

# 2 OFFICE SOLUTIONS



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# ABOUT US

#1

We are a company manufacturing cutting-edge access control devices. IHS has dubbed us **the number 1 in IP intercoms**.



You'll always find us close at hand. We have **teams in 11 countries** and you'll find our distributors in more than 125 countries all over the world.



We are transforming the market in the access control sector. That's why we developed **WaveKey, the fastest, most reliable, and most secure mobile access technology** on the market.



reddot design award  
winner 2017



We take design and quality just as seriously as innovation – our **Red Dot and iF Design awards** are proof of this.



Our priorities include cybersecurity, which is front of mind from product design all the way through to final testing.



We reinvest 13% of our turnover into research and development every year. Our position is also strengthened by the fact that **we're part of the Axis Group**.

# WE ARE 2N

# A smart access control system for offices

The demand for smart access control solutions is undoubtedly growing, but what should the optimal access control system for a smart office building look like? There's no definitive answer to this as requirements are constantly changing hand-in-hand with the development of new technology and the expectations of office employees.

One very important change we are seeing among employees – especially the younger generation – is a trend towards the wider use of their smartphones at work. They now have the opportunity to use their phone to enter buildings and offices quickly and conveniently. After all, mobile phones are now an essential part of their lives, both at work and in their personal lives.

The investment into an access control system (even an IP solution) is negligible compared to the total cost of the construction of a building, and facility managers in charge of office buildings are increasingly aware of the added value this system brings to the overall value of the property. They can then take advantage of all the benefits offered by IP technology, including mobile access, remote administration, easier installation and scalability.

We are 2N Telekomunikace, a global leader in the field of IP intercom systems. Our IP products can benefit your project in the following ways:

## **A CONTACTLESS AND CONVENIENT SYSTEM**

Based on a recent survey, 67% of office managers said that they are interested in using mobile credentials. Why? Because it's a very convenient solution that greatly enhances the attractiveness of the office building for employees, without compromising security and reliability. This modern system gives facility managers full flexibility to set individual access rights for any area of the building, all free of charge.





## **FLEXIBLE RECEPTION**

A smartphone application connected to an IP intercom allows receptionists to monitor the main entrances, check visitors, talk to them and then open the doors, wherever they happen to be. This service can entirely replace a standard IP telephone, especially in smaller office buildings.

## **INTEGRATION WITH OTHER SYSTEMS**

The open protocol we use and our constant efforts to develop and proactively offer comprehensive solutions makes our company one of the leading players in the field of integration. Simple integration into security and video management systems is all it takes to improve building security significantly. Generally speaking, linking our access control solutions with other systems allows the administrator to control the entire office building more easily from one central location via a single interface.

## **CYBERSECURITY**

As with any other IoT device, connectivity leads to the risk of cyberattacks. A building's cybersecurity has become as important as its physical security, and both must be ensured in parallel. Security is the number one priority for 2N. Encrypted communication, 802.1x, self-signed certificates, anti-passback, tamper switches, security relays and European manufacturing - all add up to secure protection you can rely on.

# WaveKey.

## The future lies in mobile access

Today's mobile phones can fully replace an RFID card or fingerprint reader. Put your trust in an access method that is set to dominate the market.

### **UNRIVALLED RELIABILITY**

Our intensive six-month test run in a busy office building has borne fruit. With 100 different phones from 20 different manufacturers, we tested opening doors over 15,000 times. Put simply, you can trust WaveKey.

### **FASTEST ON THE MARKET**

WaveKey opens the door with a mobile phone in 0.3 seconds. The secret lies in the unique system of pre-authentication of up to eight mobile phones within range of the reader.

### **ABSOLUTE SECURITY**

We built our own secure communication on top of the open Bluetooth protocol. It's basically impossible to overhear and misuse mobile credentials.

### **SIMPLE ADMINISTRATION AND DISTRIBUTION**

With the credentials in a mobile phone, the system administrator no longer has any worries or costs associated with the provision of new RFID cards. Credentials can easily be sent by e-mail or via the cloud. In addition to this, they are completely free of charge.





## CHOOSE FROM FOUR MODES

You can set the most suitable mode on certain doors and give users a choice elsewhere.

- » **Touch mode** equals absolute convenience. The user only needs to touch the reader with their hand or elbow, leaving their phone in their pocket.
- » Contactless **Tap in app mode** offers greater security, where the user has to unlock their mobile phone, open the application and tap the virtual button. This is also the ideal way to open the entry gate to a car park while sitting in your car.
- » **Motion mode** is completely contactless. All you have to do is approach the intercom camera with your phone in your pocket or wave your hand and the door will open.
- » The last option is **Card mode**. The phone works like a card and the user has to place it right next to the reader. This is similar to popular NFC technology, but with WaveKey it works with both Android and iOS phones.



# Don't underestimate cybersecurity

The number of cyberattacks is growing rapidly and will continue to do so. Think about that in your future projects. For us, cybersecurity is an inherent part of our corporate culture.

## **COLLABORATE WITH A TRUSTWORTHY COMPANY**

Don't risk your reputation and choose a company that's fully dedicated to the issue of cybersecurity – from product development and employee training, all the way through to the uncompromising selection of suppliers.

## **INSTALL PRODUCTS THAT YOU TRUST**

A security weakness in one product puts the whole system at risk. Ask about encrypted communication, secure protocols and mobile access on a par with internet banking.

## **PERFORM REMOTE ADMINISTRATION VIA A SECURE CLOUD**

We follow the procedures defined in the ISO 27001, SOC 2 and AWS Hardening standards. Our cloud is hosted on the very best servers (Amazon) only and we monitor everything 24/7.

## **GUARANTEE CUSTOMERS THE PROTECTION OF THEIR PERSONAL DATA**

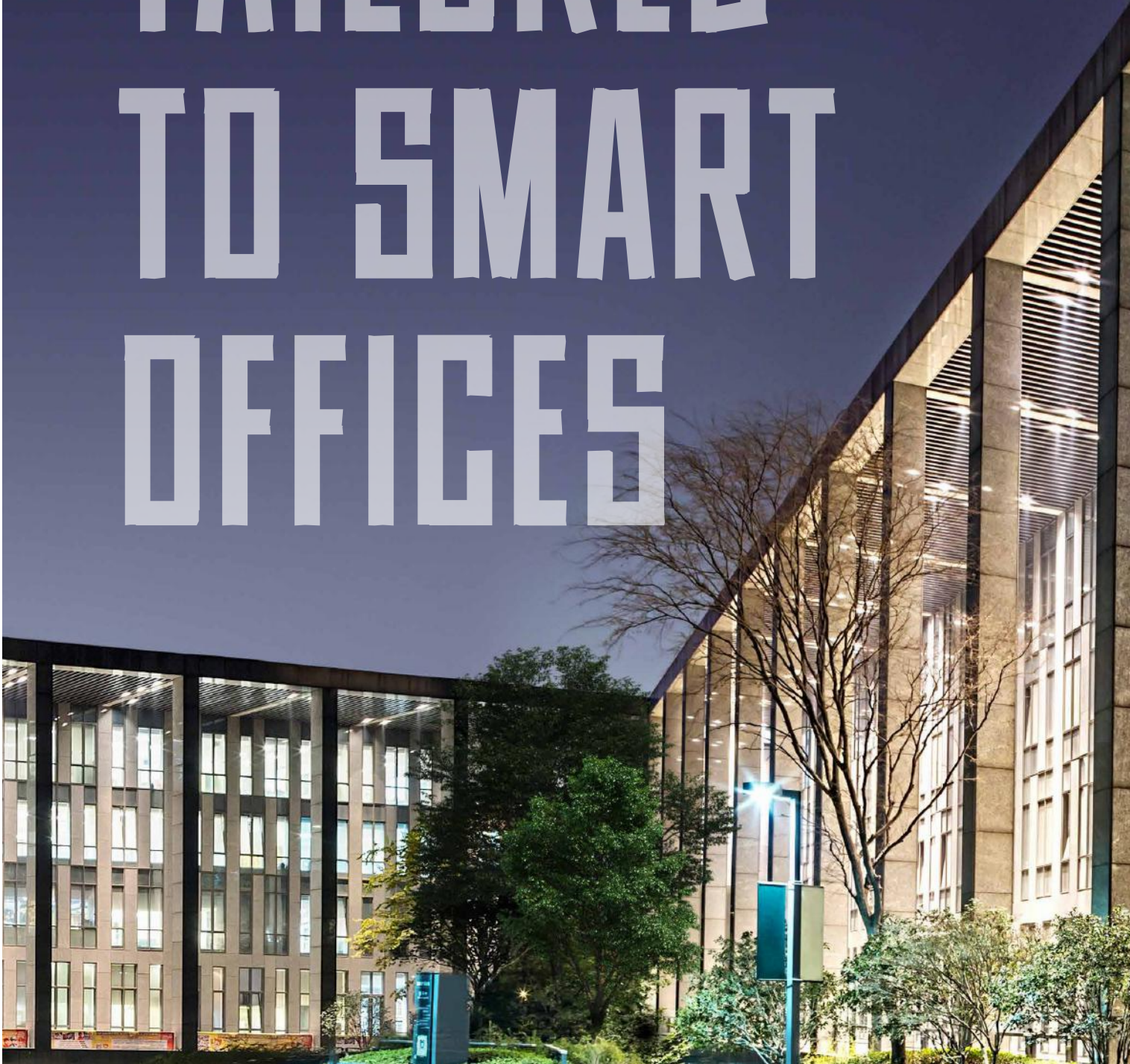
We only use data which is essential for initial communication and access. We comply with the principles of personal data protection as prescribed by the GDPR.

