



NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR 7-T-IV



X FUNCTIONS













KEY FEATURES

- •Video and audio channels: 180 •Recording speed up to 4500 fps at 1920 x 1080

- 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
 Recording and surveillance system: NOVUS

 MANAGEMENT SYSTEM VSS

 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 Maximum Resolution	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously) 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	Recording up to: 160 main streams (while displaying: 8 sub streams)
2MPX IP Camera	Display up to: 80 sub streams or 25 main streams (while recording: 80 main streams) Playback up to: 25 main streams (while recording: 80 main streams) Recording up to: 100 main streams (while displaying: 8 sub streams)
4MPX IP Camera	Display up to: 76 sub streams or 14 main streams (while recording: 76 main streams) Playback up to: 14 main streams (while recording: 76 main streams)
5MPX IP Camera	Recording up to: 85 main streams (while displaying: 8 sub streams) Display up to: 68 sub streams or 13 main streams (while recording: 68 main streams) Playback up to: 13 main streams (while recording: 68 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) Display up to: 60 sub streams or 9 main streams (while recording: 70 main streams) Playback up to: 9 main streams (while recording: 70 main streams)
12MPX IP Camera	Recording up to: 50 main streams (while displaying: 8 sub streams) Display up to: 44 sub streams or 3 main streams (while recording: 44 main streams) Playback up to: 3 main streams (while recording: 44 main streams)
Performance - H.265	
2MPX IP Camera	Recording up to: 180 main streams (while displaying: 8 sub streams) Display up to: 75 sub streams or 21 main streams (while recording: 76 main streams) Playback up to: 21 main streams (while recording: 76 main streams)
4MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) Display up to: 64 sub streams or 13 main streams (while recording: 64 main streams) Palyback up to: 13 main streams (while recording: 64 main streams)
5MPX IP Camera	Recording up to: 110 main streams (while displaying: 8 sub streams) Display up to: 64 sub streams or 11 main streams (while recording: 64 main streams) Palyaback up to: 11 main streams (while recording: 64 main streams)
SMPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) Display up to: 54 sub streams or 6 main streams (while recording: 54 main streams) Palyaback up to: 6 main streams (while recording: 54 main streams)
12MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) Palyaback up to: 4 main streams (while recording: 40 main streams)
Recording	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schadula	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with
Schedule Proalarm/Postalarm	an accuracy of: 15 min, possibility of combining individual recording modes
Schedule Prealarm/Postalarm Playback	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 Up to: 30s / Up to: 600s
Prealarm/Postalarm	an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm Playback	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s
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" USB port (HDD for Flash drive)
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"
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods 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" USB port (HDD for Flash drive) JPEG, BMP, AVI, NMS
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Pile 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" USB port (HDD for Flash drive) JPEG, BMP, AVI, NMS 1 x SSD NVMe
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods 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" USB port (HDD for Flash drive) JPEG, BMP, AVI, NMS
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/Time, Events, "Text-in" USB port (HDD for Flash drive) JPEG, BMP, AVI, NMS 1 x SSD NVMe
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Hethods Backup File Format HDD Internal storage for system Internal Storage for Recording Alarms Alam Input/output in cameras 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" USB port (HDD for Flash drive) 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
Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording 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" USB port (HDD for Flash drive) 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 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 Alarms 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/Time, Events, "Text-in" USB port (HDD for Flash drive) 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
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Prealarm/Postalarm Playback Recorded Data Search Backup Backup Hethods 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)	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD lor Flash drive) 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 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
Prealarm/Postalarm Playback Recorded Data Search 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) System Reactions to Alarm Events Network	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 support of motion detection built in cameras support of temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RI45 interface, 10/100/1000 Mbit/s - maximum bandwidth 350 Mbit/s
Prealarm/Postalarm Playback Recorded Data Search 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) System Reactions to Alarm Events	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 supported built in analytics in camera support of motion detection built in cameras support of temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s - maximum bandwidth 350 Mbit/s 1 x Ethernet - 2rqcze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s from all cameras,
Prealarm/Postalarm Playback Recorded Data Search 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) System Reactions to Alarm Events Network Network Interface	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 support of motion detection built in cameras support of temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s - maximum bandwidth 350 Mbit/s 1 x Ethernet - Zqczc RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Sqczc RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s
Prealarm/Postalarm Playback Recorded Data Search 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) System Reactions to Alarm Events Network Network Throughput Network Protocols Support Compatible Mobile Applications	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 supported built in analytics in camera supported built in analytics in camera support of temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s - maximum bandwidth 350 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhacze RJ45, 10/100/100/100/100/100/100/100/100/100/
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Prealarm/Postalarm Playback Recorded Data Search Backup Backup Hebods Backup File Format HDD Internal Storage for system Internal Storage for Recording Alarm Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Network Interface Network Throughput Network Protocols Support Compatible Mobile Applications PTZ PTZ Functions Additional interfaces USB Ports Operating System Operating System	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 support of motion detection built in cameras support of temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000 Mbits - maximum bandwidth 350 Mbit/s 1 x Ethernet - RJ45 interface, 10/100/1000 Mbits - maximum bandwidth 500 Mbit/s up to 500Mbit/s to all client stations, Max total network throughput EsoMbit/s HTTP, TCPIRI, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1X, SMTP, SAMBA, HTMLS NMS Mobile Microsoft Windows 10 toT
Prealarm/Postalarm Playback Recorded Data Search 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) System Reactions to Alarm Events Network Network Interface Network Protocols Support Compatible Mobile Applications PTZ PTZ Functions Additional interfaces USB Ports Operating System Recording System Recording and Surveillance System	an accuracy of: 15 min, possibility of combining individual recording modes Up to: 30s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive) 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 temperature alarm built in cameras support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s - maximum bandwidth 350 Mbit/s 1 x Ethernet - zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s 1 x Ethernet - Zhace RJ45, 10/100/100/100/100/100/100/100/100/100/
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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)	185 (W) x 408 (H) x 475 (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Operating Temperature	5°C ~ 35°C

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.