# NOVUS MANAGEMENT SYSTEM VSS IP Recorder

## NMS VSS NVR X-2U-III-96TB



PRO SERIES

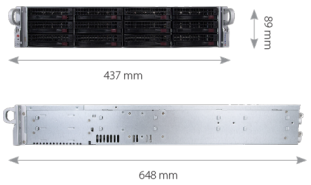
### KEY FEATURES

H.265

x200 V+A | 450 Mb/s Stream | ×12 HDD | 3300 fps ● REC | ×3 Monitor

- 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
- Built-in HDDs: 12 x 8 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 11 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2
- Anti-vibration bracket in-set included

### 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 | 3 x Mini Display Port 1.2, (up to 3 monitors simultaneously) |
| Maximum Resolution | 3 x 4K UltraHD |

### AUDIO

| | |
|---|---|
| Audio Output | 3 x Mini Display Port 1.2 |

### PERFORMANCE - H.264

| | |
|---|---|
| 2MPX IP Camera | Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams) |
| 4MPX IP Camera | Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams) |
| 5MPX IP Camera | Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams) |
| 8MPX IP Camera | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams) |
| 12MPX IP Camera | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams) |

### PERFORMANCE - H.265

| | |
|---|---|
| 2MPX IP Camera | Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams) |

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| | |
|---|---|
| 4MPX IP Camera | Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams) |
| 5MPX IP Camera | Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams) |
| 8MPX IP Camera | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams) |
| 12MPX IP Camera | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 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

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|---|---|
| Recorded Data Search | By Date/Time, Events, “Text-in”, Image Analysis Events |

### BACKUP

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

### HDD

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|---|---|
| Internal storage for system | 1 x SSD NVMe |
| Internal Storage for Recording | 12 x 8TB SAS 3,5" surveillance grade server storage media in Hot-Swap bays |
| RAID Redundancy | RAID types: RAID 0, RAID 1, RAID 5, RAID 6 |

### ALARMS

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|---|---|
| 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

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|---|---|
| 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, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA |
| Compatible Mobile Applications | VSS WEB CLIENT functionality available from web browsers (Chrome, Edge, Firefox, Opera, Safari) |

### PTZ

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| | |
|---|---|
| PTZ Functions | pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris |

### ADDITIONAL INTERFACES

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|---|---|
| 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

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|---|---|
| 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

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|---|---|
| Dimensions (mm) | 437 (W) x 89 (H) x 648 (D) |
| Weight | 24 kg (with HDDs) |
| Power Supply | built in 2 x redundant power supply 230VAC input with 960W power each • with Hot-Swap function (allowing to replace the power supply without turning off the unit) |
| Power consumption/heatprint | 490W/400W (without HDD for recording) |
| Operating Temperature | 5°C ~ 35°C |
| RACK Mount 19" | 2U |

*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.*