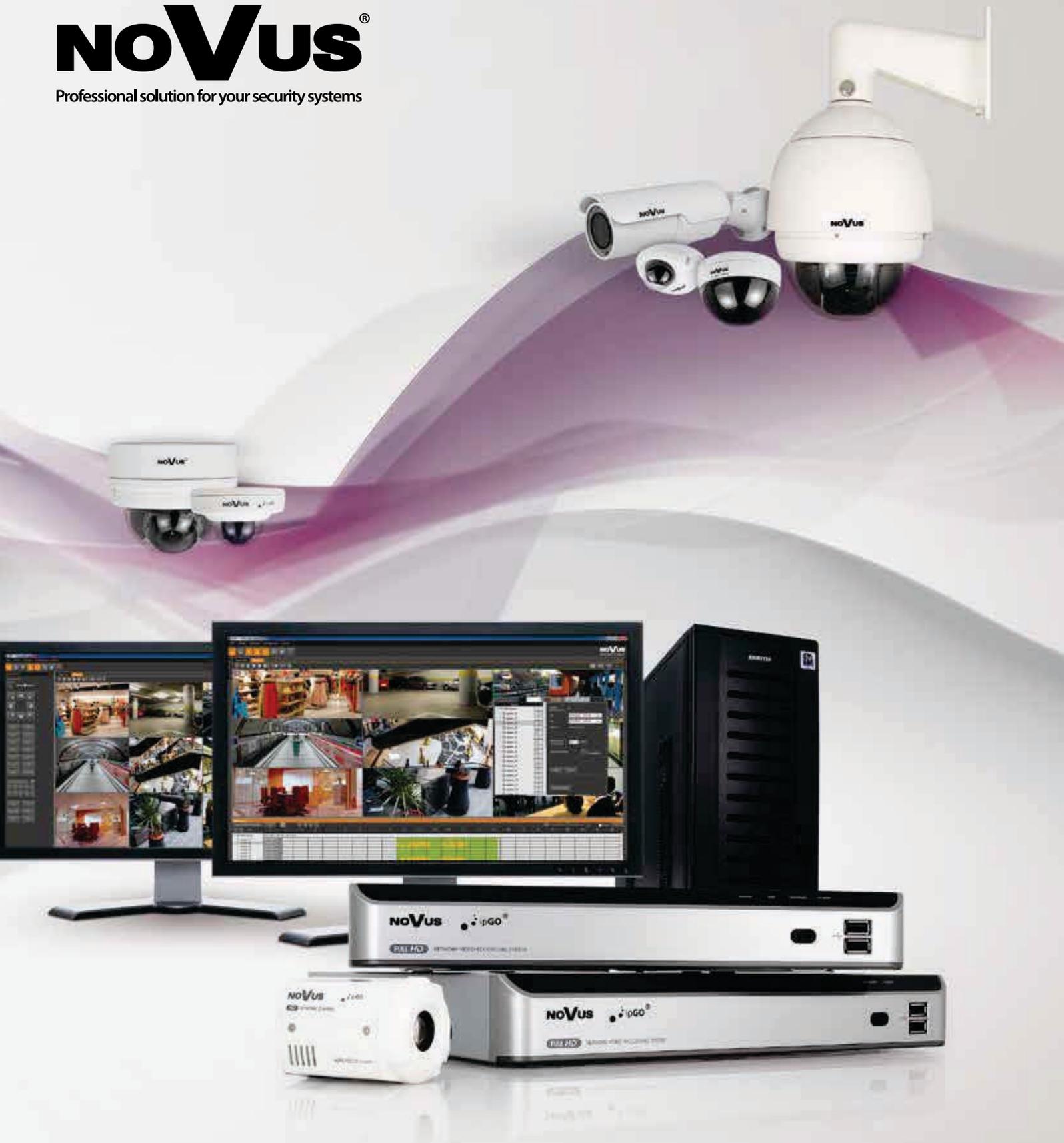


noVus[®]

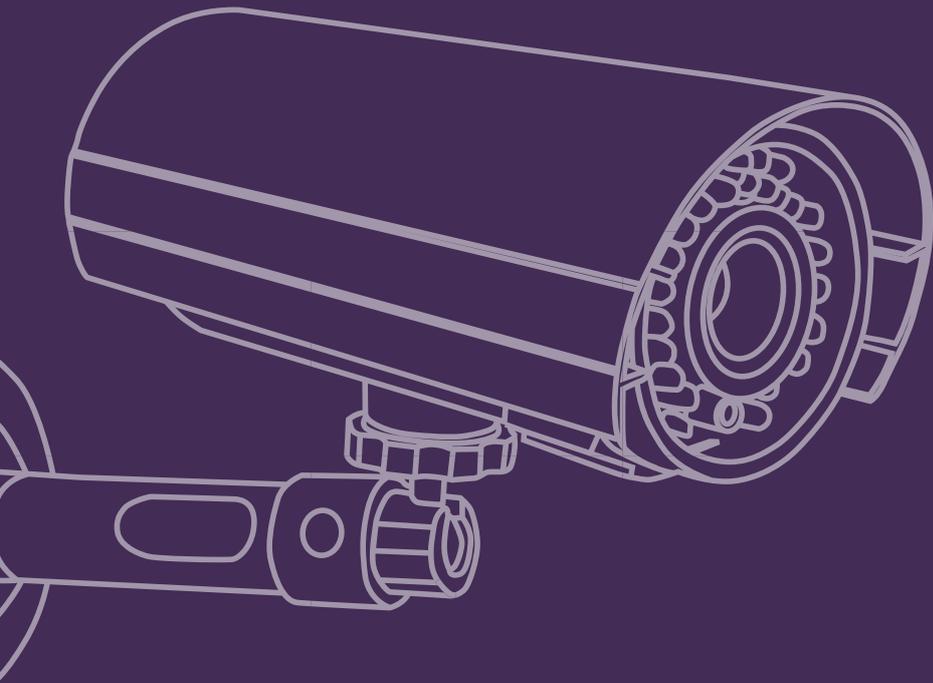
Professional solution for your security systems



— IP product catalogue

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NOVUS IP DEVICES

CAMERAS
NMS WORKSTATIONS



Professional software for IP video monitoring



1600 fps HD

Performance

NMS software allows you to create recording and monitoring systems, built with an unlimited number of IP cameras. System size is limited only by hardware performance, ex. computer platforms and network elements. NMS effectively uses resources of the server on which it is installed. You need only one NMS server to create stable system supports up to 64 cameras with HD 720p resolution. Using the appropriate server and adequate number of HDDs, it is possible to record in total 1600 fps in HD 720p resolution. For comparison standard DVRs, applied in the systems with analog cameras, enable recording up to 32 channels with 800 fps at CIF resolution, so nearly four times lower than HD 720p.



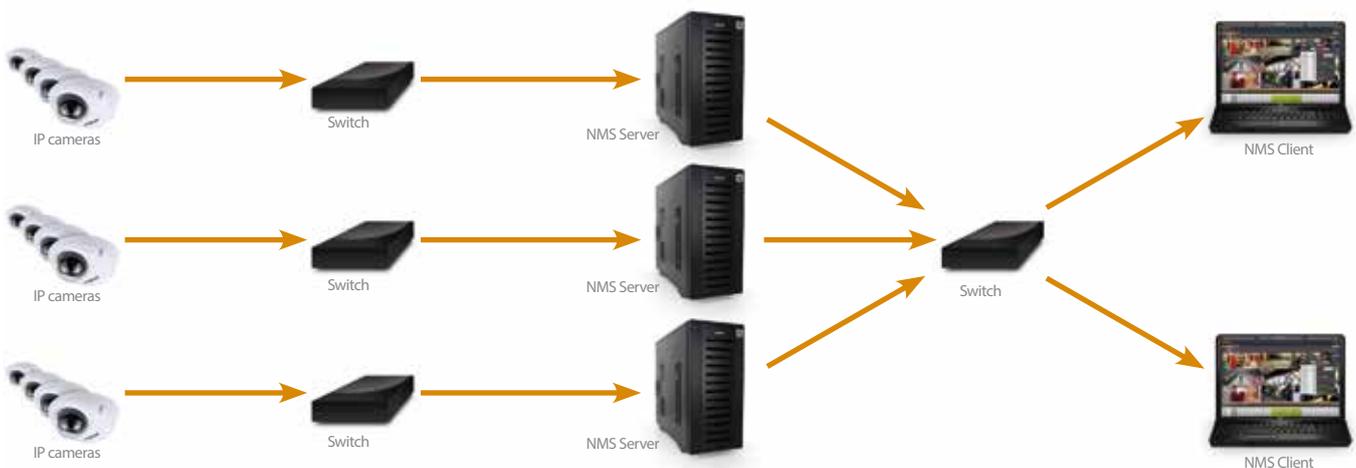
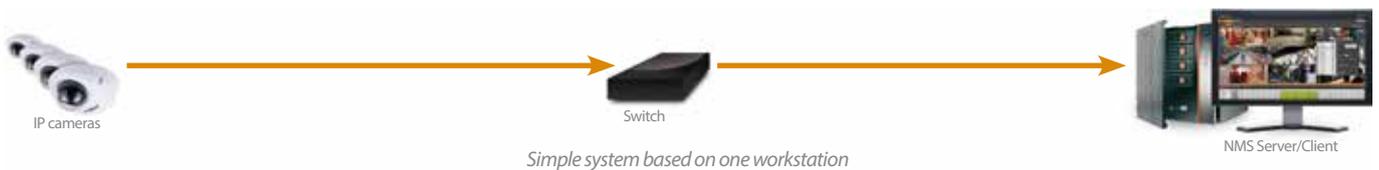
Costs

NMS software is distributed for free with NOVUS® IP cameras. The license to use the program is free of charge regardless of the system size, the number of devices, the size of recordings database, etc.

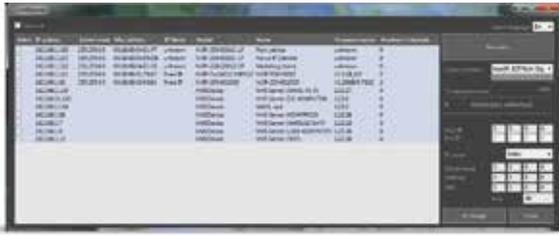
Buying NOVUS® IP camera, you get in set a fully functional program to create an IP surveillance system. It is important that the system can be expanded with new elements and it does not require any additional fees. The only limitation is capability of the hardware on which NMS software is installed.

Flexible application

Installing NMS software you decide how it will be used in the future. This could be a classic application, where streams from cameras are simultaneously recorded and observed by the operator in one location, on one workstation – then it is recommended to install NMS Server/Client version. It could be also an application designed exclusively for recording – NMS Server or for monitoring only - NMS Client. Than a minimum two workstations are required: at least one server and at least one NMS client. Depending on an intended use of the workstation, optimized version of the program is installed. Client station can be a classic home computer or laptop. The diversity of applications makes NMS program suitable for small systems with four cameras, as well as for expanded systems with several registering servers and hundreds of cameras.



Complex system based on specialized workstations – NMS Server and NMS Client



NMS ip tool for searching cameras in the network

Easy installation

Contrary to popular opinion, the IP system can be easily installed. NMS provides a set of tools for installers, which help quickly and easily configure IP monitoring system. System configuration is reduced to two steps. The first step is to configure cameras. NMS ip tool searches all NOVUS® IP cameras working within the network, then in a very simple way, user can give them collectively a unique network addresses.



NMS basic setup wizard

The second step is to configure NMS using the basic setup wizard. Wizard in a user-friendly way allows you to add cameras to the list of devices and assign them an adequate space for recordings. It is also possible easy configuration of server-client systems.

After these two steps, the monitoring system starts to work – records and displays an images from cameras. Of course, apart from the basic setup wizard, it is also available advanced configuration menu, which enables more detailed settings.

Working with NMS software

NMS user interface is built from modules-panels, which can be composed in any workspace, optimised to a particular system requirements and an operator’s needs. You are not restricted by the program, but you can adjust the interface to individual preferences. It is even possible to choose such details as content and form of the information displays on the background image (OSD).

It is also important, that the composition of the working space (the number and arrangement of panels) is assigned to each operator. The following examples show, how different the program view might look, depending on users needs.



Composing working area, the user can choose:



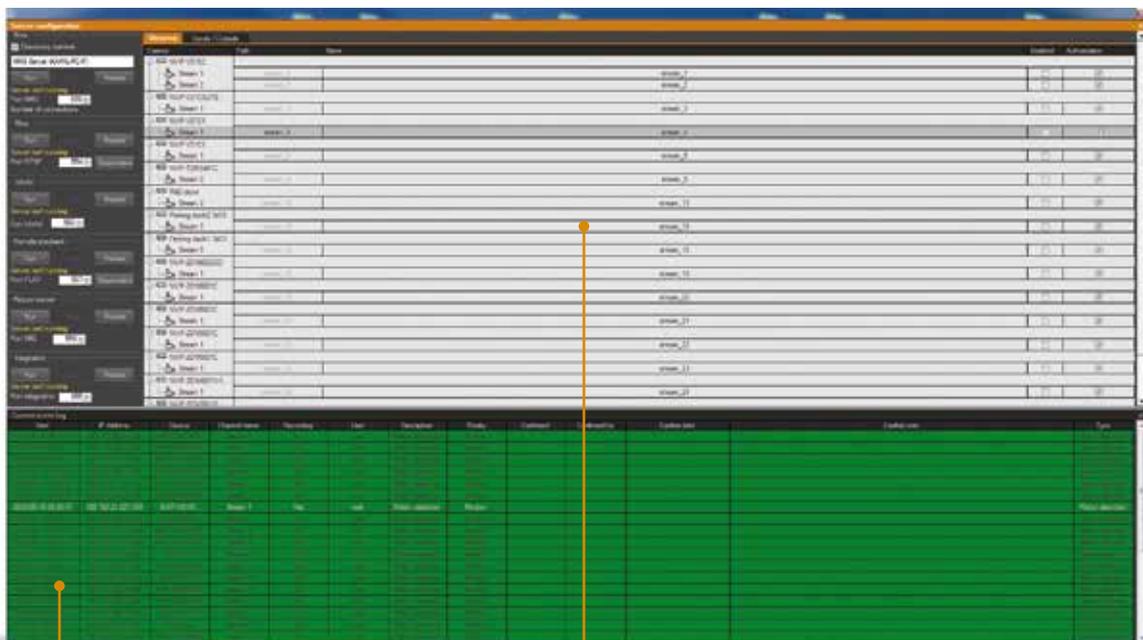
2 video panels with independent split screens



PTZ Panel

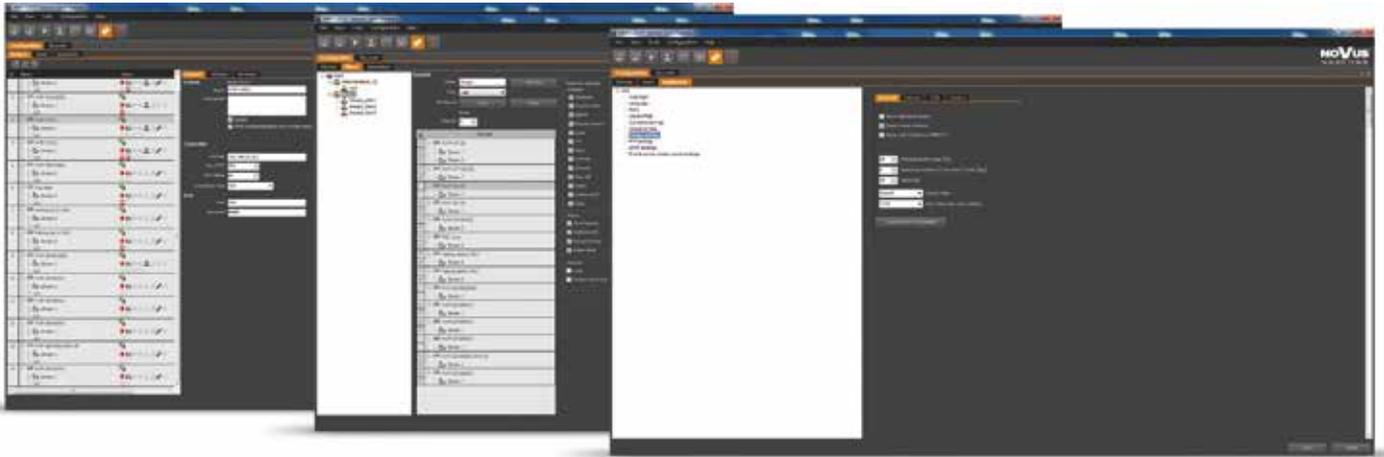
Playback panel

Device status panel



Event notification panel

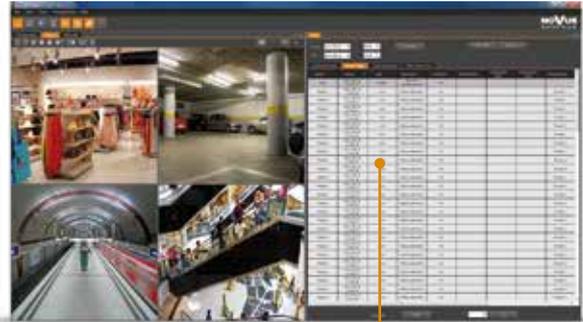
Streams management panel in server-client mode



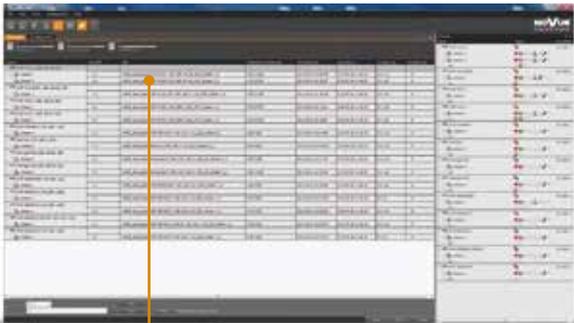
Device management panel, Recording panel, User management panel, Application panel



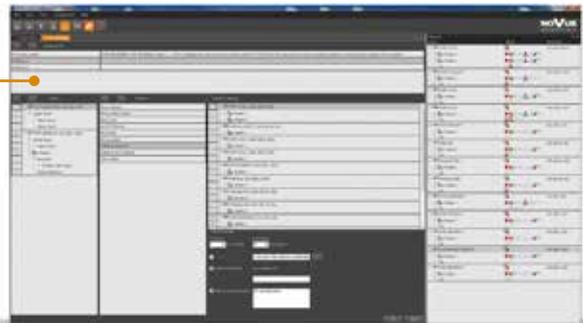
Interactive map panel



System log panel



Disc space management panel



Configuration panel for automatic scenarios of system reactions on current events



NMS Server

When it is necessary to use many functions at the same time, multi-screen operation is very useful (simultaneous display of application on multiple monitors).



Megapixel streams support

One of the major advantages of IP surveillance systems is the possibility of recording images in high resolution (1Mpx, 2Mpx, ...). NMS software enables receiving, recording, playing back and sending streams in resolution from CIF to 5 Mpx to the client stations. Cameras with different resolutions can be freely mixed in a single installation. This allows you to buy more expensive megapixel cameras only for applications, where they are really needed.

To take full advantage of megapixel cameras and get out relevant details of the image, you can use the digital zoom function.



5Mpx image calibrated to the monitor size



5Mpx image enlarged locally using digital zoom



High quality and high resolution stream

"Lightweight" stream – adapted to transmission on the Internet

IP cameras



NMS Server



NMS Client

Multistreaming cameras support

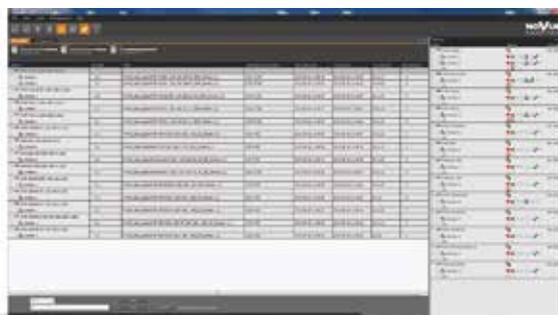
NMS software enables an efficient use of multistreaming cameras. The application allows to manage each camera's stream separately. It is possible to create ex. a server-client system, where high quality and high resolution streams are recorded locally, and streams with lower parameters are sent to the distant client stations via the Internet.



