NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR 5-4U-IV



KEY FEATURES









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

DIMENSIONS



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 x HDMI 2.0b, 1 x Display Port 1.4, 1 x 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 Date/Time, Events, “Text-in”

BACKUP

Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	4 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s
Network Throughput	up to 500Mbit/s from all cameras • up to 500Mbit/s to all client stations • Max total network throughput: 500Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1X, SMTP, SAMBA, HTML5
Compatible Mobile Applications	VSS WEB CLIENT functionality available from web browsers (Chrome, Edge, Firefox, Opera, Safari)

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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 • with Hot-Swap function (allowing to replace the power supply without turning off the unit)
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.