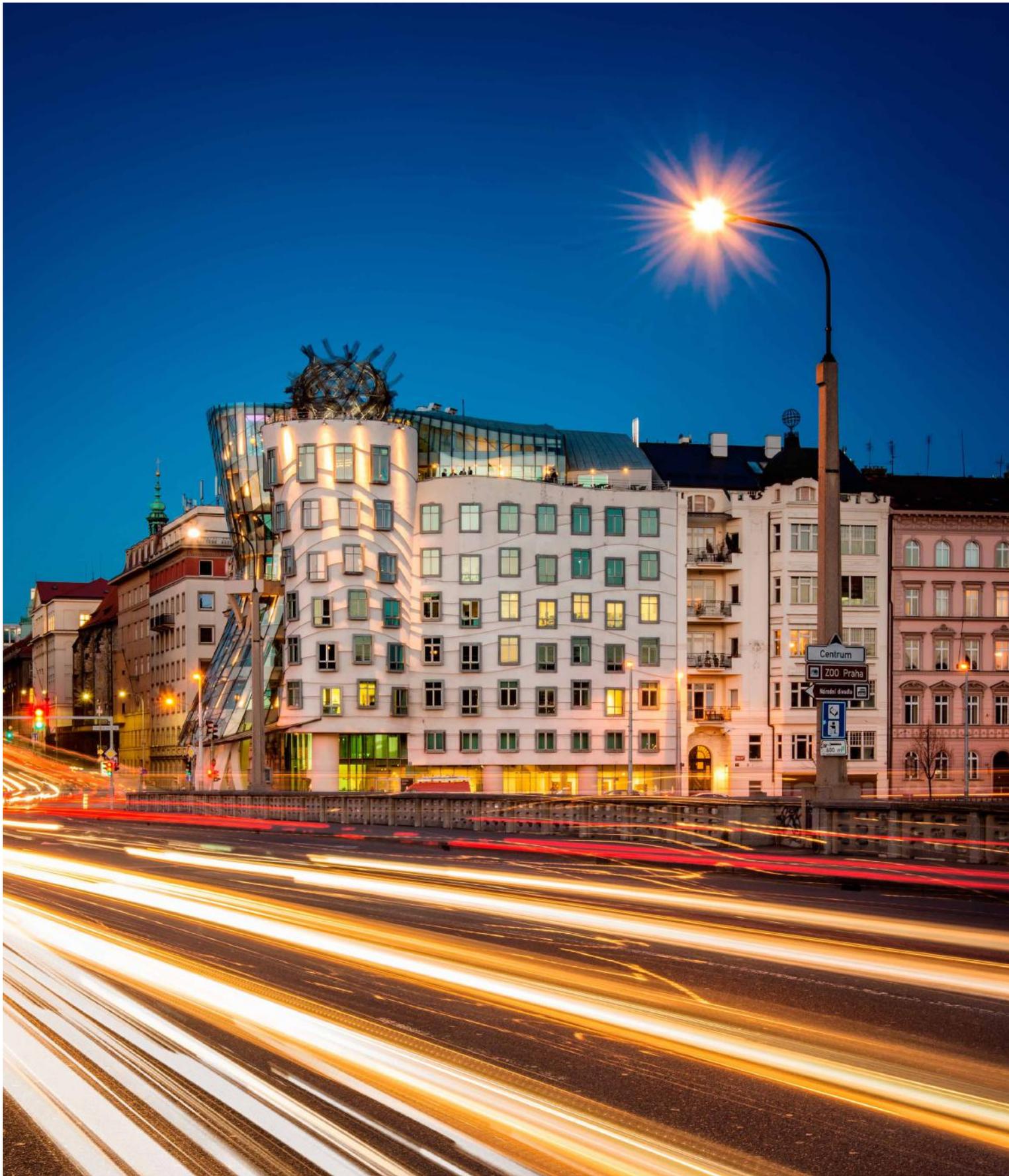


# 2 RESIDENTIAL SOLUTIONS



# ABOUT 2N

#1

We are the global leader in IP access control systems. IHS has certified us as the **No.1 IP intercom provider**.



Our company has **teams in 11 countries** and an extensive distribution network throughout the rest of the world.



We have been at the vanguard of innovation in the sector. Therefore we have developed **WaveKey. The fastest, most reliable and secure mobile access technology** on the market.



reddot design award  
winner 2017



At 2N, we take design and quality just as seriously as innovation – a claim we back up with awards from **Red Dot** and **iF Design**.



**Cybersecurity is our top priority.** It is applied in our product design and testing and secure apps, and incorporated into GDPR privacy and our company values.



Galvanised since 2016 by an ownership by **the Axis group**, we continue to reinvest 13% of our global revenues in R&D.

# WE ARE 2N



# IP TECHNOLOGY

# ... over an analogue solution

## **Scalable network infrastructure provides future-proof solutions**

Expanding legacy door entry solutions with just a few new devices consumes time and money. IP-based systems are infinitely scalable, and you will never face any dead ends within your installation.

## **Shared structure cabling reduces installation costs**

Use shared ethernet cabling for existing IP cameras, alarm systems or video management systems. 2N devices can also be powered via this cable (PoE).

## **Efficient remote management from any location via the cloud**

Give your customers immediate assistance without the need to travel anywhere. Connect all 2N devices to My2N cloud and manage them remotely, free of charge. Of course, all communication is encrypted and 100% secure.