Panel for defining schedule and recording modes for each camera

Intelligent recording

NMS offers developed recording configuration module of streams received from IP cameras. It is important that images from each camera can be recorded with individual settings. Recording can be continuous or activated only after motion detection. It is possible to record „full" stream or just base frames, ex. from less important cameras. The recording mode is configured in advanced



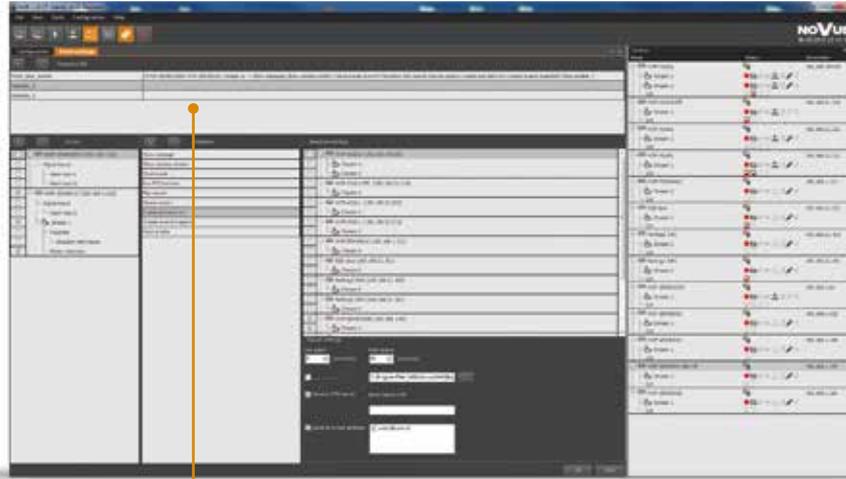
Panel for allocating disc space for each camera

schedule settings.

With an independent allocation of a disc space for each camera, NMS user can also adjust the recording time from each camera. More disc space can be allocated to more important streams, and thus their archiving time is longer. The operator receives information about expected time of recording of each stream, based on the amount of allocated disc space and selected recording settings.

Automatic event support

NMS allows you to create a list of scenarios of automatic reactions on events. It makes the operator's work easier or replace him completely in maintenance free video monitoring systems. NMS software informs the operator about current events in many different ways. It can activate also predefined interactions between system elements.

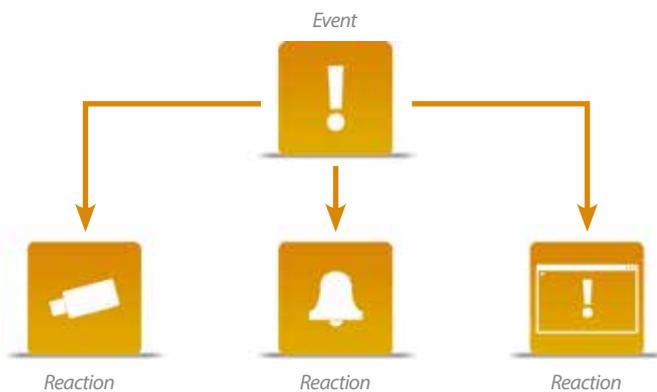


Panel for defining scenarios of system reactions on events

System administrator has at his disposal the following types of reactions that he can use while creating scenarios:

- send photo or video sequence to the specified e-mail or ftp server,
- control digital output of any device,
- activate panic recording,
- play audio message,
- activate any function on any PTZ camera,
- send an sms,
- display images from any camera in the alarm window,
- display text message.

Examples of scenarios on events:



Example 1:

Doorphone is connected to the digital input. When it is pressed, the system automatically send an appropriate PTZ camera to a certain preset , to show visitor. Simultaneously an operator in a reception is alarmed by sound and in program's window is displayed only the image from the camera on the entrance.

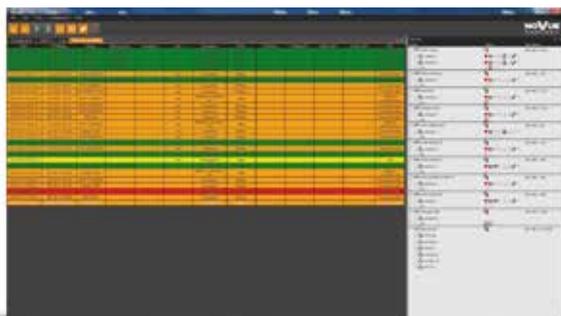
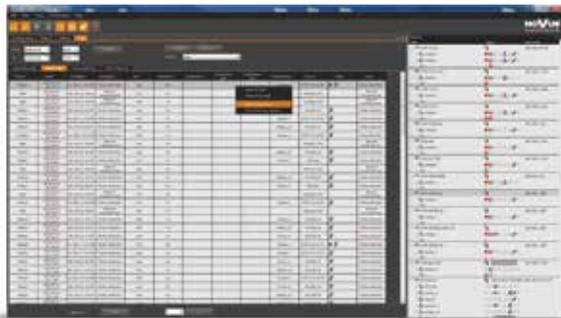


Example 2:

When motion is detected in a room with limited access, the system always notify a manager about this fact, by sending an sms and e-mail.



Playback panel Mix mode – one camera is in playback mode



Panel for current events come from an external devices and application itself

Playback

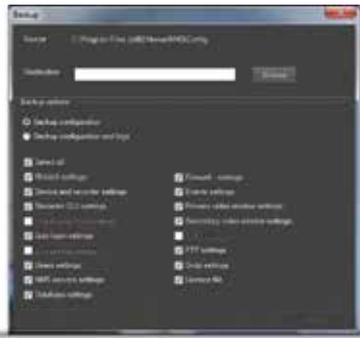
NMS software offers effective methods of searching and playing back recordings. Special panel allows you to browse a recordings database and control playback process. The most important element of this panel is a graph, illustrating recording modes by colours on the timeline. The graph is scalable and enables rapid movement within recordings from twenty-four hours, as well as for precise search of recordings exact to few seconds.

Features such as speeding up and slowing down, viewing replay frame by frame and reverse replay are available in playback mode. Another interesting feature is the possibility to combine in a single view images from any number of cameras in playback and live monitoring modes. This allows you to compare archival recordings with the current view from the same camera.

In addition to searching by the time, it is also available searching by specific events within the system log and playback of recordings connected to that events.

Event log

The essential role of the program operating as a monitoring system is to inform the operator about important events occur in the system. The key to effective cooperation between the operator and the program is to provide only important information and any needless. Too much information reduces the operator's vigilance and after some time he begins to ignore an important data. In contrast to other programs, NMS allows you to define very accurately which information is displayed on the screen and which is only registered, but does not appear life on the monitor. In the example below, a very important information has been displayed on an orange background, and the less important on the green one, as well they could not be displayed at all. The operator can add a note for each event, and thus confirm that he read an information.



Settings backup options

Settings backup

When many workstations is configured in one location it is highly probable that most of these settings are identical or very similar. To allow reuse of once created settings, NMS offers settings backup. Thanks to precise settings divided into a number of thematic modules, it is possible to use previously saved configurations and create desired combinations.

User management

Access to every element of NMS, as well as to particular cameras/streams can be precisely assigned to each user. This allows to carry out various scenarios, such as:

- give object security an access to a view from cameras placed on a gateway and at the same time denied access to cameras in the rooms (fig. 1)
- give reception desk an access to a life view from selected cameras without playback option (fig. 2)
- give manager an access to a view from all cameras without privilege to disconnect any camera or add new one (fig. 3)
- notify all operators, except admin, about motion detection etc. (fig. 4)



fig. 1



fig. 2



fig. 3

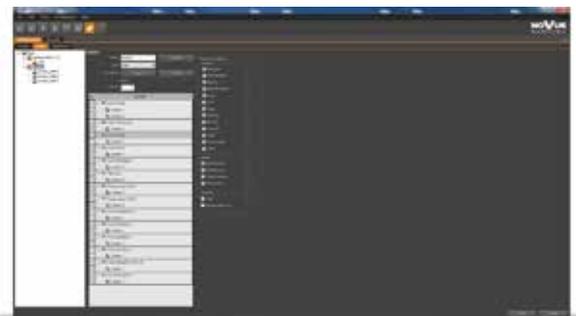


fig. 4

Integration with DSC intruder alarm system

NMS allows you to integrate video monitoring system with any DSC intruder alarm system. The program communicates with the control panel via RS port or Ethernet (converter required) and currently monitor status of each alarm system element. Status is visualized on a special panel or on a map panel (each alarm system element has a dedicated interactive icon). Alarm events are registered in a system log, and then it is possible to search recordings associated with alarm events. NMS interface enables alarm system control, ex. arm-disarm of alarm system partition, delete alarms.



Interactive map



Map creation tool

Multi-level interactive maps

Object maps in NMS enables quick and intuitive access to images from cameras. On the maps are located icons, which symbolize cameras and system elements, such as alarm detectors, contacts, sirens. By clicking on the selected icon, the user can immediately see an image from the camera or activate building automation components. Additionally, the icons constantly inform about current events linked with each element (by colour change), ensuring rapid assessment of the situation in the monitored areas. Visualization feature is particularly important in complex, expanded systems, with several dozen cameras located in different places of the object. Searching cameras by name on the list of devices is much less convenient than finding them at the right place on the map imaging real object. In the case of complex systems, it is helpful to divide them into several logical subsystems and create several maps. User switches between them through clickable links (like navigating on the web).

Creating a map is easy and fast with an intuitive editor. Any image in a graphical format can be used as a background of the map. This may be an object image, building plan or monitored object visualization, designed from

the beginning for the user

On the map background are placed ready icons symbolized elements of monitoring system, download from a toolbox. The appearance and arrangement of icons can be freely edited. The map, to be an interactive, should be „linked” with icons symbolize the relevant elements of the monitoring system. It is necessary to define which icon is assigned to each camera. Thanks to this, clicking on the desired icon automatically displays the image from the camera assigned to it.

HDDs

Recording megapixel streams requires more disc space than recording streams from standard definition cameras. To meet this challenge NMS Server platforms allows you to install up to 5 HDDs, 2TB capacity each. To increase this space and keep full security of recordings, it is possible to record on external storage connected to NMS server in iSCSI. Professional storage arrays provide the opportunity to work in either RAID 5, 6 or 10 modes, well protecting important recordings from loss in case of disc damage.



PTZ management

NMS software allows to control PTZ cameras (including megapixel) directly on the image from the camera. Mouse movements are processed by the program into control commands. Commands using to save or to activate camera's functions (such as presets, routes) are available in classical PTZ panel, in addition to the directional cursor commands.



NMS software supports keyboard with joystick, connected to a workstation through the USB port. The keyboard controls a camera and allows to perform basic functions of NMS (ex. switching of views, playback).

Access protection

NMS allows to create expanded systems with multiple server and client stations. To protect servers from unauthorized access, NMS is equipped with mechanisms for controlling connections from the client stations. Each server has an option to define the list of allowed IP addresses, which can connect to the server and receive video streams. With this function, even after breaking a password, it is not possible to connect to the server using other computer than a dedicated client.

IP Cameras nomenclature (version 1)



NVIP-2C2011D-P

NV IP - 1 C 2 0 11 D - P

NOVUS product distinction
NV

Product group distinction
IP - for IP cameras and network video recorders

Megapixel imager resolution
No number - for imagers up to 1 Mpx
1 - for imagers from 1 Mpx to 2 Mpx
2 - for imagers from 2 Mpx to 3 Mpx etc.

Camera kind
DN - day/night with IR filter
C - color or with electronic day/night function

Power supply
P - PoE
1P - 12 VDC, PoE
2P - 12 VDC, 24 VAC, PoE

Camera type (letter code)
B - board
D - dome
H - bullet
V - vandal proof
C - classic
SD - speed dome

Optical zoom for speed dome cameras or camera model for others
27 - 27x
37 - 37x etc.

Imager type
0 - CMOS
1 - CCD

Camera type (digital code)
1 - board
2 - dome
3 - bullet
4 - vandal proof
5 - classic
6 - speed dome

IP Cameras nomenclature (version 2)



NVIP-TDN4401V/IR/MPX2.0

NV IP - T DN 4 4 01 V / IR / MPX2.0

NOVUS product distinction
NV

Product group distinction
IP - for IP cameras and network video recorders

Series distinction (letter code)
T

Camera kind
DN - day/night with IR filter
C - color or with electronic day/night function

Camera type (digital code)
1 - board
2 - dome
3 - bullet
4 - vandal proof
5 - classic

Megapixel imager resolution
No number - for imagers up to 1 Mpx
1 - for imagers from 1 Mpx to 2 Mpx
2 - for imagers from 2 Mpx to 3 Mpx etc.

IR - IR LED
(only if appears)

Camera type (letter code)
B - board
D - dome
H - bullet
V - vandal proof
C - classic

Camera model within the series
01
02
03
etc.

Series distinction (digital code)
4

Features and functions of IP devices

IR lenses - aberration correction

Aberration correction for a range of infrared light is particularly important in the case of dual (D&N) and monochromatic cameras, working in the daylight and artificial light (where much of the radiation is within the IR range), or with IR illuminators. The lack of IR correction may result in loss of image sharpness.

Supported in speed dome cameras, **Full HD** and series **T**

Lack of IR correction

IR correction

Lens format

The lens format should be larger or the same as the format of the camera's imager, which the lens works with. It is permissible to use the lens with the larger format than the size of the camera's imager (the angle of view decreases approximately by 30%). The improperly adjusted lens causes ex.: blurring, vignetting or narrowing the viewing angle.

Supported in cameras **Full HD** and series **T**



Acceptable lens - narrow image
Lens format - 1/2"
Imager format - 1/3"



Improper lens - vignette image
Lens format - 1/4"
Imager format - 1/3"



Proper lens - correct image
Lens format - 1/3"
Imager format - 1/3"



HD resolution (1280 x 720) : SD resolution (720 x 576)

HD-SDI output - speed dome cameras

HD-SDI is a standard of the digital signal transmission from high resolution cameras with HD (1280 x 720) or Full HD (1920 x 1080) via coaxial cable. HD-SDI output enables monitoring and recording high quality images, comparable to the megapixel camera quality, without inconvenient delays. The HD standard uses transmission media.

Supported in speed dome camera NVIP-1DN6118SD

PoE (Power over Ethernet)

PoE technology enables transmission of the electrical power via twisted-pair, ex. in IP cameras. Thanks to this feature, the camera installation is easy and fast, because data and power supply are transmitted via one cable and an installer does not have to work at 230V.

Supported in cameras **Full HD** and series **T**

Resolution

- **Full HD (Full High Definition)** - video signal resolution of 1920 x 1080 pixels in 16:9 format (HD 1080)

Supported in cameras **Full HD**

- **HD (High Definition)** - video signal resolution of 1280 x 720 pixels in 16:9 format (HD 720)

Supported in cameras **Full HD** and series **T**

- **SD (Standard Definition)** - video signal resolution of 720 x 576 pixels in 4:3 format (PAL)

Supported in cameras **Full HD** and series **T**



Full HD resolution (1920 x 1080)

HD resolution (1280 x 720)

SD resolution (720 x 576)



Multistreaming mode

This feature enables simultaneous generation of multiple video streams with different parameters. Each stream is optimally configured for a particular device, ex.: NVR Server, client station, smartphone. The appropriate adaptation of streams can reduce the required bandwidth.

Supported in speed dome cameras, **Full HD** and series **T**



Two-way audio transmission

This function transmits sound via IP cameras, using built-in or directly connected with them devices, ex. microphone, speaker. It enables to record sound and images, as well as send voice messages to the people within the speaker range. Audio transmission between a camera and a workstation (server) is possible through the network cable (CAT5 UTP), which is also used to transmit video, alarms and power supply (PoE).

Supported in speed dome cameras, **Full HD** and series **T**



NVR (Network Video Recorder)

A hardware platform with the NMS software installed, used for recording images from IP cameras (NMS NVR Server) or as the monitoring station (NMS NVR Client).



DNR off

DNR on

DNR - Digital Noise Reduction

This function electronically reduces the amount of image noise. The noise, apart from worsening the comfort of scene observation, causes a significant increase in the average size of frame recorded in MPEG-4 or H.264 compression and thus shortens HDD recording time.

Supported in speed dome cameras, **Full HD**



WDR off

WDR on

WDR - Wide Dynamic Range

The WDR feature ensures enhanced image quality when illumination of the observed scene varies excessively. Digital image correction provides better exposure of both dark and bright areas, eliminating the effect of overexposed or too dark areas in the same frame. It ensures, for example, clear visibility of people faces, if they are positioned against strong back lighting, such as windows or glass doors in the background.

Supported in speed dome cameras, **Full HD**

Day/night function

Day/night function allows the camera to be switched from color mode into black/white mode in low light conditions.



Electronic D/N function off

Electronic D/N function on

Electronic day/night function

The operation of electronic day/night function is to cut out a color component from the video signal, so that in low light conditions there is no camera "snow" effect. It has an important impact on the size of recording data in DVRs using H.264 or MPEG-4 compression.

Supported in cameras **Full HD** and series **T**_{SERIES}

Electronic D/N function on

Mechanical IR cut filter on

Mechanical IR cut filter

This function signifies that the IR filter is mechanically removed in low light conditions, that is why the imager receives more light from the infrared range and the camera's sensitivity significantly increases.

Supported in speed dome cameras, **Full HD** and series **T**_{SERIES}



DIS off

DIS on

DIS - Digital Image Stabilization

This function eliminates image blurring from camera shaking caused by vibrations from passing vehicles or gusts of wind.

Supported in speed dome cameras



Motion Detection

This function enables detecting movement in user-defined areas of a scene, and then - depending on the model - automatically activates alarm outputs or displays an appropriate message on the screen.

Supported in speed dome cameras, **Full HD** and series **T** SERIES



Privacy zones off

Privacy zones on

Privacy zones

This function allows users to hide certain areas of the observed scene, for example windows of a building. It is especially useful when monitoring public places.

Supported in speed dome cameras, **Full HD** and series **T** SERIES



DSS off

DSS on

DSS - Digital Slow Shutter

This function helps to obtain better, brighter images in low light conditions. Longer imager exposure (from 1/50 s to 20 s) causes the image to be less frequently read. A side effect of the DSS is smearing for fast moving objects.

Supported in speed dome cameras, **Full HD** and series **T** SERIES



NOVUS® camera NVIP-3DN3010H/IRH-1P

Convenient lens adjustment

The possibility to easily adjust focal length and focus, without opening an enclosure..

Supported in camera serie: **T** SERIES



Camera installed on the ceiling

Camera installed on the slanted ceiling

Camera installed on the wall

3-axis camera module adjustment

This function enables to install a dome camera in any position, on any slanted surface.

Supported in cameras **Full HD**

Alarm output

The camera sends a signal to the alarm output when motion is detected. With this feature, an alarm system works autonomously and the camera is connected directly with a control panel. It is particularly helpful when the motion detection in the camera is used to signalize events or switch additional lighting, while there is no possibility to add more cables to the installation.

Supported in speed dome cameras, **Full HD** and series **T-SERIES**

Vandal proof enclosure

A camera body made of aluminium alloy along with transparent poly - carbonate bubble guarantee high mechanical resistance, confirmed by a relevant certificate. For example, G Series cameras vandal proof enclosures represent the highest 10th level of mechanical resistance on IK scale.

Supported in cameras **Full HD** and series **T-SERIES**



Standard dome camera

NOVUS® vandal proof camera

Degree of protection IP65, IP66, IP67

- IP 65 - completely dust proof housing, resistant to water jets from any direction
- IP 66 - completely dust proof housing, resistant to strong water jets from all directions or wave flooding
- IP 67 - completely dust proof housing, resistant to immersion to a depth of 1 m for 30 min.

Supported in speed dome cameras, **Full HD** and series **T-SERIES**

Fisheye lens

NVIP-5DN2021D/IR-2P is a hemispherical camera with all-round 360° view provided by fisheye lens. The camera is ideal for monitoring large, enclosed spaces, such as lobby or warehouse. One camera positioned centrally on the ceiling covers an entire room. 5 megapixel, 1/2.5" CMOS imager and progressive scan provide very high resolution image.

