# NOVUS®

# NVSO IP Recorder
NVSO 3-4U-III

## FUNCTIONS

**H·265** | 🗄 ×6 HDD | 350 Mb/s Stream

3500 fps ● REC | ×140 V+A | ×3 Monitor

## KEY FEATURES

- Video and audio channels: 140
- Recording speed up to 3500 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

## DIMENSIONS

177 mm

427 mm

450 mm

| | |
|---|---|
| RACK Mount 19" | 4U |
| **Video** | |
| IP Camera Recording | 100 channels at 1920x1080 (video+audio) using H.264 codec<br>140 channels at 1920x1080 (video+audio) using H.265 codec |
| Maximum Supported Camera Resolution | 4000x3000 |
| Supported Codes | H.264, H.264+, H.265, H.265+, MJPEG |
| Supported Cameras and Protocols | Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye |
| Dualstreaming Support | yes |
| **Display** | |
| Monitor Output | 1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously) |
| Maximum Resolution | 3 x 4K UltraHD |
| **Audio** | |
| Audio input | 1 x Line in (3,5mm), 1 x Mic in(3,5mm) |
| Audio Output | 1 x Line (3,5mm), 1 x HDMI, 1 x Display Port |
| Audio Input/Output in Cameras | Supports audio input/output build in cameras |
| **Performance - H.264** | |
| 2MPX IP Camera | Recording up to: 100 main streams (while displaying: 8 sub streams)<br>Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams)<br>Playback up to: 13 main streams (while recording: 42 main streams) |
| 4MPX IP Camera | Recording up to: 65 main streams (while displaying: 8 sub streams)<br>Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams)<br>Playback up to: 7 main streams (while recording: 40 main streams) |
| 5MPX IP Camera | Recording up to: 60 main streams (while displaying: 8 sub streams)<br>Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams)<br>Playback up to: 5 main streams (while recording: 35 main streams) |
| 8MPX IP Camera | Recording up to: 36 main streams (while displaying: 8 sub streams)<br>Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams)<br>Playback up to: 3 main streams (while recording: 32 main streams) |
| 12MPX IP Camera | Recording up to: 32 main streams (while displaying: 8 sub streams)<br>Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams)<br>Playback up to: 3 main streams (while recording: 26 main streams) |
| **Performance - H.265** | |
| 2MPX IP Camera | Recording up to: 140 main streams (while displaying: 8 sub streams)<br>Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams)<br>Playback up to: 6 main streams (while recording: 30 main streams) |
| 4MPX IP Camera | Recording up to: 90 main streams (while displaying: 8 sub streams)<br>Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams)<br>Playback up to: 3 main streams (while recording: 30 main streams) |
| 5MPX IP Camera | Recording up to: 70 main streams (while displaying: 8 sub streams)<br>Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams)<br>Playback up to: 3 main streams (while recording: 30 main streams) |
| 8MPX IP Camera | Recording up to: 60 main streams (while displaying: 8 sub streams)<br>Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams)<br>Playback up to: 2 main streams (while recording: 28 main streams) |
| 12MPX IP Camera | Recording up to: 48 main streams (while displaying: 8 sub streams)<br>Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams)<br>Playback up to: 2 main streams (while recording: 20 main streams) |
| **Recording** | |
| Recording Mode | Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm |
| Schedule | individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes |
| Prealarm/Postalarm | Up to: 30s / Up to: 600s |
| **Playback** | |
| Recorded Data Search | By Date/Time, Events, "Text-in" |
| **Backup** | |
| Backup Methods | USB port (HDD lor Flash drive), Network |
| Backup File Format | JPEG, BMP, AVI, NMS |
| **HDD** | |
| Internal storage for system | 1 x SSD NVMe |
| Internal Storage for Recording | 6 available bays for 3,5" HDD surveillance grade storage media |
| **Alarms** | |
| Alarm Input/output in cameras | support of alarm input and output built in cameras |
| Motion detection | support of motion detection built in cameras |
| Video Analytics | supported built in analytics in camera |
| Temperature alarm | support of temperature alarm built in cameras |
| Licence plate recognition (LPR) | support of selected image analysis functions available in the camera |
| System Reactions to Alarm Events | e-mail, Screen Message, Recording Activation, PTZ |
| **Network** | |
| Network Interface | 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s |
| Network Throughput | up to 350Mbit/s from all cameras,<br>up to 350Mbit/s to all client stations,<br>Max network throughput: 350Mbit/s for each network card |
| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA |
| Compatible Mobile Applications | NMS Mobile |
| **PTZ** | |
| PTZ Functions | pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris |
| **Additional interfaces** | |
| USB Ports | 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C |
| **Operating System** | |
| Operating System | Microsoft Windows 10 Pro |
| Recording and Surveillance System | NMS (Novus Management System) |
| Additional Software | Internet Explorer |

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|---|---|
| Operation Mode | Pentaplex |
| OSD | Polish, English, Russian, others |
| Control | PC mouse and keyboard (in-set included), DCZ keyboard |
| System Diagnostic | automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss |
| Security | Password protection, IP filtering, MAC filtering, Limiting the number of connections |
| **Integration** | |
| Integrated Devices | Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices |
| **Installation Parameters** | |
| Dimensions | 427mm (W) x 177mm(H) x 450mm (D) |
| Weight | 20 kg (without HDDs for recording) |
| Power Supply | built in 700W, with 230VAC input |
| Power consumption/heatprint | 250W/200W (without HDD for recording) |
| Operating Temperature | 5°C ~ 35°C |
| RACK Mount 19" | 4U |

*Attention:*
*To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.*