## **Open protocols which allow integration with third-party systems**

Link 2N products with home automation, cameras and security or property management systems. Take advantage of open protocols such as SIP, ONVIF, RTSP and open API.

## **Smart features for an enhanced user experience**

IP intercoms can detect motion, notify a surveillance system, record video feeds and play warning sounds. The devices allow tenants to open doors using their smart phone, even if they're not at home.

LEGY



QUALITY

# Quality meets design

## Quality

Compliant with mandatory standards and norms (ISO, LVD, RED, RoHS)

All products are dust, water and impact resistant (IP and IK certification)

First-class materials – steel, glass and aluminium

Proudly made in the European Union

## Design

Internationally awarded product design

Products can be installed in walls or mounted on surfaces

Available in various colours

Access control portfolio designs match the intercoms



DESIGN

# **Smart is not limited to households. You can create smart buildings too.**

The demands on housing in apartment buildings are increasing hand-in-hand with the development of information technologies. Residents are using technologies more and more to increase the level of comfort and convenience in their apartments and to ensure greater security.

We are 2N, a global leader in the field of security, access control systems for buildings, and communication within buildings. We develop products which reflect the latest trends in digitalization, an ongoing process which is giving rise to the demands for completely new services in the real estate market.

Tenants in new apartment buildings no longer choose where to live based only on price and amenities. Demand is constantly rising for smart home management. Linked to this is the possibility of easily contacting the facility manager and the immediate resolution of any problems which may arise.

Demand is also increasing for other benefits in apartment buildings, however. For example, facilitating the delivery of parcels with the aid of a special room which is managed remotely. Residential buildings do, of course, include communal areas such as laundry rooms and fitness centres which also require electronically secured access. Through the use of our products, you can offer the following benefits for your project:

## **ENTRY TO THE BUILDING WITH CONTINUOUS CONTROL VIA A MOBILE PHONE**

Putting through calls by visitors to residents, even when they are not home, is becoming standard, required everywhere. Also, e-commerce sales are growing at an annual rate of 10%, and apartment buildings need to be able to respond to this. They must help store parcels on the premises so that residents can collect them when they come home from work.



Up to 90,000 parcels go missing in Washington and New York every year. This problem could largely be solved if they were all handled and tracked using mobile phones. The question being asked by developers and facility managers is how to provide this service on site without the need for security guards. The answer is a mobile application linked to an IP intercom by the door, integrated with an application which operates the whole building.

### **EASE OF MOVEMENT THROUGHOUT THE WHOLE BUILDING WITHOUT THE NEED FOR KEYS**

Investment into a modern access control system is estimated to amount to 0.1% of the total cost of a building's construction. Yet technology like this significantly increases the attractiveness of a building for tenants. Movement around the building without the need for keys is also more convenient and safer, and if an access card or code is lost, it is much easier to block than a key.

### **INTEGRATION OF ACCESS CONTROL SYSTEMS WITH ANY OTHER SYSTEM**

Connecting the access control system at the door with home automation allows tenants easier control of the whole household from one central location. The security of the premises is also enhanced thanks to its simple integration with security and camera systems.

### **REMOTE MANAGEMENT**

IP technology saves apartment building managers time and money. Remote management allows facility management companies to look after the real estate entrusted to them more efficiently. Thanks to integration with property management software, facility managers can also, for example, plan cleaning work better and generally keep the whole building under greater control. For tenants in the building, it means that problems can be solved much faster.

## MAIN ENTRANCE

A door entry phone testifies to the entire building's level of security. Its reliability is necessary not only for residents but also incoming visitors and the facility manager.

## APARTMENT

HD video and audio guarantee the best quality two-way communication between residents and their visitors.

## NOT AT HOME?

A smart application for mobile phones accepts calls from the intercom wherever the resident is. Communication with the visitor becomes more convenient.

## PARKING GATE

Fulfilling the same expectations as the main entrance door phone, this intercom should be even more robust, louder, faster and offer more access control technologies.

## PARKING LOT

A parking lot without a mobile signal requires a brightly coloured intercom with backlit buttons. Otherwise, the person cannot reach out for help or advice when needed.

## LIFT

A smart access unit installed in the lift ensures that only authorised people have access to certain floors.

## RECEPTION

A receptionist provides advice, forwards your calls, accepts couriers and monitors the building's surroundings. All of this is much easier with a reliable access control system.

## COMMON AREAS

The access control device letting residents into common spaces should share the same design as the front door intercom, be easily installed and smart. What about opening doors with a fingerprint?

## RECOMMENDED INTEGRATION:

 brivo.

 STRATIS

 CARSON



 Control4



# MULTI-DWELLING UNITS





IP65



IK8



ANTI  
VANDAL



DESIGNED TO FIT MODERN ARCHITECTURE

# 2N<sup>®</sup> IP STYLE

A luxurious intercom with multi-technology access control is a great fit for an equally modern apartment building. Bluetooth technology lets the residents in conveniently and both safely and more quickly than an access card. The huge touch screen helps visitors search for the right resident instantly. Security is enhanced by the intercom's full HD camera. It identifies the caller without any doubt, even in low light conditions. Remote configuration and open standards for integration with video monitoring or alarm systems ease the work of system integrators.