Using the NMS application, system operator can select any part of an observed scene and control the camera's view as in conventional PTZ camera, including a digital zoom function (digital PTZ). Image rotating and zooming is possible in live and playback mode. User can simultaneously display any number of streams and observe different parts of the scene, also in separate windows.

Supported in NVIP-5DN2021D/IR-2P camera



Fisheye lens



Horizontal viewing angle of 180°



4 virtual PTZ cameras

PTZ functions

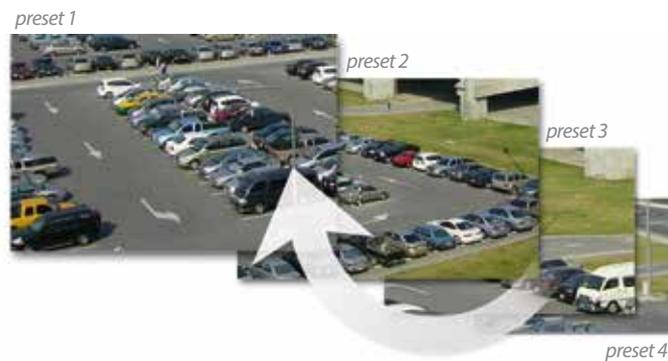
PTZ cameras can automatically move between points or selected routes predefined by the operator.

Supported in speed dome cameras



Preset

It is a specified position, with the defined zoom and focus, saved in the camera's memory. This position may be executed by the user at any time or activated directly from a keyboard or a DVR.



Tour

This function enables to execute the sequence of presets, patterns, other tours and auto-scans predefined by the user. There is a possibility to program a certain number of actions that can be executed by the camera at a given time or repeated a selected number of times.



Pattern

This function enables saving and restoring any action taken by the user controlling a PTZ camera (pan/tilt/zoom) at a given time.

IP Cameras Comparison

	NVIP-TC2401D/MPX1.0	NVIP-TDN2401D/IR/MPX1.0	NVIP-TDN5410C/MPX1.0	NVIP-TDN5401C/MPX2.0	NVIP-TDN4401V/IR/MPX2.0	NVIP-TDN3401H/IR/MPX2.0
						
						
Page	26	27	28	29	30	31
Pick-up Element	1/4" CMOS			1/3" CMOS		
Imager Resolution	1 MPX (1280x800)			2 MPX (1600x1200)		
Day/Night Function	-	IR cut filter		IR cut filter		
Min. Illumination	1 lx/F=1.2	1 lx/F=1.2 - color 0 lx/F=1.2, IR on	0.74 lx/F=1.2 - color 0.37 lx/F=1.2 - B/W	0.5 lx/F=1.4 - color DSS 0.1 lx/F=1.4 - B/W DSS	0.37 lx/F=1.2 - color DSS 0 lx/F=1.2, IR on	0.32 lx/F=1.2 - color DSS 0 lx/F=1.2, IR on
Digital Slow Shutter (DSS)	0.03 ~ 0.2 s	0.03 s ~ 0.2 s		0.03 ~ 0.2 s		
Video Compression	H.264, MPEG-4, M-JPEG		H.264, MPEG-4 (3GPP mode), M-JPEG	H.264, MPEG-4, M-JPEG		
Frame Rate	Up to 30 fps for 1280x800 and lower			Up to 15 fps for 1600x1200, up to 22 fps for 1280x1024, up to 25 fps for 1280x960, 1280x720 and lower		
Stream Resolution	1280x800, 1280x720 (HD 720)	1280 x 800, (WXGA) 1280 x 720 (HD 720), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)		1600x1200 (UXGA), 1280x1024 (SXGA), 1280x960, 1280x720 (HD 720)		
Multistreaming Mode	Max. 3 streams			Max. 3 streams		
Number of Simultaneous Connections	Max. 10			Max. 10		
Audio I/O	1/1	Built-in microphone / 1 x Jack (3.5 mm)		Built-in microphone/ 1 x RCA	1 x Jack (3.5 mm)/ 1 x Jack (3.5 mm)	
Audio Compression	G.711/G.726			μ-LAW		
Two-way Audio Transmission	Yes			Yes		
Lens	f=2.8 ~ 10 mm		-	-	f=2.7 ~ 9 mm	f=3.6 ~ 16 mm
IR LED	-	18 LED, 12 m range	-	-	18 LED, 15 m range	35 LED, 20 m range
SD Card Support	Yes			Yes		
Alarm I/O	1/1			1/1		
Prealarm/Postalarm	Up to 5 s/up to 5 s			Up to 5 s/up to 10 s		
Motion Detection	Yes			Yes		
E-mail Event Notification	Yes			Yes		
System Log	Yes			Max. 750 events		
Recording Schedule	Yes			Yes		
Privacy Zones	3			3		
Video Output	-			CVBS (BNC)		
Power Supply	12 VDC, PoE	12 VDC	12 VDC, PoE	12 VDC, PoE		
Degree of Protection	-			-	IP 66	
Operating Temperature	-10°C ~ 45°C			-10°C ~ 45°C		
Fan/Heater	-			-		
Dimensions (mm)	131.2 x 94.3 (Ø) x (H)	131.2 x 94.3 (Ø) x (H)	60 x 53 x 100 (W) x (H) x (L)	65 x 58 x 145 (W) x (H) x (L)	141 x 132 (Ø) x (H)	83 x 180 (Ø) x (L)
PTZ	Preset Commands	-			-	
	Tours	-			-	
	Patterns	-			-	
	Pan Speed	-			-	
	Optical Zoom	-			-	
Compatible Software	NOVUS NMS (included), 			NOVUS NMS (included),  ALNET NET STATION, AXXON		

*PoE, PoE+ is available for camera operating without heater and/or fan
**Available with optional cable

NVIP-2DN5001C-1P	NVIP-2C2011D-P	NVIP-2DN2001D-2P	NVIP-2DN4001V/IRH-2P	NVIP-2DN3001H/IR-2P	NVIP-2DN3001H/IRH-2	NVIP-2DN35018CZ-2P
						
Full HD	Full HD	Full HD	Full HD	Full HD	Full HD	Full HD
32	33	34	35	36	36	37
1/2.7" CMOS						1/2.7" CMOS
2 MPX (1920x1080)						2 MPX (1920x1080)
IR cut filter	Electronic		IR cut filter			IR cut filter
0.2 lx/F=1.2 - color 0.02 lx/F=1.2 - B/W	0.1 lx/F=1.5 - color, DSS 0.1 lx/F=1.5 - B/W, DSS	0.2 lx/F=1.2 - color 0.02 lx/F=1.2 - B/W	0.2 lx/F=1.2 - color 0 lx/F=1.2, IR on			0.2 lx/F=1.2 - color, DSS, 0.02 lx/F=1.2 - B/W, DSS
0.04 ~ 1 s				0.04 ~ 1 s		0.04 ~ 0.67 s
H.264, M-JPEG						H.264, MJPEG
Up to 25 fps for 1920x1080 and lower						30 fps for each resolution
1920x1080 (HD 1080), 1280x1024 (SXGA), 1280x720 (HD 720), 1024x768 (XGA)						1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Max. 2 streams			Max. 4 streams			Max. 4 streams
Max. 10						Max. 10
1 x Jack (3.5 mm)/ 1 x Jack (3.5 mm)	Built-in microphone/-		1 x Jack (3.5 mm)/1 x Jack (3.5 mm)			1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
G.711/G.726						G.711, G.726
Yes	-		Yes			Yes
-	f=4 mm		f=3 ~ 9 mm			f=4.7 ~ 84.6 mm
-				23 LED, 25 m range		-
Yes						Yes
1/1	-/-		1/1			1/1
Up to 3 s (or up to 20 frames)/up to 9999 s (or up to 20 frames)						Up to 3 s (or up to 20 frames)/up to 9999 s (or up to 20 frames)
Yes						Yes
Yes						Yes
-						-
Yes						Yes
5						5
CVBS (BNC)	-			CVBS (BNC)		CVBS (BNC)
12 VDC, PoE	PoE	12 VDC, 24 VAC, PoE	12 VDC, 24 VAC, PoE*	12 VDC, 24 VAC, PoE	12 VDC, 24 VAC	12 VDC, 24 VAC, PoE
-						-
-10°C ~ 50°C			-30°C ~ 50°C	-10°C ~ 50°C	-35°C ~ 50°C	0°C ~ 40°C
-						-
75 x 52 x 125 (W) x (H) x (L)	111 x 48 (Ø) x (H)	149 x 131 (Ø) x (H)	149 x 135 (Ø) x (H)	88 x 270 x 90 (Ø) x (L) x (H)	88 x 270 x 90 (Ø) x (L) x (H)	80.5 x 52.5 x 183.5 (W) x (H) x (L)
-						-
-						-
-						-
-						-
-						-
NOVUS NMS (included),  ALNET NET STATION, AXON						NOVUS NMS (included), 

IP Cameras Comparison

	NVIP-3DN3010H/IRH-1P	NVIP-5DN5001C-1P	NVIP-5DN2021D/IR-2P
		 Full HD	 Full HD
Page	38	39	40
Pick-up Element	1/2.8" CMOS	1/2.5" CMOS	1/2.5" CMOS
Imager Resolution	3 MPX (2048x1536)	5 MPX (2592x1944)	5 MPX (2592x1944)
Day/Night Function	IR cut filter	IR cut filter	IR cut filter
Min. Illumination	0.3 lx/F=1.2 - color 0 lx/F=1.2, IR on	0.2 lx/F=1.2 - color, DSS, 0.02 lx/F=1.2 - B/W, DSS	0.2 lx/F=2.8 - color, DSS, 0.02 lx/F=2.8 - B/W, DSS, 0 lx (IR on)
Digital Slow Shutter (DSS)	0.13 ~ 1 s	0.04 ~ 0.67 s	0.04 ~ 0.67 s
Video Compression	H.264, MPEG-4, M-JPEG	H.264, MJPEG	H.264, MJPEG
Frame Rate	Up to 15 fps for 2048x1536 and lower	10 fps for 2592 x 1944, 15 fps for 2048 x 1536, 25 fps for 1920 x 1080 and lower	10 fps for 2592 x 1944, 15 fps for 2048 x 1536, 25 fps for 1920 x 1080 and lower
Stream Resolution	2048 x 1536 (QXGA), 1600 x 1200 (UXGA), 1920 x 1080 (FullHD), 1280 x 1024 (SXGA), 1280 x 960, 1280 x 720 (HD), 1024 x 768 (XGA), 640 x 480 (VGA), 320 x 240 (QVGA)	2592 x 1944, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	2592 x 1944, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Multistreaming Mode	Max. 3 streams	Max. 4 streams	Max. 4 streams
Number of Simultaneous Connections	Max. 10	Max. 8	Max. 8
Audio I/O	1 x RCA/1 x RCA	1 x Jack (3,5 mm)/ 1 x Jack (3,5 mm)	1 x Jack (3,5 mm)/1 x Jack (3,5 mm)*, built-in 2 W speaker, built-in microphone
Audio Compression	G.711	G.711, G.726	G.711, G.726
Two-way Audio Transmission	Yes	Yes	Yes
Lens	f=3 ~ 10 mm	-	„fisheye“, f=1.05 mm/F=2.8
IR LED	40 LED, 40 m range	-	6 LED, 5 m range
SD Card Support	-	Yes	Yes
Alarm I/O	1/1	1/1	1/1
Prealarm/Postalarm	Up to 10 s/up to 30 s	Up to 3 s (or up to 20 frames)/up to 9999 s (or up to 20 frames)	Up to 3 s (or up to 20 frames)/up to 9999 s (or up to 20 frames)
Motion Detection	Yes	Yes	Yes
E-mail Event Notification	Yes	Yes	Yes
System Log	-	-	-
Recording Schedule	Yes	Yes	Yes
Privacy Zones	6	5	5
Video Output	CVBS (BNC)	CVBS (BNC)	-
Power Supply	12 VDC, PoE	12 VDC, PoE	12 VDC/24 VAC, PoE
Degree of Protection	IP 66	-	-
Operating Temperature	-40°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C
Fan/Heater	Yes	-	-
Dimensions (mm)	83 x 82 x 166 (W) x (H) x (L)	75 x 52 x 125 (W) x (H) x (L)	149 x 45,8 (Ø) x (H)
PTZ	Preset Commands	-	-
	Tours	-	-
	Patterns	-	-
	Pan Speed	-	-
	Optical Zoom	-	-
Compatible Software	NOVUS NMS (included), 	NOVUS NMS (included), 	NOVUS NMS (included), 

*PoE, PoE+ is available for camera operating without heater and/or fan

**Available with optional cable

NVIP- DN6137SD	NVIP- 2DN6020SD	NVIP- 2DN6020SD-2P
	 Full HD	 Full HD
41	42	43
1/4" CCD	1/3" CMOS	1/2.8" CMOS
0.4 MPX (720x576)	2 MPX (1920x1080)	2 MPX (1920x1080)
	IR cut filter	
0.7 lx/F=1.6 - color 0.06 lx/F=1.6 - B/W	0.5 lx/F=1.6 - color DSS 0.005 lx/F=1.6 - B/W DSS	0.05 lx/F=1.6 - color, DSS, 0.01 lx/F=1.6 - B/W, DSS
0.04 ~ 5.12 s	Auto/Off	0.08 s ~ 1 s
	H.264, MJPEG	
Up to 25 fps for 720x576 and lower	Up to 30 fps for 1920x1080 and lower	30 fps for each resolution
720x576 (D1), 720x288 (2CIF), 352x288 (CIF)	1920 x 1080 (Full HD), 1680 x 1050 (WSXGA), 1600 x 900, 1440 x 900, 1280 x 960, 1280 x 720 (HD 720p), 800 x 600 (SXGA), 720x576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
	Max. 2 streams	Max. 4 streams
	Max. 10	Max. 5
	1 x RCA/1 x RCA	1/1
	G.711/G.726	
	Yes	
f=3.5 ~ 129.5 mm		f=4.7 ~ 94 mm
	-	
		Yes
3/1	2/2	4/2
	Up to 5 s/up to 5 s	Up to 3 s (or up to 20 frames)/up to 9999 s (or up to 20 frames)
	Yes	
	Yes	
	-	
	Yes	
8	8	16
CVBS (BNC)	HD-SDI (BNC)	-
12 VDC	12 VDC, 3 A	24 VAC, PoE+ *
	IP 67	IP 66
	-30°C ~ 50°C	-40°C ~ 50°C
	Yes	
310 x 286 (L) x (H) (with mounting bracket)	310 x 286 (L) x (H) (with mounting bracket)	254 x 354 (L) x (H) (with mounting bracket)
	128	256
	8	8
	4	8
	0.05 - 360°/s	0.5 - 90°/s
37x	20x	20x
	NOVUS NMS (included),  ALNET NET STATION, AXXON	NOVUS NMS (included), 

Dome IP Camera

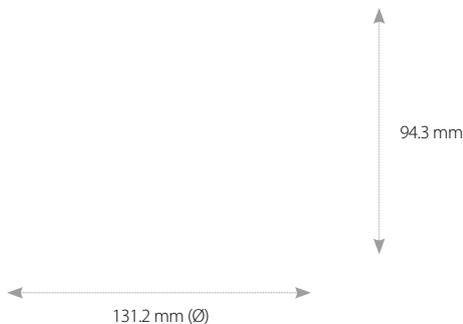
NVIP-TC2401D/MPX1.0



Key Features

- Resolution 1MPX
- Min. Illumination 1 lx
- Lens f=2.8 ~ 10 mm/F=1.2
- SD card support

Dimensions



	NVIP-TC2401D/MPX1.0
IMAGE	
Pick-up Element	1 MPX, CMOS imager, 1/4"
Number of Effective Pixels	1280 (H) x 800 (V)
Min. Illumination	1 lx/F=1.2
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
LENS	
Type	f=2.8 ~ 10 mm/F=1.2
Angle of View (H)	80° ~ 23°
NETWORK	
Stream Resolution	1280 x 800, 1280 x 720 (HD 720), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, UDP, HTTPS, FTP, DHCP, DDNS, NTP, 3GPP, RTSP, UPnP, QoS
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s / 1 s - 5 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server/SD card, output activation
Image Processing	Mirror effect, 180° image rotation, sharpening
INTERFACES	
Audio Input/Output	1/1
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	131.2 (∅) x 94.3 (H)
Weight	340 g
Enclosure	Plastic, white
Power Supply	PoE, 12 VDC (230 VAC/12 VDC PSU in-set included)
Power Consumption	2.88 W
Operating Temperature	-10°C ~ 45°C

Dome IP Camera

NVIP-TDN2401D/IR/MPX1.0



new!



Key Features

- Resolution 1 MPX
- D/N functions - IR cut filter
- Min. Illumination from 1 lx (0 lx, IR on)
- Auto iris DC lens, f=2.8 ~ 10 mm/F=1.2
- IR LED, range up to 12 m
- microSD card support

Dimensions



NVIP-TDN2401D/IR/MPX1.0	
IMAGE	
Pick-up Element	1 MPX, CMOS imager, 1/4"
Number of Effective Pixels	1280 (H) x 800 (V)
Min. Illumination	1 lx/F=1.2 - color mode, 0 lx (IR on) - B/W mode
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Auto iris DC, f=2.8 ~ 10 mm/F=1.2
Angle of View (H)	80° ~ 23°
DAY/NIGHT	
Stream Resolution	1280 x 800 (WXGA), 1280 x 720 (HD 720), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, HTTPS, SNMP, QoS/DSCP, Access list, IEEE 802.1X, RTSP, TCP/ IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA, Bonjour
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s/1 s - 5 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/ Samba server/microSD card, output activation
Image Processing	Mirror effect, sharpening
IR LED	
Number	18
Range	12 m
Angle	30°
INTERFACES	
Audio Input/Output	1/1
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD
INSTALLATION PARAMETERS	
Dimensions (mm)	131.2 (Ø) x 94.3 (H)
Weight	330 g
Enclosure	Plastic, white
Power Supply	12 VDC (230 VAC/12 VDC PSU in-set included)
Power Consumption	2.9 W, 4.1 W (IR on)
Operating Temperature	-10°C ~ 45°C

Classic IP Camera

NVIP-TDN5410C/MPX1.0



new!



Lens not included



Key Features

- Resolution 1 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.37 lx
- microSD card support

Dimensions



60 mm



53 mm

100 mm

Related Products



Lenses



Housings



Brackets

Related products details are available on pages 67 and 69-72.

NVIP-TDN5410C/MPX1.0	
IMAGE	
Pick-up Element	1 MPX, CMOS imager, 1/4"
Number of Effective Pixels	1280 (H) x 800 (V)
Min. Illumination	0.74 lx/F=1.2 - color mode, 0.37 lx/F=1.2 - B/W mode
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
COMPATIBLE LENSES	
Mount	CS
Iris Mode	D
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/timer/external (via alarm input)
NETWORK	
Stream Resolution	1280 x 800 (WXGA), 1280 x 720 (HD 720), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	IPv6, IPv4, HTTP, HTTPS, SNMP, QoS/DSCP, Access list, IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA, Bonjour
PC Software	Novus NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s / 1 s - 5 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server/microSD card, output activation
Image Processing	Mirror effect, 180° image rotation, sharpening
INTERFACES	
Audio Input/Output	Built-in microphone / 1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD
INSTALLATION PARAMETERS	
Dimensions (mm)	60 (W) x 53 (H) x 100 (L)
Weight	400 g
Enclosure	Aluminium/steel, silver
Power Supply	PoE, 12 VDC
Power Consumption	2.9 W (PoE), 2.4 W (12 VDC)
Operating Temperature	-10°C ~ 45°C

Classic IP Camera

NVIP-TDN5401C/MPX2.0



Lens not included



Key Features

- Resolution 2 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.1 lx
- SD card support

Dimensions



65 mm



Related Products



Lenses



Housings



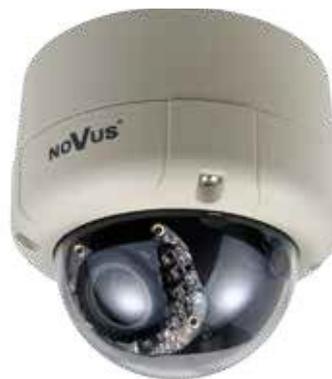
Brackets

Related products details are available on pages 67 and 69-72.

