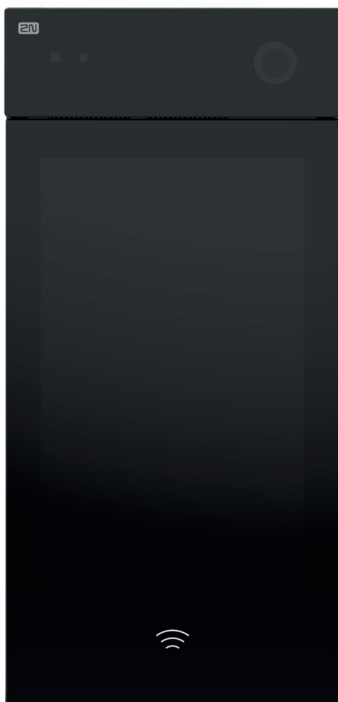




2N[®] IP Style



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Read this manual carefully before using the product and follow the instructions and recommendations included herein. Refer to wiki.2n.com for complete user documentation.

The **2N® IP Style** is a 2N IP intercom of the very highest quality with a 10" touchscreen display, card reader, with support for Bluetooth and NFC technologies as well as a Full HD camera with a function for facial monitoring during the call, so-called Face Zooming. The **2N® IP Style** allows you to control the entrance area and perform remote access management. The intuitive touchscreen display allows visitors to easily search the phone book and call the selected destination. **2N® IP Style** is available in versions with a combined and secured combined card reader with frequencies of 125 kHz and 13.56 MHz.

The touch display can be protected with hardened glass with active hygienic protection installed in the factory or the protection can be additionally provided. A unique antibacterial/antivirus protection kills 99 % viruses and bacteria. The hardened glass with 9H rating provides a sufficient display protection against scratching and, thanks to IK08 resistance, against breaking too.

Installation requirements

- LAN connection, UTP cable Cat5 or higher with an RJ-45 connector
- PoE+ 802.3at or 12 V DC / 4 A power supply
- Completed installation of the chassis (order no. 9157002) for surface mounting, or a flush mount box (order no. 9157001) for flush mounting.

Mechanical Installation

The device is designed for surface or flush mounting.

It is anticipated that installation of the chassis or the flush mount box has been completed and all of the required cables have been laid and are ready for connection. Recommended length of prepared cables 30 cm.

Unscrew the connector cover on the back of the device. Thread all of the cables with no connectors (terminals or end pieces, etc.) through the bushing on the inside of the connector cover. After threading the cables through the bushing, fit the required end pieces.

Fold out the mounting bracket located at the bottom of the chassis or flush mount box. The back of the device has profiles which are fitted into the mounting bracket and slid down to the

lowest possible position, anchoring the device by snapping it into place.


Connect all of the cables to the device. The mounting bracket provides sufficient support when connecting the cabling so it is not necessary to support the device in any way.

After connection and securing of superfluous cabling in the clips, screw the connector cover back on and fold in the device towards the chassis or the flush mount box and then press in a downwards direction to seal the installation. Then all you have to do is lock the position by tightening the two screws inside the device using an Allen key.

Graphical illustration of installation can be found at the end of this short manual.

Electrical Installation

Description of terminals, connectors and available components

CONTROL	Button for restoring factory settings
POWERLED	Device status LED
LAN	LAN connection status LED
VBUS	Connector for connection of a bus
	Grounding terminal
IN1, IN2, IN3	Input terminals in passive / active mode (-30 V to +30 V DC) <ul style="list-style-type: none"> • OFF = open contact OR UIN > 1.5 V • ON = closed contact OR UIN < 1.5 V
TAMPER SWITCH	Terminals for connection of the device to a security system
OUT	Active output 12 V / 0.6 A DC
RELAY	Terminals for 30 V / 1 A AC/DC NO/NC contact
POWER 12 V / 4 A	Terminals for external 12 V / 4 A DC power supply
LAN connector	Optionally PoE+ 802.3at for connection of the device to the LAN
Tamper Switch	Switch detecting unauthorized opening of the device
SD CARD	SD card slot

Connection of a lock

Connect the electrical lock directly to the active output of the device. In any case, you are recommended to use low-consumption locks and keep the limits mentioned above.

Installation security

If the device is installed in a location where there is a danger of unauthorized tampering with the device, we strongly recommend use of a 2N® Security relay (order no. 9159010) to ensure the maximum security of the installation.

Factory Default Resetting – Follow the instructions below to reset the factory default values:

- Disconnect the device from the power supply.

- Press and hold the CONTROL button.
- Connect the device to the power supply.
- Keep holding the button for a few seconds and then release it.
- **Do not touch the display during restart, it is being calibrated.**

Device Configuration

Configuration takes place typically via a Web interface. Alternatively, configuration is possible using 2N® Access Commander software or the My2N service.