10.1" touch screen protected by 0.16-inch thick tempered glass to resist vandal attacks



Top video quality provided by full HD camera supporting WDR



Multi-technology access control for convenient entry (Bluetooth, RFID, PIN code)



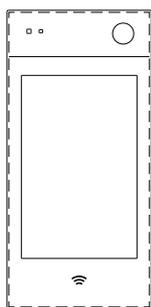
Premium display with customizable user interface, immediate response and smooth animations



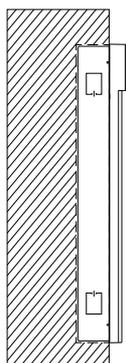
Patented mounting mechanism ensuring convenient and fast installation



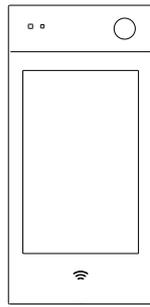
Integration with video management and property management software



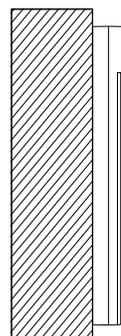
6.69 × 13.98 × 0.87 in



In walls



6.69 × 13.98 × 1.57 in



On surfaces



AN ELEGANT BODYGUARD FOR THE MAIN ENTRANCE

# 2N<sup>®</sup> IP VERSO

The entry intercom represents the building. It must allow the building administrator to configure access for residents and ensure that visitors can talk to them. It is possible to include several access technologies in such intercoms. Remote supervision to ensure smooth operation of the intercom saves integrators the time and money associated with needless call-outs to the site. Thanks to its open interface and protocols, the intercom offers the possibility of integration with systems for building management, which significantly simplifies the work of facility managers. Easy connection with mobile applications for taking calls and remote door opening ensure convenience for users.



Directory of up to 10,000 users with intuitive searching



The choice of 16 different modules according to the needs of the building, with the possibility of easy alterations



Award-winning design in different colour combinations



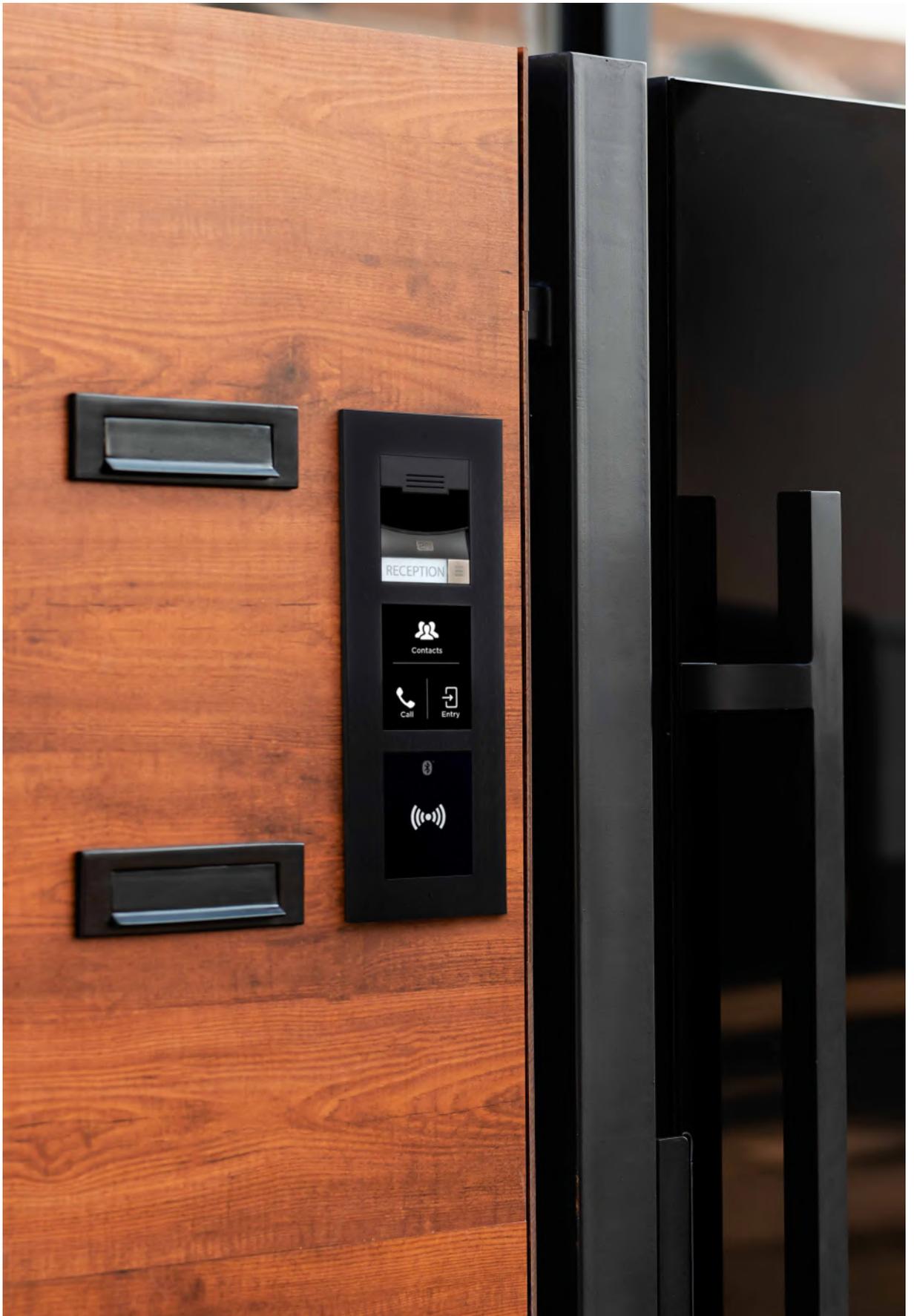
The possibility of integration with property management software via an API



Re-routing of all calls to reception



Modern technology for comfortable entry to the building, for example WaveKey or fingerprint technology



reddot award 2017  
winner



IP54



IK8



ANTI  
VANDAL





COURIER OR A FRIEND?