	NVIP-TDN5401C/MPX2.0
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/3"
Number of Effective Pixels	1600 (H) x 1200 (V)
Min. Illumination	0.5 lx/F=1.4 - color mode DSS, 0.1 lx/F=1.4 - B/W mode DSS
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
COMPATIBLE LENSES	
Mount	C/CS
Iris Mode	D
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/schedule/external (via alarm input)
NETWORK	
Stream Resolution	1600 x 1200 (UXGA), 1280 x 1024 (SXGA), 1280 x 960, 1280 x 720 (HD 720), 800 x 592 (SVGA), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	15 fps for 1600 x 1200, 22 fps for 1280 x 1024, 25 fps for 1280 x 960, 1280 x 720 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/μ-LAW
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, FTP, NTP, DDNS, DHCP, UDP, TCP/IP, RTP, RTSP, 3GPP, UPnP
PC Software	NOVUS NMS, ALNET NET STATION, AXSON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s / 1 s - 10 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server/SD card
Image Processing	Mirror effect, sharpening
INTERFACES	
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm
Audio Input/Output	Built-in microphone/1 x RCA
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	65 (W) x 58 (H) x 145 (L)
Weight	450 g
Enclosure	Aluminium/steel, silver
Power Supply	PoE, 12 VDC (230 VAC/12 VDC PSU in-set included)
Power Consumption	5.5 W
Operating Temperature	-10°C ~ 45°C

Vandal Proof IP Camera

NVIP-TDN4401V/IR/MPX2.0



Key Features

- Resolution 2 MPX
- D/N function - IR cut filter
- Min. Illumination 0.37 lx (0 lx, IR on)
- Aspherical auto iris DC lens, f=2.7 ~ 9 mm/F=1.2
- IR LED, range up to 15 m
- SD card support

Dimensions



Related Products



NVB-G40DB

	NVIP-TDN4401V/IR/MPX2.0
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/3"
Number of Effective Pixels	1600 (H) x 1200 (V)
Min. Illumination	0.37 lx/F=1.2 - color mode DSS, 0 lx (IR on) - B/W mode DSS
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
LENS	
Type	Aspherical auto iris DC, f=2.7 ~ 9 mm/F=1.2
Angle of View (H)	83° ~ 26.2°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto
NETWORK	
Stream Resolution	1600 x 1200 (UXGA), 1280 x 1024 (SXGA), 1280 x 960, 1280 x 720 (HD 720), 800 x 592 (SVGA), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	15 fps for 1600 x 1200, 22 fps for 1280 x 1024, 25 fps for 1280 x 960, 1280 x 720, 800 x 592 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/μ-LAW
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, UDP, FTP, DHCP, DDNS, NTP, 3GPP, RTSP, UPnP
PC Software	NOVUS NMS, ALNET NET STATION, AXSON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s / 1 s - 10 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server/SD card
Image Processing	Mirror effect, sharpening
IR LED	
Number	18
Range	15 m
Angle	30°
INTERFACES	
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	141 (Ø) x 132 (H)
Weight	1.22 kg
Enclosure	Vandal proof, aluminium, white, poly-carbonate bubble
Power Supply	PoE, 12 VDC (230 VAC/12 VDC PSU in-set included)
Power Consumption	5.5 W, 8 W (IR on)
Operating Temperature	-10°C ~ 45°C
Degree of Protection	IP 66

Bullet IP Camera

NVIP-TDN3401H/IR/MPX2.0



Key Features

- Resolution 2 MPX
- D/N function - IR cut filter
- Min. Illumination 0.32 lx (0 lx, IR on)
- Auto iris DC lens, f=3.6 ~ 16 mm/F=1.2
- IR LED, range up to 20 m

Dimensions



NVIP-TDN3401H/IR/MPX2.0	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/3"
Number of Effective Pixels	1600 (H) x 1200 (V)
Min. Illumination	0.32 lx/F=1.2 - color mode DSS, 0 lx (IR on) - B/W mode
S/N Ratio	50 dB
Digital Slow Shutter (DSS)	0.03 s ~ 0.2 s
LENS	
Type	Auto iris DC, f=3.6 ~ 16 mm/F=1.2
Angle of View (H)	54° ~ 19°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto
NETWORK	
Stream Resolution	1600 x 1200 (UXGA), 1280 x 1024 (SXGA), 1280 x 960, 1280 x 720 (HD 720), 800 x 592 (SVGA), 640 x 480 (VGA), 320 x 240 (QVGA), 176 x 144 (QCIF)
Frame Rate	15 fps for 1600 x 1200, 22 fps for 1280 x 1024, 25 fps for 1280 x 960, 30 fps for 1280 x 720 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG-4 (3GPP mode), M-JPEG/μ-LAW
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, UDP, FTP, DHCP, DDNS, NTP, 3GPP, RTSP, UPnP
PC Software	NOVUS NMS, ALNET NET STATION, AXSON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	3
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s / 1 s - 10 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server
IR LED	
Number	16/19 (two types, 35 in total)
Range	20 m
Angle	30°/60°
INTERFACES	
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	83 (Ø) x 180 (L)
Weight	1.22 kg
Enclosure	Aluminium, silver, mounting bracket and sunshield in-set included
Power Supply	PoE, 12 VDC (230 VAC/12 VDC PSU in-set included)
Power Consumption	6 W, 8.5 W (IR on)
Operating Temperature	-10°C ~ 45°C
Degree of Protection	IP 66

Classic IP Camera

NVIP-2DN5001C-1P



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx
- SD card support

Dimensions



Related Products



Related products details are available on pages 67 and 69-72.



	NVIP-2DN5001C-1P
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.7"
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
COMPATIBLE LENSES	
Mount	C/CS
Iris Mode	D
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/smart
NETWORK	
Stream Resolution	1920 x 1080 (HD 1080p), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	25 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server, output activation, HTTP notification
INTERFACES	
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	75 (W) x 52 (H) x 125 (L)
Weight	350 g
Enclosure	Aluminium, white
Power Supply	PoE, 12 VDC
Power Consumption	4 W
Operating Temperature	-10°C ~ 50°C

Dome IP Camera

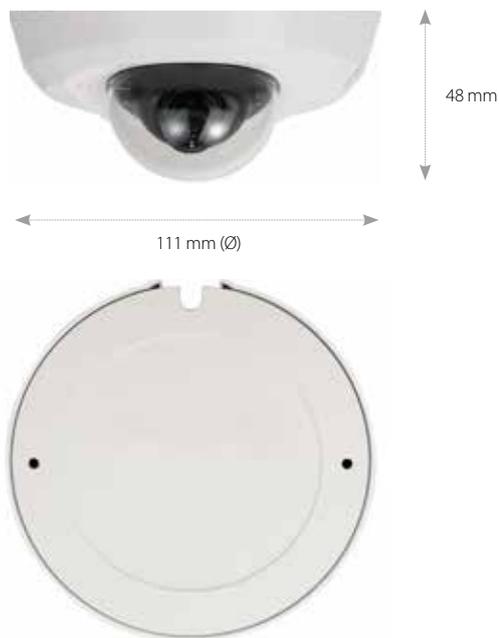
NVIP-2C2011D-P



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - electronic
- Min. Illumination 0.1 lx
- Standard lens, f=4 mm/F=1.5
- SD card support

Dimensions



NVIP-2C2011D-P	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.7" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F=1.5 - color mode DSS, 0.1 lx/F=1.5 - B/W mode DSS
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Standard, f=4 mm/F=1.5
Angle of View (H)	78°
DAY/NIGHT	
Type	Electronic D/N function
Switching Mode	Auto
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	25 fps for each resolution
Multistreaming Mode	2 streams
Video Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server, output activation, HTTP notification
NTP	Synchronization with selected server
INTERFACES	
Audio Input/Output	Built-in microphone/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	111 (Ø) x 48 (H)
Weight	200 g
Enclosure	Plastic, white
Power Supply	PoE
Power Consumption	3.5 W
Operating Temperature	-10°C ~ 50°C

Dome IP Camera

NVIP-2DN2001D-2P



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx
- Auto iris DC lens, f=3 ~ 9 mm/F=1.2
- SD card support

Dimensions



	NVIP-2DN2001D-2P
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.7" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Auto iris DC, f=3 ~ 9 mm/F=1.2
Angle of View (H)	104° ~ 35°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/smart
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	25 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS,
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server, output activation, HTTP notification
NTP	Synchronization with selected server
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	149 (Ø) x 131 (H)
Weight	900 g
Enclosure	Plastic, white
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	5 W
Operating Temperature	-10°C ~ 50°C

Vandal Proof IP Camera

NVIP-2DN4001V/IRH-2P



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx (0 lx, IR on)
- Auto iris DC lens, f=3 ~ 9 mm/F=1.2
- IR LED, range up to 25 m
- SD card support

Dimensions



NVIP-2DN4001V/IRH-2P	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.7" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS, 0 lx (IR on)
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Auto iris DC, f=3 ~ 9 mm/F=1.2
Angle of View (H)	104° ~ 35°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/light sensor/smart
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	25 fps for 1920 x 1080 and lower resolutions
Multistreaming Mode	4 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server, output activation, HTTP notification
IR LED	
Number	23
Range	25 m
Angle	90°
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	149 (Ø) x 135 (H)
Weight	1.2 kg
Enclosure	Vandal proof, aluminium, poly-carbonate bubble
Power Supply	PoE*, 12 VDC/24 VAC
Power Consumption	5 W, 8 W (IR on), 13 W (heater and IR on)
Operating Temperature	-30°C ~ 50°C
Built-in Heater/Fan	Yes/Yes (supported only with 12 VDC/24 VAC)
Degree of Protection	IP 66

* PoE is available for camera operating without heater and/or fan

Bullet IP Camera

NVIP-2DN3001H/IR-2P,
NVIP-2DN3001H/IRH-2



new!



NMS Compatible

Full HD

Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx (0 lx, IR on)
- Auto iris DC lens, f=3 ~ 9 mm/F=1.2
- IR LED, range up to 25 m
- SD card support

Dimensions

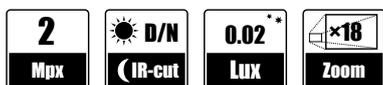


	NVIP-2DN3001H/IR-2P	NVIP-2DN3001H/IRH-2
IMAGE		
Pick-up Element	2 MPX, CMOS imager, 1/2.7" (16:9 format), progressive scan	
Number of Effective Pixels	1920 (H) x 1080 (V)	
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS, 0 lx (IR on)	
S/N Ratio	> 60 dB (AGC off)	
Digital Slow Shutter (DSS)	0.04 s ~ 1 s	
Wide Dynamic Range (WDR)	Yes	
Digital Noise Reduction (DNR)	Yes	
LENS		
Type	Auto iris DC, f=3 ~ 9 mm/F=1.2	
Angle of View (H)	104° ~ 35°	
DAY/NIGHT		
Type	Mechanical IR cut filter	
Switching Mode	Auto/manual/light sensor/smart	
NETWORK		
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	
Frame Rate	25 fps for each resolution	
Multistreaming Mode	4 streams	
Video Compression	H.264, M-JPEG/G.711, G.726	
Number of Simultaneous Connections	Max. 10	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS	
PC Software	NOVUS NMS, ALNET NET STATION, AXSON, Internet Explorer	
OTHER FUNCTIONS		
OSD	IE browser, Polish, English, Russian and others	
Privacy Zones	5	
Motion Detection	Yes	
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s	
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/Samba server, output activation, HTTP notification	
IR LED		
Number	23	
Range	25 m	
Angle	70°	
INTERFACES		
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)	
Alarm Input/Output	1/1	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s	
Memory Card Slot	Yes	
INSTALLATION PARAMETERS		
Dimensions (mm)	88 (Ø) x 270 (L)	
Weight	1 kg	
Enclosure	Aluminium, white, mounting bracket and sunshield in-set included	
Power Supply	PoE, 12 VDC/24 VAC	12 VDC/24 VAC
Power Consumption	5 W, 8 W (IR on)	5 W, 8 W (IR on), 20 W (IR and heater on)
Operating Temperature	-10°C ~ 50°C	-35°C ~ 50°C
Built-in Heater	-	Yes
Degree of Protection	IP 66	

Classic IP Camera with Motor-zoom Lens

NVIP-2DN5018CZ-2P

new!



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx
- Motor-zoom with AI and AF function, 18x optical zoom, f=4.7 ~ 84.6 mm/F=1.6 ~ 2.8
- SD card support

Dimensions



Related Products



NVIP-2DN5018CZ-2P	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.7"
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 0.67 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Zoom	18x optical/8x digital
Type	Motor-zoom with AI and AF function, f=4.7 ~ 84.6 mm/F=1.6 ~ 2.8
Angle of View (H)	61.5°~3.3°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/smart
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	4 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/SD card, output activation, HTTP notification
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
RS-485	Yes
Protocols	Pelco-D, Pelco-P
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	80.5 (W) x 52.5 (H) x 183.5 (L)
Weight	500 g
Enclosure	Aluminium, white
Power Supply	PoE, 12 VDC, 24 VAC
Power Consumption	6 W
Operating Temperature	0°C ~ 40°C

Bullet IP Camera

NVIP-3DN3010H/IRH-1P



Key Features

- Resolution 3 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.001 lx (0 lx, IR on)
- Auto iris DC lens, f=3 ~ 10 mm/F=1.2
- IR LED, range up to 40 m

Dimensions



NVIP-3DN3010H/IRH-1P	
IMAGE	
Pick-up Element	3 MPX, CMOS imager, 1/2.8", progressive scan
Number of Effective Pixels	2048 (H) x 1536 (V)
Min. Illumination	0.3 lx/F=1.2 - color mode, 0.08 lx/F=1.2 - B/W mode, 0.001 lx/F=1.2 - B/W mode DSS, 0 lx (IR on)
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	0.13 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Auto iris DC, f=3 ~ 10 mm/F=1.2
Angle of View (H)	90° ~ 28°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual
NETWORK	
Stream Resolution	2048 x 1536 (QXGA), 1600 x 1200 (UXGA), 1920 x 1080 (FullHD), 1280 x 1024 (SXGA), 1280 x 960, 1280 x 720 (HD), 1024 x 768 (XGA), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	15 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, MPEG4, M-JPEG/G.711, µ-LAW
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, UDP, FTP, DHCP, NTP, RTSP, RTP, SMTP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	6
Motion Detection	Yes
Prealarm/Postalarm	10 s/30 s
System Reaction to Alarm Events	E-mail, saving file on FTP server, output activation
IR LED	
Number	40
Range	40 m
Angle	90°
INTERFACES	
Video Output	1.0 Vp-p/75 Ohm (BNC) - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	83 (W) x 82 (H) x 166 (L)
Weight	1.3 kg
Enclosure	Aluminium, white, mounting bracket with cable and sunshield in-set included
Power Supply	PoE+, 12 VDC
Power Consumption	2.5 W, 6 W (IR on), 18 W (heater and IR on)
Operating Temperature	-40°C ~ 50°C
Built-in Heater/Fan	Yes/Yes
Degree of Protection	IP 66

Classic IP Camera

NVIP-5DN5001C-1P

new!



Key Features

- Resolution 5 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx
- SD card support

Dimensions



Related Products



Related products details are available on pages 67 and 69-72.



	NVIP-5DN5001C-1P
IMAGE	
Pick-up Element	5 MPX, CMOS imager, 1/2.5"
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.2 lx/F=1.2 - color mode DSS, 0.02 lx/F=1.2 - B/W mode DSS
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 0.67 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
COMPATIBLE LENSES	
Mount	C/CS
Iris Mode	D
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/smart
NETWORK	
Stream Resolution	2592 x 1944, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	10 fps for 2592 x 1944, 15 fps for 2048 x 1536, 25 fps for 1920 x 1080 and lower resolutions
Multistreaming Mode	4 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 8
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server/SD card, output activation, HTTP notification
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	75 (W) x 52 (H) x 125 (L)
Weight	350 g
Enclosure	Aluminium, white
Power Supply	PoE, 12 VDC
Power Consumption	4 W
Operating Temperature	-10°C ~ 50°C

Dome IP Camera with Fisheye Lens

NVIP-5DN2021D/IR-2P



new!



Key Features

- Resolution 5 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.02 lx (0 lx, IR on)
- Fisheye lens, f=1.05 mm/F=2.8
- IR LED, range up to 5 m
- SD card support

Dimensions

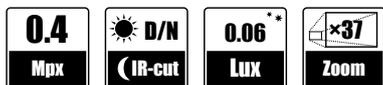


	NVIP-5DN2021D/IR-2P
IMAGE	
Pick-up Element	5 MPX, CMOS imager, 1/2.5" (4:3 format), progressive scan
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.2 lx/F=2.8 - color mode DSS, 0.02 lx/F=2.8 - B/W mode DSS, 0 lx (IR on)
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 0.67 s
Wide Dynamic Range (WDR)	Low/medium/high/off
Digital Noise Reduction (DNR)	Yes
LENS	
Type	Fisheye lens, f=1.05 mm/F=2.8
Angle of View (H)	180°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual/light sensor/smart
NETWORK	
Stream Resolution	2592 x 1944, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	10 fps for 2592 x 1944, 15 fps for 2048 x 1536, 25 fps for 1920 x 1080 and lower resolutions
Multistreaming Mode	4 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 8
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	5
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on: FTP server, SD card, output activation, HTTP notification
IR LED	
Number	6
Range	5 m
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)*, built-in 2 W speaker, built-in microphone
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	149 (Ø) x 45.8 (H)
Weight	350 g
Enclosure	Plastic, white
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	12 W (IR on)
Operating Temperature	-10°C ~ 50°C

*Available with an optional cable

Speed Dome IP Camera

NVIP-DN6137SD



Key Features

- Resolution 0.4 MPX
- D/N function - IR cut filter
- Min. Illumination from 0.06 lx
- Motor-zoom lens with AI and AF function, 37x optical zoom, f=3.5 ~ 129.5 mm/F=1.6 ~ 3.9

Dimensions



Related Products

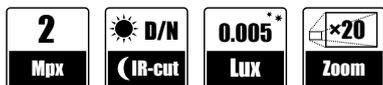


Related products details are available on page 72.

	NVIP-DN6137SD
IMAGE	
Pick-up Element	0.4 MPX, CCD imager, 1/4"SONY Super HAD
Number of Effective Pixels	720 (H) x 576 (V)
Min. Illumination	0.7 lx/F=1.6 - color mode, 0.06 lx/F=1.6 - B/W mode
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	0.04 s ~ 5.12 s
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	Yes
LENS	
Zoom	37x optical
Type	Motor-zoom with AI and AF function, f=3.5 ~ 129.5mm/F=1.6 ~ 3.9
Angle of View (H)	55.5° ~ 1.59°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual
NETWORK	
Stream Resolution	720 x 576 (D1), 720 x 288 (2CIF), 352 x 288 (CIF)
Frame Rate	25 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
PTZ	
Preset Commands	128
Tours	8 (max. 20 presets each)
Auto-Scans	8
Patterns	4 (up to 1200 commands)
Pan/Tilt Range	0° ~ 90°/360° (continuous)
Pan/Tilt Speed	360°/s (proportional to zoom)
Preset Speed	Up to 360°/s
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	8
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s/1 s - 5 s
System Reaction to Alarm Events	E-mail with attachment, saving file on FTP server, output activation, PTZ
INTERFACES	
Video Output	BNC, 1.0 V _{p-p} , 75 Ohm
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	3/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	220 (Ø) x 196 (H), with mounting bracket: 310 (L) x 286 (H)
Weight	4.3 kg
Enclosure	Aluminium, white, mounting bracket and poly-carbonate bubble in-set included
Power Supply	12 VDC, 3 A
Power Consumption	36 W
Operating Temperature	-30°C ~ 50°C
Built-in Heater/Fan	Yes/Yes
Degree of Protection	IP 67

Speed Dome IP Camera

NVIP-2DN6020SD



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.005 lx
- Motor-zoom lens with AI and AF function, 20x optical zoom, f=4.7 ~ 94 mm/F=1.6 ~ 3.5

Dimensions



Related Products



NVB-SD6PA

NVB-SD6CA

NVB-SD6CB

	NVIP-2DN6020SD
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/3"
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.5 lx/F=1.6 - color mode DSS, 0.005 lx/F=1.6 - B/W mode DSS
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	Auto/off
Wide Dynamic Range (WDR)	Yes
LENS	
Zoom	20x optical
Type	Motor-zoom with AI and AF function, f=4.7 ~ 94 mm/F=1.6 ~ 3.5
Angle of View (H)	55.2° ~ 2.9°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1680 x 1050 (WSXGA), 1600 x 900, 1440 x 900, 1280 x 960, 1280 x 720 (HD 720p), 800 x 600 (SXGA), 720x576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 10
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP
PC Software	NOVUS NMS, ALNET NET STATION, AXXON, Internet Explorer
PTZ	
Preset Commands	128
Tours	8 (max. 20 presets each)
Auto-Scans	8
Patterns	4 (up to 1200 commands)
Pan/Tilt Range	0° ~ 90°/360° (continuous)
Pan/Tilt Speed	0.05°/s
Preset Speed	Up to 360°/s
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	8
Motion Detection	Yes
Prealarm/Postalarm	1 s - 5 s/1 s - 5 s
System Reaction to Alarm Events	E-mail with attachment, saving file on FTP server, output activation, PTZ
INTERFACES	
Video Output	HD-SDI (uncompressed HD digital signal)
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2/2
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	220 (Ø) x 196 (H), with mounting bracket: 310 (L) x 286 (H)
Weight	4.3 kg
Enclosure	Aluminium, white, mounting bracket and poly-carbonate bubble in-set included
Power Supply	12 VDC, 3 A
Power Consumption	36 W
Operating Temperature	-30°C ~ 50°C
Built-in Heater/Fan	Yes/Yes
Degree of Protection	IP 67

Related products details are available on page 72.

