

## NOVUS MANAGEMENT SYSTEM VSS IP Recorder

### NMS VSS NVR X-4U-III



#### PRO SERIES

#### KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 8 x SATA 3,5"
- External arrays support
- Operating system: Microsoft Windows 11 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

#### COMPLIANCE



#### DIMENSIONS



Unit with the NOVUS MANAGEMENT SYSTEM VSS software installed adapted to 24/7 operation.

#### VIDEO

|                                     |   |
|-------------------------------------|---|
| IP Camera Recording                 | 160 channels at 1920x1080 (video+audio) using H.264 codec • 200 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 • (purchase of the appropriate license is required)    |
| Dualstreaming Support               | yes   |

#### DISPLAY

|                    |  |
|--------------------|--|
| Monitor Output     | 1 x HDMI 2.0b, 1 x Dual link-DVI, 1 x Display Port 1.2 (up to 3 monitors simultaneously) |
| Maximum Resolution | 3 x 4K UltraHD   |

#### AUDIO

|              |                            |
|--------------|----------------------------|
| Audio Output | 1 x HDMI, 1 x Display Port |
|--------------|----------------------------|

#### PERFORMANCE - H.264

|                 |  |
|-----------------|--|
| 2MPX IP Camera  | Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams) |
| 4MPX IP Camera  | Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 13 main streams (while recording: 80 main streams) • Playback up to: 13 main streams (while recording: 80 main streams) |
| 5MPX IP Camera  | Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 8 main streams (while recording: 80 main streams) • Playback up to: 8 main streams (while recording: 80 main streams)   |
| 8MPX IP Camera  | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)    |
| 12MPX IP Camera | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)    |

#### PERFORMANCE - H.265

|                 |   |
|-----------------|---|
| 2MPX IP Camera  | Recording up to: 200 main streams (while displaying: 8 sub streams)<br>• Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams) |
| 4MPX IP Camera  | Recording up to: 160 main streams (while displaying: 8 sub streams)<br>• Display up to: 40 sub streams or 9 main streams (while recording: 80 main streams) • Playback up to: 9 main streams (while recording: 80 main streams)   |
| 5MPX IP Camera  | Recording up to: 120 main streams (while displaying: 8 sub streams)<br>• Display up to: 35 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)   |
| 8MPX IP Camera  | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)       |
| 12MPX IP Camera | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 16 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)       |

### RECORDING

|                    |   |
|--------------------|---|
| Recording Mode     | Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature 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", Image Analysis Events |
|----------------------|--|

### BACKUP

|                    |  |
|--------------------|--|
| Backup Methods     | USB port (HDD or Flash drive), Network |
| Backup File Format | JPEG, BMP, AVI, NMS                    |

### HDD

|                                |   |
|--------------------------------|---|
| Internal storage for system    | 1 x SSD NVMe  |
| Internal Storage for Recording | 8 available bays for 3,5" HDD surveillance grade storage media in Hot-Swap bays |

### 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 |

### NETWORK

|                                |   |
|--------------------------------|---|
| Network Interface              | 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s   |
| Network Throughput             | up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/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 | VSS WEB CLIENT functionality available from web browsers (Chrome, Edge, Firefox, Opera, Safari)                                     |

**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, 2 x USB 2.0 |
|-----------|---|

**OPERATING SYSTEM**

|                                   |  |
|-----------------------------------|--|
| Operating System                  | Microsoft Windows 11 IoT   |
| Recording and Surveillance System | NOVUS MANAGEMENT SYSTEM VSS  |
| 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, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices |
|--------------------|--|

**INSTALLATION PARAMETERS**

|                             |   |
|-----------------------------|---|
| Dimensions (mm)             | 178 (W) x 452 (H) x 648 (D)   |
| Weight                      | 28 kg (without HDD)   |
| Power Supply                | built in 700W, with 230VAC input • with Hot-Swap function (allowing to replace the power supply without turning off the unit) |
| Power consumption/heatprint | 350W/280W (without HDD for recording)   |
| Operating Temperature       | 5°C ~ 35°C  |
| RACK Mount 19"              | 4U  |

*Note:*

*The device requires registration and license activation. There is an option to activate a 60-day trial license. After this period, the purchase of a NOVUS MANAGEMENT SYSTEM VSS software license specific to the application is required. To choose the appropriate license, please contact the sales department. Windows 11 IoT is available on devices starting with serial number xxx269213.*