# 2N® INDOOR VIEW

A modern flat should have a modern answering unit. Two-way communication with visitors must be high-quality thanks to HD audio and video. Thick tempered glass prevents scratches from unwanted contact with a shopping bag or children's toys. In your project, you can connect the answering unit with two bells, an intercom at the entrance and a bell button at the tenant's flat. Thanks to the different selected melodies, the tenant can easily identify where their visitor is waiting. Installers will appreciate the fact that the installation of equipment in a project is possible without significant intervention in the building's structure.



High quality 7" HD display and lightning-fast touch response



Video preview and HD audio ensuring clear communication with the caller



Easy switching between internal and external cameras



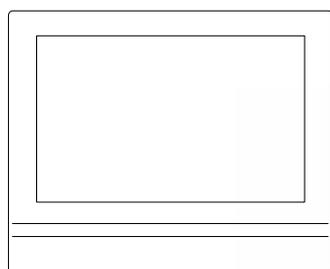
Tempered glass protecting the unit from unintended scratches



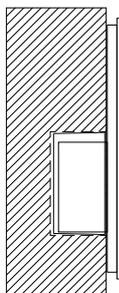
A log of each call, even unanswered ones, with a photo of the visitor



Connection with reception or the entry door with a single press of the button



7.6 × 6.18 × 1.97 in



Due to the same installation box, easy substitution with 2N® INDOOR TALK or 2N® INDOOR COMPACT

AWAITING A PARCEL?

# PACKAGE DELIVERY

Not everyone can wait at home for a package 24/7. Today, there are smart apps for this which connect with the access intercom and simplify communication with visitors from anywhere. Every day, up to 90,000 packages go missing in New York. Taking advantage of the hidden intercom camera and mobile app connected to the intercom and external camera, the tenant has full control of delivery. They can watch the courier arrive and open the door to the package delivery room remotely.



Saves time and money with package deliveries



Open several doors with one click, such as the main entrance door and the door to the package delivery room



Watch a visitor from all the intercom's cameras and take their pictures with the app



Video preview of the visitor before taking the call



Touch display of the intercom at the entrance allows the courier to find the resident in a few clicks



Tenant opens the package delivery room using the smartphone in their pocket







IP69K



IK10



ANTI  
VANDAL



THE TOUGHER, THE BETTER

# 2N<sup>®</sup> IP FORCE

The entrance to a garage requires the same security and rules as a pedestrian entrance. There is merely an increase in the demand for resilience, volume, speed of connection and the possibility of access technologies. Residents can open the barrier from the comfort of their car with an RFID card. Visitors or external service workers connect to reception for access permission. Thanks to the HD camera and powerful speaker, receptionists can verify the identity of customers within a few seconds.

 Robust stand as equipment for installation

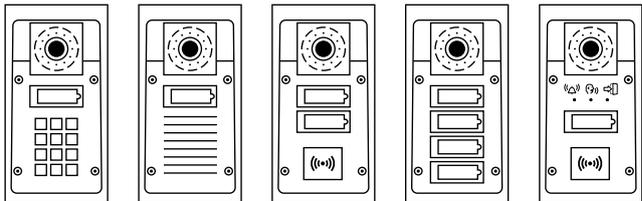
 Opening of the boom barrier thanks to integration with licence plate recognition software

 Two microphones to suppress ambient noise

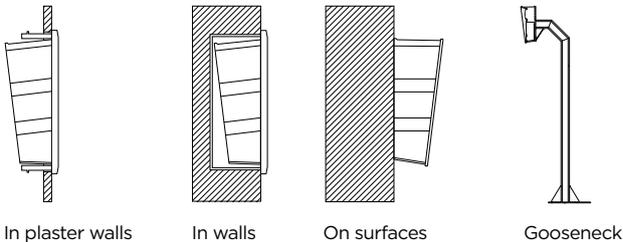
 A solid construction which can withstand attacks by vandals and even collision from a car

 Resilience to weather

 10W speaker for clear communication with reception



4.29 × 8.54 × 3.27 in



LOST IN THE MAZE?

# 2N<sup>®</sup> IP SAFETY

The reinforced concrete construction of an underground car park can very quickly turn into a trap. For this reason, a hi-vis intercom with backlit buttons is a must. You can use it to call for help quickly and reliably, and redirect the call either to reception or a security agency. Combined with external cameras, the worker will very quickly locate the lost person, and the powerful intercom speaker ensures quality transmission of information.



