

NMS IP Recorder

NMS NVR X-4U-III-R

PRO SERIES

FUNCTIONS



Video

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" RAID controller protects recordings External arrays support Operating system: Microsoft Windows 10 IoT Depending and numerillance curters: NMC

Operating system: Microsoft Windows 10 IoT
 Recording and surveillance system: NMS
 (Novus Management System)
 Compatible with all NOVUS IP cameras

DIMENSIONS



178 mm 648 mm

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 Mexico Output	1 v HDMI 2 0b -1 v Dual link DVII 1 v Dicelau Part 1 2 (us to 2 manifest cisultaneouclu)
Monitor Output Maximum Resolution	1 x HDMI 2.0b, 1 x Dual link-DVI, 1 x Display Port 1.2 (up to 3 monitors simultaneously) 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) 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) 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)
SMPX IP Camera	Reporting up to: 100 main activity and lice displaying: 18 up displaying and activity of the second
8MPX IP Camera	Reporting up to: 80 min acturations (while (colong) gloying: 83 ub sctemars) 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)
Performance - H.265	Playback up to: 4 main streams (while recording: 50 main streams)
	Recording up to: 200 main streams (while displaying: 8 sub streams)
2MPX IP Camera	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) 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)
SMPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) Display up to: 53 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 alaram input, motion detection, video analysis, POS, 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
Schedule PrealamvPostalarm	individual settings to:: each càmera, each day of the week, specific days (noileays etc.), connguration with an accuracy of 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s
	an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm Playback Recorded Data Search	an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm Playback Recorded Data Search Backup	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Nethods Backup File Format HDD	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for system Internal Storage for system Internal Storage for Recording RAID Redundancy Alarms Alarm Input/output in cameras	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of alarm input and output built in cameras
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording RAID Redundancy Alarms Motion detection	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network IPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade 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
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup Methods Backup File Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarms Alarm Input/output in cameras Motion detection Video Analytics	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS I x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 Support of ralarm input and output built in cameras support of ralarm input and output built in cameras supported built in analytics in camera
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording RAID Redundancy Alarms Motion detection	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of nation input and output built in cameras support of motion detection built in cameras support of temperature alarm built in cameras
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarm Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS I x SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 supported built in analytics in camera
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Prealarm/Postalarm Playback Recorded Data Search Backup Backup Backup Attendes Backup File Format HDD Internal storage for system Internal Storage for system 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) Retwork Internale	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network pPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 reserve alarm built in cameras support of temperature 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 459Mbit/s fora all cameras,
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Deliver Search Backup File Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Network Interface Network Throughput	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 305 / Up to: 6005 By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade 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 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 form all cameras, up to 450Mb
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods 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 Throughput Network Throughput Network Throughput Plate Internal Support Compatible Mobile Applications PT2	an accursy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network pPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 motion detection built in cameras support of temperature alarm built in cameras support of temperature 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/5 Up to 450Mbit/s for al clemeras, Max network throughput: 450Mbit/s for each network card HTTP, TCP/P. IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Dethods Backup File Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Network Interface Network Protocols Support Compatible Mobile Applications PT2 Functions	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 306 / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 Support of main 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 Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera T x Ethermet - RJ45 interface, 10/100/1000 Mbit/s Up to 450Mbit/S for mail cameras, UP to 450Mbit/S for m
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods 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 Throughput Network Throughput Network Throughput Plate Internal Support Compatible Mobile Applications PT2	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade 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 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 for all cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s for all cameras, up to 450Mbit/s to all clameras, up to 450Mbit/s to all clameras, 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 clameras, up to 450Mbit/s for all cameras, up to 450Mbit/s to all clameras, up to 450Mbit/s to
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Dethods Backup File Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Network Interface Network Protocols Support Compatible Mobile Applications PT2 Functions	an accursy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network pPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 motion detection built in cameras support of temperature alarm built in cameras support of temperature 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/5 Up to 450Mbit/s for al clemeras, Max network throughput: 450Mbit/s for each network card HTTP, TCP/P. IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
Prealarm/Postalarm Playback Recorded Data Search Backup Backup file Format Backup file Format HDD Internal storage for system Internal storage for Recording RAID Redundarcy Alarms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Network Interface Network Throughput PTZ Functions PTZ PTZ Functions Additional interfaces	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network PFG, BMP, AVI, NMS 1 × SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 motion detection built in cameras Support of temperature 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 ali 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 ali cameras, Support of selected image analysis functions, such sector card HTTP, TCRIP, IPA/V6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile Ax USB 3.2
Prealarm/Postalarm Playback Recorded Data Search Backup Ba	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 306 / Up to: 600s By Date/Time, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of main input and output built in cameras support of motion detection built in cameras support of meansture alarm Surveillance grade storage media to 4 50MB/US is in camera support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 4 50MB/US for all cameras, up tot 40MB/US for all ca
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Additional interfaces HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarm Input/toutput in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Throughput Network Throughput Network Throughput Network Throughput Video Analytics FTZ PTZ PTZ PTZ PTZ PTA Additional interfaces USB Ports Operating System Recording and Surveillance System	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 306 / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network pFEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade 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 alarm input and output built in cameras support of remperature alarm built in cameras support of respected built in analytics in camera support of respected built in cameras support of respected built in cameras support of respected built in analytics in camera support of respected built in cameras support of respected built in analytics in camera support of respected built in analytics in cameras support of respected built in cameras support of respected builts for all cameras support of selected image analysis for each network card HTTP, TCPR, ParAy, PayAy6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
Prealarm/Postalarm Pisyback Recorded Data Search Backup Backup file Format Backup file Format HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarms Aldarmin Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Network Throughput Network Protocols Support Compatible Mobile Applications PTZ PTZ PTZ Functions Additional interfaces USB Ports Operating System Recording and Surveillance System Acditional Software	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 305 / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD lor Flash drive), Network pPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade 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 restered image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s for all cameras, MAX network throughput: 450Mbit/s for each network card HTTP, TCPIP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile Microsoft Windows 10 IoT NMS (Novas Management System) NMS, Internet Explorer
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Additional interfaces HDD Internal storage for system Internal storage for Recording RAID Redundancy Alarm Input/toutput in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) Network Throughput Network Throughput Network Throughput Network Throughput Video Analytics FTZ PTZ PTZ PTZ PTZ PTA Additional interfaces USB Ports Operating System Recording and Surveillance System	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 306 / Up to: 600s By Date/Trime, Events, "Text-in", Image Analysis Events USB port (HDD for Flash drive), Network pFEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3.5" HDD surveillance grade 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 alarm input and output built in cameras support of remperature alarm built in cameras support of respected built in analytics in camera support of respected built in cameras support of respected built in cameras support of respected built in analytics in camera support of respected built in cameras support of respected built in analytics in camera support of temperature alarm built in cameras support of respected built in analytics in camera support of temperature alarm built in cameras support of temperature alarm built in cameras support of temperature alarm built in cameras support of selected image analysis freach network card HTTP, TCPR, ParAys, ParAys, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile



160 channels at 1920x1080 (video+audio) using H.264 codec

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
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 DOWILOADABLE FILES.