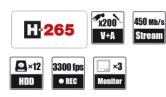


# **NMS IP Recorder**

NMS NVR X-2U-III-192TB

#### PRO SERIES

## FUNCTIONS



## **KEY FEATURES**

•Video and audio channels: 200

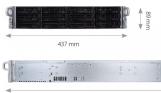
- •Supports resolution up to 4000 x 3000 •Recorded stream size: 450 Mb/s in total from all cameras

from all cameras Supports up to 3 monitors simultaneously Built-in HDDs: 12 x 16 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 (Nowus Management System)

(Novus Management System) •Compatible with all NOVUS IP cameras

•Redundant PSUs: 2

## DIMENSIONS



648 mm

Video	160 channels at 1920x1080 (video+audio) using H.264 codec
IP Camera Recording	200 channels at 1920x1080 (video+audio) using H.265 codec 4000x3000
Maximum Supported Camera Resolution Supported Codes	4000x3000 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 Performance - H.264	3 x Mini Display Port 1.2
renormance - n.204	Recording up to: 160 main streams (while displaying: 8 sub streams)
2MPX IP Camera	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)
SMPX 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)
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)
SMPX 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)
8MPX IP Camera	Playback up to: 4 main streams (while recording: 120 main streams) 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)
12MPX IP Camera	Playback up to: 4 main streams (while recording: 90 main streams) 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)
Presenting.	Playback up to: 4 main streams (while recording: 90 main streams)
Recording	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS,
Recording Mode	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	
Prealarm/Postalarm	Up to: 30s / Up to: 600s
Playback	
Playback Recorded Data Search	Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events
Playback Recorded Data Search Backup	By Date/Time, Events, "Text-in", Image Analysis Events
Playback Recorded Data Search Backup Backup Methods	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network
Playback Recorded Data Search Backup	By Date/Time, Events, "Text-in", Image Analysis Events
Playback Recorded Data Search Backup Backup Methods Backup File Format	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network
Playback Recorded Data Search Backup Backup Methods Backup File Format HDD	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network JPEG, BMP, AVI, NMS
Playback Recorded Data Search Backup Backup File Format HDD Internal storage for system	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe
Playback         Recorded Data Search         Backup         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 2 x 10TB SAS 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6
Playback         Recorded Data Search         Backup         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms         Alarm Input/output in cameras	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 2 x 10TB SAS 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras
Playback         Recorded Data Search         Backup         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD NVMe 1 x SSD NVMe 1 x 1 of RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras
Playback         Recorded Data Search         Backup         Backup Kethods         Backup File Format         HDD         Internal storage for system         Internal Storage for Recording         RAID Redundancy         Alarm Input/uotuptu in cameras         Motion detection	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 2 x 10TB SAS 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal storage for system         Internal storage for Recording         RAD Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x 1STB SAS 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras supported built in analytics in camera
Playback         Recorded Data Search         Backup         Backup File Format         HDD         Internal Storage for Recording         RAID Redundancy         Alarms         Motion detection         Video Analytics         Temperature alarm	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS I x SSD NVMe 1 x SSD NVMe 1 2 x 16TB SAS 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of temperature alarm built in cameras
Playback         Recorded Data Search         Backup         Backup File Format         HDD         Internal Storage for Recording         RAID Redundancy         Alarms         Motion detection         Video Analytics         Temperature alarm	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS I x SSD NVMe 1 x SSD NVMe 1 2 x 16TB SAS 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of temperature alarm built in cameras
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network: JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD NVMe 1 x SSD NVMe 1 x SSD NVMe 2 x 10TB SA5 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of roution detection built in cameras support of remperture alarm built in cameras support of selected image analysis functions available in the camera
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network         Network interface	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 × SSD NVMe 1 × SSD NVMe 1 × SSD NVMe 1 × 15TB SAS 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of alarm input and output built in cameras support of ot emperature alarm built in cameras support of temperature alarm built in cameras support of selected image analysis functions available in the camera 2 × Ethemet - RJ45 interface, 10/100/1000 Mbit/s up ta 450Mbit/s from all cameras,
Playback         Recorded Data Search         Backup         Backup file Format         HDD         Internal storage for system         Internal storage for system         RAID Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network         Network Throughput	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD NVMe 1 2 x 16TB SAS 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of remperature alarm built in cameras support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s for mail cameras, up to 450Mbit/s for mail cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s for a
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms         Adarting         Internal Storage for Recording         RAID Redundancy         Alarting         Linternal Storage for Recording         Rating         Motion detection         Video Analytics         Temperature alarm         Licence pater recognition (LPR)         Network         Network Throughput         Network Throughput         Network Protocols Support         Compatible Mobile Applications         PTZ	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x D to Asl D 1, RAID 5, RAID 6 5 upport of alarm input and output built in cameras support of alarm input and output built in cameras support of ortic moderation built in cameras support of remeature alarm built in cameras Support of temperature alarm built in cameras Support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras, MAX network throughput: 450Mbit/s for each network card HTTP, TCIPI, IPv4v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
