## NOVUS

### **NOVUS MANAGEMENT SYSTEM VSS IP** Recorder

#### NMS VSS NVR X-2U-III





#### **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: 12 x SATA 3,5"
- •RAID controller protects recordings
- •External arrays support
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NOVUS
- MANAGEMENT SYSTEM VSS
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

#### **COMPATIBILITY**









#### 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	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)

recording: 160 main streams)



4MPX IP Camera

Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while



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USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C 2 x USB 2.0,
ADDITIONAL INTERFACES	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
РТZ	
Compatible Mobile Applications	NMS Mobile
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
NETWORK	
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
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Video Analytics Temperature alarm	supported built in analytics in camera support of temperature alarm built in cameras
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Motion detection	support of motion detection built in cameras
Alarm Input/output in cameras	support of alarm input and output built in cameras
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RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
Internal Storage for Recording	12 available bays for 3,5" HDD surveillance grade storage media
Internal storage for system	1 x SSD NVMe
HDD	
Backup File Format	JPEG, BMP, AVI, NMS
Backup Methods	USB port (HDD lor Flash drive), Network
BACKUP	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
PLAYBACK	
Prealarm/Postalarm	Up to: 30s / Up to: 600s
Due als was (De atala : : :	possibility of combining individual recording modes
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min,
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
RECORDING	
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams)  • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams)  • Playback up to: 4 main streams (while recording: 120 main streams)







# NOVUS MANAGEMENT SYSTEM VSS IP Recorder NMS VSS NVR X-2U-III

### **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)	437 (W) x 89 (H) x 648 (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

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.

