## NOVUS

### NMS IP Recorder

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





#### **KEY FEATURES**















- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all
- •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: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

#### **DIMENSIONS**



| RACK Mount 19"                         | 2U  |
|--|---|
| 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<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  |
| 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                        |   |
| 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 18TB SAS 3,5" surviliance 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  |







# NMS IP Recorder NMS NVR X-2U-III-216TB

| <b>ADDITIONAL</b> | INTERFACES |
|-------------------|------------|
|-------------------|------------|

| 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C 2 x USB 2.0,  |
|--|
|  |
| Microsoft Windows 10 IoT   |
| NMS (Novus Management System)  |
| NMS, Internet Explorer   |
| Pentaplex  |
| Polish, English, Russian, others   |
| PC mouse and keyboard (in-set included), DCZ keyboard  |
| automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss  |
| Password protection, IP filtering, MAC filtering, Limiting the number of connections   |
|  |
| Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices |
|  |
| 437 (W) x 89 (H) x 648 (D)   |
| 24 kg (with HDDs)  |
| built in 2 x redundant power supply 230VAC input with 960W power each  |
| 490W/400W (without HDD for recording)  |
| 5°C ~ 35°C   |
| 2U   |
|  |

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.