Speed Dome IP Camera

NVIP-2DN6020SD-2P



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.01 lx
- Motor-zoom lens with AI and AF function, 20x optical zoom, f=4.7 ~ 94 mm/F=1.6 ~ 3.5
- Micro SD/SDHC card support

Dimensions



Related Products



Related products details are available on page 72.

www.novuscctv.com



NVIP-2DN6020SD-2P	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.05 lx/F=1.6 - color mode DSS, 0.01 lx/F=1.6 - B/W mode DSS
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	0.08 s ~ 1 s
Wide Dynamic Range (WDR)	Yes
LENS	
Zoom	20x optical
Type	Motor-zoom with AI and AF function, f=4.7 ~ 94 mm/F=1.6 ~ 3.5
Angle of View (H)	52.3° ~ 4.1°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto/manual
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps
Multistreaming Mode	4 streams
Video/Audio Compression	H.264, M-JPEG/G.711, G.726
Number of Simultaneous Connections	Max. 5
Network Protocols Support	HTTP/TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS
PC Software	NOVUS NMS, Internet Explorer
PTZ	
Preset Commands	256
Tours	8 (max. 64 presets each)
Auto-Scans	4
Patterns	8 (max. 206 s)
Pan/Tilt Range	-10° ~ 190°/360° (continuous)
Pan/Tilt Speed	0.5 - 90°/s
Preset Speed	5 - 400°/s
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Privacy Zones	16
Motion Detection	Yes
Prealarm/Postalarm	20 frames or 3 s/20 frames or 9999 s
System Reaction to Alarm Events	E-mail with attachment, saving file on FTP server, saving file on micro SD/SDHC card, output activation, HTTP notification, PTZ
INTERFACES	
Audio Input/Output	1/1
Alarm Input/Output	4/2
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	192 (Ø) x 282 (H), with mounting bracket: 254 (L) x 354 (H)
Weight	2.9 kg (with mounting bracket)
Enclosure	Plastic, white, mounting bracket and poly-carbonate bubble in-set included
Power Supply	PoE+*, 24 VAC
Power Consumption	50 W
Operating Temperature	-40°C ~ 50°C
Built-in Heater/Fan	Yes/Yes (supported only with 24 VAC)
Degree of Protection	IP 66

* Fan and/or heater are not supported with PoE+

NMS Workstations

NMS NVR



Key Features

- Registration up to 64 HD streams
- Megapixel streams support
- Up to 5 HDDs - up to 10 TB in total for recordings
- External arrays support
- Up to 4 monitors support
- NMS software installed
- Compatible with all NOVUS IP products

Dimensions



	NMS NVR 7	NMS NVR 5	NMS NVR3
Max. Number of Recorded HD Video Streams	Up to 64	Up to 64*	Up to 50*
Max. Number of Recorded HD Frames	Up to 1600	Up to 1600	Up to 1250
Max. Number of Displayed HD Video Streams	25 live or 16 played back	16 live or 16 played back	4 live or 4 played back
Max. Number of HD Video Streams Sent to NMS Client Station	150 live**or 16 played back	75 live or 16 played back	50 live or 16 played back
Software	Windows 7 PRO 64bit		
Processor	Intel i7	Intel i5	Intel i3
System HDD	500 GB		
Built-in HDD	4 x 2 TB	3 x 2 TB	2 x 2 TB
Optional HDD (without DVD-RW)	1 x 2 TB	2 x 2 TB	3 x 2 TB
External Arrays Support	Yes, through interfaces: iSCSI, eSATA		
Built-in DVD-RW	1 x DVD-RW		
Network Card	2 x 1000 Mbit/s	2 x 1000 Mbit/s	2 x 1000 Mbit/s
Monitor Output	2 (1 x DVI, 1 x VGA)		
Optional Monitor Output	2 (1 x HDMI/DVI, 1 x VGA) with optional NMS GRAPHIC card		
Power Supply	Built-in PSU 230 VAC/600 W		
Enclosure	Midi tower or optional RACK 19" 4U		
Dimensions (mm)	442 (H) x 205 (W) x 540 (D) - midi tower 180 (H) x 483 (W) x 508 (D) - RACK 19" 4U		

* An additional HDD/HDDs installation required to record max. number of streams presented in the table, because recommended number of HD video streams recorded on 1 HDD should not exceed 16
 **The third network card required

NOTE: Values refer to the NMS software ver. 1.20.

NOTE: The sample stream used for the above specification: HD 720p (1280x720@25FPS) 2Mbit/s. Values change depending on the stream.

Additional Elements

NMS HDD 2TB	HDD 2TB	Optional HDD for NMS NVR platforms. 2TB capacity
NMS RACK	RACK 4U	Optional 19" 4U RACK case (instead of a standard midi tower)
NMS GRAPHIC	1 GB, 1 x HDMI, 1 x VGA, 1 x DVI	Optional graphic card required for 3- and 4-screen operation

Due to frequent parameter changes, the most recent information can be found on www.novuscctv.com

NMS Workstations

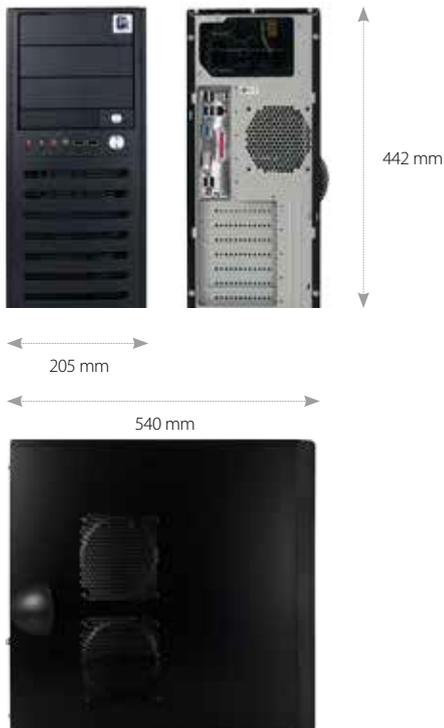
NMS CLIENT



Key Features

- Registration up to 64 HD streams
- Megapixel streams support
- Up to 4 monitors support
- NMS software installed
- Compatible with all NOVUS IP products

Dimensions



	NMS CLIENT 7
Max. Number of Received HD Video Streams	96
Max. Number of Displayed HD Video Streams	25 live or 16 played back
Software	Windows 7 PRO 64bit
Processor	Intel i7
System HDD	500 GB
Built-in DVD-RW	1 x DVD-RW
Network Card	1 x 1000 Mbit/s
Monitor Output	2 (1 x DVI, 1 x VGA)
Optional Monitor Output	2 (1 x HDMI/DVI, 1 x VGA) with optional NMS GRAPHIC card
Power Supply	Built-in PSU 230 VAC/600 W
Enclosure	Midi tower or optional RACK 19"4U
Dimensions (mm)	442 (H) x 205 (W) x 540 (D) - midi tower 180 (H) x 483 (W) x 508 (D) - RACK 19"4U

NOTE: Values refer to the NMS software ver. 1.20.

NOTE: The sample stream used for the above specification: HD 720p (1280x720@25FPS) 2Mbit/s. Values change depending on the stream.

Additional Elements

NMS RACK	RACK 4U	Optional 19"4U RACK case (instead of a standard midi tower)
NMS GRAPHIC	1 GB, 1 x HDMI, 1 x VGA, 1 x DVI	Optional graphic card required for 3- and 4-screen operation

Due to frequent parameter changes, the most recent information can be found on www.novuscctv.com

NMS workstations

The following table presents the performance of hardware platforms for exemplary variants of system operation. The comparison helps to choose the best workstation suited to individual needs.

The offer includes three server stations - NMS NVR and one client station - NMS CLIENT. Depending on the system structure and size (mainly the number and size of streams) it is necessary to use an appropriate workstation.

NMS software is installed on all workstations.

Maximum number of supported video streams								
Platform	locally			sent to NMS CLIENT station			received from NMS NVR station	
	recorded (fps)	displayed (fps)	or played back (fps)	live	with recordings (1x speed)	or with recordings (4x speed)	live or with recordings	
NMS NVR 3 Server	50 (1250)*	4 (100)	or 4 (100)	0	0	or 0	0	
	50 (1250)*	1 (25)	or 1 (25)	50	16	or 2	0	
NMS NVR 5 Server	64 (1600)*	16 (400)	or 16 (400)	0	0	or 0	0	
	64 (1600)*	4 (100)	or 4 (100)	64	1	or 1	0	
	50 (1250)*	4 (100)	or 4 (100)	50	16	or 2	0	
	25 (625)	4 (100)	or 4 (100)	75	16	or 4	0	
	16 (400)	4 (100)	or 4 (100)	64	16	or 4	0	
NMS NVR 7 Server	64 (1600)	25 (625)	or 16 (400)	0	0	or 0	0	
	50 (1250)	4 (100)	or 4	64	16	or 4	0	
	50 (1250)	4 (100)	or 4	128**	16	or 4	0	
	0	4 (100)	or 0	150**	0	or 0	0	
NMS CLIENT 7	0	25 (625)	or 16 (400)	0	0	or 0	96	

*To ensure proper operation of the system while recording, do not record more than 16 streams per HDD. Some configurations require installation of additional HDDs into NMS NVR platforms

**An additional network card required

Hardware platform adapted to recording streams from cameras, displaying them locally and sending to client stations

NMS NVR 3 Server	Processor i3, 1HDD 500G + 2HDDx2TB, DVD, 2xGbit Ethernet,	<ul style="list-style-type: none"> Recording of up to 50 streams in HD resolution Sending to the NMS CLIENT station of up to 50 streams in live mode or up to 16 streams in playback mode
NMS NVR 5 Server	Processor i5, 1HDD 500G + 3HDDx2TB, DVD, 2xGbit Ethernet	<ul style="list-style-type: none"> Recording of up to 64 streams in HD resolution Sending to the NMS CLIENT station of up to 75 streams in live mode or up to 16 streams in playback mode
NMS NVR 7 Server	Processor i7, 1HDD 500G + 4HDDx2TB, DVD, 2xGbit Ethernet	<ul style="list-style-type: none"> Recording of up to 64 streams in HD resolution Sending to the NMS CLIENT station of up to 150 streams in live mode or up to 16 streams in playback mode

Installation of up to 6 HDDs (excluding DVD)

Hardware platform adapted to receiving and displaying streams from server stations

NMS CLIENT 7	Processor i7, 1HDD 500G, DVD, 1xGbit Ethernet	<ul style="list-style-type: none"> Receiving of up to 96 streams, displaying of up to 25 streams in live mode or playback of up to 16 streams with recordings
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Additional elements of NMS NVR and NMS CLIENT workstations

NMS HDD 2TB	HDD 2TB	<ul style="list-style-type: none"> Optional HDD for NMS NVR platforms. 2TB capacity
NMS RACK	RACK 4U	<ul style="list-style-type: none"> Optional 19" 4U RACK case (instead of a standard midi tower)
NMS GRAPHIC	Graphic card. 1GB. 1xHDMI, 1xVGA, 1xDVI	<ul style="list-style-type: none"> Optional graphic card required for 3- and 4-screen operation

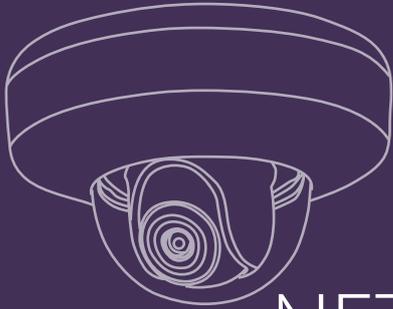
NOTE: The sample stream used for the above specification: HD 720p (1280x720@25FPS) 2Mbit/s. Values change depending on the stream.

NOTE: Values refer to the NMS software ver. 1.20.

Due to frequent parameter changes, the most recent information can be found on www.novuscctv.com

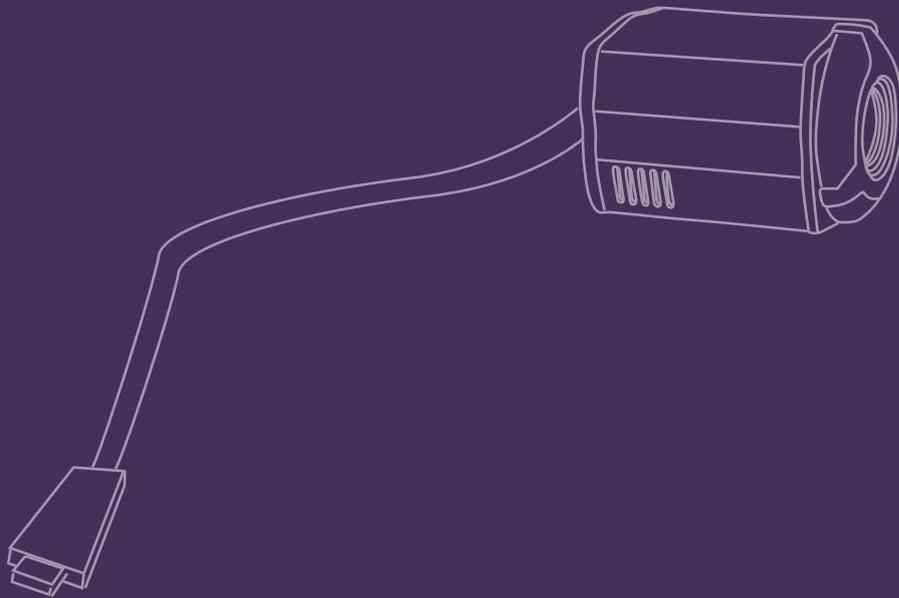
ipGO

DEVICES



CAMERAS

NETWORK VIDEO RECORDERS





New family of NOVUS[®] products for IP monitoring



Still not convinced to IP technology?

This system will change your way of thinking about network devices!

» No problems with camera connection «

100% satisfaction with excellent image quality

Experience ipGO now!



STANDALONE



PLUG & PLAY



Full HD



MOBILE VIEWING



USER FRIENDLY OSD



MODERN DESIGN



Standalone IP system

To build a complete ipGO monitoring system you need network video recorder (NVIP-NVRA0104/GO or NVIP-NVRA0208/GO) and cameras (NVIP-2C2001D-P/GO and/or NVIP-2C5005CZ-P/GO).

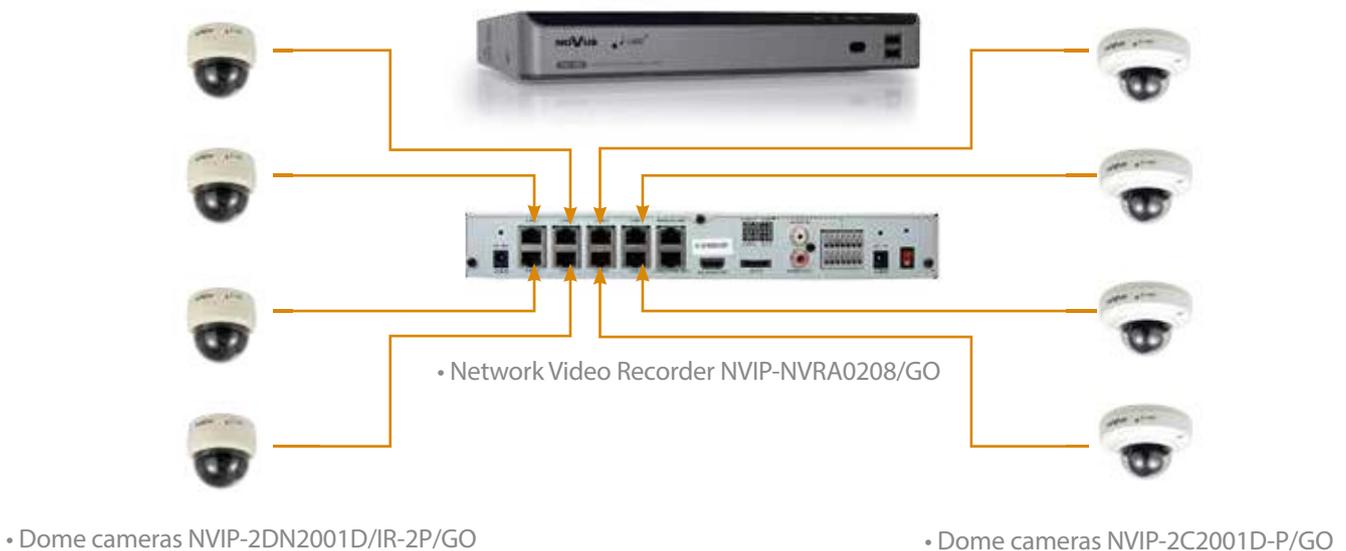
ipGO is a standalone system, does not require an additional computer or other devices. You only need a monitor with HDMI port for viewing images from the cameras. In this respect, ipGO is similar to analog systems.

Build your own ipGO system!

1 - 4 camera system



1 - 8 camera system





Plug & Play standard, automatic system configuration

ipGO cameras and network video recorders are very different from IP devices offered by now. ipGO is a Plug&Play system - a few clicks and it operates. Installation is very easy and does not take longer than installation of analog system.

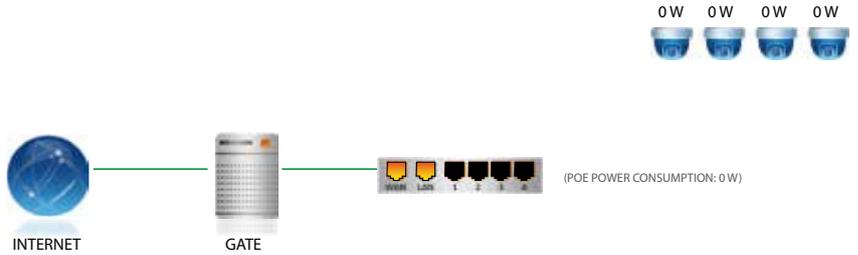
Connect the camera to an appropriate port in the NVR and it will be automatically activated (powered) and configured, than on the screen displays information about adding camera to the system. ipGO cameras do not require additional configuration, thus there is no complicated process of searching cameras and assigned them a unique network addresses, as in the case of traditional IP systems.

Easy as 1... 2... 3... Just plug the system and it works!

1



Connect the camera

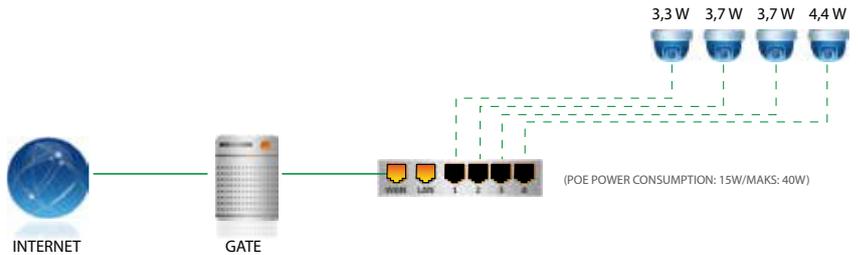


Information displays on the screen about system status - cameras not connected

2



...to an appropriate port in the network video recorder...

