



# NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR X-2U-III-192TB



## PRO SERIES

### FUNCTIONS



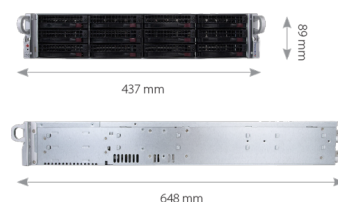
### COMPLIANCE



### 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
- Built-in HDDs: 12 x 16 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NOVUS MANAGEMENT SYSTEM VSS
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

### 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<br>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+, MPEG  |
| 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)<br>Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams)<br>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)<br>Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams)<br>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)<br>Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams)<br>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)<br>Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams)<br>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)<br>Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams)<br>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)<br>Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams)<br>Playback up to: 8 main streams (while recording: 200 main streams) |
| 4MPX IP Camera                      | Recording up to: 160 main streams (while displaying: 8 sub streams)<br>Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams)<br>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)<br>Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams)<br>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)<br>Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams)<br>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)<br>Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams)<br>Playback up to: 4 main streams (while recording: 90 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 for Flash drive), Network   |
| Backup File Format                  | JPEG, BMP, AVI, NMS   |
| HDD                                 |   |
| Internal storage for system         | 1 x SSD NVMe  |
| Internal Storage for Recording      | 12 x 16TB SAS 3.5" surveillance grade server storage media  |
| RAID Redundancy                     | RAID types: RAID 0, RAID 1, RAID 5, RAID 6  |
| 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,<br>up to 450Mbit/s to all client stations,<br>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      | 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, 2 x USB 2.0   |

| Operating System                  |  |
|-----------------------------------|--|
| Operating System                  | Microsoft Windows 10 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)                   | 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  |
| 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.*