## **LEARN ABOUT CYBERSECURITY WITH US**

Read our Hardening Guide, a manual describing the secure connection of our products. Follow the recommendations on how to protect your installation against cyberattacks and take part in our webinars.



# A SCENARIO TAILORED TO SMART OFFICES











IP65



IK8



ANTI  
VANDAL



WAVEKEY  
SUPPORT

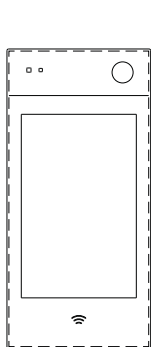


# 2N<sup>®</sup> IP STYLE

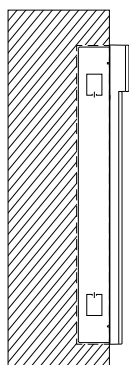
Install the 2N<sup>®</sup> IP Style at the main entrance, a device that combines the very best of IP intercoms and cameras. The brain of the intercom is the Axis processor, which opens up incredible possibilities for the intercom. Dazzle your customers, for example, with WDR support or a colour display, even in low light conditions.

Intercom users will love the 10" display offering an instant response, sophisticated animations and easy operation. Access control is also exceptional. That's to say that the intercom includes WaveKey technology – the most reliable and fastest mobile access solution on the market. It literally takes an employee the same time to open a door as it does to blink their eye. The 2N<sup>®</sup> IP Style is the future standard, install it today.

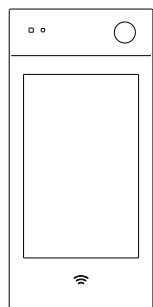
- » Full-HD camera with WDR support
- » Cutting-edge 10" display
- » Lightning-fast response and beautiful animations
- » Resistant to dust, rain and attacks by vandals
- » Authentication of users using a smartphone, RFID card or PIN code
- » Patented mechanism saving one third of the time needed to install the device



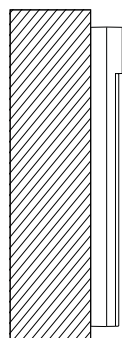
170 x 355 x 22.6 mm



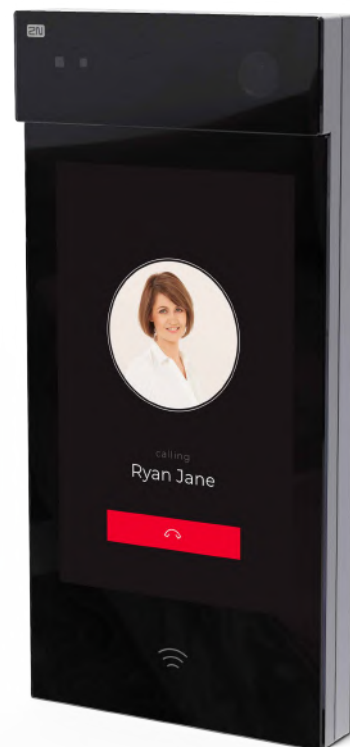
In walls



170 x 355 x 4.6 mm



On surfaces

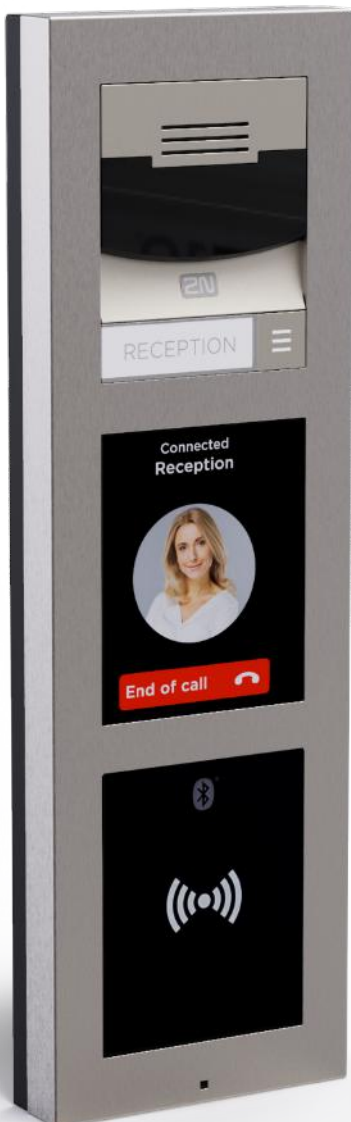


## ENTRANCES INSIDE THE BUILDING

# 2N® IP VERSO

Are there several companies based in one building? Then video communication at the front door alone is not enough. In large office buildings, for example, each company may rent half a floor. Suggest an IP intercom instead of an access reader at the entrance to these areas. Don't make the receptionist get out of his/her chair every time a visitor arrives. Thanks to the HD camera feed from the intercom, they will be able to see who's standing at the door and let them in.

Employees don't need to ring the bell. The 2N® IP Verso intercom can be fitted with several modules to secure access. Give your customers a choice of 19 options with different access technologies.



- » Access control is included in the video intercom
- » Innovative access using a mobile phone, modern use of a fingerprint, RFID card or PIN code
- » Install indoors or outdoors, flush or surface mounted
- » The intercom can make calls to IP telephones (compatible with PBX)
- » Create an intercom to suit your customer's precise requirements
- » Integrate with a VSM or security system





reddot award 2017  
winner



IP54



IK8



ANTI  
VANDAL



WAVEKEY  
SUPPORT





IP69K



IK10



ANTI  
VANDAL



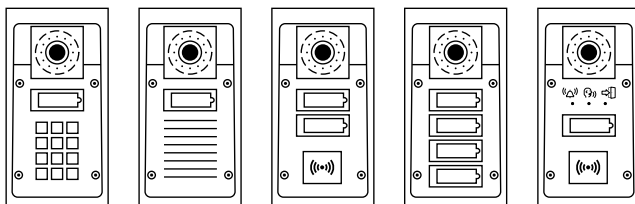
## ENTRANCE TO A CAR PARK

# 2N<sup>®</sup> IP FORCE

Suggest the toughest intercom on the market for the entrance to a garage or car park. It's so robust that it can even withstand a direct hit by a careless driver. Are you thinking about how to install the device? Order a stand to go with the unit which is 100% compatible with the intercom.

The intercom has a loud speaker and automatically suppresses noise from the surrounding car park. The receptionist always hears the driver clearly and the visitor understands where to park straight away. And employees? They can open the gate from the comfort of their car using an RFID card or smartphone.

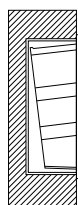
- » Indestructible design with the highest possible protection
- » Loud 10 W speaker
- » Two microphones for clear sound
- » Able to withstand dusty environments and torrential rain
- » Integrate with licence plate recognition software
- » Available with a rugged stand



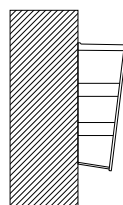
217 × 109 × 83 mm



In plaster walls



In walls



On surfaces



Gooseneck







IP54



IK8



ANTI  
VANDAL



WAVEKEY  
SUPPORT





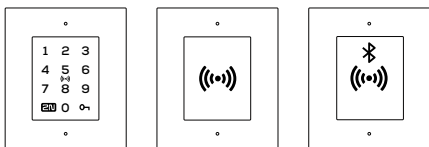
## LIFT

# 2N ACCESS UNIT 2.0

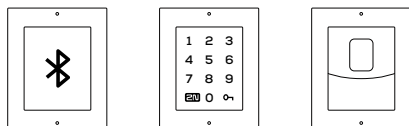
Increase the security of your clients' buildings with a smart access reader in the lift. Set user access rights to certain floors only. The receptionist can even set visitor access to the floor of their meeting only.

