



**NOVUS
MANAGEMENT
SYSTEM**

PROFESSIONAL SOLUTION
FOR VIDEO SURVEILLANCE SYSTEMS



AAT HOLDING S.A.



**NOVUS
MANAGEMENT
SYSTEM**



banks public institutions
production facilities public transport
stores and shopping centres residential estates
special facilities hotels
airports **education establishments**
office buildings

scalability

NMS ANPR POS NMS mobile
systems integration

easy operation

software & hardware

intelligent cameras support

IP, AHD H.265, H.264+, H.264

MPEG4, MJPEG 12 Mpx

8 Mpx / 4K



NMS (NOVUS MANAGEMENT SYSTEM)

is a complex solution for video surveillance, built up and constantly being developed by the team of Polish software developers, in order to implement new technologies and create the highest monitoring standards.

NMS consists of precisely selected and composed elements, such as server units, cameras, video servers, operation stations, keyboards and the brain behind the system – NMS application.

Wide range of NMS system settings for sharing the video streams enables creation of complex monitoring systems with dispersed recording and surveillance centres which accumulate many personalized operation stations. Flexible and fully customizable user interface and multi-screen mode enable the operator to work efficiently.

Additional modules, such as POS, NMS ANPR, network input/output module, also improve and facilitate working with the system. Further, the modules give the opportunity to manage not only the video system, but also to integrate cash registers, barcode scanners and number plate recognition system.

Integration with IP NOVUS cameras with intelligent image analysis functions provides the possibility to create advanced installations usable in difficult conditions and using the IP NOVUS thermal cameras enables danger detection even when the standard cameras with IR cannot meet the requirements.

MONITOR 1

OPERATOR'S VIEW

- 1 Video streams visualization
- 2 Flexible, graphic user interface
- 3 Devices management



MONITOR 2

PLAYBACK AND RECORDINGS BACKUP

- 4 Playback of recorded material
- 5 Playback panel
- 6 Recordings export



MONITOR 3

MAPS AND EVENTS

- 7 Corridor view
- 8 Events monitoring module
- 9 Multilevel, interactive maps module connected with editable cross-references



NMS FUNCTIONALITY



MONITOR 4

POS & NMS ANPR INTEGRATIONS

- 10 Interactive video window with text data
- 11 Tool for searching and filtering POS & ANPR events
- 12 Module of POS devices configuration and number plate recognition



MONITOR 5

ALARM EVENTS SUPPORT

- 13 Interactive alarm video window
- 14 Inputs/outputs panel
- 15 Module of events configuration



MONITOR 6

ADMINISTRATOR PANEL

- 16 Recorder module
- 17 Elastic recording schedule
- 18 Permissions configuration module



FREE LICENSE

NMS system is distributed with no extra fees – you just download the application from www.novuscctv.com/en website. While combining the NMS with NOVUS branded devices you get the opportunity to use the complete functionality of this advanced software for video surveillance system. The license allows you to use the software regardless of the system size, number of the devices or the size of the recordings database.

FLEXIBILITY

While installing the NMS software we ourselves decide how it is going to be used in future. It can operate as a standard application where the streams from cameras are being simultaneously recorded and observed on a single workstation by the operator in one location or only as a recording/playback application (NMS Server/NMS Client). According to the chosen purpose of the workstation there is an optimized software version.

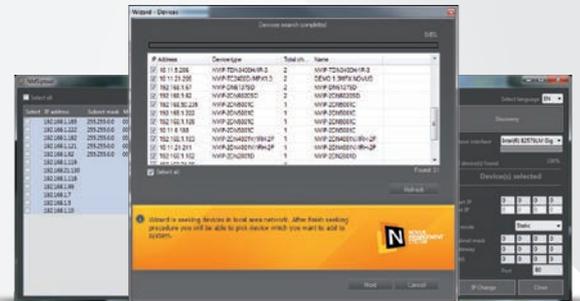
ONE SOFTWARE – FULL POSSIBILITIES

NMS application enables integration of various technologies of video surveillance systems. Regardless of applied system type, all the IP and AHD solutions can be integrated in NMS software, thus the user has one system to manage all devices from one place. Combining cameras of various systems, common camera systems, one common database or one management desktop are a great convenience for the operator.



CONFIGURATION WIZARD

IP system is easy to install. NMS software offers the installer tools facilitating quick and smooth configuration of IP monitoring system.



TWO-WAY AUDIO

When connecting a microphone, it is possible to deliver voice messages from NMS program by speakers connected to the cameras. This function is very useful for city monitoring.

H.264, H.264+ i H.265 COMPRESSION

NMS software supports devices with H.264, H.264+ and H.265 standard. Use of H.264+ and H.265 compression saves the disk space and enables the reduction of transmitted data streams size by tens of percent compared to H.264.