Playback         Recorded Data Search         Backup         Backup file Format         HDD         Internal Storage for system         Internal Storage for system         RAID Redundancy         Allor Redundancy         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network Interface         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD
Playback         Recorded Data Search         Backup         Backup Attends         Backup File Format         HDD         Internal storage for system         Internal storage for Recording         RAID Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network Interface         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ Functions         Additional Interfaces	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD NVMe 1 x SSD NVMe 1 x SSD NVMe 2 x 16TB SAS 3,5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of motion detection built in cameras support of selected image analysis functions available in the camera 2 x Ethernet - RJAS interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras, up to 450Mbit/s from all cameras, up to 450Mbit/s to all clime stations; Max network throughput: 450Mbit/s for each network card HTTP, TCPIP, IN-4Vx6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for System         Internal Storage for Recording         RAID Redundancy         Alarms         Alarms         Alarms         Network         Network Interface         Network Protocols Support         Compable Mobile Applications         PTZ         PTZ Functions         Additional Interfaces         USB Ports	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x D to Asl D 1, RAID 5, RAID 6 5 upport of alarm input and output built in cameras support of alarm input and output built in cameras support of ortic moderation built in cameras support of remeature alarm built in cameras Support of temperature alarm built in cameras Support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras, MAX network throughput: 450Mbit/s for each network card HTTP, TCIPI, IPv4v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for system         Internal Storage for Recording         RAID Redundancy         Alarms         Odion detection         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ Nettorions         Additional Interfaces         USB Ports         Operating System	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SSD
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal storage for system         Internal Storage for Recording         RAID Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Liecence plate recognition (LPR)         Network         Network Throughput         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ         PTZ Network         Video System         Operating System	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network: JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SS
Playback         Recorded Data Search         Backup         Backup file Format         HDD         Internal storage for system         Internal storage for system         Internal storage for system         Internal storage for system         Alarn Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Licence plate recognition (LPR)         Network         Network Interface         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ         Ptoticons         Additional interfaces         USB Ports         Operating System         Recording and Surveillance System	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 X SSD NVMe 1 X SSD NVMe 1 2 x 16TB SAS 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of motion detection built in cameras support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras, up to 450Mbit/s form all cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s to all climer stations, max network throughput: 450Mbit/s for each network card HTTP, TCP/P, IN-4Vv6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NNS Mobile  pan, tilt, zoom, preset commands, patterns, lours, auto-scans, focus, iris 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C, 2 x USB 2.0
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal storage for system         Internal Storage for Recording         RAID Redundancy         Alarm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Liecence plate recognition (LPR)         Network         Network Throughput         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ         PTZ Network         Video System         Operating System	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD Ior Flash drive), Network: JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SS
Playback         Recorded Data Search         Backup         Backup Methods         Backup File Format         HDD         Internal Storage for System         Internal Storage for Recording         RAID Redundancy         Alarms         Alarms         Alarms         Alarns nput/toutput in cameras         Motion detection         Video nalytics         Temperature alarm         Licence plate recognition (LPR)         Network         Network Throughput         Network Protocols Support         Compatible Mobile Applications         PTZ         PTZ Functions         Additional Interfaces         USB Ports         Operating System         Recording and Survellance System         Additional Software	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x 16TB SA5 3.5" surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras support of motion detection built in cameras support of motion detection built in cameras support of selected image analysis functions available in the camera 2 x Ethermet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s form all cameras, up to 450Mbit/s to all client stations, Max network throughput. 450Mbit/s for each network card HTTP, TCPIP, IPv4v/G, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile 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, Intermet Explorer
Playback       Recorded Data Search       Backup       Backup Methods       Backup File Format       HDD       Internal Storage for system       Internal Storage for system       Internal Storage for Recording       RAID       Alamm       Alamin Input/output in cameras       Motion detection       Yideo Analytics       Temperature alarm       Licence plate recognition (LPR)       Network       Network Interface       Network Protocols Support       Compatible Mobile Applications       PTZ       Mathonal Interfaces       UBS Ports       Operating System       Recording System       Recording and Surveillance System       Additional Storage       Operating Mathonal       Operating Marken       Operating Marken       Operating Marken	By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network: JPEG, BMP, AVI, NMS 1 x SSD NVMe 1 x SS



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)	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"	20

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