



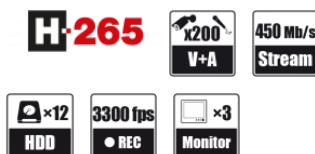
# NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR X-2U-III-216TB



## PRO SERIES

### FUNCTIONS



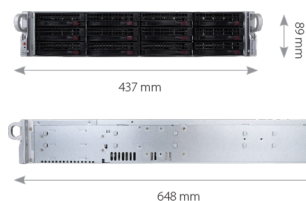
### COMPATIBILITY



### 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 18 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



|                                     |   |
|-------------------------------------|---|
| <b>Video</b>                        |   |
| 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   |
| <b>Display</b>                      |   |
| Monitor Output                      | 3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)  |
| Maximum Resolution                  | 3 x 4K UltraHD  |
| <b>Audio</b>                        |   |
| Audio Output                        | 3 x Mini Display Port 1.2   |
| <b>Performance - H.264</b>          |   |
| 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)    |
| <b>Performance - H.265</b>          |   |
| 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)    |
| <b>Recording</b>                    |   |
| 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  |
| <b>Playback</b>                     |   |
| Recorded Data Search                | By Date/Time, Events, "Text-in", Image Analysis Events  |
| <b>Backup</b>                       |   |
| Backup Methods                      | USB port (HDD for Flash drive), Network   |
| Backup File Format                  | JPEG, BMP, AVI, NMS   |
| <b>HDD</b>                          |   |
| Internal storage for system         | 1 x SSD NVMe  |
| Internal Storage for Recording      | 12 x 18TB SAS 3.5" surveillance grade server storage media  |
| RAID Redundancy                     | RAID types: RAID 0, RAID 1, RAID 5, RAID 6  |
| <b>Alarms</b>                       |   |
| 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  |
| <b>Network</b>                      |   |
| 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/IPv6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA  |
| Compatible Mobile Applications      | NMS Mobile  |
| <b>PTZ</b>                          |   |
| PTZ Functions                       | pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris  |
| <b>Additional interfaces</b>        |   |
| USB Ports                           | 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C, 2 x USB 2.0   |
| <b>Operating System</b>             |   |
| 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   |
| <b>Integration</b>             |  |
| Integrated Devices             | Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices |
| <b>Installation Parameters</b> |  |
| 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.*