Configure the reader to allow security guards access to all floors only once regular working hours have ended. This way, the company can make sure that no unauthorised people get into the building. After all, a comprehensive access control system includes the lift.

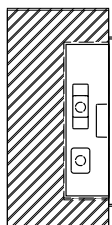
- » Set restrictions for access to floors
- » Leave public floors open to everyone
- » Manage access for up to 64 floors
- » Authentication using an RFID card, mobile phone, PIN code or fingerprint
- » Management of access for visitors included
- » Reader design matches the intercoms



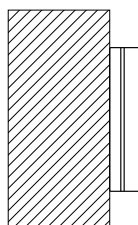
In walls 130 × 153 × 5 mm



On surfaces 107 × 130 × 28 mm



In walls



On surfaces

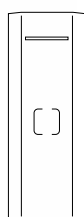


# 2N ACCESS UNIT M

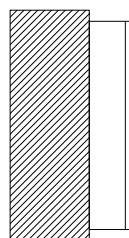
Offer a modern access control system for the office building in your project. But you won't need to bother with a controller because 2N Access Unit M access readers don't need one. Simply connect them to the network and power them with a single UTP cable. The slim design means that you don't have to find a special place to install the reader. For example, you can install them in the frame of a glass door in conference rooms. Installing one reader will take you four minutes at most.

Suggest the Bluetooth version for a busy office environment. After all, our patented WaveKey access technology will open the door faster than an RFID card with comparable reliability. For server rooms, recommend two-factor user authentication with an RFID card and PIN.

- » Most reliable access using a mobile phone on the market
- » Secure rooms using two-factor authentication
- » Encrypted communication on a par with mobile banking
- » Controller and reader in one
- » Single cable for communication and power supply (PoE)
- » Surface of the reader made from scratch-resistant glass



50 × 132 × 27 mm



On surfaces



IP55



IK7



ANTI  
VANDAL



WAVEKEY  
SUPPORT







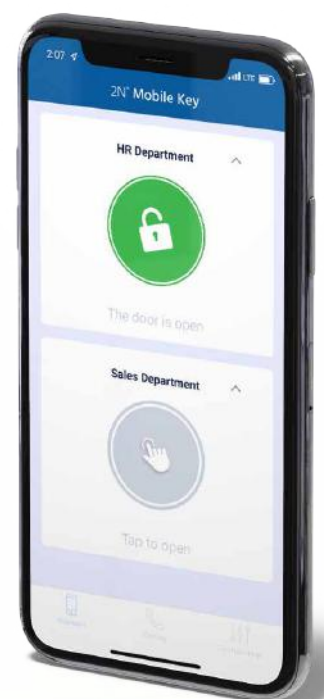
# 2N® MOBILE KEY

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Offer WaveKey, the technology of the future in the field of access control. With the 2N® Mobile Key application, employees will never be shut out of the building again. It's absolutely reliable and its speed is also exceptional. WaveKey opens doors twice as fast as a standard RFID card. And what about security? 2N® Mobile Key can easily be compared to mobile banking applications.

Give users a choice of four modes. Afford them maximum convenience with Touch mode and guarantee a greater level of security with Tap in app mode. Card mode is also available, in which the phone acts like an access card, and the last option is the completely contactless Motion mode, when all you have to do is wave your hand in front of the intercom.

- » Your own phone instead of an access card
- » Tried and tested reliability
- » Choose from four modes
- » Access credentials are free of charge
- » Encrypted communication between the phone and the reader
- » Distribute access credentials in just one minute



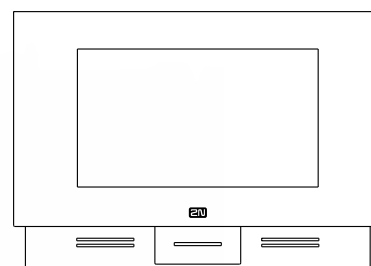
## RESERVATION OF A MEETING ROOM

# 2N<sup>®</sup> MEETING ROOM

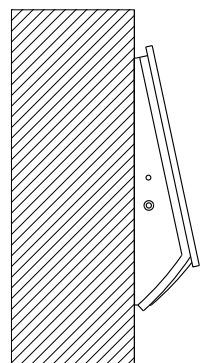
Every last-minute search for a free meeting room costs the employee time. Offer customers the option of reducing this time to a minimum.

Install the 2N<sup>®</sup> Indoor Touch 2.0 with the 2N<sup>®</sup> Meeting Room app next to the entrance to the meeting room. By looking at the display, the employee can easily see if the room is available. The colour of the backlight under the 2N logo will also tell them this. Green indicates that the room is free, red indicates that it is occupied, and orange means that the system is waiting for confirmation of a meeting. And if the user's lucky and there's no one in the meeting room at that moment, they can reserve it on the spot.

- » Clear list of reservations
- » Synchronise with Microsoft Office 365 and other systems
- » Reservation of the room in just one second
- » Colour indication of room occupancy
- » Support for additional widgets
- » Button with a request for the room to be cleaned



235 × 165 × 40 mm



On surfaces



reddot award 2017  
winner





## MAIN RECEPTION

# 2N<sup>®</sup> IP PHONE D7A

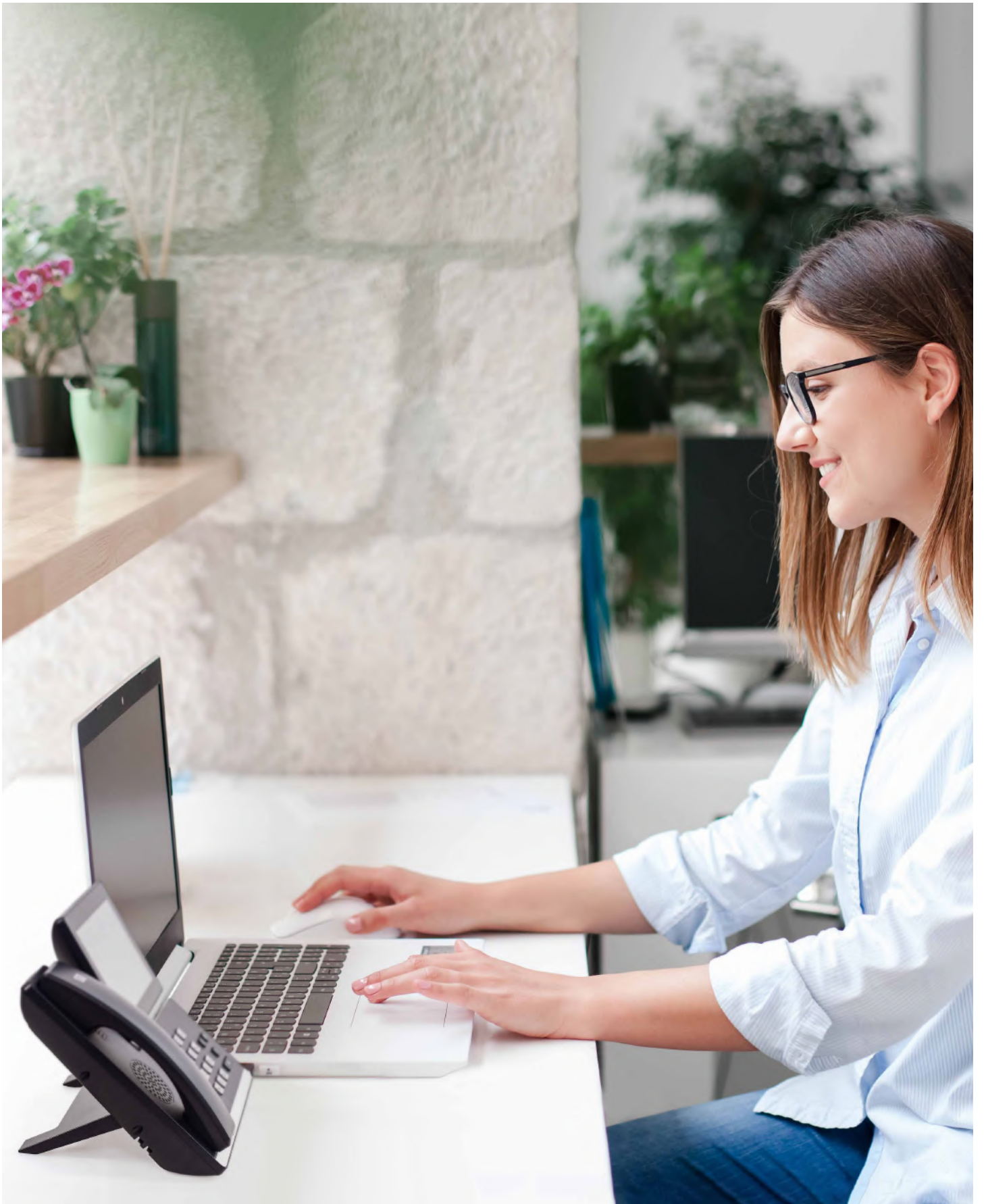
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A modern reception needs a smart IP telephone with a 7" touch screen display. The receptionist takes the call from the intercom at the door on the phone. He/she can see the feed from the intercom camera on the HD display and tell the courier where to take the parcel.

