

NOVUS MANAGEMENT SYSTEM VSS IP Recorder

### NMS VSS NVR X-2U-III-144TB



#### PRO SERIES

#### **KEY FEATURES**

| H    | 265      |      |          |         |
|------|----------|------|----------|---------|
| ×200 | 450 Mb/s | A×12 | 3300 fps | Monitor |
| V+A  | Stream   | HDD  | ● REC    |         |

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 12 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

COMPATIBILITY



#### DIMENSIONS

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|---|
| 437 mm  |
| C   |
| ≪ 648 mm  |

| IP Camera Recording                    | 160 channels at 1920x1080 (video+audio) using H.264 codec $\bullet$ 200 channels at 1920x1080 (video+audio) using H.265 codec  |  |
|--|--|--|
| Maximum Supported Camera<br>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)<br>• Display up to: 8 sub streams or 8 main streams (while recording:<br>160 main streams) • Playback up to: 8 main streams (while<br>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:<br>120 main streams) • Playback up to: 8 main streams (while<br>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:<br>100 main streams) • Playback up to: 8 main streams (while<br>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<br>main streams) • Playback up to: 6 main streams (while recording: 80<br>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<br>main streams) • Playback up to: 4 main streams (while recording: 80<br>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:<br>200 main streams) • Playback up to: 8 main streams (while<br>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:<br>160 main streams) • Playback up to: 8 main streams (while<br>recording: 160 main streams) |  |





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| 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:<br>120 main streams) • Playback up to: 4 main streams (while<br>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<br>main streams) • Playback up to: 4 main streams (while recording: 90<br>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<br>main streams) • Playback up to: 4 main streams (while recording: 90<br>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<br>days (holidays etc.), configuration with an accuracy of: 15 min,<br>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 lor 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 12TB SAS 3,5" surviliance grade server storage media  |  |
| RAID Redundancy                         | RAID types: RAID 0, RAID 1, RAID 5, RAID 6   |  |
|   |  |  |
| ALARMS<br>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                         |  |  |
| Temperature alarm                       | supported built in analytics in camera support of temperature alarm built in cameras   |  |
| Licence plate recognition (LPR)         | support of selected image analysis functions available in the camera   |  |
|   | 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<br>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<br>NTP, RTSP, SAMBA   |  |
| Compatible Mobile Applications          | NMS Mobile   |  |
| PTZ                                     |  |  |
| PTZ Functions                           | pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,<br>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,  |  |
|   |  |  |





## NOVUS MANAGEMENT SYSTEM VSS IP Recorder NMS VSS NVR X-2U-III-144TB

#### **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<br>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"                    | 20  |

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.