The device is factory-set to DHCP ON. DHCP settings can be switched directly on the display of the unit after switching to the hidden menu in the following manner: Wait until the end of the introductory animation on the display after starting/restarting the device. The moment the home screen appears (after approx. 20 s), place your finger in the top left corner of the display for approx. 5 s.

The IP address of the device will also be shown in the hidden menu. This can also be ascertained using the 2N® Network Scanner tool which can be freely downloaded from www.2n.com

If the address is 0.0.0.0, then the device did not get the IP address from the DHCP server and static IP address (DHCP OFF) has to be used. If DHCP OFF is set, the device static address is 192.168.1.100.

Enter the IP address of the device shown into any web browser. Accept the safety warnings of some browsers as your acceptance is not in contradiction to a safe use of your device. The factory login data are: username: **admin** and password: **2n**.

Once logged in, you can start configuring your device via the web interface. Detailed information about configuration is provided by the Configuration manual for 2N IP intercoms which is available at wiki.2n.com, a direct link is available on the start screen of the configuration interface.

Technical Parameters

Basic properties:

- made of tempered glass and aluminium
- 10" capacitive touchscreen display with TFT LCD technology with resolution of 2560 x 1920
- camera with infrared illumination and support for streaming of up to 5 Mpix
- integrated combined reader
- tamper switch to detect unauthorized opening of the device
- IP65 protection
- IK 08
- dimensions: 170 (w) x 355 (h) mm
 - x 40 mm (d) for surface mounting
 - x 22 mm (d) for flush mounting

Access control options:

- combined RFID card reader: 125 kHz and 13.56 MHz (optionally secure version)
- numeric touchpad: numeric PIN code
- 2N® Mobile Key application: access using a smartphone which supports NFC and Bluetooth technology

Interface:

- Power Supply: 12 V ±15 % / 4 A DC or PoE+ (802.3at)

- LAN: 10/100BASE-TX s Auto-MDIX, RJ-45
- Recommended cabling: Cat-5e or higher
- Passive switch: make and break contact, max. 30 V / 1 A AC/DC
- Active switch output: 12 V / 0.6 A DC
- Supported protocols: SIP2.0, SIPs, DHCP opt. 66, SMTP, SNMP, TR069, 802.1x, RTSP, RTP, SRTP, TFTP, HTTP, HTTPS, Syslog, ONVIF

Audio properties

- 2 built-in microphones
- Amplifier: 2 x 4 W
- Speaker: 2 x 4 W / 4 Ω
- LINE OUT: 1 VRMS / 600 Ω
- Full duplex audio
- Codecs: L16 / 16kHz, G.711, G.729, G.722
- Protocols: RTP/RTSP/SRTP

Video properties

- Frame rate: up to 60 frames/s
- Focal length: 1.7 mm
- Codecs: H.264, MJPEG
- Protocols: RTP/RTSP/SRTP/HTTP
- Camera functions: yes, ONVIF profile T compatible

Maintenance – Cleaning

The surface will become dirty during use of the device. Use a piece of soft cloth moistened with clean water to clean the device.

You are recommended to follow the principles below while cleaning:

Use suitable products designed for cleaning glasses, optical devices or screens, etc. to clean the display. Clean the device in dry weather in order to make waste water evaporate quickly. We

recommend you to use IT cleaning wipes.

To disinfect the surface of the device against bacteria and viruses (anti-covid) to maintain the hygiene conditions of critical surfaces and touch points, we recommend that you use Zoono – Microbe Shield Surface Sanitiser Spray.

Do not use aggressive detergents (such as abrasives or strong disinfectants). Alcohol, peroxide and lye (caustic soda) based cleaners must not be used.

Caution

- Always use the product for the purpose it was designed and manufactured for, in compliance herewith.
- Any use of the product that is in contradiction with the instructions provided herein may result in malfunction, damage or destruction of the product.
- Any use or connection of the product other than those included herein shall be considered undue and the manufacturer shall not be liable for any consequences arisen as a result of such misconduct.
- Be careful while handling the product; the manufacturer shall not be liable for any personal injury or property damage associated with the device.
- The warranty does not apply to the product defects and failures arisen as a result of improper mounting (in contradiction herewith). The manufacturer is neither liable for damage caused by theft within an area that is accessible after the attached electric lock is switched on. The product is not designed as a burglar protection device except when used in combination with a standard lock, which has the security function.
- This manual is a brief version of the online User Manual available at wiki.2n.com. In the event of any discrepancy between the two aforementioned versions, the online version shall prevail.