And how do they open the door? No more punching in a numerical code. They press the button to open the door directly on the phone's display. The phone also runs on Android, so you can install apps like Skype and Zoom.

- » HD video calls guarantee security
- » Set speed dial or door release buttons
- » Set up calls in the system in just three minutes
- » A single UTP cable for communication and power supply (PoE)
- » The phone can also be connected over Wi-Fi
- » Use the IP telephone as a switch to connect a PC







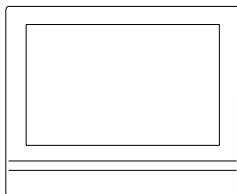


# 2N® INDOOR VIEW

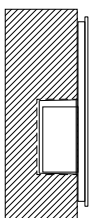
Are your clients asking for a more stylish door communication device at reception? Place the 2N® Indoor View on the receptionist's desk. Put it in a stand and connect it to the network with an ethernet cable. It will only take you three minutes to set up calls between the intercom at the door and this beautiful answering unit.

Even before taking the call, the receptionist can see who's standing at the entrance. They can even switch to an external camera feed to get a better look around. Don't torment them by making them get up and run to the door every time a visitor arrives. They can open the door remotely from the 2N® Indoor View with the touch of a single button on the touchscreen.

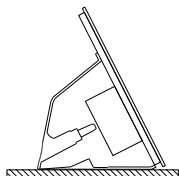
- » Scratch-free surface thanks to the use of tempered glass
- » 7" HD display for video calls
- » Instant response to touch
- » Switch between views from several cameras
- » Option of registration to the company IP PBX
- » Quick installation on a stand



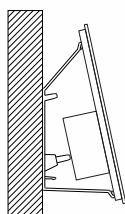
193 × 157 × 50 mm



In walls



On tables



On surfaces





## REMOTE RECEPTION

# 2N<sup>®</sup> MOBILE VIDEO

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Supplement hardware answering units with mobile video. Large companies can use this to arrange a 24-hour reception service. Small businesses may be able to get away with just a virtual reception desk.

Direct all calls from the intercom at the entrance of the building to the receptionist's mobile phone. When it rings, a video feed from the intercom camera will appear and the receptionist can take the call and open the door remotely. You can also switch between the intercom camera and the external camera in the application. If a visitor is causing a disturbance, the receptionist can take their picture via the application, thereby securing evidence.

- » 99.9% certainty that the visitor's call will get through
- » Give the receptionist the freedom to leave their desk
- » Increase security thanks to the feed from the intercom camera
- » The lock button can also be used to open several doors
- » Photo in the application as evidence
- » Switch between camera feeds in the application









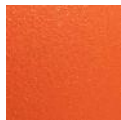
IP69K



IK10



ANTI  
VANDAL





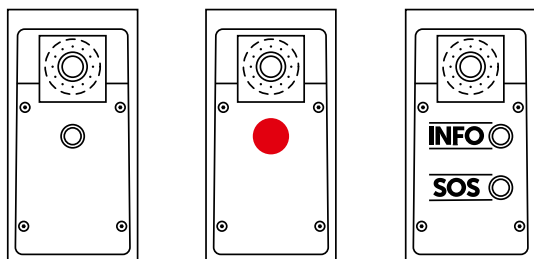
## UNDERGROUND CAR PARK

# 2N® IP SAFETY

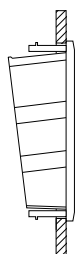
Does your project include an underground car park? Ensure emergency communication in areas without a stable telephone signal. The orange colour of the 2N® IP Safety intercom will draw the attention of anyone in need. Program its buttons to place a direct call to reception or building security.

In the event of an emergency, your customers can rely on its loud speaker and suppression of background noise. The 2N® IP Safety helps people who are lost find their way out of the garage, people who are injured call an ambulance and people who have been robbed call the police.

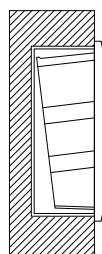
- » The bright orange intercom draws attention
- » Set INFO and SOS buttons
- » Connect the intercom to an external camera and VMS
- » Rely on the clear sound and high volume
- » The intercom performs regular automatic audio tests
- » Trust its indestructible design



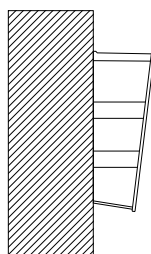
217 × 109 × 83 mm



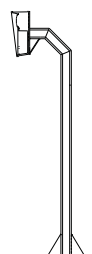
In plaster walls



In walls



On surfaces



Gooseneck



# 2N® ACCESS COMMANDER

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Always offer professional software for your project, software that constitutes the brain of the whole access control solution. You set in bulk who's allowed access, when they're allowed access and where they're allowed access. This means that the administration of the system takes only a fraction of the time, and you can delegate routine tasks directly to the customer. For example, an HR specialist can create a user and assign access rights after a 15-minute training session. The receptionist can manage visitor cards and the IT manager can change basic access rules.

2N® Access Commander is available in two versions – as an application to be installed on a virtual server, or pre-installed on a small PC.

### **CONFIGURATION VIA A WEB INTERFACE**

You set up the access control system in a user-friendly web interface. Does the customer need to upgrade all their devices? Connect remotely and handle everything from the comfort of your office.

