



2N® Helios IP Force

The most robust IP intercom



A Guard at Your Door for Extreme Conditions

The 2N® HeliosIP Force - IP intercom offers a smart and effective solution for the secure access control and monitoring of a building entrance. Voice and video transmission is provided by standard SIP/RTP/RTSP protocols, which guarantee the best compatibility and integration with third-party IP systems.

The 2N® Helios IP Force is designed for operation in the most demanding conditions. The robust mechanical construction offers the highest protective coverage rating against dust and water (IP 69) and protection against mechanical damage (vandal resistant). Numerous deluxe features of the 2N® Helios IP Force provide high user comfort and guarantee secure access control for any extreme environment.



Mechanical features:

- Maximal resistivity against dust, water, and mechanical damage
- High clarity and volume in noisy environments
- Wide-angle colour camera with night vision
- Illuminated buttons and backlit keyboard
- Integrated RFID card reader

Benefits:

- Secure admission to the building of authorised people at selected times
- Entrance monitoring and following the movement of people
- Interconnecting with other security systems in the building
- Easy installation and integration into the existing LAN

Target Groups:

- **Business:** offices, shopping areas
- **Education:** universities, campuses, schools, sports areas
- **Healthcare:** hospitals, laboratories
- **Logistics & Transportation:** airports, parking lots or garages
- **Government:** prisons
- **Industries:** Manufacturing & Production, Energy, Metal & Mining, Chemicals



Features



Real time video streaming

The 2N® Helios IP Force can offer continuous video streaming from an integrated camera of another system, which can record or otherwise process it. The main transmission is made by an RTSP protocol, which is commonly supported by 3rd party systems.

Practical use:

The 2N® Helios IP Force can be used as a standard IP camera, which can be integrated into the security system of the building.



2N® Helios IP Manager

A PC application that is used to manage the configuration and multiple setting of all 2N® Helios IP intercoms installed within the building. It enables you to divide the building into zones, create user groups, set access rights, and manage phone numbers, lists, etc.

Practical use:

The application will save you time on configuration, especially with multiple installations. The configuration of the entire system can be clearly managed from one place and all the changes synchronised by pressing a single button.



2N® Helios IP Eye

A free downloadable application that allows you to watch a video from the camera of the 2N® Helios IP Force on your PC. You can watch a video from a selected intercom, or set it such that you will see video even before picking up the incoming call.

Practical use:

You will see the person who is standing in front of the door, even before you pick up the call on your IP phone. By pressing only one button in the application you can easily open the door.



Time profiles

The time profile feature enables the limitation of calling to selected numbers and defines the validity of access codes or RFID cards, using a weekly calendar.

Practical use:

You can simply define a time profile for a particular person. For example, for a cleaning service worker or the postman, who will be denied access after business hours.



Remote trigger switch control

The relays of the 2N® Helios IP Force can be simply closed/opened from any other device by an HTTP command.

Practical use:

Integration into a home automation system, for example. Electric locks can be controlled from a central panel, independently call operated.



IP Relay

IP relay can be used as a reliable solution for the remote control of appliances that cannot be, for security reasons, connected directly to the 2N® Helios IP Force. IP relay is connected to the local network and is controlled by the commands for closing and opening.

Practical use:

IP relay will be connected into the LAN in the protected locale. It will be connected to the door lock controller. When a code is entered for opening a door, an HTTP command will be sent from the 2N® Helios IP Force to the IP relay for opening or closing the door.



Integration into security and automation systems

The 2N® Helios IP Force provides a standardised communication interface, through which standard security or attendance systems can be connected. It has Ethernet, Wiegand, RS-485, or digital input and output.

Practical use:

An integrated RFID card reader can be connected to your security system supporting a Wiegand interface. You can connect an already existing system to the 2N® Helios IP Force.



Picture to e-mail

The 2N® Helios IP Force sends pictures directly to your e-mail box, of visitors captured by an integrated camera when they call.

Practical use:

Information about visitors who didn't catch you, you can find in your incoming e-mail box, with the exact time of the missed call and with several pictures from the camera.

Technical Parameters

Signalling protocol

SIP 2.0 (RFC - 3261)

Buttons

| | |
|--------------------|--|
| Quick dial buttons | Transparent, white backlit buttons with easily replaceable name tags |
| Number of buttons | 1, 2 or 4 |
| Numeric keypad | optional |

Audio

| | |
|-------------|--------------------------|
| Microphone | 2 integrated microphones |
| Loudspeaker | 1W (optionally 10W) |

Audio stream

| | |
|--------|--------------|
| Codecs | G.711, G.729 |
|--------|--------------|

Camera

| | |
|-----------------|-----------------------------------|
| Resolution | 640 (Horizontal) x 480 (Vertical) |
| View angle | 135° (H), 109° (V) |
| IR Night Vision | yes |

Video stream

| | |
|--------|-------------------------------|
| Codecs | H.263+, H.264, MPEG-4, M-JPEG |
|--------|-------------------------------|

Interface

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|---------------------|----------------------------------|
| Power supply | 12V±15%/1A DC or POE |
| PoE | PoE 802.3af (Class 0 - 12.95W) |
| LAN | 10/100BASE-TX with Auto-MDIX |
| Relay outputs | NC/NO contacts, max 30V/1A AC/DC |
| Active relay output | 12V/700mA DC |

RFID card reader

| | |
|-----------------|--|
| Supported cards | EM-40XX (125Khz) HID Proximity (125kHz, 26 bit) |
|-----------------|--|

Mechanical

| | |
|-----------------------------|----------------------------|
| Operating temperature range | -20°C - 55°C |
| Storage temperature range | -40°C - 70°C |
| Relative humidity | 10% - 95% (not condensing) |
| Dimensions | 217x109x83 mm |
| Protection level | IP 65, 69 |

2N® Helios IP Family:



2N® Helios IP Force



2N® Helios IP Safety



2N® Helios IP Vario

The 2N® Helios IP family is a wide range of door intercoms for every situation - whether in security, business, emergency, or any other special area.

From providing simple applications requiring a clear and easy connection to a single IP telephone, to comprehensive communication arrangements integrated into security and signalling systems and IP PBXs. Having the highest quality and certification, 2N ensures compatibility with industry-standard-based IP network solutions such as Avaya, Cisco, and others.

