

# **NMS IP Recorder**

NMS NVR X-2U-III-72TB

## PRO SERIES

## FUNCTIONS



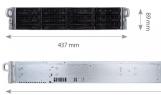
## **KEY FEATURES**

•Video and audio channels: 200 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 6 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
 (Novus Management System)

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

•Redundant PSUs: 2

## DIMENSIONS



648 mm

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 Display	yes
	2 o Hal Diselso Best 1 2 /or to 2 merchant simultaneousla)
Monitor Output Maximum Resolution	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously) 3 x 4K UltraHD
Audio	
	2 of Mail Director Park 1 2
Audio Output Performance - H.264	3 x Mini Display Port 1.2
Performance - H.264	Descention on the 100 main streams (while disclosing 0 and streams)
2MPX 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)
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)
5MPX 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) Payback up to: 8 main streams (while recording: 160 main streams)
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) Payback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 min actemnt (control (control (control (control (control)))) Display up to: 90 ub streams or 4 min streams (while recording: 90 min streams) Palyback up to: 4 min streams (while recording: 90 min streams)
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) Palyaback up to: 4 main streams (while recording: 90 main streams)
Recording	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS
Schedule	temerature alarm individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration wi
Prealarm/Postalarm	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s
Playback	up to. 5057 up to. 6005
Recorded Data Search	Bu Date/Time, Evente "Text in" Jacob Applysis Events
Backup	By Date/Time, Events, "Text-in", Image Analysis Events
	UCD and UDD In Flick date. Material
Backup Methods Backup File Format	USB port (HDD lor Flash drive), Network
	JPEG, BMP, AVI, NMS
HDD	
HDD nternal storage for system	1 x SSD NVMe
HDD nternal storage for system nternal Storage for Recording	1 x SSD NVMe 12 x 6TB SAS 3.5" surveillance grade server storage media
HDD nternal storage for system nternal Storage for Recording AkID Redundancy	1 x SSD NVMe
HDD nternal storage for system nternal Storage for Recording AND Redundancy Alarms	1 x SSD NVMe 12 x 6TB SAS 3,5* surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6
HDD nternal storage for system nternal Storage for Recording AND Redundancy Alarma Narma Input/output in cameras	1 x SSD NVMe 12 x 6TB 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
HDD nternal storage for system nternal Storage for Recording RAID Redundancy Narms Marm Input/output in cameras Motion detection	1 x SSD NVMe 12 x STB 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
HDD nternal storage for system nternal storage for seconding RAID Redundancy Namm Input/output in cameras Vidion detection Video Analytics	1 x SSD NVMe 12 x 6TB 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
HDD nternal storage for system nternal storage for system Atalian Redundancy Alarms Alarms Valor detection //deo Analytics Femperature alarm	1 x SSD NVMe 12 x GTB 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
HDD Internal storage for system Internal Storage for Recording AkD Redundancy Alarms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR)	1 x SSD NVMe 12 x GTB 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 support of temperature alarm built in cameras
HDD htemal storage for system htemal storage for Recording AND Redundancy Narms Alarms Votion detection //deo Analytics Temperature alarm Licence plate recognition (LPR) Network	1 x SSD NVMe 12 x GTB 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 support of temperature alarm built in cameras
HDD Internal storage for system Internal Storage for Recording RAD Redundancy Internal Storage for Recording Internal Storage for Recording Internation Internatio	1 x SSD NVMe 1 x KTB 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 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 tan (inter stations.
HDD hternal Storage for system hternal Storage for System ALD Redundancy ALD Redundancy ALARTM Alarm Input/output in cameras Adolina detection Adolana detec	1 x SSD NVMe 12 x GTB 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 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,
HDD htemal storage for system htemal storage for Recording AND Redundancy Alarma Narma Narma Narma Laence Intercons Licence plate recognition (LPR) Network Network Interface Network Throughput Network Protocols Support	1 x SSD NVMe 12 x 6TB 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 support of temperature alarm built in cameras support of selected image analysis functions available in the camera 2 x Ethemet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras, up to 4
BD  Iternal storage for system Iternal storage for system Iternal Storage for Recording ItalD Redundancy ItalD Redundancy ItalMarms Italma ItalMarms ItalMa	1 x SSD NVMe 12 x FTE SAS 3,5 surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of laarm input and output built in cameras support of motion built in analytics in camera 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 all cameras, up to
HDD         Internal storage for system         Internal storage for Recording         WAID Redundancy         Warms         Jamm Input/output in cameras         Motion detection         Video Analytics         Temperature alarm         Leacnet pilet recognition (LPR)         Metwork         Network Interface         Network Protocols Support         Compatible Mobile Applications         MTZ	1 x SSD NVMe 12 x GTB SAS 3,5 surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of laarm 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 - RJAS interface, 10/100/1000 MbUs up to 450MbUts from all cameras, up to 450MbUts from all cameras, up to 450MbUts from all cameras, Max network throughput: 450MbUts for each network card HTTP, TCPJP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
