

## NMS IP Recorder NMS NVR X-4U-III

### 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
- optional disk mounting: 8 x SATA 3,5"
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Compatible with all NOVUS IP cameras

### DIMENSIONS



### 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                                                        |
| Dualstreaming Support               | yes                                                                                                                   |

### DISPLAY

|                    |                                                                                          |
|--------------------|------------------------------------------------------------------------------------------|
| Monitor Output     | 1 x HDMI 2.0b, 1 x Dual link-DVI, 1 x Display Port 1.2 (up to 3 monitors simultaneously) |
| Maximum Resolution | 3 x 4K UltraHD                                                                           |

### AUDIO

|              |                            |
|--------------|----------------------------|
| Audio Output | 1 x HDMI, 1 x Display Port |
|--------------|----------------------------|

### PERFORMANCE - H.264

|                 |                                                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2MPX IP Camera  | Recording up to: 160 main streams (while displaying: 8 sub streams)<br>• Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams) |
| 4MPX IP Camera  | Recording up to: 120 main streams (while displaying: 8 sub streams)<br>• Display up to: 50 sub streams or 13 main streams (while recording: 80 main streams) • Playback up to: 13 main streams (while recording: 80 main streams) |
| 5MPX IP Camera  | Recording up to: 100 main streams (while displaying: 8 sub streams)<br>• Display up to: 40 sub streams or 8 main streams (while recording: 80 main streams) • Playback up to: 8 main streams (while recording: 80 main streams)   |
| 8MPX IP Camera  | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)       |
| 12MPX IP Camera | Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)       |

### PERFORMANCE - H.265

|                |                                                                                                                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2MPX IP Camera | Recording up to: 200 main streams (while displaying: 8 sub streams)<br>• Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams) |
| 4MPX IP Camera | Recording up to: 160 main streams (while displaying: 8 sub streams)<br>• Display up to: 40 sub streams or 9 main streams (while recording: 80 main streams) • Playback up to: 9 main streams (while recording: 80 main streams)   |

|                 |                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5MPX IP Camera  | Recording up to: 120 main streams (while displaying: 8 sub streams)<br>• Display up to: 35 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams) |
| 8MPX IP Camera  | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)     |
| 12MPX IP Camera | Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 16 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 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 | 8 available bays for 3,5" HDD surveillance grade storage media |

### 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, 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

## NMS IP Recorder NMS NVR X-4U-III

|                                   |                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------|
| Operating System                  | Microsoft Windows 10 IoT                                                             |
| Recording and Surveillance System | NMS (Novus Management System)                                                        |
| Additional Software               | NMS, NOVUS MANAGEMENT SYSTEM AC, Internet Explorer                                   |
| 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, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

### INSTALLATION PARAMETERS

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (mm)             | 178 (W) x 452 (H) x 648 (D)                                                                                                   |
| Weight                      | 28 kg (without HDD)                                                                                                           |
| Power Supply                | built in 700W, with 230VAC input • with Hot-Swap function (allowing to replace the power supply without turning off the unit) |
| Power consumption/heatprint | 350W/280W (without HDD for recording)                                                                                         |
| Operating Temperature       | 5°C ~ 35°C                                                                                                                    |
| RACK Mount 19"              | 4U                                                                                                                            |

\* To support more than two monitors it is required to use Display Port output.

\*\* Available with dual streaming mode.

\*\*\* Function capability depends on used devices and communication protocols.

\*\*\*\* List of compatible HDD models and maximum of their capacities is available in section DOWNLOADABLE FILES.