

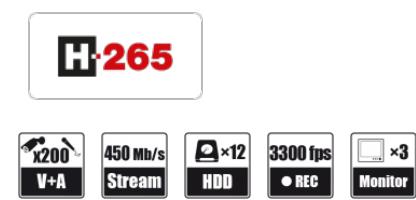
NMS IP Recorder

NMS NVR X-2U-III-240TB



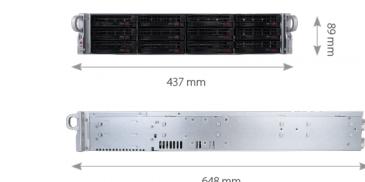
PRO SERIES

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
- Built-in HDDs: 12 x 20 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

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| 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

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| Monitor Output | 3 x Mini Display Port 1.2, (up to 3 monitors simultaneously) |
| Maximum Resolution | 3 x 4K UltraHD |

AUDIO

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| Audio Output | 3 x Mini Display Port 1.2 |
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PERFORMANCE - H.264

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|-----------------|---|
| 2MPX IP Camera | Recording up to: 160 main streams (while displaying: 8 sub streams) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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

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|----------------|---|
| 2MPX IP Camera | Recording up to: 200 main streams (while displaying: 8 sub streams) <ul style="list-style-type: none"> • 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) |
| 4MPX IP Camera | Recording up to: 160 main streams (while displaying: 8 sub streams) <ul style="list-style-type: none"> • 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) |

**NMS IP Recorder
NMS NVR X-2U-III-240TB**

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|----------------|--|
| 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) |
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| 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) |
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| 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) |
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RECORDING

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| Recording Mode | Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm |
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| 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 |
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| Prealarm/Postalarm | Up to: 30s / Up to: 600s |
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PLAYBACK

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| Recorded Data Search | By Date/Time, Events, "Text-in", Image Analysis Events |
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BACKUP

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| Backup Methods | USB port (HDD or Flash drive), Network |
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| Backup File Format | JPEG, BMP, AVI, NMS |
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HDD

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| Internal storage for system | 1 x SSD NVMe |
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| Internal Storage for Recording | 12 x 20TB SAS 3,5" surveillance grade server storage media |
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| RAID Redundancy | RAID types: RAID 0, RAID 1, RAID 5, RAID 6 |
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ALARMS

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| Alarm Input/output in cameras | support of alarm input and output built in cameras |
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| Motion detection | support of motion detection built in cameras |
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| Video Analytics | supported built in analytics in camera |
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| Temperature alarm | support of temperature alarm built in cameras |
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| Licence plate recognition (LPR) | support of selected image analysis functions available in the camera |
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NETWORK

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| Network Interface | 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s |
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| 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 |
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| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA |
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| Compatible Mobile Applications | NMS Mobile |
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PTZ

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| PTZ Functions | pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris |
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ADDITIONAL INTERFACES

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| USB Ports | 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C, 2 x USB 2.0 |
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OPERATING SYSTEM

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| 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 |

INTEGRATION

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| 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 |
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INSTALLATION PARAMETERS

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| 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 • with Hot-Swap function (allowing to replace the power supply without turning off the unit) |
| Power consumption/heatprint | 490W/400W (without HDD for recording) |
| Operating Temperature | 5°C ~ 35°C |
| RACK Mount 19" | 2U |

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