# 4-channel IP Recorder

## NVR-4204P4-H1/F-II

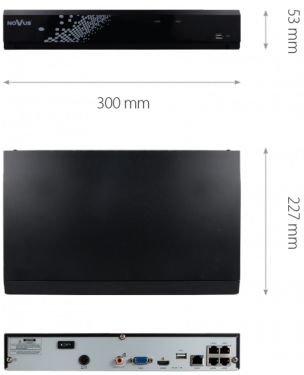


## KEY FEATURES

- 4 x PoE Ethernet ports
- 4 x video and audio channels
- Recording speed up to 120 fps at 3840 x 2160
- Recorded stream size: 50 Mb/s in total from all cameras
- 1 x internal place for HDD mounting
- 2 x monitor outputs (HDMI 4K UltraHD, VGA)
- Face recognition

## COMPLIANCE

## DIMENSIONS




**The recorder is dedicated to work with NOVUS 4000 series IP cameras. Detailed data can be found in the compatibility table available in the DOWNLOADABLE FILES tab.**

### VIDEO

| | |
|---|---|
| IP Cameras | up to 4 channels at 3840 x 2160 resolution (video + audio) |
| Maximum Supported Camera Resolution | 3840 x 2160 • 4000 x 3000 for fisheye cameras |
| Compression | H.264, H.264+, H.265, H.265+ |
| Monitor Output | main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (up to 2 monitors simultaneously) |
| Dualstreaming Support | yes |
| Fisheye Support | using any web browser, ipGO 4, N Control 4000 |

### AUDIO

| | |
|---|---|
| Audio Input/Output | - / 1 x HDMI, 1 x line-out (RCA) |

### RECORDING

| | |
|---|---|
| Recording Speed | 120 fps (4 x 30 fps for 3840 x 2160 and lower) |
| Stream Size | 50 Mb/s in total from all cameras |
| Recording Mode | continuous, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm, downloading camera records after restoring network connection (ANR) |
| Prealarm/Postalarm | up to 3 s/up to 600 s |

### DISPLAY

| | |
|---|---|
| Display Speed | 120 fps (4 x 30 fps) |

### PLAYBACK

| | |
|---|---|
| Playback Speed | 120 fps (4 x 30 fps) |
| Recorded Data Search | by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags |

### BACKUP

| | |
|---|---|
| Backup Methods | USB port (HDD or Flash memory), network |
| Backup File Format | JPG, BMP, PNG, MP4, AVI, RF |

### STORAGE

| | |
|---|---|
| Internal Storage | available mount: 1 x HDD 3.5” 8 TB SATA |
| Total Internal Capacity | 8 TB |
| External storage | network HDD (NFS or SMB/CIFS) |
| Total External Capacity | 8 TB |

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## ALARM

| | |
|---|---|
| Camera Alarm Input/Output | supports IP camera's alarm input/output |
| System Reaction to Alarm Events | buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt |

## INTELLIGENT IMAGE ANALYSIS

| | |
|---|---|
| Supported Functions | Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Face Recognition (in cooperation with selected 4000 series cameras), Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, License Plate Recognition (LPR), Objects Distinguishing, Queue Lenght Detection, Heat Map, Cross Counting by pedestrian or vehicle |

## NETWORK

| | |
|---|---|
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE (IEEE802.3af, Class 3) - RJ-45 interface, 10/100 Mbit/s, with Extended mode |
| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5 |
| PC/MAC Software | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, NMS, Internet Explorer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, N Control 4000 |
| Mobile applications | ipGO 4 (iPhone, Android) |
| Number of Simultaneous Connections | up to 32 users, each user up to 5 devices |
| Bandwidth | 48 Mb/s in total to all client workstations |

## PTZ

| | |
|---|---|
| PTZ Functions | pan/tilt/zoom, preset commands, patterns |

## AUXILIARY INTERFACES

| | |
|---|---|
| USB Ports | 2 x USB 2.0 |

## OPERATING SYSTEM

| | |
|---|---|
| Operating System | Linux |
| OSD | languages: Polish, English, others |
| Control | PC mouse and IR remote controller (in-set included), network |
| System Diagnostic | automatic control of: HDDs, network, camera connection loss |
| Security | password protection, IP filtering |

## INSTALLATION PARAMETERS

| | |
|---|---|
| Dimensions (mm) | 300 (W) x 53 (H) x 227 (D) |
| Weight | 1.1 kg (without HDD) |
| Power Supply | 48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included) |
| Power Consumption | 20 W (with 1 HDD) + 45 W PoE |
| Operating Temperature | -10°C ~ 45°C |

*The availability of individual functions (including image analysis) depends on the model of the cameras used, as well as the software version of the recorder and cameras.*
*In order to create face recognition system, please deploy NOVUS 4000 series IP cameras with Face Recognition function.*
*Presented display and playback speeds are achieved using dual-streaming. Detailed data on hard drives can be found in the compatibility table available in the DOWNLOADABLE FILES tab.*

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