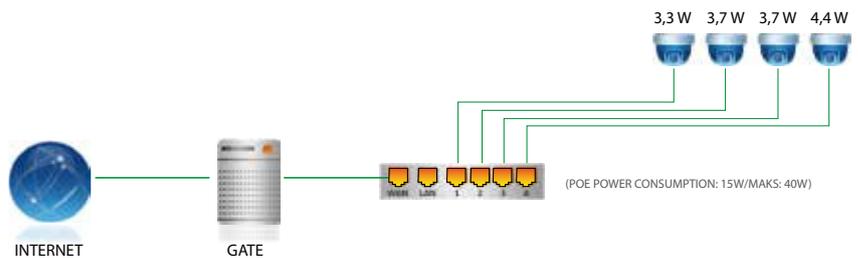


Information displays on the screen about system status - connecting cameras

3



... and the system is ready for operation!



Information displays on the screen about system status - cameras connected

--- CONNECTING
— CONNECTED



Amazing Full HD image quality

ipGO system provides Full HD resolution image. Network video recorders are equipped with HDMI output to connect a monitor or TV. HDMI monitor output operates in Full HD mode (1920 x 1080 pixels), so image generated by 2 MPX cameras is clear and very detailed.

One of the biggest disadvantages of analog systems is difficulty in recognizing details of an observed scene, such as facial features and clothing items. Choosing an IP system you can be sure that every detail is clearly visible on recordings and at the same time, an image is smooth and colours are accurately reproduced.



Standard analog camera



ipGO camera

NVIP-2C5005CZ-P/GO camera is also equipped with a motor-zoom lens x5



ipGO camera NVIP-2C5005CZ-P/GO 5x zoom



Smartphones support (iPhone, Android)

Remote access to the cameras via mobile devices is a very important element of surveillance system. You can always check what is going on in a monitored object.

nViewer application, available on App Store and Google Play, allows live monitoring and playback of recorded material on your smartphone (iPhone, Android).



User friendly OSD

ipGO system is easy to install, but it is also easy to manage. ipGO NVRs operate in much the same way as conventional DVRs, offer similar functions and multi-level menu, displayed on the screen and used for system management. User friendly OSD allows you to manage the system without specialist IP knowledge.



Log list - list of recent events



Display panel - display settings, navigation tools settings, descriptions configuration

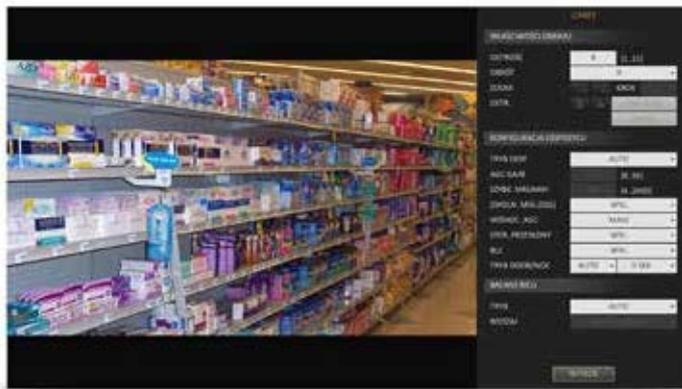


Alarm inputs - configuration of system reaction on alarm events



Recording panel - auto/manual mode

Menu allows you to configure camera settings, such as image parameters, motion detection.



Menu - management of recordings



Image settings - individual settings of brightness, contrast, colour for each camera and change the advanced settings

You can manage the system and use all its functions through dedicated software ipGO Manager.



Live monitoring



View from the selected camera

Selected features:

- Simultaneous connection with multiple network video recorders in live monitoring mode
- Remote playback - advanced searching features (date/time, calendar, events, images review)
- Multi screen operation
- Display of up to 64 cameras on each monitor
- Arrangement of cameras adapted to widescreen monitors
- Remote copying of recordings into AVI format
- Digital zoom available in live monitoring and playback modes
- Multiple user accounts with different privileges
- Remote management of alarms
- PTZ control
- Multi-lingual OSD



Modern design and compact size

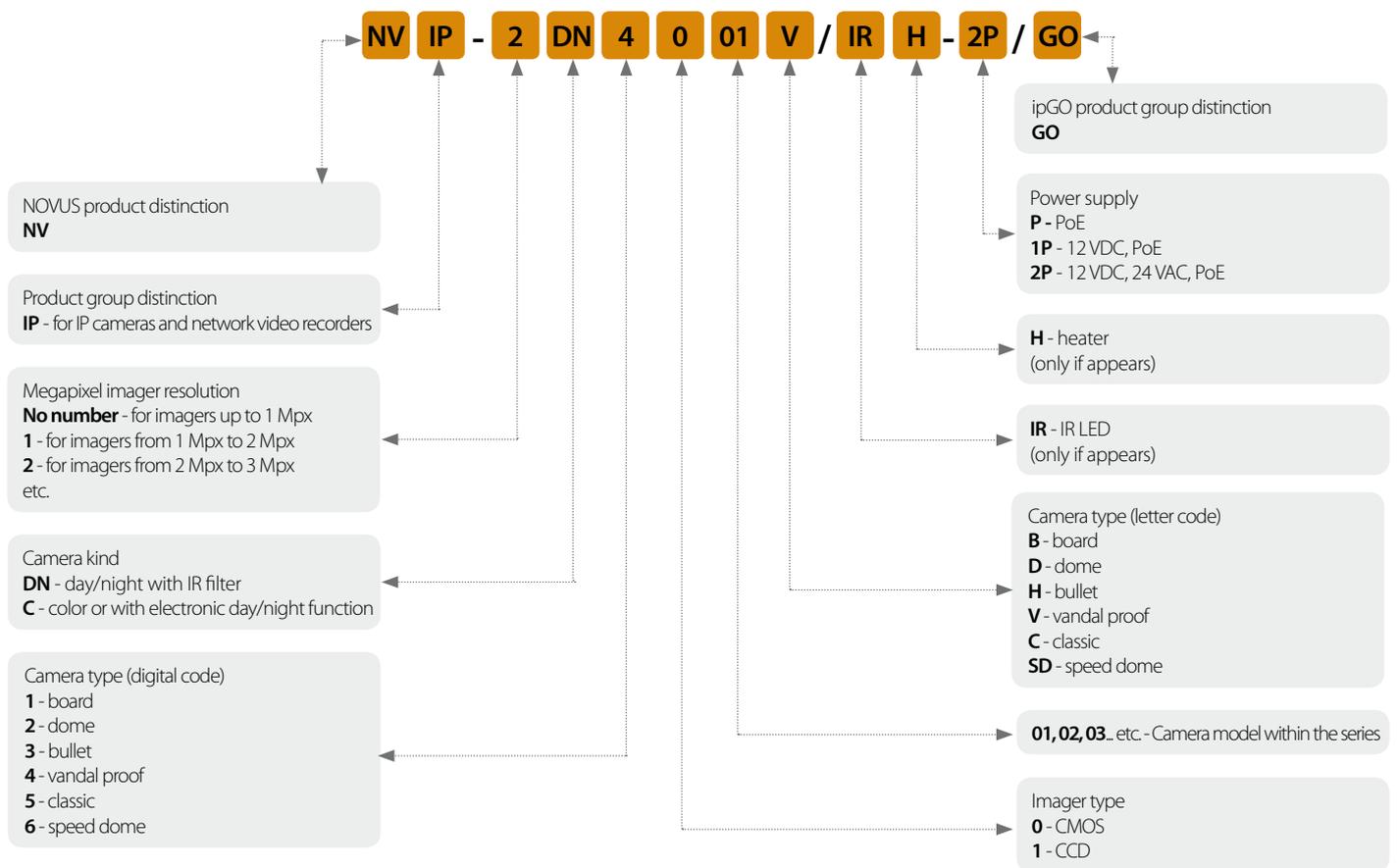
More often, apart from system functionality, customers attach great importance to devices exterior. Customers prefer discreet cameras, which suited well to design of any room. Small size of ipGO devices and modern look guarantee, that they meet the needs of the most demanding customers.



ipGO Cameras nomenclature



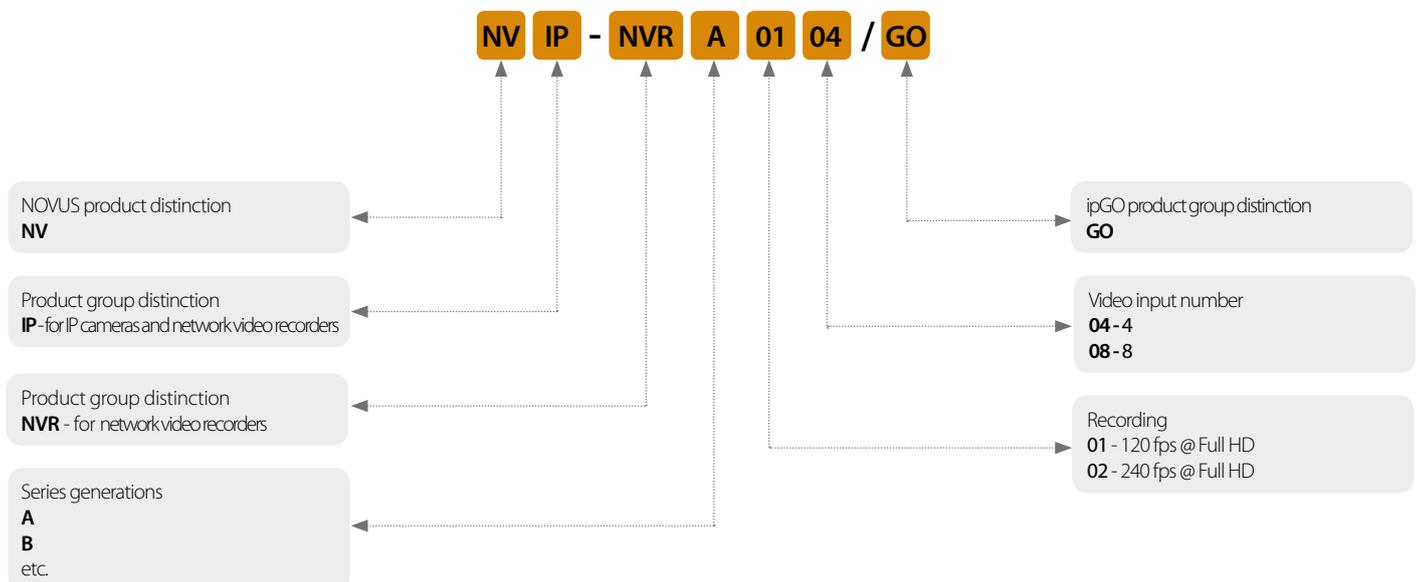
NVIP-2DN4001V/IRH-2P/GO



ipGO Network Video Recorders nomenclature



NVIP-NVRA0104/GO



Features and functions of ipGO devices

Day/night function

Day/night function allows the camera to be switched from color mode into black/white mode in low light conditions.



Electronic D/N function off

Electronic D/N function on

Electronic day/night function

The operation of electronic day/night function is to cut out a color component from the video signal, so that in low light conditions there is no camera "snow" effect. It has an important impact on the size of recording data in DVRs using H.264 or MPEG-4 compression.

Supported in ipGO cameras

Mechanical IR cut filter

This function signifies that the IR filter is mechanically removed in low light conditions, that is why the imager receives more light from the infrared range and the camera's sensitivity significantly increases.

Supported in ipGO cameras

Electronic D/N function on

Mechanical IR cut filter on

PoE (Power over Ethernet)

PoE technology enables transmission of the electrical power via twisted-pair, ex. in IP cameras. Thanks to this feature, the camera installation is easy and fast, because data and power supply are transmitted via one cable and an installer does not have to work at 230V.

Supported in ipGO cameras

Resolution

- **Full HD (Full High Definition)** - video signal resolution of 1920 x 1080 pixels in 16:9 format (HD 1080)

Supported in ipGO cameras

- **HD (High Definition)** - video signal resolution of 1280 x 720 pixels in 16:9 format (HD 720)

Supported in ipGO cameras

- **SD (Standard Definition)** - video signal resolution of 720 x 576 pixels in 4:3 format (PAL)

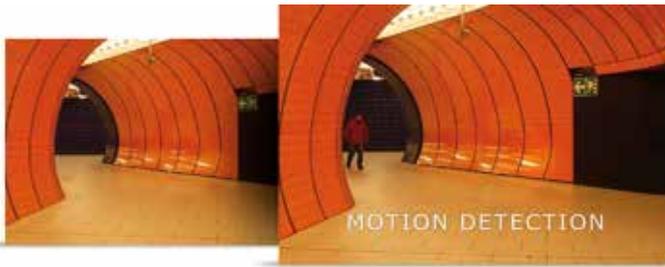
Supported in ipGO cameras



Full HD resolution (1920 x 1080)

HD resolution (1280 x 720)

SD resolution (720 x 576)



Motion Detection

This function enables detecting movement in user-defined areas of a scene, and then - depending on the model - automatically activates alarm outputs or displays an appropriate message on the screen.

Supported in ipGO cameras



DSS - Digital Slow Shutter

This function helps to obtain better, brighter images in low light conditions. Longer imager exposure (from 1/50 s to 20 s) causes the image to be less frequently read. A side effect of the DSS is smearing for fast moving objects.

Supported in ipGO cameras

DSS off

DSS on



Vandal proof enclosure

A camera body made of aluminium alloy along with transparent poly - carbonate bubble guarantee high mechanical resistance, confirmed by a relevant certificate. For example, G Series cameras vandal proof enclosures represent the highest 10th level of mechanical resistance on IK scale.

Supported in ipGO cameras

Standard dome camera

NOVUS®vandal proof camera

Degree of protection IP65, IP66, IP67

- IP 65 - completely dust proof housing, resistant to water jets from any direction
- IP 66 - completely dust proof housing, resistant to strong water jets from all directions or wave flooding
- IP 67 - completely dust proof housing, resistant to immersion to a depth of 1 m for 30 min.

Supported in ipGO cameras



Searching video by events

This function facilitate video search. Images from selected camera are displayed on the screen at fixed intervals, eg. from the whole day, whole hour. This allows you to quickly find requested event, eg. locate a car that left a car park.

Supported in ipGO network video recorders

Camera image 2:00 pm

Camera image 3:00 pm



Convenient HDD installation

Thanks to a special stand, when you mount the hard drive you don't need to remove the cover from the NVR. You just have to slide out the stand located at the bottom of the NVR, screw the drive and slide it back into place. Mounted HDD is ready to use and do you don't need to connect any additional wires.

Supported in ipGO network video recorders

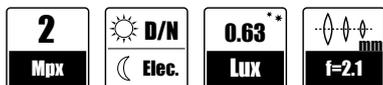
ipGO Cameras Comparison

	NVIP-2C2001D-P/GO	NVIP-2C5005CZ-P/GO	NVIP-2DN2001D/IR-2P/GO	NVIP-2DN3001H/IRH-2P/GO	NVIP-2DN4001V/IRH-2P/GO
	 Full HD	 Full HD	 Full HD	 Full HD	 Full HD
Page	59	60	61	62	63
Pick-up Element	1/2.8" CMOS				
Imager Resolution	2 MPX (1920 x 1080)				
Day/Night Function	electronic		IR cut filter		
Min. Illumination	0.63 lx/F=2.0 - color, 0.63 lx/F=2.0 - B/W	0.63 lx/F=3.5 - color, 0.63 lx/F=3.5 - B/W	0.16 lx/F=1.2 - color, 0.07 lx/F=1.2 - B/W, 0 lx/F=1.2 - B/W (IR on)	0.16 lx/F=1.2 - color, 0.07 lx/F=1.2 - B/W, 0 lx/F=1.2 - B/W (IR on)	0.16 lx/F=1.2 - color, 0.07 lx/F=1.2 - B/W, 0 lx/F=1.2 - B/W (IR on)
Digital Slow Shutter (DSS)	x2				
Defective Pixel Correction (DPC)	yes				
Video Compression	H.264, M-JPEG				
Frame Rate	30 fps for each resolution				
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Multistreaming Mode	2 streams				
Audio I/O	-		1/1		
Audio Compression	-		G.711		
Lens	f=2.1 mm	f=5 ~25 mm	f=3 ~ 9 mm		
Optical zoom	-		5x		
IR LED	-		18 LED, 10 m range	42 LED, 30 m range	18 LED, 10 m range
Alarm I/O	-		1/1		
Motion Detection	yes				
E-mail Event Notification	yes				
Video Output	BNC, 1.0Vp-p, 75 Ohm		BNC, 1.0Vp-p, 75 Ohm (service)		
Power Supply	PoE	PoE	PoE, 12VDC/24VAC	PoE, 24VAC	PoE, 12VDC/24VAC
Degree of Protection	-		IP66		
Operating Temperature	-10°C ~ 50°C	0°C ~ 40°C		-40°C ~ 50°C	
Built-in Heater/Fan	-/-		Yes*/Yes		Yes*/-
Dimensions (mm)	110 (Ø) x 67.5 (H)	50.6 (W) x 47.4 (H) x 62.8 (L)	1125 (Ø) x 113 (H)	145 (Ø) x 335 (L)	1145 (Ø) x 116 (H)
Compatible Software	NOVUS NMS				
Compatible Network Video Recorders	NVIP-NVRA0104/GO, NVIP-NVRA0208/GO				

*Fan and/or heater are not supported with PoE

Dome IP Camera

NVIP-2C2001D-P/GO



Key Features

- Camera resolution 2 MPX (FULL HD)
- D/N function - electronic
- Min. Illumination 0.63 lx
- Standard lens, f=2.1 mm/F=2.0, wide viewing angle 128°
- Defective Pixel Correction (DPC)

Dimensions



	NVIP-2C2001D-P/GO
IMAGE	
Pick-up Element	3 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	2096 (H) x 1561 (V)
Min. Illumination	0.63 lx/F=2.0 - color mode, 0.63 lx/F=2.0 - B/W mode
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	x2
Digital Noise Reduction (DNR)	Yes
Defective Pixel Correction (DPC)	Yes
LENS	
Type	Standard, f=2.1 mm/F=2.0
Angle of View (H)	128°
DAY/NIGHT	
Type	Electronic D/N function
Switching Mode	Auto
NETWORK	
Stream Resolution	1920 x 1080 (FullHD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	2 streams
Video Compression	H.264, M-JPEG
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, NTP, RTSP, RTP, UPnP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English and others
Motion Detection	Yes
System Reaction to Alarm Events	E-mail with attachment, saving file on FTP server
NTP	Synchronization with selected server
INTERFACES	
Audio Input	1 x Ethernet - RJ-45 interface, 10/100 Mbit/sBNC, 1.0 Vp-p, 75 Ohm
Network Interface	1 x Ethernet - złącze RJ-45, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	110 (Ø) x 67.5 (H)
Weight	360 g
Enclosure	Metal, white
Power Supply	PoE
Power Consumption	3.3 W
Operating Temperature	-10°C ~ 50°C

Classic IP Camera

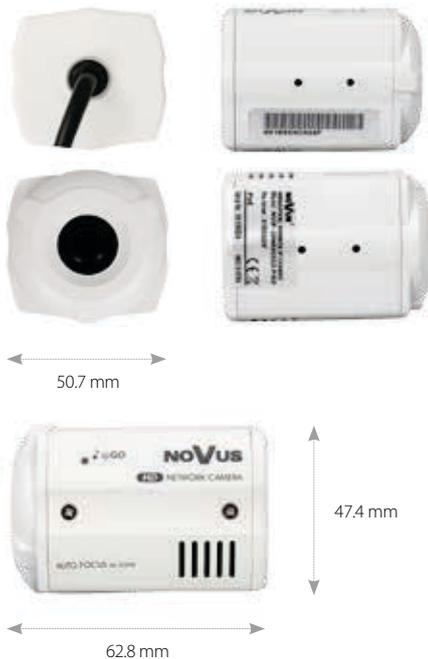
NVIP-2C5005CZ-P/GO



Key Features

- Camera resolution 2 MPX (FULL HD)
- D/N function - electronic
- Min. Illumination 0.63 lx
- Motor-zoom lens x5 with AI and AF function, f=5 ~ 25 mm/F=3.5 ~ 3.7
- Defective Pixel Correction (DPC)

Dimensions



	NVIP-2C5005CZ-P/GO
IMAGE	
Pick-up Element	3 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	2096 (H) x 1561 (V)
Min. Illumination	0.63 lx/F=3.5 - color mode, 0.63 lx/F=3.5 - B/W mode
S/N Ratio	> 50 dB (AGC off)
Digital Slow Shutter (DSS)	x2
Digital Noise Reduction (DNR)	Yes
Defective Pixel Correction (DPC)	Yes
LENS	
Type	Motor-zoom lens x5 with AI and AF function, f=5 ~ 25 mm/F=3.5 ~ 3.7
Angle of View (H)	52° ~ 11°
DAY/NIGHT	
Type	Electronic D/N function
Switching Mode	Auto
NETWORK	
Stream Resolution	1920 x 1080 (FullHD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 1024 x 768 (XGA), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	2 streams
Video Compression	H.264, M-JPEG
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, NTP, RTSP, RTP, UPnP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English and others
Motion Detection	Yes
System Reaction to Alarm Events	E-mail with attachment, saving file on FTP server
NTP	Synchronization with selected server
INTERFACES	
Audio Input	BNC, 1.0 Vp-p, 75 Ohm
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	50.6 (W) x 47.4 (H) x 62.8 (L)
Weight	160 g
Enclosure	Metal, white
Power Supply	PoE
Power Consumption	5.7 W
Operating Temperature	0°C ~ 40°C

Dome IP Camera

NVIP-2DN2001D/IR-2P/GO



new!



