

# NMS IP Recorder

## NMS NVR X-4U

### KEY FEATURES

### KEY FEATURES

- Video and audio channels: 200
- Rezolutie suportata pana la 4000 x 3000
- Simensiune flux inregistrare: 450 Mb/s in total de la toate camerele
- Suporta pana la 3 monitoare simultane
- optional disk mounting: 8 x SATA 3,5"
- External arrays support
- Sistem de operare: Microsoft Windows 10 IoT
- Sistem de inregistrare si monitorizare: NMS (Novus Management System)
- Compatibile cu toate camerele IP Novus

### DIMENSIUNI

<b>Video</b>	
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	Astfel
<b>Display</b>	
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
<b>Audio</b>	
Audio input	1 x Mic in(3,5mm)
Audio Output	1 x liniowe (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
<b>Performance - H.264</b>	
2MPX IP Camera	Recording up to: 160 (while displaying: 60 sub streams) Display up to: 60 sub streams or 25 (while recording: 160 main streams) Playback up to: 25 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 (while displaying: 50 sub streams) Display up to: 50 sub streams or 16 (while recording: 120 main streams) Playback up to: 16 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 (while displaying: 40 sub streams) Display up to: 40 sub streams or 10 (while recording: 100 main streams) Playback up to: 10 main streams (while recording: 100 main streams)
8MPX IP Camera	Recording up to: 80 (while displaying: 30 sub streams) Display up to: 30 sub streams or 6 (while recording: 80 main streams) Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 (while displaying: 25 sub streams) Display up to: 25 sub streams or 4 (while recording: 80 main streams) Playback up to: 4 main streams (while recording: 80 main streams)
<b>Performance - H.265</b>	
2MPX IP Camera	Recording up to: 200 (while displaying: 60 sub streams) Display up to: 60 sub streams or 20 (while recording: 200 main streams) Playback up to: 20 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 (while displaying: 40 sub streams) Display up to: 40 sub streams or 9 (while recording: 160 main streams) Playback up to: 9 main streams (while recording: 160 main streams)
5MPX IP Camera	Recording up to: 120 (while displaying: 35 sub streams) Display up to: 35 sub streams or 4 (while recording: 120 main streams) Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 (while displaying: 25 sub streams) Display up to: 25 sub streams or 4 (while recording: 90 main streams) Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 (while displaying: 16 sub streams) Display up to: 16 sub streams or 4 (while recording: 16 main streams) 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
Orar	Setari individuale pentru: pe fiecare camera, pe fiecare saptamana, zile specifice (sarbatori etc.), configurare cu acuratete de: 15 min, posibilitate de combinare moduri de inregistrare individuale
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 lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
<b>HDD</b>	
Internal storage for system	1 x HDD 3.5" SATA
Internal Storage for Recording	8 available bays for 3,5" HDD surveillance grade storage media
<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, 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
<b>PTZ</b>	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
<b>Additional interfaces</b>	
USB Ports	6 x USB 3.0
<b>Operating System</b>	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, 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
<b>Integration</b>	
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
<b>Installation Parameters</b>	
Dimensions	178mm (W) x 452mm(H) x 648mm (D)
Weight	28 kg (without HDD)
Power Supply	built in 700W, with 230VAC input
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.

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

From serial number: XX 318 4708, devices have Microsoft Windows 10 IoT operating system.