Hi-vis orange for excellent visibility



Two backlit buttons - Info and SOS



Connection with an external camera and integration with a video monitoring system



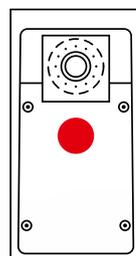
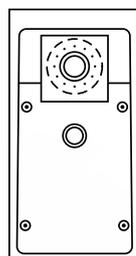
Pure sound thanks to a powerful speaker



Regular auto-tests of equipment



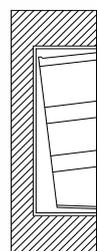
Bulky construction ensuring a high level of resilience



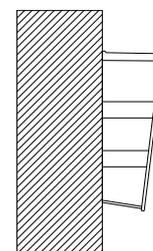
4.29 × 8.54 × 3.27 in



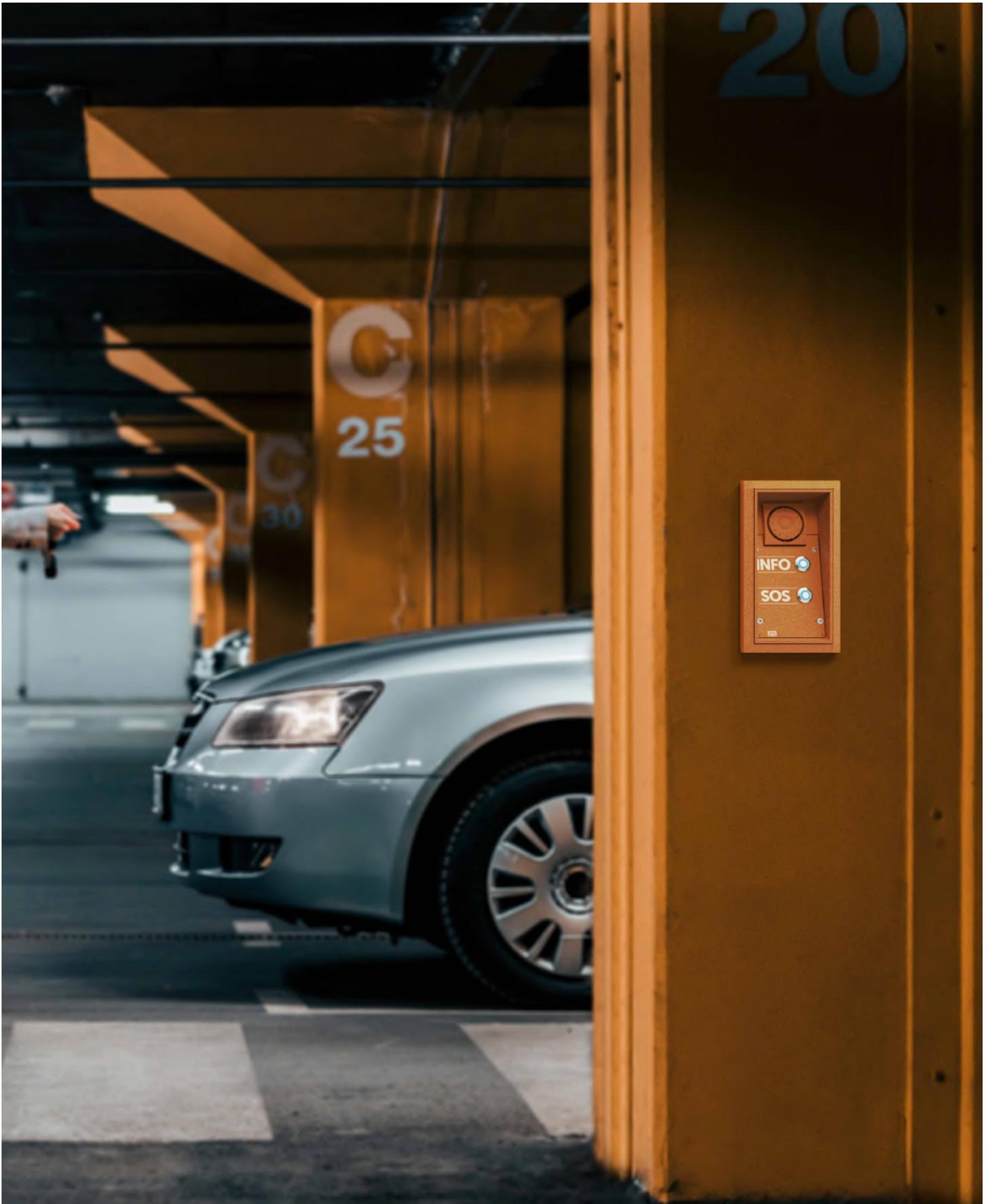
In plaster walls



In walls



On surfaces





IP54



IK8



ANTI  
VANDAL



# LIFT ACCESS CONTROL

The lift is the transport artery of the entire apartment building. For this reason, it is essential to configure rules for movement in the building. Fitting a lift with an intelligent reader will ensure, after confirming credentials, that it can determine where a resident or visitor has access. As a part of access control, it is easy to configure the night time ban or publicly accessible floors of common spaces for cleaning work. Convenience is also increased by the use of a mobile phone instead of an access card.



