

NOVUS MANAGEMENT SYSTEM VSS IP Recorder

NMS VSS NVR 3-4U-IV



FUNCTIONS



KEY FEATURES

•Video and audio channels: 170 •Recording speed up to 4250 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 •Recording and surveillance system: NOVUS MANAGEMENT SYSTEM VSS

•Compatible with all NOVUS IP cameras

177 mm

Operating System

DIMENSIONS



427 mm



500 mm

Video	
IP Camera Recording	140 channels at 1920x1080 (video+audio) using H.264 codec
	170 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000 H.264, H.264+, H.265, H.265+, MIPEG
Supported Codes	H.204, H.204+, H.205, H.205+, MJPEG Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Supported Cameras and Protocols	(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: 140 main streams (while displaying: 8 sub streams)
ZMPA in Califera	Display up to: 48 sub streams or 17 main streams (while recording: 48 main streams) Playback up to: 17 main streams (while recording: 48 main streams)
4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) Display up to: 40 sub streams or 9 main streams (while recording: 40 main streams)
	Playback up to: 9 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 40 sub streams or 6 main streams (while recording: 40 main streams) Playback up to: 6 main streams (while recording: 40 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) Display up to: 34 sub streams or 4 main streams (while recording: 34 main streams) Playback up to: 4 main streams (while recording: 34 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams)
Performance - H.265	
	Recording up to: 170 main streams (while displaying: 8 sub streams)
2MPX IP Camera	Display up to: 40 sub streams or 14 main streams (while recording: 40 main streams) Playback up to: 14 main streams (while recording: 40 main streams)
4MPX IP Camera	Recording up to: 128 main streams (while displaying: 8 sub streams) Display up to: 40 sub streams or 6 main streams (while recording: 40 main streams) Playback up to: 6 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) Display up to: 34 sub streams or 5 main streams (while recording: 34 main streams) Playback up to: 5 main streams (while recording: 34 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams)
BMPA IP Camera	Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 sub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams)
	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 sub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams)
12MPX IP Camera Recording	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 ub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS,
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12MPX IP Camera Recording	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 ub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS,
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12MPX IP Camera Recording Recording Mode Schedule	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 26 sub streams or 2 main streams (while recording: 28 main streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 26 sub streams or 2 main streams (while recording: 28 main streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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
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12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search	Playback up to: 3 main streams (while ecording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 sub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 56 main streams (while displaybing: 8 ub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 By Date/Time, Events, "Text-in"
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recordel Data Search Backup Backup Methods	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 ub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD Ior Flash drive), Network
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 ub streams) Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD Ior Flash drive), Network
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorde Data Seach Backup File Format Backup File Format HDD	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 55 main streams (while displaying: 8 sub streams) Displayack up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 By Date/Time, Events, "Text-in" USB port (HDD for Flash drive), Network JFC6, BMP, AVI, NMS
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Prealarm/Postalarm Backup Backup Methods Backup File Format HDD Internal storage for system	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaybing: 8 ub streams) Pisplayback up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 By Date/Time, Events, "Text-in" USB port (HDD lor Flash drive), Network JPEG, BMP, AVA, NMS 1 x SSD NVME
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Methods Backup Flie Format HDD Internal storage for system Internal storage for Recording Alarms Alarm Input/output In cameras	Playback up to: 3 main streams (while recording: 32 main streams) Recording up to: 65 main streams (while displaying: 8 ub streams) Playback up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm (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: 305 / Up to: 600s Up to: 305 / Up to: 600s USB port (HDD for 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
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Payback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal Storage for system Internal Storage for Recording Alarm Inpudvolupti in cameras Motion detection	Playback up to: 3 main streams (while recording: 32 main streams) Pisplay up to: 28 sub streams or 2 main streams (while incoving: 8 sub streams) Pisplay up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Pisplay up to: 28 sub streams (while recording: 28 main streams) Pisplay at up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 By Date/Time, Events, "Text-in" USB port (HDD for 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
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup File Format HDD Internal storage for system Internal Storage for Recording Alarms Alarest Motion detection Video Analytics	Playback up to: 3 main streams (while recording: 32 main streams) Pecording up to: 56 main streams (while decouding: 8 ub streams) Playback up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD lor Flash drive), Network JPEG, BMP, AVA, 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 notion detection built in cameras supported built in analytics in camera
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recordel Data Search Backup Backup Pile Format Backup File Format HDD Internal Storage for system Internal Storage for recording Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm	Playback up to: 3 main streams (while recording: 32 main streams) Pisopiary up to: 28 sub streams or 2 main streams (while incording: 8 sub streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" JESB port (HDD Ior Flash drive), Network JFEG, 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
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Payback Recorded Data Search Backup Backup Methods Backup Teil Format HDD Internal storage for system Internal storage for system Internal storage for system Internal storage for Apytics Temperature alarm Video Analytics Temperature alarm Licence plate recognition (LPR)	Playback up to: 3 main streams (while recording: 32 main streams) Display up to: 28 sub streams or 2 main streams (while in seconding: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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: 60os By Date/Time, Events, "Text-in" USB port (HDD for Flash drive), Network JPEG, BMP, AV, 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 motion detection built in cameras support of selected image analysis functions available in the camera
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recordel Data Search Backup Backup Pile Format Backup File Format HDD Internal Storage for system Internal Storage for recording Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm	Playback up to: 3 main streams (while recording: 32 main streams) Picopius up to: 28 sub streams or 2 main streams (while incoving: 8 sub streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm Individual setums 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: 00s / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for 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 support of temperature alarm built in cameras