### **ALWAYS HAVE UP-TO-DATE INFORMATION ABOUT THE STATUS OF CONNECTED DEVICES**

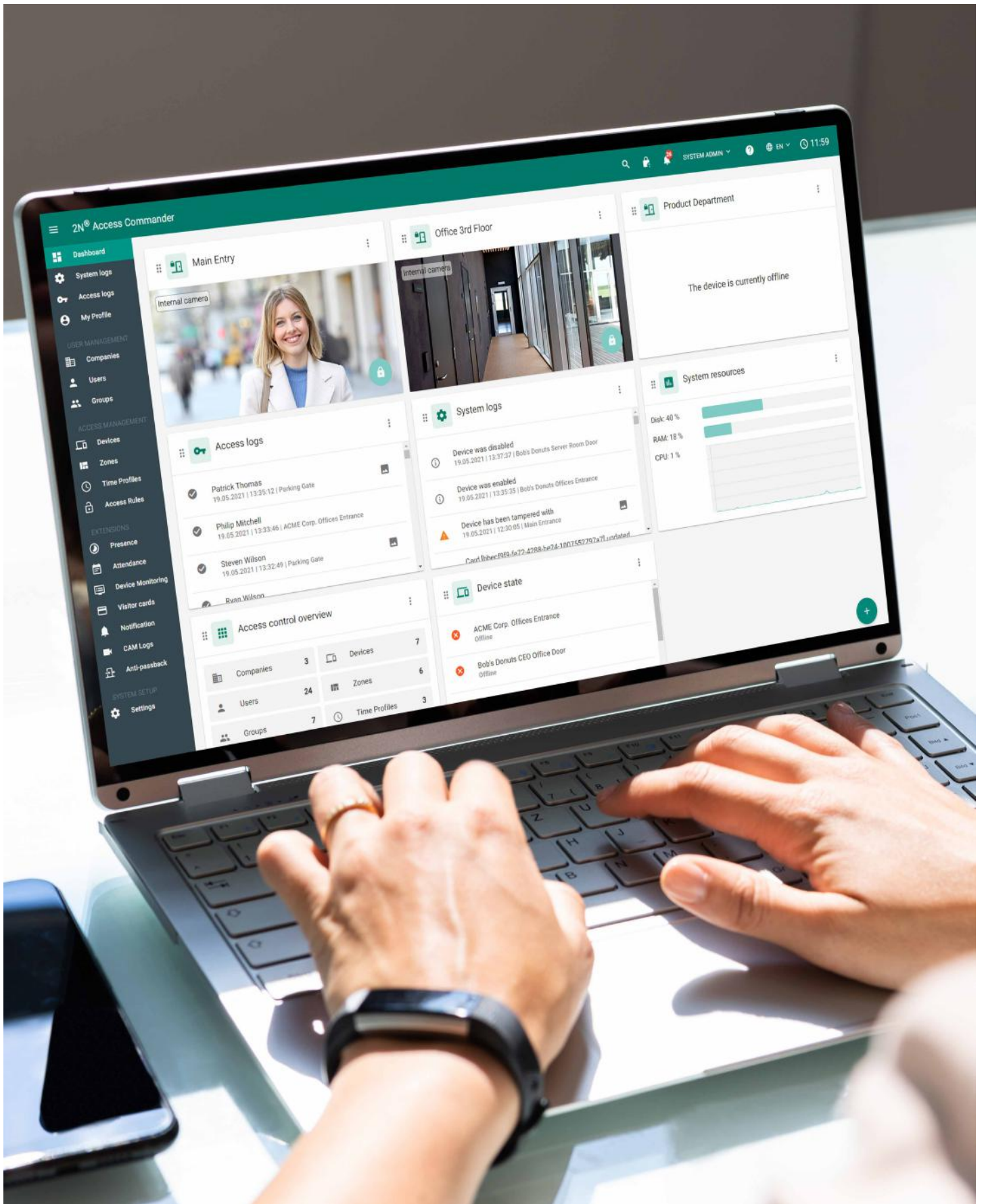
You can see at a glance if all the devices are working properly. Notifications instantly alert you to problems such as tampering with the intercom, a door being kicked in or a device being disconnected from the network.

### **OFFER AN ATTENDANCE SYSTEM TOO**

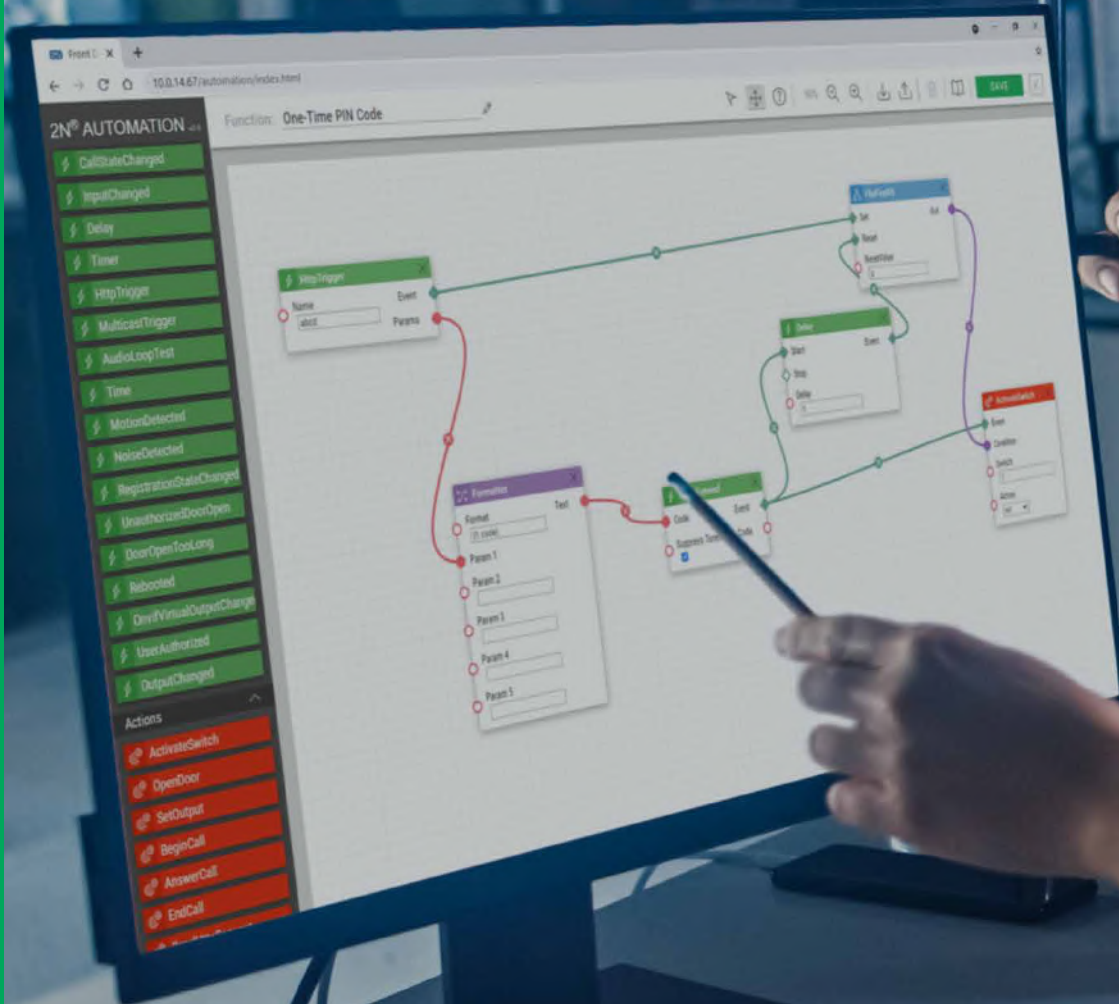
Does your customer also need a simple solution for their attendance system? 2N® Access Commander software can do that too. In addition to access control, it also records employees' arrival and departure from work.

### **CONNECTION TO DATABASE SYSTEMS**

Don't create all your users again. Just connect 2N® Access Commander to Microsoft Active Directory, for example, which allows you very simply to synchronise all users and their attributes.









# ADVANCED FUNCTIONS

# INTEGRATION

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Integrate our solutions with more than 500 products from over 200 companies. Thanks to IP technology and open standards, our products get along well with any other device.

## VIDEO MANAGEMENT SYSTEM

Add the intercom camera feed to a VMS. In doing so, you significantly increase the level of building surveillance. This is because the camera in the intercom will cover any blind spots. It's more than enough in places that are not so busy and where unauthorised people in the building don't expect to be watched by an intercom camera. In addition to this, security guards, for example, can open doors remotely.

### Functions:

- » Live feed and video recording
- » Two-way audio communication
- » Opening doors

### Protocol:

- » Onvif Profile S, RTSP/ RTP



## UNIFIED COMMUNICATION PLATFORM

Connect IP intercoms to local PBXs and IP telephones. This will mean that the intercom becomes a natural part of the communication platform. Why do that? You won't overwhelm the customer with yet another system. Calls from the intercom will be taken by the receptionist on their desk phone and they can even transfer the call to the competent person.

### Functions:

- » Audio and video calls
- » Registration for up to two SIP accounts
- » Door control via a DTMF signal or HTTP

### Protocol:

- » SIP/SIPS







## SECURITY PLATFORM

Include IP intercoms and access readers in security platforms. The building will be safer and security will be more efficient. The interactive building map shows all security devices. Security guards can see their status and control them from a single interface.

### Functions:

- » Emergency communication included in the access control system
- » Monitoring door status and incidents
- » A single interface for controlling various devices

### Protocol:

- » Onvif Profile S, SIP, HTTP API, RTSP, unique drivers and plugins



## PSIM

Make the security supervisor's job easier. Integrate our IP intercoms and IP audio into your system. Security guards can communicate with visitors and open doors from a single interface. In addition, our IP audio products and IP intercoms can broadcast emergency notifications directly.

### Functions:

- » Video surveillance and two-way communication in a single platform
- » Intercom alarm triggers actions in other devices
- » Standardised operating procedures

### Protocol:

- » ONVIF profile S, SIP, HTTP API



## OFFICE TOOLS

Don't burden the administrator with yet another system. Link our IP products to other database systems such as CRM, attendance or room reservation systems. This way, the administrator can manage everything efficiently from a single interface.