Configuration of publicly accessible floors without the need for identification



Floors with restricted access become available after successful identification of the user



Possible combination with time profiles for the restriction of access



Ideal for apartment buildings up to 64 floors with Axis A9188 relay



Identification by card, PIN code, fingerprint or mobile



Expansion of the solution to include an emergency lift communicator



NO PHYSICAL KEYS NEEDED

# 2N ACCESS UNIT M

Access to the swimming pool, fitness centre or other shared space in a residential building can be resolved comfortably and without keys. All you have to do is install smart access equipment at the door. Is there a lack of space in your project? Install a narrow design reader to fit the door frame. Let residents decide on preferred credentials – RFID, RFID combined with mobile access via Bluetooth, or RFID with a keypad.



Modern keyless access system using WaveKey technology



Mullion design to fit door frame and narrow spaces



Glass front panel ensuring scratch-free surface (after years of daily use)



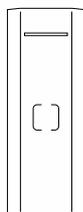
Installation possible both indoors and outdoors



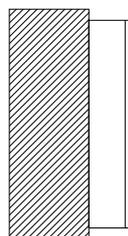
Access logs as the basis for the smart planning of cleaning or training sessions



Remote mass management of access data

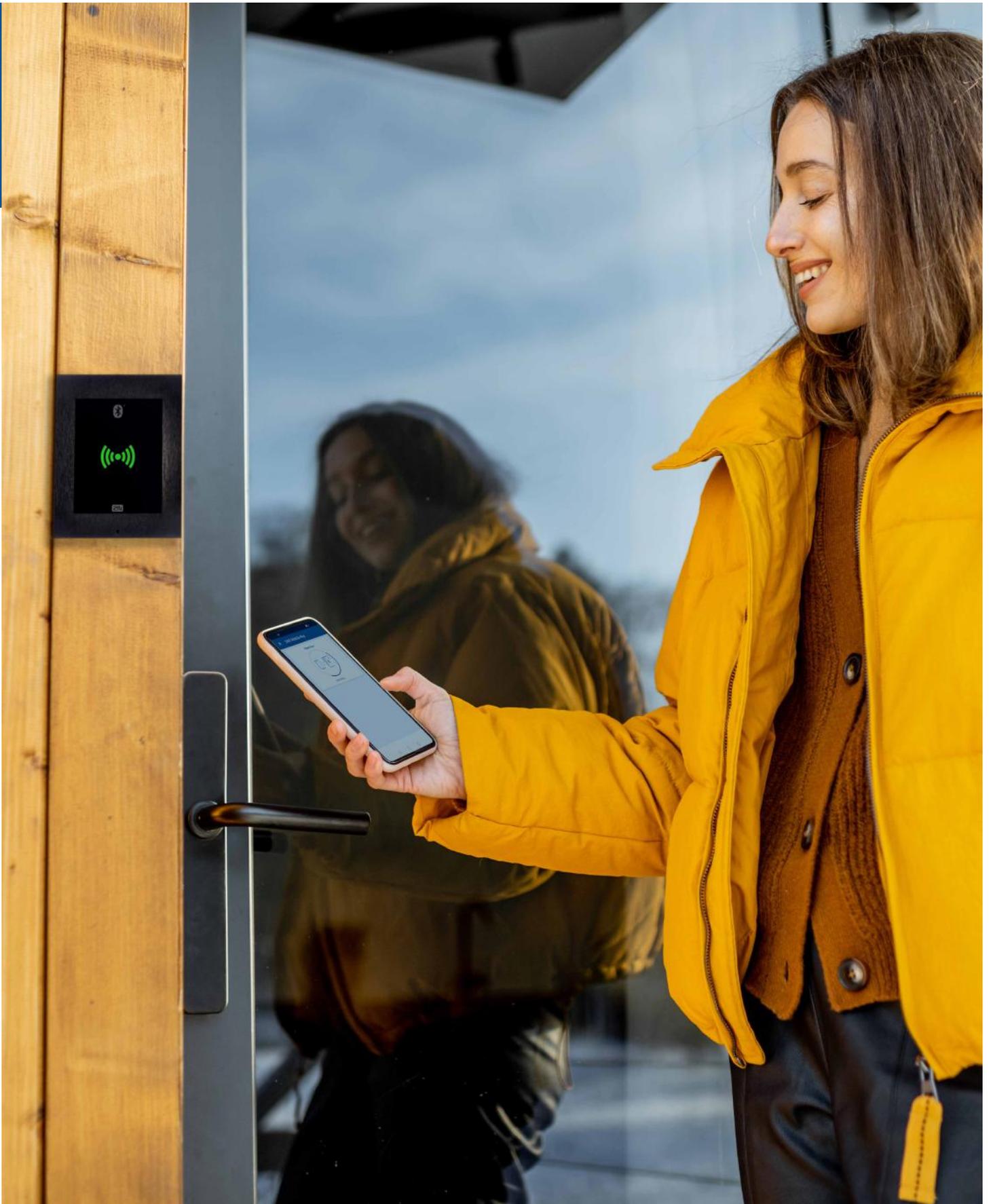


1.97 × 5.24 × 1.06 in



On surfaces





THE SMARTPHONE IS THE KEY

# 2N<sup>®</sup> MOBILE KEY

Intelligent apartment buildings let tenants swap their bunch of keys for mobile applications. This is because the readers of access systems today communicate via the latest technology, such as Bluetooth or NFC. Thanks to encrypted communication between devices, this is a far more secure means for identifying visitors and opening doors. For tenants, it is fast and convenient, especially if their hands are full. Building administrators will appreciate the effective configuration of access.