Key Features

- Camera resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.07 lx (0 lx, IR on)
- Lens with remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
- IR LED, range up to 10 m
- Defective Pixel Correction (DPC)

Dimensions



NVIP-2DN2001D/IR-2P/GO	
IMAGE	
Pick-up Element	2.0 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.16 lx/F=1.2 - color mode, 0.07 lx/F=1.2 - B/W mode, 0 lx/F=1.2 - B/W mode (IR on)
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	x8
Digital Noise Reduction (DNR)	Yes
Defective Pixel Correction (DPC)	Yes
LENS	
Type	With remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
Angle of View (H)	100° ~ 35°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto (light sensor)/manual
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, Multicast, FTP, DHCP, NTP, RTSP, RTP, UPnP, SNMP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Motion Detection	Yes
System Reaction to Alarm Events	E-mail with attachment (jpg), saving file on FTP server (jpg), output activation
IR LED	
Number	18
Range	10 m
Angle	38
INTERFACES	
Video Output	BNC, 1.0 Vp p, 75 Ohm (installation mode)
Audio Input/Output	1/1
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	125 (Ø) x 113 (H)
Weight	400 g
Enclosure	Plastic, white
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	8 W
Operating Temperature	0°C ~ 40°C

Bullet IP Camera

NVIP-2DN3001H/IRH-2P/GO

new!



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.07 lx (0 lx, IR on)
- Lens with remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
- IR LED, range up to 30 m
- Defective Pixel Correction (DPC)
- SD card support

Dimensions



NVIP-2DN3001H/IRH-2P/GO	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.16 lx/F=1.2 - color mode, 0.07 lx/F=1.2 - B/W mode, 0 lx/F=1.2 - B/W mode (IR on)
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	x8
Digital Noise Reduction (DNR)	Yes
Defective Pixel Correction (DPC)	Yes
LENS	
Type	Lens with remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
Angle of View (H)	100° ~ 35°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto (light sensor)/manual
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, Multicast, FTP, DHCP, NTP, RTSP, RTP, UPnP, SNMP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Motion Detection	Yes
System Reaction to Alarm Events	E-mail with attachment (jpg), saving file on: FTP server (jpg), SD card, output activation
IR LED	
Number	42
Range	30 m
Angle	38
INTERFACES	
Video Output	BNC, 1.0 Vp p, 75 Ohm (installation mode)
Audio Input/Output	1/1
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	Yes
INSTALLATION PARAMETERS	
Dimensions (mm)	145 (Ø) x 335 (L)
Weight	2 kg
Enclosure	Aluminium, silver, mounting bracket and sunshield in-set included
Power Supply	PoE, 24 VAC
Power Consumption	9 W/17 W (IR, fan & heater on)
Operating Temperature	-40°C ~ 50°C
Built-in Heater/Fan	Yes (supported only with 12VDC/24VAC)/Yes
Degree of Protection	IP66

Vandal Proof IP Camera

NVIP-2DN4001V/IRH-2P/GO



new!



Key Features

- Resolution 2 MPX (FULL HD)
- D/N function - IR cut filter
- Min. Illumination from 0.07 lx (0 lx, IR on)
- Lens with remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
- IR LED, range up to 10 m
- Defective Pixel Correction (DPC)

Dimensions



NVIP-2DN4001V/IR-2P/GO	
IMAGE	
Pick-up Element	2 MPX, CMOS imager, 1/2.8" (16:9 format), progressive scan
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.16 lx/F=1.2 - color mode 0.07 lx/F=1.2 - B/W mode, 0 lx/F=1.2 - B/W mode (IR on)
S/N Ratio	> 60 dB (AGC off)
Digital Slow Shutter (DSS)	x8
Digital Noise Reduction (DNR)	Yes
Defective Pixel Correction (DPC)	Yes
LENS	
Type	Lens with remote focal and focus control, optical zoom 3x, f=3 ~ 9 mm/F=1.2 ~ 2.1
Angle of View (H)	100° ~ 35°
DAY/NIGHT	
Type	Mechanical IR cut filter
Switching Mode	Auto (light sensor)/manual
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 1024 (SXGA), 1280 x 720 (HD), 704 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, M-JPEG/G.711
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, Multicast, FTP, DHCP, NTP, RTSP, RTP, UPnP, SNMP
PC Software	NOVUS NMS, Internet Explorer
OTHER FUNCTIONS	
OSD	IE browser, Polish, English, Russian and others
Motion Detection	Yes
System Reaction to Alarm Events	E-mail with attachment (jpg), saving file on FTP (jpg), output activation
IR LED	
Number	18
Range	10 m
Angle	38
INTERFACES	
Video Output	BNC, 1.0 Vp p, 75 Ohm (installation mode)
Audio Input/Output	1/1
Alarm Input/Output	1/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	145 (Ø) x 116 (H)
Weight	1.1 kg
Enclosure	Vandal proof, aluminium, white, poly-carbonate bubble
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	8 W/13 W (IR & heater on)
Operating Temperature	-40°C ~ 50°C
Built-in Heater	Yes (supported only with 12 VDC/24 VAC)
Degree of Protection	IP66

Network Video Recorder

NVIP- NVRA0104/GO



Key Features

- 4 video channels for network cameras
- Plug & Play configuration
- Recording and playback speed up to 120 fps in Full HD
- Up to 2 HDDs inside
- 1 monitor output (Main)

Dimensions



	NVIP- NVRA0104/GO
VIDEO	
Input	4 x Ethernet - RJ-45, PoE
Monitor Output	Main: 1 x HDMI (1920 x 1080, 60p)
RECORDING	
Compression	H.264
Speed	120 fps (1920 x 1080)
Mode	Time-lapse, Event (Alarm, Motion detection), Panic
Schedule	Individual settings for: each day, each week, each camera, possibility of combining individual recording modes
Prealarm/Postalarm	0 s - 5 s/5 s - 180 s
PLAYBACK	
Speed	Up to 120 fps in Full HD (30 fps per channel)
Recorded Data Search	By date/time, connected with: events, images
BACKUP	
Methods	USB port (HDD or Flash memory), FTP server, network
File Format	AVI, RAW
STORAGE	
Internal HDD	Up to 2 HDD 3,5" SATA
Total Capacity	4 TB
USB	2 x USB 2.0
ALARM	
Input/Output	2/1 relay
Motion Detection	12x8 grid, individual sensitivity settings (for each camera)
NETWORK	
Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
PC Software/Smartphone	ipGO Manager, Internet Explorer, nViewer
Number of Connections with DVR	5
E-mail	Alarm and system events notification
PTZ	
Functions	Zoom, sharpness
OPERATING SYSTEM	
Operation Mode	Triplex
OSD	Polish, English and others
Control	IR remote controller (in-set included), PC mouse (in-set included), network
System Diagnostic	Automatic control of HDDs, temperature, fan, protection against network attacks
INSTALLATION PARAMETERS	
Dimensions (mm)	305 (W) x 44 (H) x 298 (D)
Weight	4 kg (without HDDs)
Power Supply	12 VDC to the DVR (100 ~ 240 VAC/12 VDC PSU in-set included), 48 VDC to the cameras (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	90 W (with 2 HDDs and 4 cameras)
Operating Temperature	0°C ~ 40°C

Network Video Recorder

NVIP- NVRA0208/GO

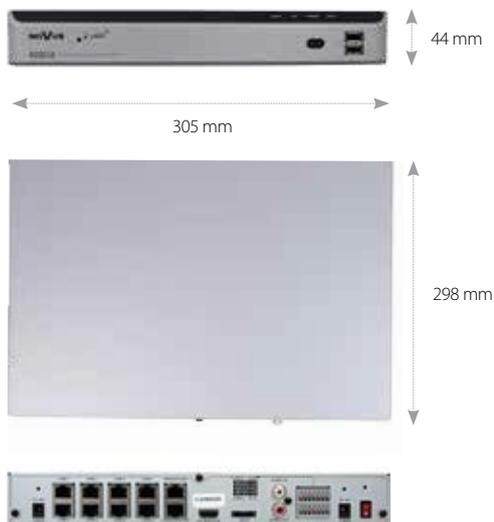
new!



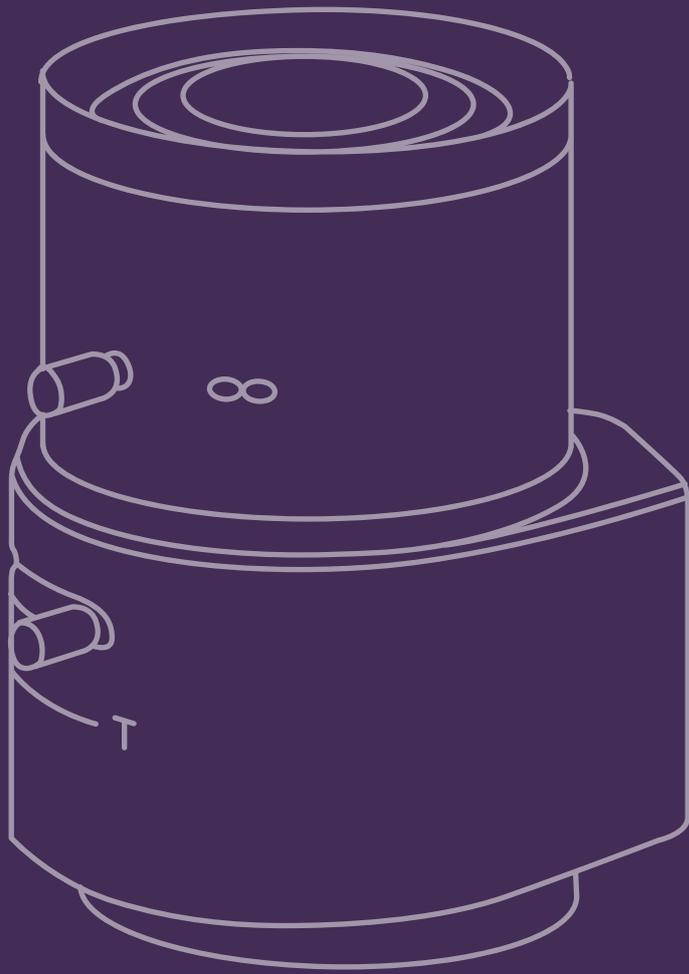
Key Features

- 8 video channels for network cameras
- Plug & Play configuration
- Recording and playback speed up to 240 fps in Full HD
- Up to 2 HDDs inside
- 1 monitor output (Main)

Dimensions



	NVIP- NVRA0208/GO
VIDEO	
Input	8 x Ethernet - RJ-45, PoE
Monitor Output	Main: 1 x HDMI (1920x1080, 60p)
RECORDING	
Compression	H.264
Speed	240 fps (1920 x 1080)
Mode	Time-lapse, Event (Alarm, Motion detection), Panic
Schedule	Individual settings for: each day, each week, each camera, possibility of combining individual recording modes
Prealarm/Postalarm	0 s - 5 s/5 s - 180 s
PLAYBACK	
Speed	Up to 240 fps in Full HD (30 fps per channel)
Recorded Data Search	By date/time, connected with: events, images
BACKUP	
Methods	USB port (HDD or Flash memory), FTP server, network
File Format	AVI, RAW
STORAGE	
Internal HDD	Up to 2 HDD 3,5" SATA
Total Capacity	4 TB
USB	2 x USB 2.0
ALARMY	
Input/Output	2/1 relay
Motion Detection	12x8 grid, individual sensitivity settings (for each camera)
NETWORK	
Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
PC Software/Smartphone	ipGO Manager, Internet Explorer/nViewer
Number of Connections with DVR	5
E-mail	Alarm and system events notification
PTZ	
Functions	Zoom, sharpness
OPERATING SYSTEM	
Operation Mode	Triplex
OSD	Polish, English and others
Control	IR remote controller (in-set included), PC mouse (in-set included), network
System Diagnostic	Automatic control of HDDs, temperature, fan, protection against network attacks
INSTALLATION PARAMETERS	
Dimensions (mm)	305 (W) x 44 (H) x 298 (D)
Weight	4 kg (without HDDs)
Power Supply	12 VDC to the DVR (100 ~ 240 VAC/12 VDC PSU in-set included), 48 VDC to the cameras (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	90 W (with 2 HDDs and 4 cameras)
Operating Temperature	0°C ~ 40°C



LENSES

Lenses for Megapixel Cameras

NVL-MP246D, NVL-MP246M, NVL-MP408M/IR, NVL-MP4012M/IR, NVL-3MP4012D/IR



new!

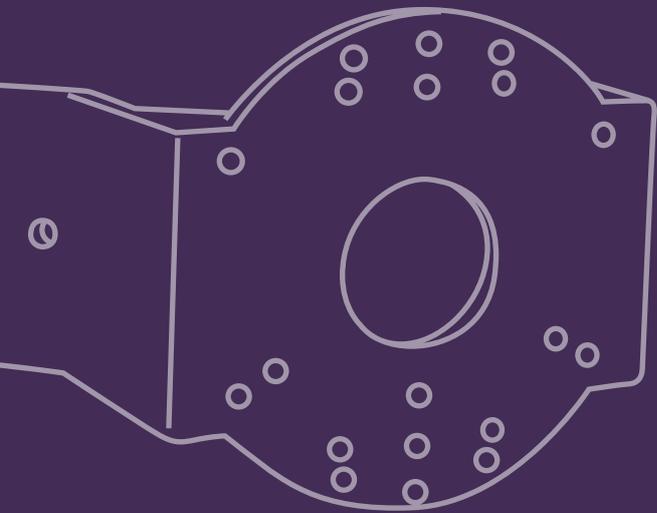
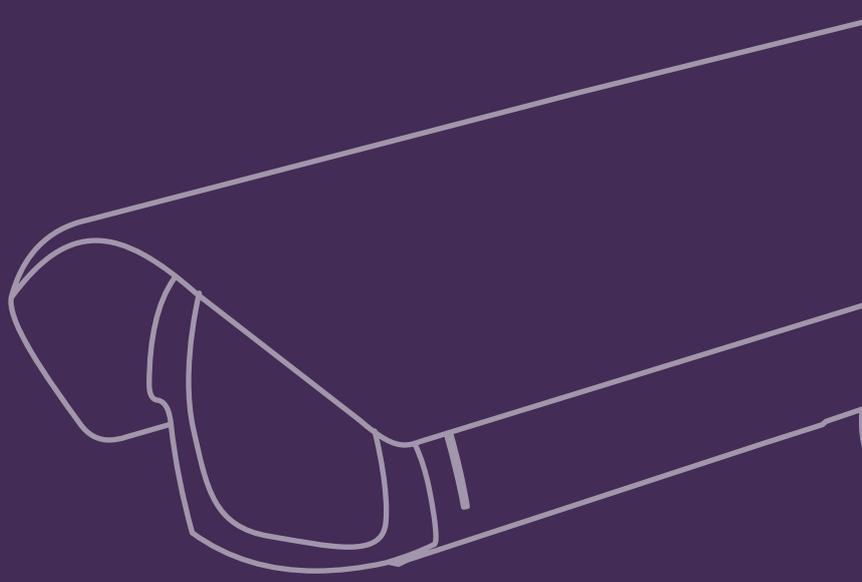
Key Features

- Glass-made optics
- Adapted to IR operation (IR models)

	NVL-MP246D	NVL-MP246M	NVL-MP408M/IR	NVL-MP4012M/IR	NVL-3MP4012D/IR
CCD Format Size	1/3"		1/2"		
Focal Length	2.4 ~ 6 mm		4 ~ 8 mm	4 ~ 12 mm	
Iris Operation	Auto, D	Manual			Auto, D
Relative Aperture	F=1.2-360	F=1.2-C	F=1.4-C		F=1.4-360
Mount Type	CS				
Angle of View (H)	105.8° ~ 46° (1/3"), 81.3° ~ 34.7° (1/4")		90.9° ~ 47° (1/2"), 67.3° ~ 35.2° (1/3")	92° ~ 31.3° (1/2"), 68.1° ~ 23.5° (1/3")	95.75° ~ 31.97° (1/2"), 68.53° ~ 23.95° (1/3")
Dimensions (mm)	58.5 (W) x 41 (H) x 50.9 (L)	58.5 (W) x 41 (H) x 43.2 (L)	36 (Ø) x 46.8 (W)	39.5 (Ø) x 58 (W)	64.2 (W) x 46 (H) x 37.6 (L)
Weight	127 g	152 g	90 g	125 g	110 g

Dimensions





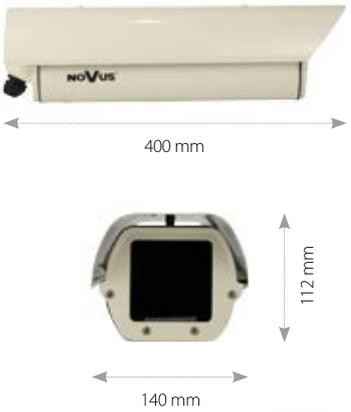
HOUSINGS

BRACKETS

ADAPTERS

Classic Camera Housings

		
	NVH-100H	NVH-150H
Type	Outdoor camera housing	Outdoor camera housing
Application	Classic cameras	Classic cameras
Material	Aluminium	Aluminium
Color	Beige	Beige
Heater	Yes	Yes
Sun Protection	Sunshield	Sunshield
Degree of Protection	IP 66	IP 66
Power Supply	12 VDC/24 VAC, 230 VAC	12 VDC/24 VAC, 230 VAC
Power Consumption*	~ 5 W	~ 5 W
Operating Temperature	-30°C ~ 50°C	-30°C ~ 60°C
External Dimensions (mm)	113 (W) x 106 (H) x 410 (L)	140 (W) x 112 (H) x 400 (L)
Camera Mount Dimensions (mm)	76 (W) x 72 (H) x 260 (L)	100 (W) x 75 (H) x 240 (L)
Weight	1.25 kg	1.4 kg
In-set Included	Main body, L-wrench, mounting screws	Main body, mounting screws

	
 <p>Housing's interior</p>	 <p>Housing's interior</p>

Due to the nonlinear characteristics of the heating element, depending on temperature, value in the table is approximate only. In addition, it should be taken into account that temporary power consumption during the heater start-up may be even several times higher.

