NoVus

NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR 5-4U-IV



KEY FEATURES













- •Video and audio channels: 180
- \bullet Recording speed up to 4500 fps at 1920 x 1080
- \bullet Supports resolution up to 4000 x 3000
- •Recorded stream size: 500 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- \bullet optional disk mounting: 4 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NOVUS MANAGEMENT SYSTEM VSS
- •Compatible with all NOVUS IP cameras

DIMENSIONS



427 mm



500 mm

Unit with the NOVUS MANAGEMENT SYSTEM VSS software installed adapted to 24/7 operation.

VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 180 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	$1 \times \text{HDMI } 2.0\text{b}, 1 \times \text{Display Port } 1.4, 1 \times \text{Dual link DVI-D (up to 3 monitors simultaneously)}$
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 68 sub streams or 20 main streams (while recording: 68 main streams) • Playback up to: 20 main streams (while recording: 68 main streams)
4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 58 sub streams or 12 main streams (while recording: 58 main streams) • Playback up to: 12 main streams (while recording: 58 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 56 sub streams or 10 main streams (while recording: 56 main streams) • Playback up to: 10 main streams (while recording: 56 main streams)
8MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 51 sub streams or 6 main streams (while recording: 51 main streams) • Playback up to: 6 main streams (while recording: 51 main streams)
12MPX IP Camera	Recording up to: 50 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 3 main streams (while recording: 40 main streams) • Playback up to: 3 main streams (while recording: 40 main streams)
PERFORMANCE - H.265	



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2MPX IP Camera	Recording up to: 180 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 16 main streams (while recording: 60 main streams) • Playback up to: 16 main streams (while recording: 60 main streams)
4MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 10 main streams (while recording: 50 main streams) • Playback up to: 10 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 105 main streams (while displaying: 8 sub streams) • Display up to: 48 sub streams or 7 main streams (while recording: 48 main streams) • Playback up to: 7 main streams (while recording: 48 main streams)
8MPX IP Camera	Recording up to: 85 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 4 main streams (while recording: 42 main streams) • Playback up to: 4 main streams (while recording: 42 main streams)
12MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 36 sub streams or 3 main streams (while recording: 36 main streams) • Playback up to: 3 main streams (while recording: 36 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 Data/Time Events "Toyt in"
Necorded Data Scaren	By Date/Time, Events, "Text-in"
BACKUP	by Date/Time, Events, Text-III
	USB port (HDD lor Flash drive), Network
ВАСКИР	
BACKUP Backup Methods	USB port (HDD lor Flash drive), Network
BACKUP Backup Methods Backup File Format	USB port (HDD lor Flash drive), Network
BACKUP Backup Methods Backup File Format HDD	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS
BACKUP Backup Methods Backup File Format HDD Internal storage for system	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe
BACKUP Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe
BACKUP Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 available bays for 3,5" HDD surveillance grade storage media
BACKUP Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 available bays for 3,5" HDD surveillance grade storage media support of alarm input and output built in cameras
BACKUP Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording ALARMS Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 Backup Methods 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)	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 Backup Methods 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	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum
BACKUP Backup Methods 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	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s from all cameras • up to 500Mbit/s to all client
BACKUP Backup Methods 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	USB port (HDD lor Flash drive), Network JPEG, BMP, AVI, NMS 1 x SSD NVMe 4 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 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s from all cameras • up to 500Mbit/s to all client stations • Max total network throughput: 500Mbit/s HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP,







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PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	5 x USB 3.2, 2 x USB 2.0, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NOVUS MANAGEMENT SYSTEM VSS
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, others
Control	PC mouse and keyboard (in-set included), NV-KBD/ACVSS 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)	427 (W) x 177 (H) x 500 (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
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. Data presented in table above for substreams are given for 640x480 resolution.