### Functions:

- » Sharing an internal database
- » Automatic update of the telephone directory
- » Simple import of employees to 2N devices

### Protocol:

- » API, LDAP, CSV

# AUTOMATION

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Intercoms can do a whole lot more than just make calls. The Automation function offers endless possibilities. A photo sent to the customer's e-mail when something moves in front of the intercom. Bulk sending of one-off PIN codes. Switching on lights in the hallway when the customer unlocks the door. Set up intercoms and access readers to suit your customer's precise requirements in an intuitive graphic interface.

## **SET UP WITHOUT PROGRAMMING**

You select predefined incidents, actions and conditions. Drag and drop them onto the desktop and link them together to create even very complex scenarios in just a few clicks.

## **USE SPECIFIC SCENARIOS TO AID DECISION-MAKING**

You'll quickly understand what our products are capable of and you'll be able to offer the customer a scenario that meets their precise requirements.

## **EARN MONEY BY SETTING UP COMPLEX SCENARIOS**

Customers tend to be quite demanding. And it would be a shame not to take the opportunity to offer something extra in addition to the basic installation of an access control system. Charge for setting up scenarios with the minimum of effort on your part.

## **USE AUTOMATION WITH THIRD-PARTY SYSTEMS TOO**

With a truly comprehensive solution, you give the customer added value that they are willing to pay for. For example, integrate intercoms with a VMS and set it up so that security guards can see the video feed from the intercom on their monitor when the door is kicked in.

## **LEARN TO WORK WITH AUTOMATION IN A MATTER OF MINUTES**

Exploring the endless possibilities in the Automation section is a hobby for many of our customers. We'll teach you to do the same if you sign up for our webinar dedicated to this very topic at the 2N Academy.







# PROJECT PREPARATION



# FOR ARCHITECTS AND PROJECT DESIGNERS

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We make your job easier. We've prepared everything you'll ever need to implement a successful project.

## **SPECIFICATIONS FOR PROJECT DESIGNERS**

Specifications include everything from general product descriptions, standards and certifications, all the way through to the unique features of the solution. All you have to do is copy the required sections into the project you are preparing.

## **CAD DRAWINGS**

Choose 2D drawings of our products for your project. They're also dimensioned and available in .dwg and .pdf formats. Don't do any unnecessary work and simply download our CAD drawings.

## **BUILDING INFORMATION MODELS**

Incorporate our system into your Building Information Model. We offer a library of BIM models of our products, which include graphic representations and their parametric values.

## **CONSULTATION ON YOUR PROJECT**

Do you need help choosing the right product? Do you need advice about the solution you're proposing? Contact our pre-sales team. Consultation is always free of charge.





# 2N VIRTUAL EXPERIENCE

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Take a tour of a virtual 3D building and find out where and how to install our products. Show your customers what a great door communication solution can look like.

Have any of the products captured your interest when walking through the building and would you like to know more about them? Click on the product you're interested in and several options will open up. Rotate the product 360° on its axis and see it from all sides. Disassemble it and see the parts it's made up of. Or simply download important documents about the product.

We bet you'll be so inspired by the virtual tour that you'll discover other places in your project where you can install our products.



# 2N PROJECT DESIGNER

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You can create your entire door access control project in just a few minutes using the Project Designer tool. You no longer have to worry about copying the wrong order number. The tool will even advise you which components are essential for the installation.

How does it work? Choose your project type and see which products we recommend. Choose from them, or choose completely different ones. You determine the type of installation, modules and accessories in a user-friendly interface.

You then create a complete door communication and access control solution, which includes intercoms, answering units and access readers, step by step.



In the end, you export the project you've created, complete with order numbers, and send it to your 2N distributor.

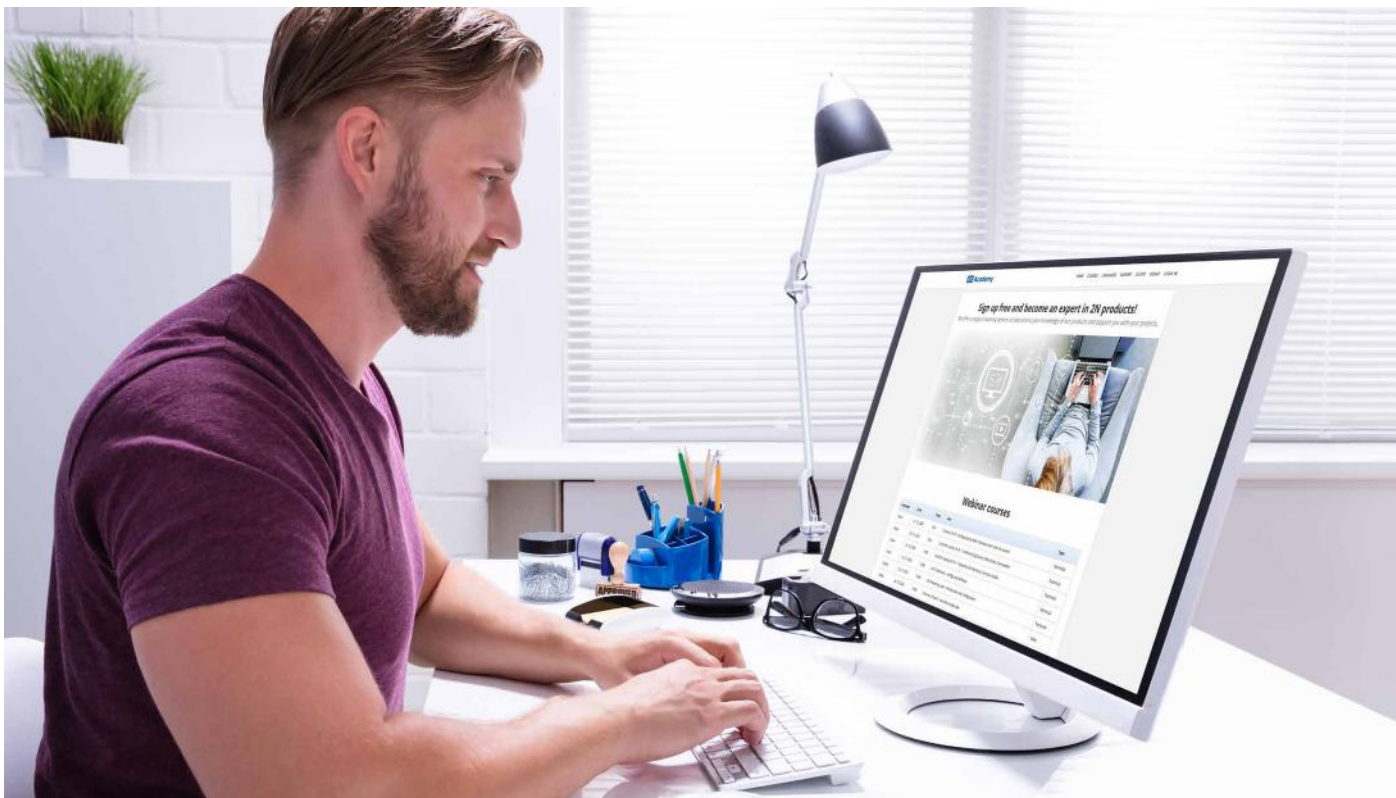


# 2N ACADEMY

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Free of charge, whenever you want and wherever you happen to be – that's what online learning at the 2N Academy is all about. On the portal, you'll learn about our products down to the very last detail and gain confidence in their installation and configuration. Anyone can become a professional by participating in our online webinars and interactive courses.