Classic Camera Housings



	NVH-160H	NVH-200H
Type	Outdoor camera housing	Outdoor camera housing
Application	Classic cameras	Classic cameras
Material	Aluminium	Aluminium
Color	Beige	White
Heater	Yes	Yes
Sun Protection	Sunshield	Shade
Degree of Protection	IP 66	IP 66
Power Supply	12 VDC/24 VAC, 230 VAC	12 VDC/24 VAC, 230 VAC
Power Consumption*	~ 5 W	~ 16 W
Operating Temperature	-30°C ~ 60°C	-40°C ~ 50°C
External Dimensions (mm)	140 (W) x 140 (H) x 416 (L)	114 (W) x 124 (H) x 390 (L)
Camera Mount Dimensions (mm)	80 (W) x 80 (H) x 240 (L)	90 (W) x 70 (H) x 230 (L)
Weight	1.8 kg	2.5 kg
In-set Included	Main body, bracket, L-wrench, mounting screws	Main body, bracket, L-wrench, mounting screws



Housing's interior



Housing's interior

*Due to the nonlinear characteristics of the heating element, depending on temperature, value in the table is approximate only. In addition, it should be taken into account that temporary power consumption during the heater start-up may be even several times higher.

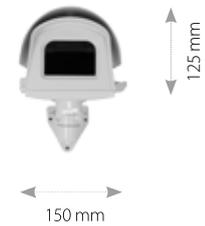
Classic Camera Housings



	NVH-250H-II	NVH-300H
Type	Outdoor camera housing	Outdoor camera housing
Application	Classic cameras	Classic cameras
Material	Aluminium	Aluminium
Color	White	White
Heater	Yes	Yes
Sun Protection	Shade	Sunshield
Degree of Protection	IP 67	IP 67
Power Supply	12 VDC/24 VAC, 230 VAC	12 VDC/24 VAC, 230 VAC
Power Consumption*	~ 16 W	~ 16 W
Operating Temperature	-40°C ~ 50°C	-40°C ~ 50°C
External Dimensions (mm)	135 (W) x 140 (H) x 450 (L)	160 (W) x 125 (H) x 415 (L)
Camera Mount Dimensions (mm)	105 (W) x 80 (H) x 250 (L)	100 (W) x 60 (H) x 230 (L)
Weight	3.65 kg	3 kg
In-set Included	Main body, fully cable managed bracket, L-wrench, mounting screws	Main body, fully cable managed bracket, L-wrench, mounting screws



Housing's interior



* Due to the nonlinear characteristics of the heating element, depending on temperature, value in the table is approximate only. In addition, it should be taken into account that temporary power consumption during the heater start-up may be even several times higher.

Brackets for Speed Dome Cameras and Housings

new!

						
	NVB-SD40CB	NVB-SD40WB	NVB-SD40PWB/230	NVB-SD6CB	NVB-SD6CB-II	NVB-SD62CB
Type	Wall mount bracket	Wall mount bracket	Wall mount bracket	Ceiling mount bracket with cable	Ceiling mount bracket with cable	Ceiling mount cable managed bracket
Application	NVH-SD40EH-C/S	NVH-SD40EH-C/S	NVH-SD40EH-C/S	Speed dome cameras IP & LUCA	Speed dome cameras IP & LUCA	Speed dome IP camera NVP-2DN6020SD-2P
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Steel
Color	White	White	White	White	White	White
Load Capacity	9 kg	9 kg	9 kg	6 kg	6 kg	6 kg
Degree of Protection	-	-	IP66	-	-	-
Power Supply	-	-	230 VAC/24 VAC	-	-	-
Dimensions (mm)	400 (L) x 129 (base Ø)	288 (L) x 140 (H) x 120 (W)	270 (L) x 215 (H) x 194 (W)	185 (L) x 158 (H) x 158 (W)	200 (L) x 158 (H) x 158 (W)	250 (L) x 140 (base Ø)
Weight	1.2 kg	1.8 kg	3.8 kg	950 g	1 kg	1.06 kg

Brackets for Fixed Cameras and Housings

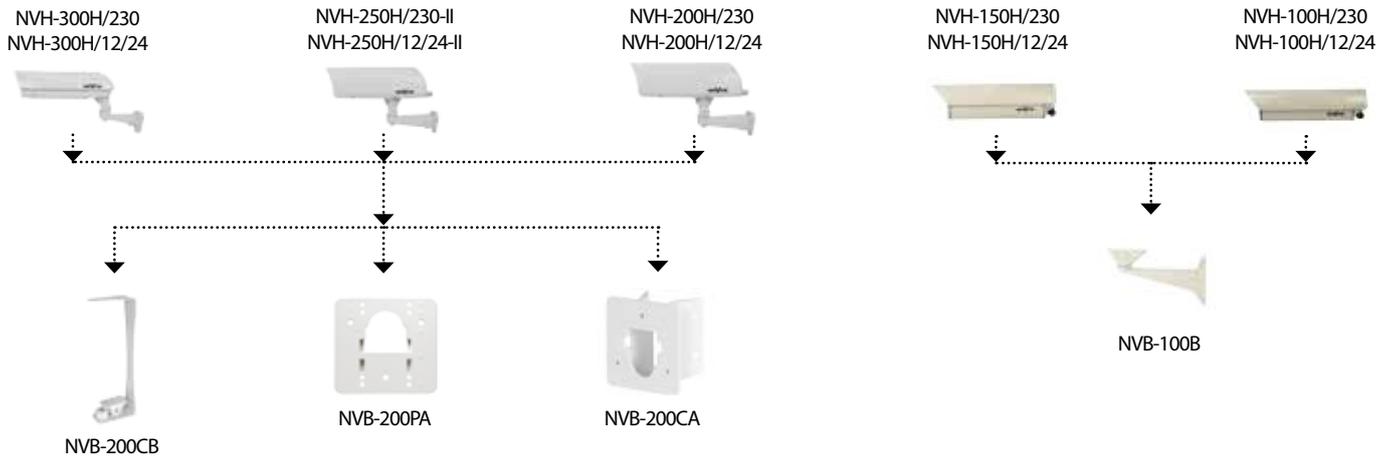
					
	NVB-02B	NVB-03B	NVB-100B	NVB-200CB	NVB-G40DB
Type	Wall mount bracket, indoor	Wall mount bracket, indoor	Wall mount bracket, indoor/outdoor	Wall mount bracket, indoor/outdoor	Wall mount bracket, indoor/outdoor
Application	Classic cameras	Classic cameras	Housings: NVH-100, NVH-150H	Housings: NVH-200H, NVH-250H-II, NVH-300H	Cameras: NVC-GDN4800V/IR, NMP-TDN4401/IR/MPX20
Material	Plastic	Plastic	Aluminium	Aluminium	Aluminium
Color	White	White	White	White	White
Load Capacity	3 kg	3 kg	15 kg	35 kg	15 kg
Dimensions (mm)	125 (L) x 80 (H) x 80 (W)	155 (L) x 80 (H) x 80 (W)	240 (L) x 115 (H) x 74 (W)	127 (L) x 390 (H) x 70 (W)	272 (L) x 120 (H) x 152 (W)
Weight	77 g	83 g	357 g	1.3 kg	976 g

Adapters for Fixed Camera Housings and Speed Dome Camera Brackets

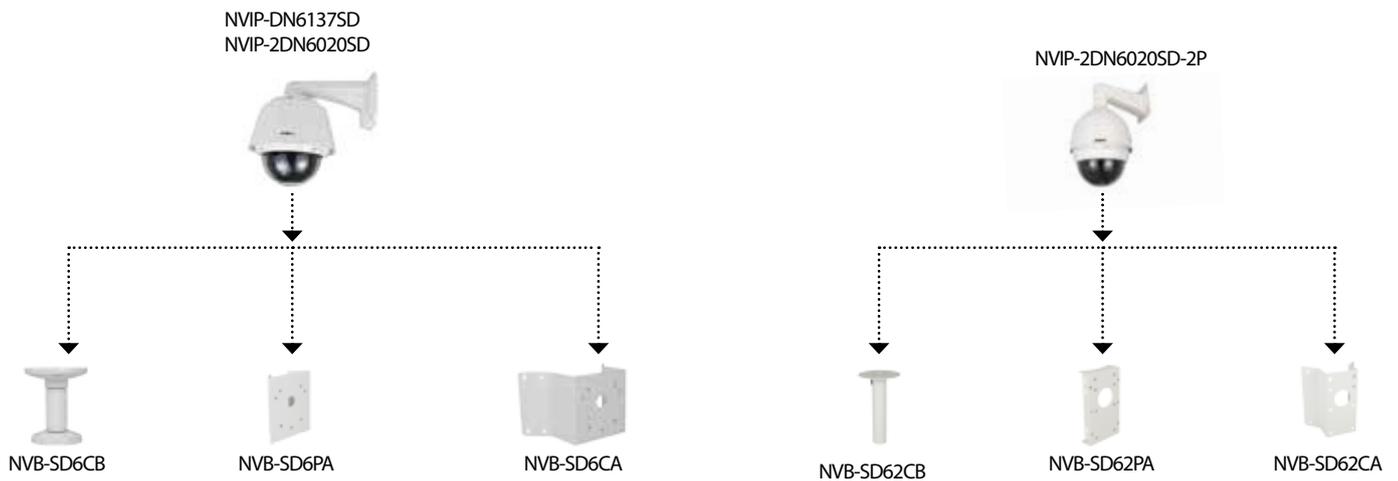
new!

						
	NVB-200CA	NVB-200PA	NVB-SD6CA	NVB-SD62CA	NVB-SD6PA	NVB-SD62PA
Type	Corner mount adapter, indoor/outdoor	Pole mount adapter, indoor/outdoor	Corner mount adapter	Corner mount adapter	Pole mount adapter	Pole mount adapter
Application	Housings NVH-200H, NVH-250H-II, NVH-300H	Housings NVH-200H, NVH-250H-II, NVH-300H	Wall mount bracket, IP & LUCA speed dome cameras	Wall mount bracket, speed dome IP camera NVP-2DN6020SD-2P	Wall mount bracket, IP & LUCA speed dome cameras	Wall mount bracket, speed dome IP camera NVP-2DN6020SD-2P
Material	Aluminium	Aluminium	Aluminium	Steel	Aluminium	Aluminium
Color	White	White	White	White	White	White
Load Capacity	35 kg	35 kg	25 kg	25 kg	25 kg	25 kg
Dimensions (mm)	120 (W) x 120 (H) x 75 (D)	120 (W) x 120 (H) x 20 (D) Mounting clamps for $\varnothing=83 \sim 178$ in-set included	160 (W) x 180 (H) x 120 (D)	222 (W) x 204 (H) x 117 (D)	160 (W) x 180 (H) \varnothing range = 150 ~ 200	136 (W) x 232 (H) \varnothing range = 112 ~ 130
Weight	340 g	380 g	1.9 kg	1.88 kg	1.1 kg	970 g

Selection of Accessories for Camera Housings



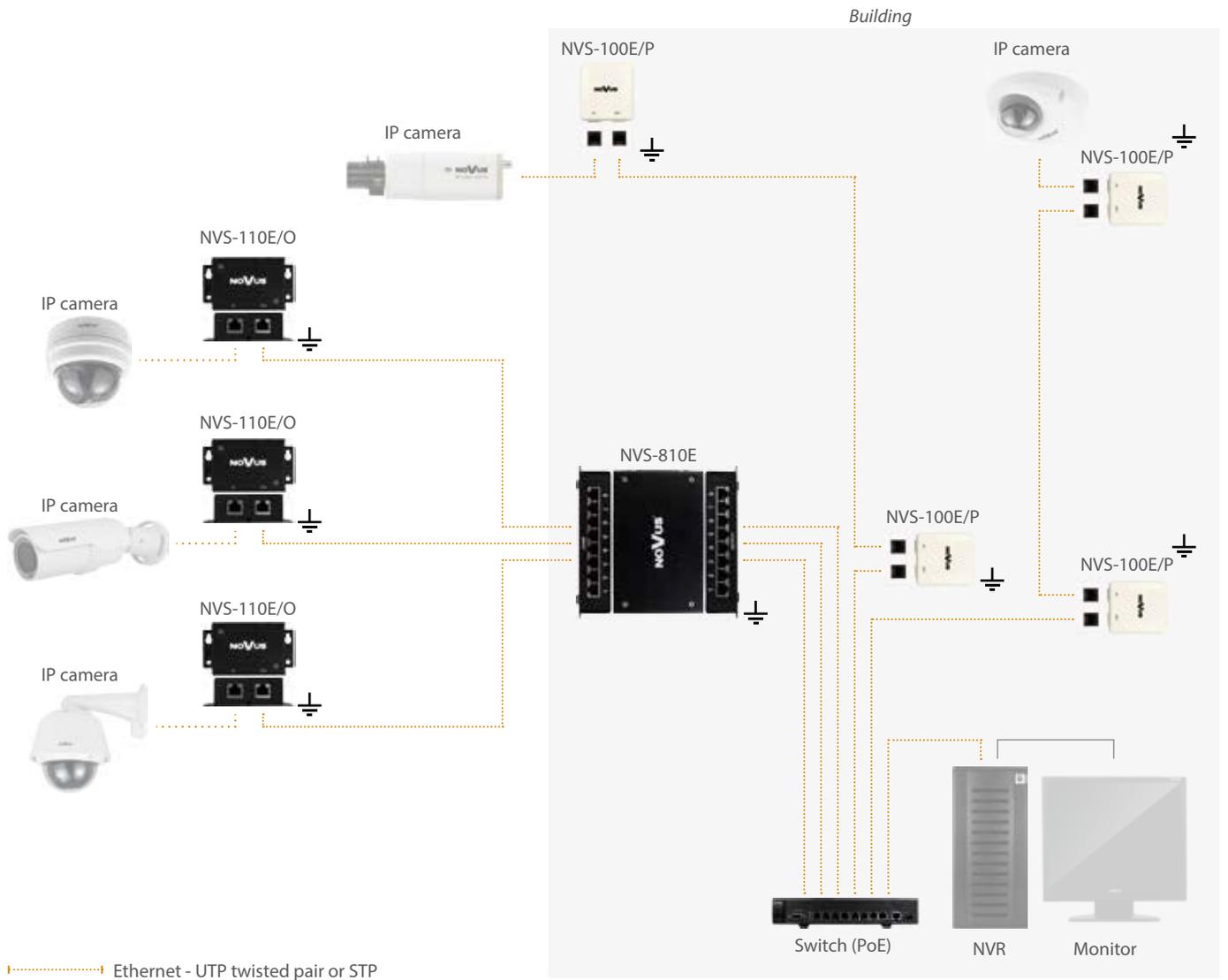
Selection of Accessories for IP Speed Dome Cameras



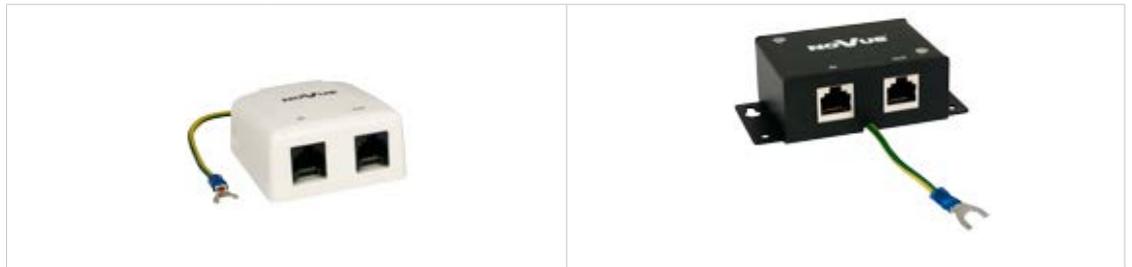


IP SURGE PROTECTORS

Surge protection of IP systems



IP Surge Protectors



	NVS-100E	NVS-100E/P	NVS-110E	NVS-110E/P
Type	Surge protection device for Ethernet transmission	Surge protection device for Ethernet transmission with PoE standard	Surge protection device for Ethernet transmission	Surge protection device for Ethernet transmission with PoE standard
Nominal Voltage	5 V	5 V (0-50 V power supply line)	5 V	5 V (0-50 V power supply line)
Maximum Voltage	6 V	6 V (56 V power supply line)	6 V	6 V (56 V power supply line)
Nominal Current	-	400 mA	-	400 mA
Line-Line Voltage Protection Level	$U_p \leq 40\text{ V}$ (1 kV/ μs , C3)	$U_p \leq 40\text{ V}$ $U_p \leq 95\text{ V}$ (power supply line)	$U_p \leq 40\text{ V}$ (1 kV/ μs , C3)	$U_p \leq 40\text{ V}$ $U_p \leq 125\text{ V}$ (power supply line)
Line-Ground Voltage Protection Level	$U_p \leq 600\text{ V}$ (1 kV/ μs , C3)	$U_p \leq 600\text{ V}$ $U_p \leq 1\text{ kV}$ (power supply line, 1 kV/ μs , C3)	$U_p \leq 600\text{ V}$ (1 kV/ μs , C3)	$U_p \leq 600\text{ V}$ $U_p \leq 1\text{ kV}$ (power supply line, 1 kV/ μs , C3)
Line-Line Nominal Discharge Current	$I_n = 20\text{ A}$ (10/1000 μs), C3	$I_n = 20\text{ A}$ (10/1000 μs), C3 (10 A power supply line)	$I_n = 20\text{ A}$ (10/1000 μs), C3	$I_n = 20\text{ A}$ (10/1000 μs), C3 (10 A power supply line)
Line-Ground Nominal Discharge Current	$I_n = 20\text{ A}$ (10/1000 μs), C3	$I_n = 20\text{ A}$ (10/1000 μs), C3 (2 kA power supply line, 8/20 μs), C2	$I_n = 20\text{ A}$ (10/1000 μs), C3	$I_n = 20\text{ A}$ (10/1000 μs), C3 (2 kA power supply line, 8/20 μs), C2
Connector	RJ-45			
Dimensions (mm)	66 (W) x 60 (H) x 30 (L)	66 (W) x 60 (H) x 30 (L)	95 (W) x 50 (H) x 30 (L)	95 (W) x 50 (H) x 30 (L)
Weight	80 g	80 g	160 g	160 g



	NVS-100E/O	NVS-110E/O
Type	Surge protection device for Ethernet transmission via overhead cables	
Nominal Voltage	120 V	
Maximum Voltage	150 V	
Circuit Protection Level	$U_p \leq 1000\text{ V} - 1.2/50\ \mu\text{s}$, C2	
Nominal Discharge Current	$I_n = 2\text{ kA}$ (8/20 μs)	
Connector	RJ-45	
Dimensions (mm)	66 (W) x 60 (H) x 30 (L)	95 (W) x 50 (H) x 30 (L)
Weight	80 g	160 g

IP Surge Protector



NOVS-810E	
Type	8-channel passive surge protection device for Ethernet transmission via UTP cable
Nominal Voltage	$U_n = 5\text{ V}$
Maximum Voltage	$U_c = 6\text{ V}$
Line-Line Voltage Protection Level	$U_p \leq 40\text{ V} - 1\text{ kV}/\mu\text{s}, \text{C3}$
Line-Ground Voltage Protection Level	$U_p \leq 600\text{ V} - 1\text{ kV}/\mu\text{s}, \text{C3}$
Line-Line Nominal Discharge Current	$I_n = 20\text{ A } 10/1000\ \mu\text{s}, \text{C3}$
Line-Ground Nominal Discharge Current	$I_n = 20\text{ A } 10/1000\ \mu\text{s}, \text{C3}$
Connector	8 x RJ-45 (input) 8 x RJ-45 (output)
Dimensions (mm)	162 (W) x 90 (H) x 37 (L)
Weight	500 g

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Certificates

NOVUS[®] products are manufactured with attention to quality and handling comfort, but also with great care for the safety of their users. For this reason each component of NOVUS[®] CCTV systems meets the stringent norms applicable in the European Union (CE, WEEE, RoHS), as well as on the territory of the Russian Federation (GOST-R).



European certificate of conformity (CE) guarantees that all NOVUS[®] products fulfill the demanding safety and quality regulations binding for electric and electronic equipment in United Europe.



NOVUS[®] products have been designed and constructed in compliance with the RoHS (2002/95/EC) directive limiting the use of hazardous substances in electric and electronic equipment. Completed tests guarantee that the appliances do not contain such substances in quantities that could negatively influence human health or natural environment.



The GOST-R certificate of conformity denotes that NOVUS[®] products meet the safety and quality norms and standards legally required in the Russian Federation.



NOVUS[®] products are marked according to the WEEE (2002/96/EC) directive pertaining to handling of waste electric and electronic equipment and, consequently, may not be treated as household waste. Their recycling should be completed by specialized recycling centers. Correct disposal of waste electric and electronic equipment helps protect the natural environment and human health.



3 year warranty for all NOVUS[®] products.

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