NOVUS

NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR X-4U-III



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
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 8 x SATA 3,5"
- •External arrays support
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NOVUS MANAGEMENT SYSTEM VSS
- •Compatible with all NOVUS IP cameras

COMPATIBILITY



DIMENSIONS





VIDEO

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 • (purchase of the appropriate license is required)
Dualstreaming Support	yes
DISPLAY	
Monitor Output	$1 \times \text{HDMI } 2.0\text{b}, 1 \times \text{Dual link-DVI}, 1 \times \text{Display Port } 1.2 \text{ (up to 3 monitors simultaneously)}$
Maximum Resolution	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)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 8 main streams (while recording: 80 main streams) • Playback up to: 8 main streams (while recording: 80 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • 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) • Playback up to: 4 main streams (while recording: 50 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 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)





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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)
5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 35 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
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Packup Mothods	LICE work (LIDE) for Flock drive). Notwork
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
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Backup File Format	· · · · · · · · · · · · · · · · · · ·
Backup File Format	JPEG, BMP, AVI, NMS
Backup File Format HDD Internal storage for system	JPEG, BMP, AVI, NMS 1 x SSD NVMe
HDD Internal storage for system Internal Storage for Recording	JPEG, BMP, AVI, NMS 1 x SSD NVMe
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media support of alarm input and output built in cameras
HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media support of alarm input and output built in cameras support of motion detection built in cameras
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media support of alarm input and output built in cameras support of motion detection built in cameras supported built in analytics in camera
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR)	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) NETWORK	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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 support of selected image analysis functions available in the camera
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) NETWORK Network Interface	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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 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 to all client
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) NETWORK Network Interface Network Throughput	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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 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 to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP,
Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) NETWORK Network Interface Network Throughput Network Protocols Support	JPEG, BMP, AVI, NMS 1 x SSD NVMe 8 available bays for 3,5" HDD surveillance grade storage media 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 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 to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA







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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,
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NOVUS MANAGEMENT SYSTEM VSS
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, 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

Note: The device requires registration and license activation. There is an option to activate a 60-day trial license. After this period, the purchase of a NOVUS MANAGEMENT SYSTEM VSS software license specific to the application is required. To choose the appropriate license, please contact the sales department.