PTZ CAMERAS CONTROL

There are 3 methods of PTZ cameras control

- From the PTZ screen panel
- With computer mouse on the image view from camera
- Using dedicated NMS (USB) keyboard



PTZ panel

PTZ camera

NMS APPLICATION AS A SERVICE

NMS is usually used to operate as an application but it can be configured to work as a service. This enables constant NMS operation even after logging out and accordingly, the continuation of recording.



NMS – DCZ (Videotec) keyboard

ADDITIONAL APPLICATIONS



NMS IP Tool

Search tool for devices and changing their IP addresses



NMS Player

Independent application for NMS recordings playback on any computer



NMS Calc

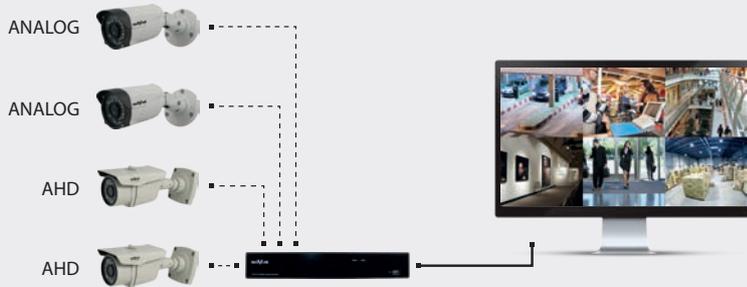
Optimal NMS workstation selection tool



NMS Quick Support

Application for remote support

AHD SYSTEMS



IP STANDALONE SYSTEMS



DATA STORAGE



MATRIX



PORTABLE HARD DRIVE

INTEGRATED DEVICES (POS)



BARCODE READER



CASH REGISTER



WEIGHBRIDGE



ATM



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**NMS
SERVER**

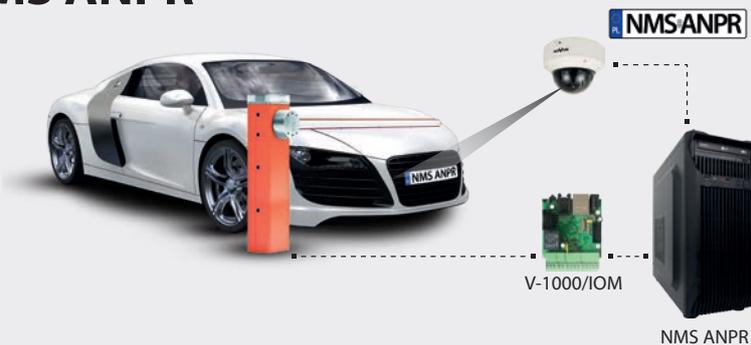
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NMS ANPR



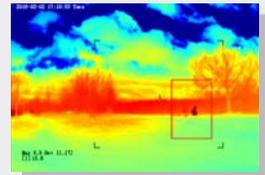
REMOTE ACCESS



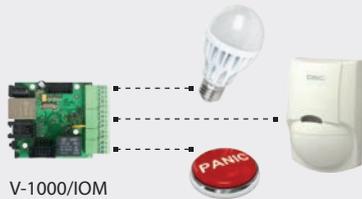
IP CAMERAS



VCA / THERMAL VISION



NETWORK INPUT/OUTPUT MODULE



SMS + E-MAIL



CLIENT STATION



HARDWARE SERVER

- video and audio channels: 110
- recording speed up to 3300 fps at 1280 x 720 resolution
- supports resolution up to 4000 x 3000 (12 Mpx)
- recorded stream size: 250 Mb/s in total from all cameras
- supports up to 3 monitors simultaneously
- built-in HDDs: 12 x up to 6 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- quick start up due to the SSD system
- external arrays support
- operating system: Microsoft Windows Embedded 8
- recording and surveillance system: NMS (NOVUS Management System)
- compatible with all NOVUS IP cameras
- redundant PSUs: 2



HARDWARE CLIENT

- monitoring of up to 120 channels
- supports resolution up to 4000 x 3000 (12 Mpx)
- supports up to 6 monitors simultaneously
- quick start up due to the SSD system
- operating system: Microsoft Windows Embedded 8
- recording and surveillance system: NMS (NOVUS Management System)
- compatible with all NMS Network Video Recorders
- integration with: AHD NOVUS recorders, DSC intruder alarm systems, NMS ANPR systems, POS systems (Posnet, Upos and others)



NMS IS ALSO HARDWARE!

NMS NVR AND **NMS CLIENT** UNITS
ENABLE TO BUILD
UNLIMITEDLY LARGE SYSTEMS



FROM LESS

TO MORE ADVANCED



NMS mobile

SECURITY WITH NO BORDERS

FREE NMS MOBILE APP FOR REMOTE
MONITORING

An intuitive and easy to use software for remote monitoring from any place and at any time. It is designed for mobile phones and tablets with Android and iOS systems.