- » Portal in several language versions
- » Instant approval of participation in webinars
- » Online and offline study
- » Training materials all in one place
- » Certificate issued on completion of study



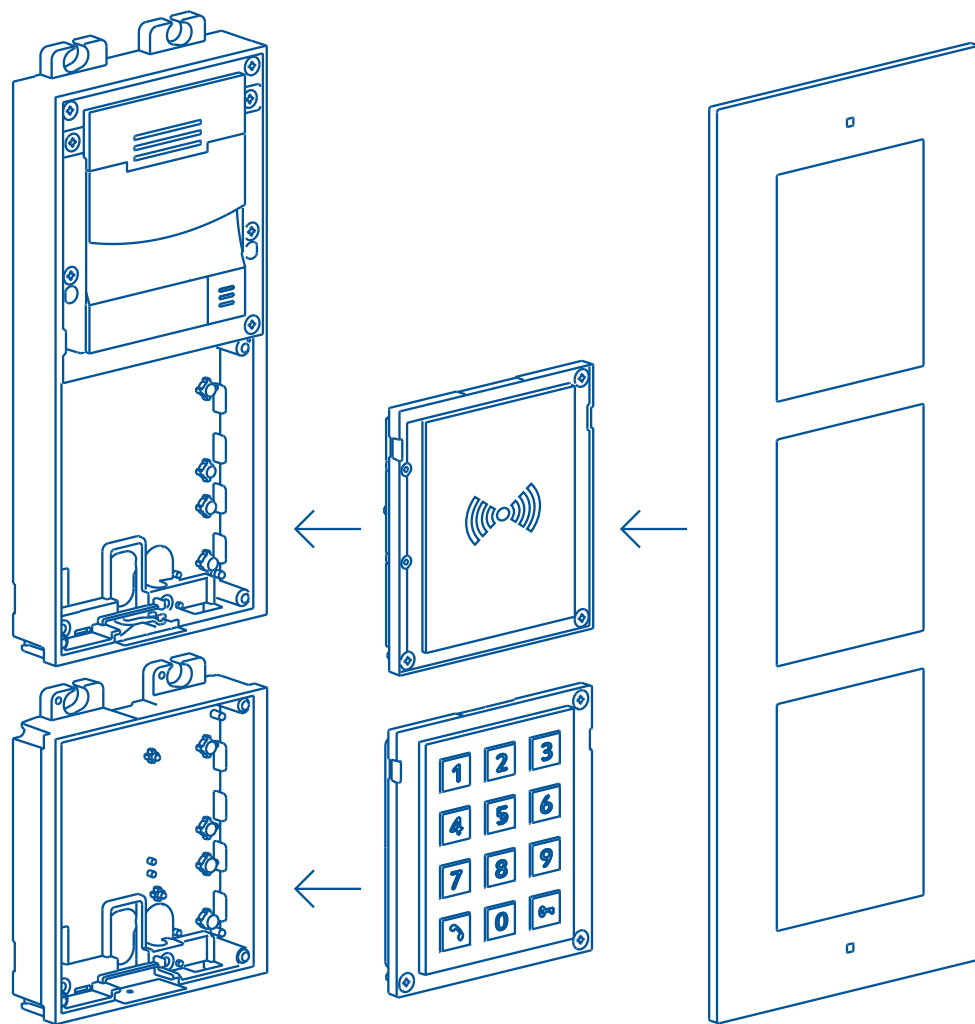


# COMPARISON TABLES

Detailed overview of answering units and intercom functions and parameters for better decision-making.

INTERCOMS	2N® IP Style	2N® IP Verso	2N® LTE Verso*	2N® IP Solo*	2N® IP Base*	2N® IP Force	2N® IP Safety
Integrated camera available	yes	yes	yes	yes	yes	yes	no
Integrated electric switch	yes	yes	yes	yes	yes	yes	yes
Numerical keypad available	yes, virtual	yes	yes	no	no	yes	no
Internal RFID card reader available	yes	yes	yes	no	yes	yes	no
Biometrics available	no	yes	yes	no	no	no	no
Bluetooth available	yes	yes	yes	no	no	no	no
Buttons	no	up to 146	up to 146	1	1 or 2	1, 2 or 4	1 or 2
Audio amplifier output	no	no	no	no	no	no	no
Audio line-in/line-out	line-out	line-out	line-out	line-out	no	line-out	line-out
Display - optional	yes, 10"	yes	yes	no	no	no	no
Tamper alarm output	yes	yes	yes	yes	yes	yes	yes
Tamper alarm event in automation API	yes	yes	yes	yes	no	yes	yes
Suitable for outdoor use	yes	yes	yes	yes	yes	yes	yes
IP/IK coverage	IP65/IK8	IP54/IK8 (touchscreen IK7)	IP54/IK8 (touchscreen IK7)	IP54/IK8	IP65/IK7	IP69K/IK10	IP69K/IK10
Number of users	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Security Relay support	yes	yes	yes	yes	yes	yes	yes
Dimensions W×H×D (incl. frame)	170×355×41.6 mm	107×234×28 mm (2 modules)	107×234×28 mm (2 modules)	107×130×28 mm	109×229×31 mm	109×217×83 mm	109×217×83 mm
Power supply POE	yes, PoE+	yes	no	yes	yes	yes	yes
Power supply 12V DC	yes	yes	yes	yes	yes	yes	yes
LTE connectivity	no	no	yes	no	no	no	no

ANSWERING UNITS	2N® Indoor Touch 2.0	2N® Indoor View	2N® Indoor Compact*	2N® Indoor Talk*
Display	yes, 7"	yes, 7"	yes, 4.3"	no
Display resolution (pixels)	1024 × 600	1024 × 600	480 × 272	---
Unit control	capacitive touch display	capacitive touch display	capacitive buttons	capacitive buttons
Integrated speaker	yes, 2 W	yes, 2 W	yes, 2 W	yes, 2 W
Integrated microphone	yes	yes	yes	yes
Digital input (doorbell button)	yes, 2	yes, 1	yes, 1	yes, 1
Line out (induction loop)	yes	yes	yes	yes
Digital output	yes, 2	no	no	no
Relay	yes, 2	no	no	no
OS	Android, 6.0.1	2N OS	2N OS	2N OS
Colour variants	black, white	black, white	black, white	black, white
WiFi (802.11 bgn)	yes (optional)	no	no	no
Dimensions W×H×D (mm)	235×165×40	193×157×50	152×153×50	185×128×48.2
Mounting options	wall mount	flush	flush	flush
Mounting accessory	none	flush box	flush box	flush box
POE power supply (802.3af)	yes	yes	yes	yes
12V DC power supply	yes	yes	yes	yes

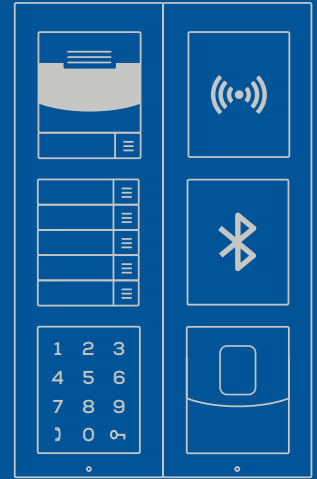
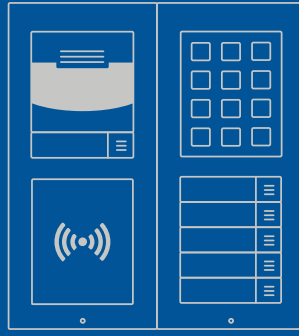


Build your intercom exactly as you need it - 2N® IP Verso and 2N® LTE Verso can be adapted to anyone's wishes.

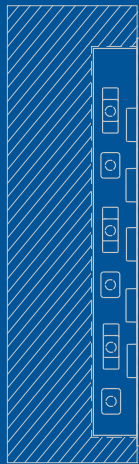
MODULARI



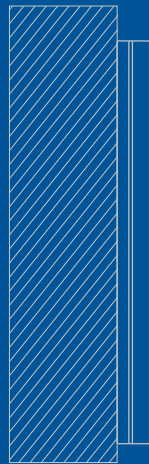
## INSTALLATION



## IN WALLS



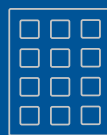
## ON SURFACES



Dimensions (mm)	Flush-mounted			Wall-mounted		
	W	H	D	W	H	D
1 module	107	130	28	130	153	5
2 modules	107	234	28	130	257	5
3 modules	107	339	28	130	361	5