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup Methods Backup Methods Internal storage for system Internal Storage for Recording Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Literney Ister Recording (LIPR) System Reactions to Alarm Events	Playback up to: 3 main streams (while recording: 32 main streams) Pecording up to: 56 main streams (while decouding: 8 ub streams) Playback up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) 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 By Date/Time, Events, "Text-in" USB pot (HDD lor Flash drive), Network JPEG, BMP, AVA, 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 rotion detection built in cameras support of related inage analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Pavalard Pavalard Backup Methods Backup Methods Backup File Format HDD Internal Storage for Recording Alarm Inpudvulput in cameras Motion detection Video Analytics Temperature alarm Lience plate recognition (LPR) System Reactions to Alarm Events	Playback up to: 3 main streams (while recording: 32 main streams) Picopiany up to: 28 sub streams or 2 main streams (while mecording: 28 main streams) Piayback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" USB port (HDD for Flash drive), Network JPEG, BMP, AVI, NMS Support of UP of alarm input and output built in cameras support of alarm input and output built in cameras support of alarm input and output 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, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s from all cameras, Supports to all cameras, Support for the streams and the camera support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of super analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera Support of selected image analysis functions available in the camera (Selected image) Selected image analysis functions available in the camera (Selected image) Selected image) Selected image) Selected image) Selected image) S
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Pavatom/Postalarm Pavatom/Postalarm Backup/ Backup Methods Backup Methods Backup Methods Internal storage for system Internal storage for Recording Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Network interface	Playback up to: 3 main streams (while recording: 32 main streams) Pecording up to: 56 main streams (while displaying: 8 ub streams) Pipayback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 By Date/Time, Events, "Text-in" USB port (HDD for 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 alarm input and output built in cameras support of teleted image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/12000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s from all cameras,
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup III Format Backup III Format HDD Internal storage for system Internal storage for Recording Alarm Input/output in cameras Midio adeection Video Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Network Throughput	Playback up to: 3 main streams (while recording: 32 main streams) Picplay up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 8 ub streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) 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: 30 / Up to: 600s By Date/Time, Events, "Text-in" USB pot (HDD for Flash drive), Network JPEG, BMP, AVA, 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 notion detection 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, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s up to 500Mbit/s to all client stations; Mattain network throughput: 500Mbit/s HTTP, TCIP/R, NV4/, OUP, HTTP, FTP, INF, FTP, OHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1X, SMTP, SAMBA,
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup III Format HDD Internal storage for system Internal storage for Recording Alarm Inut/Joutput in cameras Midio atelection Video Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Interface Network Throughput Network Throughput	Playback up to: 3 main streams (while recording: 32 main streams) Pisplay up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Pisplay up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Playback up to: 3 main streams (while recording: 28 main streams) Playback up to: 3 main streams (while recording: 28 main streams) Individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accurscy 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), Network JPEG, BMP, AV, NMS 1 x SSD NVNE 4 available bays for 3.5" HDD surveillance grade storage media support of main doubt to built in cameras support of main analytics in camera support of main analytics in camera support of selected in maje tin cameras support of selected in majes functions available in the camera e-mail. Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s Up to 500Mbit/s from all clameras Support of selected inage analysis functions available in the camera e-mail. Screen Message, Recording Activation, PTZ HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IEEE 802.1x, SMTP, SAMBA, HTTP, TCP/PP, IPV4/v6, UDP, HTTPS, FTP, DHCP, DNS, NTP, RTSP, SNMP, QoS, IE
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup Methods Backup The Format HDD Internal storage for system Internal storage for system Internal storage for Recording Alarm Input/buduptu in cameras Motion detection Viele Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Network Throughput Network Protocols Support Compatible Mobile Applications	Playback up to: 3 main streams (while recording: 32 main streams) Playback up to: 28 sub streams or 2 main streams (while in scording: 28 main streams) Playback up to: 2 main streams (while recording: 28 main streams) Playback up to: 3 main streams (while recording: 28 main streams) Playback up to: 3 main streams (while recording: 28 main streams) Playback up to: 3 main streams (while recording: 28 main streams) Individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accurscy 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), Network JPEG, BMP, AV, NMS 1 x SSD NVNE 4 available bays for 3.5" HDD surveillance grade storage media support of motion detection built in cameras support of main analytics in camera support of main analytics in camera support of selected inage analysis functions available in the camera e-mail. Screen Message, Recording Activation, PTZ 1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s - maximum bandwidth 500 Mbit/s Up to 500Mbit/s from all clamerations Mark total network throughput: 500Mbit/s Mark total network throughput:
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup Methods Backup Methods Backup Methods Marms Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Literneol Face Network Interface Network Interface Network Protocols Support Compatible Mobile Applications Prez	Playback up to: 3 main streams (while recording: 32 main streams) Picplay up to: 28 sub streams or 2 main streams (while recording: 28 main streams) Pipyback up to: 2 main streams (while recording: 28 main streams) Pipyback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 USB port (HDD for Flash drive), Network Piper, BMP, AVI, NMS 1 x SSD NVME 1 X SSD NVME
12MPX IP Camera Recording Recording Mode Schedule Prealarm/Postalarm Playback Recorded Data Search Backup Backup Methods Backup Methods Backup Methods Backup Methods Internal storage for system Internal storage for Recording Alarm Input/output in cameras Motion detection Video Analytics Temperature alarm Licence plate recognition (LPR) System Reactions to Alarm Events Network Throughput Network Throughput Network Throughput Network Protocols Support Compatible Mobile Applications PTZ Functions	Playback up to: 3 main streams (while recording: 32 main streams) Picplay up to: 28 sub streams or 2 main streams (while in ecording: 28 main streams) Pipyback up to: 2 main streams (while recording: 28 main streams) Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm 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 USB port (HDD for Flash drive), Network PFC, BMP, AVI, NMS 1 x SSD NVME 1 X SSD NV

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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, NMS-ANPR Software, DSC Systems, 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.