Android
Compatible



iOS
Compatible



Download from **Google Play**



Download from **Apple Store**



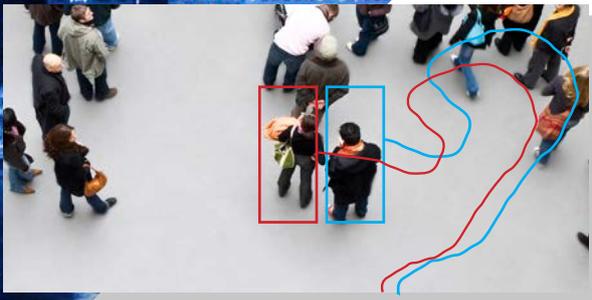


VCA

CAMERAS WITH INTELLIGENT IMAGE ANALYSIS FUNCTIONS

NMS is compatible with NOVUS IP cameras equipped with intelligent analysis of video image functions:

- tamper detection
- object appearance and disappearance detection
- crossing one or two lines by the object
- entering predefined zone
- loitering and gathering detection
- moving with forbidden speed
- moving into forbidden direction
- forbidden parking detection.



Detection of loitering and gathering



Measurement of movement speed



Detection of object appearance/disappearance



People counting



Crossing the line

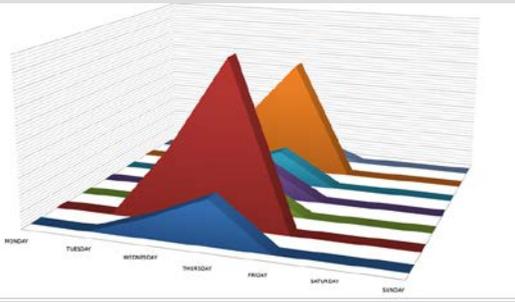
ADVANCED FUNCTIONS SUPPORT: INTELLIGENCE AND THERMAL VISION

REPORTING

Using intelligent NOVUS cameras in NMS system provides much more information. Besides the video stream user also receives image analysis results. Appropriate editing of the data enables statistics and reports creation e.g.:

- number of store or bank visitors,
- number of people watching an advertisement, a banner or exhibits in museum,
- number of changes in the image data e.g.: frequency of cars rotation in the parking lot,
- number of people/vehicles moving into forbidden direction (parking, bicycle paths, one-way streets).

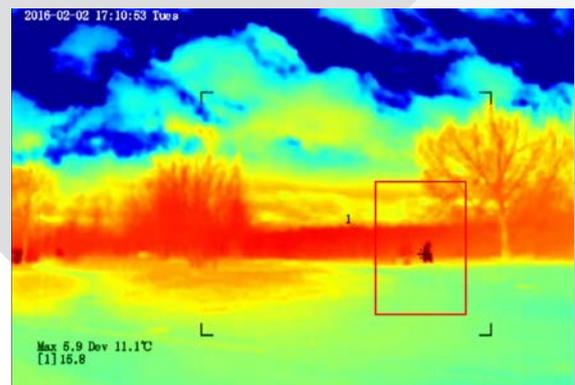
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11.02.2016	14:34:20	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
12.02.2016	14:34:19	Crossing one line	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
15.02.2016	14:34:11	Gathering detection	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
16.02.2016	14:34:10	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:33:51	Gathering detection	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:33:49	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:44	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.01.2016	14:33:03	Illegal parking	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.01.2016	14:33:02	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
14.01.2016	14:32:24	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
17.01.2016	14:32:15	Crossing two lines	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
24.01.2016	14:31:39	Illegal parking	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
26.01.2016	14:31:37	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
20.02.2016	14:29:30	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
21.02.2016	14:29:26	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
23.02.2016	14:29:25	Crossing one line	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
23.02.2016	14:29:20	Crossing two lines	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
24.02.2016	14:29:19	Gathering	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:29:17	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:44	Zone violation	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:43	Crossing one line	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:31	Gathering detection	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:30	Object left	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80
11.02.2016	14:30:25	Object disappearance	Pufvska	NVIP-40N5042V/RM-2P	192.168.41.18.80



THERMAL VISION

NMS is compatible with NOVUS IP thermal cameras. The thermal vision cameras are perfect to support the standard cameras – they generate an image on the basis of the heat produced by any objects. This allows to operate in complete darkness and quickly detect the danger.

NMS in combination with NOVUS IP thermal cameras enables facility surveillance and quick reaction, when the user-defined temperature is exceeded.



Thermal vision! See more with thermal vision than with IR!

Distribution:



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