HDD       teternal storage for system       neternal storage for Recording       KAID Redundancy       Narm Input/output in cameras       Motion detection       Motion detection       Motion detection       Video Analytics       Temperature alam       Jacence plate recognition (LPR)       Metwork       Hetwork       Vetwork       Compatible Mobile Applications       PTZ       PURCIONS	1 x SSD NVMe 12 x FTE 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 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 450Mbit/s to all client stations, Max network throughput: 450Mbit/s for each network card HTTP, TCPIP, IP-V4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
HDD         Internal storage for system         Internal storage for Recording         KAID Redundancy         Narm         Narm Input/output in cameras         Iodion detection         Iodion Analytics         Temperature alarm         Liecnce plate recognition (LPR)         Letwork Interface         Vedwork Nrooughput         Vetwork Throoughput         Stework Nrotocols Support         Compatible Mobile Applications         PTZ         PTZ Functions         VedMitional Interfaces	1 x SSD NVMe 12 x 6TB 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 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, up to
BD  Itemal storage for system Itemal storage for system Itemal Storage for Recording AND Redundancy AND Redundancy ANT Itemation Itemat	1 x SSD NVMe 12 x STB 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 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 450Mbit/s to all client stations, Max network throughput: 450Mbit/s for each network card HTTP, TCPIP, IP-44v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile
IDD         Internal storage for system         Internal storage for Recording         IAID Redundancy         IAID Redundancy         Iaarns         Iaarns         Idetection         Idetection         Irideo Analytics         emperature alarn         icence plate recognition (LPR)         Idetwork         Idetwork Interface         Idetwork Protocols Support         compatible Mobile Applications         YTZ         Idditional Interfaces         JSB Ports         Departing System	1 x SSD NVMe 1 2 x FIE SAS 3,5° surveillance grade server storage media RAID types: RAID 0, RAID 1, RAID 5, RAID 6 support of lairm input and output built in cameras support of motion detection built in cameras support of temperature alam built in cameras support of temperature alam 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 from all cameras, and cameras,
BD         Internal storage for system         Internal storage for Recording         KAID Redundancy         Namm         Redundancy         Namm Input/output in cameras         Internal storage for Recording         Namm Input/output in cameras         Internal storage for Recording         Value Reconstruction         Internal storage for Recording         Network         Network Interface         Network Protocols Support         Compatible Mobile Applications         PTZ         Totions         Nadditional Interfaces         SIS Ports         Deparating System         Deparating System	1 x SSD NVMe 1 2 x FTE 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 support of selected image analysis functions available in the camera 2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s ton all cameras, up to 450Mbit/s ton all client stations, Max metwork throughput: 450Mbit/s for each network card HTTP, TCPIP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, 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 Microsoft Windows 10 IoT
HDD           Internal Storage for system           Internal Storage for Recording           ARD Redundancy           Alarms           Alarms           Alarms           Alarms           Uride Analytics           Temperature alarm           Ucience plate recognition (UPR)           Network           Network Interface           Network Throughput           Compatible Mobile Applications           PTZ           PTS           Operating System           Recording and Surveillance System	1 x SSD NVMe 1 2 x FIE 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 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, up to 450Mbit/s from all cameras, and cameras,
HDD           Internal storage for system           Internal storage for Recording           RAID Redundancy           Alarms           Alarms           Alarms           Alarms           Internal storage for System           Motion detection           Video Analytics           Temperature alarm           Licence plate recognition (LPR)           Network           Network Interface           Network Protocols Support           Compatible Mobile Applications           PTZ           PTZ functions           Additional Interfaces           USB Ports           Operating System           Recording and Surveillance System           Additional Software	1 x SSD NVMe 12 x 6TB 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 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 from all cameras, and cameras, and cameras, and cameras, and cameras, and cameras, and cameras, and cameras, an
HBD HBC	1 x SSD NVMe 12 x KTB 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 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, up to 450Mbit/s from all cameras, up to 450Mbit/s from all cameras, up to 450Mbit/s form all cameras, up to 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NNS 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 NNS (Novus Management System) NMS, Internet Explorer



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
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.