Mobile phone as a virtual card for building access



Opening the door from an app or via a widget



Opening the door by touching the reader with a smartphone in their pocket



Communication which is as secure as online banking



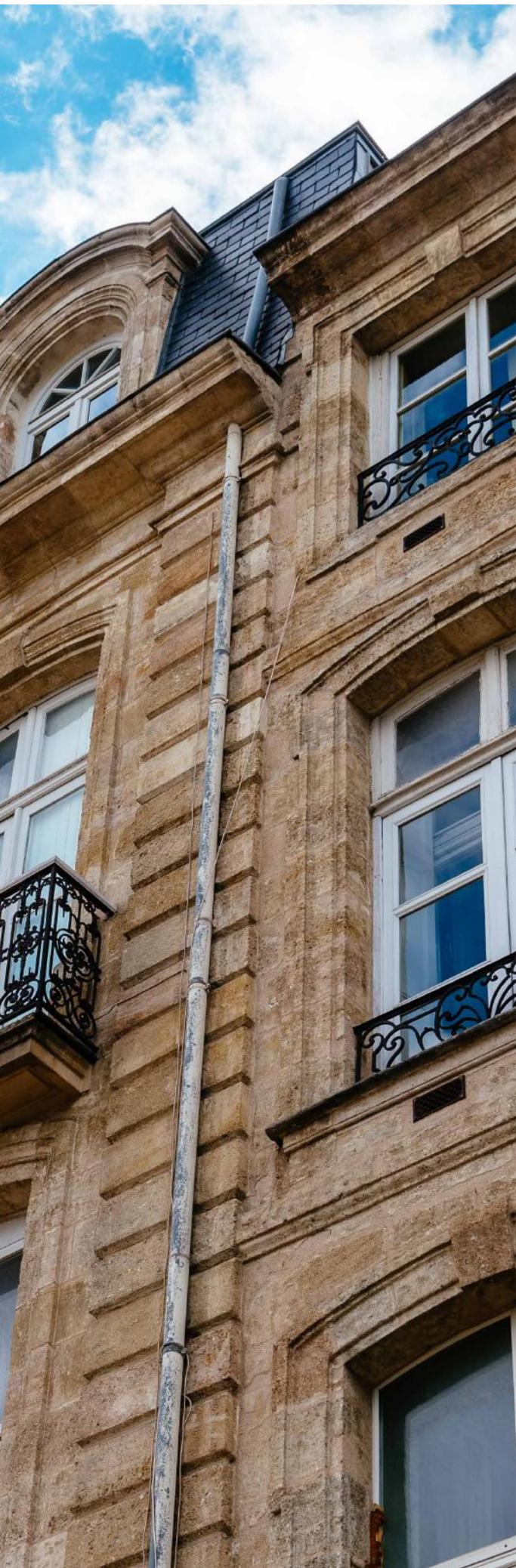
Lightning-fast entry thanks to WaveKey, patented mobile access technology



One mobile can replace several keys to various doors







2N offers different options to transition legacy systems into modern solutions.

## **MODERN RETROFIT SOLUTION? CLOUD-BASED**

Save money on costly and noisy renovation but still modernize door communication. The cloud-based solution guarantees that a call from the intercom gets to the resident's indoor answering unit installed in their apartment. This calling is free of charge and includes remote administration of installed 2N devices.

How does it work? The LTE/4G intercom by the entrance needs a SIM card from any local provider to make calls. Connect it to My2N cloud and do the same with the 2N answering unit. For this purpose, you must plug it into the resident's router. The call can also be answered on the resident's smartphone using the 2N® Mobile Video app. It is that easy!

### **Recommended products:**

- 2N® LTE Verso
- My2N and 2N® Remote Configuration
- 2N® Indoor View
- 2N® Mobile Video
- 2N® Mobile Key

## **CONVERTING ANALOGUE CABLING INTO IP**

Take advantage of all the advanced functionalities of IP systems using the legacy wiring. Connect all the analogue wires to the central NVT switch. Install the adapter on the other side of the analogue wire, and finish by connecting the new 2N IP edge device. Voilà! Enjoy the convenience.

### **Recommended products:**

- NVT PoLRE LPC switch with 2 adapters
- 2N® IP Verso
- 2N® Indoor View
- 2N® Access Unit 2.0 Bluetooth & RFID
- 2N® Mobile Video
- 2N® Mobile Key



## **MAIN GATE**

A gated community can be extensive, and therefore an intercom which has functionalities not limited by distance should be selected. An LTE door phone is an ideal solution.

## **HOUSE ENTRY**

Most houses take advantage of a home automation system. The intercom installed by the front door must therefore be smart to cooperate effectively with such a system.

## **HOUSEHOLD**

Homeowners should be aware of what is happening around the house and the main entrance gate. Switching between the intercom camera and external cameras is a matter of a single press of the button.



## NOT AT HOME?

Just one click in a smartphone app guarantees audio-video communication with visitors, or alternatively, a preview of the intercom's camera without anyone ringing.

## AMENITIES

Without compromising the high level of security, movement around common spaces in the community can be significantly simplified by using a mobile phone or fingerprint to open doors.

