJ-45: 10/100/1000Mbps Each

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

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PROVISION ISR
PROTECTING YOUR PRIVACY

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	16Ch over Network
Output	HDMI (4K@60Hz, 4K@30Hz, 1080P), VGA (1080P, 1280x1024, 1024x768)
View Mode	Mirrored
Fish-Eye Dewarp	Local + Web
Decoding Format	H.265 / H.265+ / H.265S / H.264
Decoding Capabilities	1Ch – 12MP ; 4Ch – 4MP ; 9-16Ch – 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, LPR, Thermal (Limited Support). Advanced Face Recognition Mode: Supports 2 Non-AI IPCs and performs face detection and recognition.
Analytics Channels (IPC Based)	16Ch (Requires supporting IPC)
Analytic Channels (NVR Based)	Up to 2Ch DDA1 (Sterile Area/Line Crossing) or Up to 2Ch Face Detection + Recognition or Up to 6Ch Face Recognition (IPC does Detection) (or their combinations)
Face Recognition Rate	18 Faces per second (6Ch supported)

Bandwidth	
Incoming	160Mbps

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Outgoing	160Mbps
Record/ Main Stream	
Real-Time Recording	16CH 12MP Real-Time
Record Type	Video / Video + Audio
Recording Modes	Schedule, Manual, Motion, Sensor, Analytics, POS and all of its combinations
16MP	N/A
12MP	480FPS(NTSC)/400FPS(PAL)
8MP	480FPS(NTSC)/400FPS(PAL)
5MP and lower	480FPS(NTSC)/400FPS(PAL)
Master stream over network	Up to 12CH@Recording Resolution
Substream	
Resolution substream	Depends on IPC
Remote view	
Max Channel View	80Ch (Limited to Outgoing Bandwidth Capacity)
Remote Applications	
User Access	64 Users online with Professional Authority Management
Mobile App	Provision Cam2 for iOS/Android
PC/Mac Software	Ossia VMS Standard / Enterprise
Plug-in free Web-Browser	Chrome, FireFox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) *P2P WEB connetion always requires Plugin
Plug-in based Web-Browser	Internet Explorer
Playback	
Local	16Ch
Remote	16Ch

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Search Mode	DDA Object, Smart Search, LPR, Face Recognition, Time-Slice, Time, Event, POS

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

Alarm	
Alarm-in	8+IPC
Alarm-out	4+IPC

Storage	
HDD	2
E-Sata Support	No
RAID	N/A

PTZ	
Connection	via Network
Supported Controls	Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus
RS-485	Yes (C06 Keyboard Connection)

Network	
Ethernet	1000/100/10Mbps self-adaptive Ethernet interface
Protocols	TCP/IPv4/IPv6, DHCP, DDNS, NTP, SMTP, SSL/TLS, UPnP, P2P, RTSP, FTP, HTTPS, 820.1X, SNMP, Auto Report (Ossia VMS)
ONVIF	Full Device Support (Profile T/G, ONVIF Version 20.12)

PoE	
PoE Ports	16xRJ45
Speed	10/100Mbps (10Mbps under CCTV Mode)
Standard	PoE (IEEE802.3AF/AT)

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CCTV Mode	Yes (Up to 200m and 10Mbps bandwidth)
Total Power	150W (Avarage 9.3W per Channel)
Max. Power Output (Per Ch.)	~25.5W

Others	
Power Supply	DC 48V/3.75A
Power consumption (No HDD)	20W
Dimension	380 × 268 × 48.1 mm
Operation Temperature	0°C~50°C