

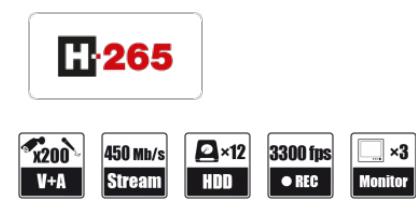
NMS IP Recorder

NMS NVR X-2U-III-168TB



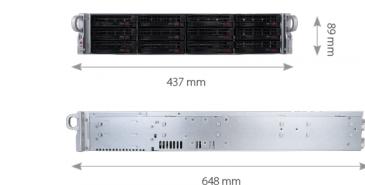
PRO SERIES

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 14 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

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	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
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PERFORMANCE - H.264

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

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-168TB**

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

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

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

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

Internal storage for system	1 x SSD NVMe
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Internal Storage for Recording	12 x 14TB 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

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

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

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
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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
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OPERATING SYSTEM

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

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

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.