NOVUS

Compatible with all NOVUS IP cameras

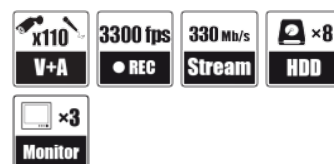**NMS Network Video Recorder**

NMS NVR X-4U/24

Brief

- Video and audio channels: 110
- Recording speed up to 3300 fps at 1280 x 720
- Supports resolution up to 2592 x 1944
- Recorded stream size: 330 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 8 x 3 TB server-dedicated SAS for 24/7 recording
- Quick start up due to the system SSD
- External arrays support
- Operating system: Microsoft Windows Embedded 8
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

Software

☑ NMS On board
☑ Windows Embedded Standard 8

Functions

x110 V+A | 3300 fps ● REC | 330 Mb/s Stream | ×8 HDD
×3 Monitor

VIDEO	
IP Cameras	110 channels at 1280 x 720 resolution (video + audio)
Supported Cameras/Protocols	NOVUS, RTSP
Supported Resolution	max. 2592 x 1944
Compression	H.264, MJPEG
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 2 x DVI, 1 x Display Port (up to 3 monitors simultaneously)*
Dualstreaming Support	yes
AUDIO	
Audio Output	1 x line-out (Jack 3.5 mm) 1 x HDMI 1 x S/PDIF (optical)
RECORDING	
Recording Speed	3300 fps (110 x 30 fps for 1280 x 720) 2400 fps (80 x 30 fps for 1920 x 1080) 2400 fps (80 x 15 fps for 2048 x 1536) 960 fps (80 x 12 fps for 2592 x 1944)
Stream Size	330 Mb/s in total from all cameras

Recording Mode	time-lapse, triggered by: REC/PANIC button, alarm input, motion detection
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 30 s/up to 600 s
DISPLAY	
Display Speed	1080 fps (36 x 30 fps when recording 110 channels at 1280 x 720)** 1350 fps (45 x 30 fps when recording 80 channels at 1920 x 1080)** 900 fps (60 x 15 fps when recording 80 channels at 2048 x 1536)** 720 fps (60 x 12 fps when recording 80 channels at 2592 x 1944)**
PLAYBACK	
Playback Speed	480 fps (16 x 30 fps for 1280 x 720) 270 fps (9 x 30 fps for 1920 x 1080) 270 fps (9 x 15 fps for 2048 x 1536) 108 fps (9 x 12 fps for 2592 x 1944)
Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPEG, BMP, AVI, NMS
STORAGE	
Internal storage for recording	built-in: 8 x HDD 3.5" 3 TB SATA 24/7 server grade for recording
Internal storage for system	built-in: 1 x SSD 2,5" SATA
ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output ***
Motion Detection	supports camera's motion detection***
System Reaction to Alarm Events	buzzer, e-mail, SMS, screen message, recording activation, PTZ
NETWORK	
Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP
PC/MAC Software	NMS, Internet Explorer/-
Bandwidth	330 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans***
AUXILIARY INTERFACES	
USB Ports	10 x USB 2.0, 2 x USB 3.0
OPERATING SYSTEM	
Operating System	Microsoft Windows Embedded 8
Recording and Surveillance System	NMS (Novus Management System)

Operation Mode	pentaplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	452 (W) x 178 (H) x 648 (D)
RACK Mount 19"	4U
Weight	28 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Operating Temperature	5°C ~ 35°C

452 mm

178 mm

648 mm