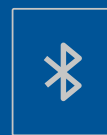
## MODULES



Keypad



5 Buttons



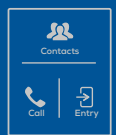
Bluetooth Reader



RFID Reader



Bluetooth & RFID Reader



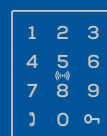
Touch Display



Fingerprint Reader



Touch Keypad



Touch Keypad & RFID Reader



Induction Loop



Info Panel



Blind Panel

# ORDERING NUMBERS, ACCESSORIES

## 2N® IP & LTE VERSO

Item	Features	Colour	Order No.
2N® IP Verso Main unit - 1 button	With camera	Black	9155101CB
		Nickel	9155101C
	Without camera	Black	9155101B
		Nickel	9155101
2N® LTE Verso* Main unit - 1 button	With camera	Black	9155401CB-E
		Nickel	9155401C-E
<b>Mounting Accessories</b>			
Flush-mounting frames	1 module	Black	9155011B
	1 module	Nickel	9155011
	2 modules	Black	9155012B
	2 modules	Nickel	9155012
	3 modules	Black	9155013B
	3 modules	Nickel	9155013
Flush-mounting box	1 module		9155014
	2 modules		9155015
	3 modules		9155016
Surface-mounting frames	1 module	Black	9155021B
	1 module	Nickel	9155021
	2 modules	Black	9155022B
	2 modules	Nickel	9155022
	3 modules	Black	9155023B
	3 modules	Nickel	9155023
Backplate	1 module		9155061
	2 modules		9155062
	3 modules		9155063
	2(w) × 2(h) modules		9155064
	3(w) × 2(h) modules		9155065
	2(w) × 3(h) modules		9155066
Wedge Backplate	3(w) × 3(h) modules		9155067
	2 modules		9155072
<b>Extending modules</b>			
Touch Display			9155036
Bluetooth Reader			9155046
Bluetooth & RFID Reader			9155082
Bluetooth & RFID Reader	Secured		9155084
Fingerprint Reader			9155045
Touch Keypad			9155047
Touch Keypad & RFID Reader			9155081
Touch Keypad & RFID Reader	Secured		9155083
RFID Reader	125 kHz		91550941
	13.56 MHz		91550942
	13.56 MHz secured		9155086
Keypad		Black	9155031B
		Nickel	9155031
5 Buttons			9155035
Induction Loop			9155041
Blind Panel			9155039
Infopanel			9155030
Tamper Switch			9155038
I/O Module			9155034
Wiegand Module			9155037
<b>Accessories</b>			
Extension cable	1 m long		9155050
Extension cable	3 m long		9155054
Extension cable	5 m long		9155055
Blind button			9155051
Blind button Black			9155051B
Nametag foil			9155052
External Antenna	For 2N® LTE Verso		9155048

## 2N® IP STYLE

Item	Features	Order No.
Main unit	125 kHz, 13.56 MHz	9157101
	125 kHz, secured 13.56 MHz	9157101-S
<b>Accessories</b>		
Wall-mounting backplate		9157002
Flush-mounting box		9157001

## 2N® IP SOLO\*

Item	Features	Colour	Order No.	
Main unit	Surface mount	with camera	Black	9155301CBS
			Nickel	9155301CS
		without camera	Black	9155301BS
			Nickel	9155301S
	Flush mount	with camera	Black	9155301CBF
			Nickel	9155301CF
		without camera	Black	9155301BF
			Nickel	9155301F
<b>Accessories</b>				
Flush-mounting box			9155017	
Backplate			9155068	
Wedge backplate			9155071	
Glass mount			9155074	

## 2N® IP BASE\*

Item	Order No.
Main unit	9156111CB
<b>Accessories</b>	
125 kHz Card Reader	9156030
13.56 MHz RFID Card Reader	9156031
Backplate	9156020

## 2N® IP FORCE

Item	Features	Order No.
With HD camera	1 button	9151101CHW
	1 button, keypad	9151101CHKW
	4 buttons	9151104CHW
	2 buttons, card reader ready	9151102CHRW
	1 button, pictograms, card reader ready	9151101CHRPW
With SD camera	1 button	9151101CW
	1 button, keypad	9151101CKW
	4 buttons	9151104CW
	2 buttons, card reader ready	9151102CRW
	1 button, pictograms, card reader ready	9151101CRPW
Without camera	1 button	9151101W
	1 button, keypad	9151101KW
	4 buttons	9151104W
	2 buttons, card reader ready	9151102RW
	1 button, pictograms, card reader ready	9151101RPW
<b>Accessories</b>		
125 kHz RFID card reader + tamper switch		9151011
13.56 MHz card reader NFC ready + tamper switch		9151017
Secured card reader NFC ready 13.56 MHz		9151019
Flush-mounting box		9151001
Flush-mounting box for mounting in plasterboard		9151002
Gooseneck stand		9151005

# AND OTHER INFORMATION

## 2N® IP SAFETY

Item	Features	Order No.
Main unit	2 buttons - Info and SOS, 10 W speaker	9152102W
	1 button, 10 W speaker	9152101W
	Red emergency button, 10 W speaker	9152101MW
<b>Accessories</b>		
Flush-mounting box		9151001
Flush-mounting box for mounting in plasterboard		9151002
Frame		9152000
Gooseneck stand		9151005

## 2N ACCESS UNIT M

Item	Features	Order No.
2N® Access Unit M RFID	13.56 MHz, NFC ready	916112
2N® Access Unit M RFID	125 kHz & 13.56 MHz, NFC ready	916114
2N® Access Unit M Bluetooth & RFID	125 kHz & 13.56 MHz, NFC ready	916115
2N® Access Unit M Touch Keypad & RFID	125 kHz & 13.56 MHz, NFC ready	916116

## 2N ANSWERING UNITS (ANDROID OS)

Item	Colour	Order No.
2N® Indoor Touch 2.0	Black	91378375
	White	91378375WH
2N® Indoor Touch 2.0 Wi-Fi	Black	91378376
	White	91378376WH
<b>Accessories</b>		
Presentation stand	Black	91378382
	White	91378382W

## ACCESSORIES

Electrical strikes	Features	Order No.
Electrical strike 11211	12 V / 230 mA DC	932071E
Electrical strike 11221	hold-open 12 V / 230 mA DC	932081E
Electrical strike 31211	fail-safe 12 V / 170 mA	932072E
<b>IP videophones</b>		
IP telephone Yealink SIP T58A		9137905
<b>RFID tags (for Verso and Force)</b>		
Card EMarine RFID 125 kHz		9134165E
Key EMarine RFID 125 kHz		9134166
Card Mifare RFID 13.56 MHz		9134173
Key Mifare RFID 13.56 MHz		9134174
<b>External card reader RFID</b>		
External card RFID 13.56 MHz		9137421E
External Bluetooth reader (USB interface)		9137422E
External fingerprint reader (USB interface)		9137423E
External reader secured 125 kHz + 13.56 MHz (USB interface)		9137424E
<b>Other</b>		
NVT PoLRE LPC Switch		1120103
NVT PhyLink Adapter Pack		1120104
2N® IP Security Relay		9159010
2N® Induction Loop		9159050
Power supply 12V/1A for 2N® Induction Loop		9159052
2N® 2Wire (plug EU/US/UK)		9159014EU 9159014US 9159014UK
Exit button		9159013
IP relay - 1 output		9137410E
IP relay - 4 output		9137411E
Magnetic Door Contact		9159012
Power supply 12 V / 2 A		91341481E
PoE injector (EU/US plug)		91378100E 91378100US
PoE+ injector		91378101
<b>Other licences</b>		
Enhanced Audio		9137905
Enhanced Video		9137906
Enhanced Integration		9137907
Enhanced Security		9137908
Gold		9137909
Informacast		9137910
NFC		9137915

## 2N ANSWERING UNITS (2N OS)

Item	Colour	Order No.
2N® Indoor View	Black	91378601
	White	91378601WH
2N® Indoor Compact*	Black	91378501
	White	91378501WH
2N® Indoor Talk*	Black	91378401
	White	91378401WH
<b>Accessories</b>		
Installation box		91378800
Surface installation box (N/A for 2N® Indoor Talk)		91378803
Desk stand		91378802

## 2N ACCESS UNIT 2.0

Item	Features	Order No.
2N® Access Unit 2.0 RFID	125 kHz	9160341
	13.56 MHz	9160342
	13.56 MHz secured	9160342-S
	125 kHz, 13.56 MHz	9160344
	125 kHz, 13.56 MHz secured	9160344-S
2N® Access Unit 2.0 Bluetooth & RFID	125 kHz, 13.56 MHz	9160335
	125 kHz, 13.56 MHz secured	9160335-S
2N® Access Unit 2.0 Touch Keypad & RFID	125 kHz, 13.56 MHz	9160336
	125 kHz, 13.56 MHz secured	9160336-S
2N® Access Unit 2.0 Fingerprint Reader		916031
2N® Access Unit 2.0 Touch Keypad		916032
2N® Access Unit Bluetooth		916013
<b>Frames</b>		
Flush installation 1 module	Black	9155011B
	Nickel	9155011
Surface installation 1 module	Black	9155021B
	Nickel	9155021
<b>Accessories</b>		
Flush-mounting box		9155014
Backplate, 1 module		9155061



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Part of



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