

# NOVUS MANAGEMENT SYSTEM VSS IP Recorder

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



### PRO SERIES

#### KEY FEATURES

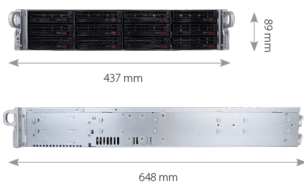


- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 8 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NOVUS MANAGEMENT SYSTEM VSS
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2
- Anti-vibration bracket in-set included

#### COMPATIBILITY



#### 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) |
|----------------|---|

# NOVUS MANAGEMENT SYSTEM VSS IP Recorder

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

|                 |  |
|-----------------|--|
| 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) • 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) • 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) • 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) • 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 or 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 8TB 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 • 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 | 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.*