## RECOMMENDED INTEGRATION:



DISTANCE IS NOT THE LIMIT

# 2N<sup>®</sup> LTE VERSO

The entrance intercom for a gated community can take more than 100 calls per day. Its reliability is crucial. An intercom with LTE technology needs only a power source. Given that it includes a camera and built-in microphone, it delivers high-quality audio and video transmission. Since the average video call takes up just 4 MB, a SIM card with a basic data plan is sufficient for the intercom. The administrator of the premises will welcome the option of remote administration and monitoring of the intercom. Residents of the community will be thrilled to open the gate with their mobile phones.



LTE/4G technology allowing installation on remote entrance gates



Entry system and smart bell in a single device



Integration with a camera system



Remote administration via My2N cloud



Opening the entrance gate for vehicles and pedestrians from a single device



IR lighting for clear night-vision images



reddot award 2017  
winner

Commercial  
**INTEGRATOR**  
2019 BEST  
WINNER



IP54

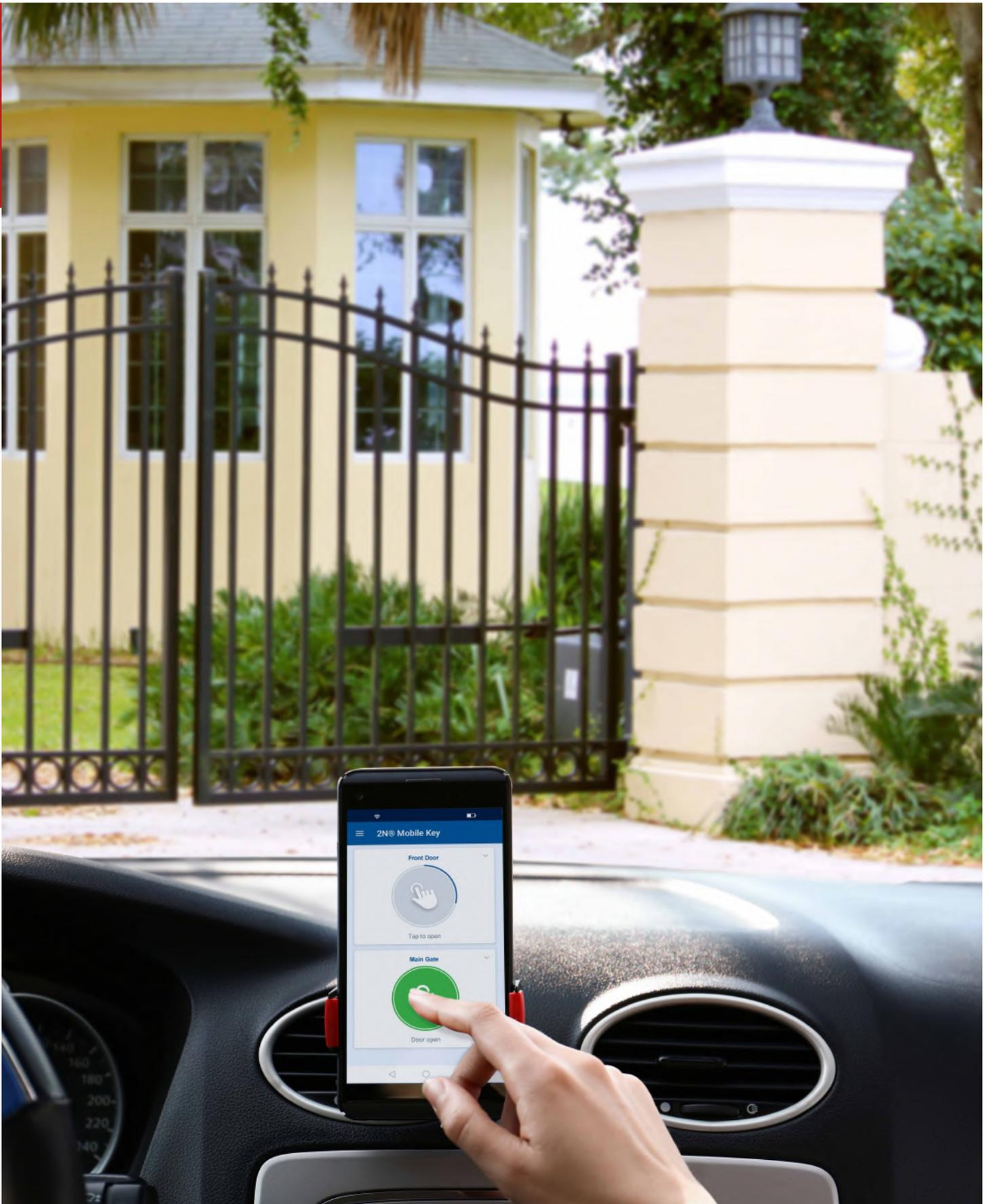


IK8



ANTI  
VANDAL





WHEN RAIN CAN'T SPOIL YOUR MOOD

# 2N® MOBILE KEY

A smartphone can become the main control element of your house and key for the common areas in the premises or entrance gate. In real life, this means residents can open the gate from the comfort of their cars while it is raining. The response of the reader when it communicates with a mobile phone is immediate. And what if someone loses their smartphone? The access data can easily be blocked to prevent misuse, and new access data can be loaded onto a new mobile.



Mobile application as a virtual access card, free of charge



Lightning-fast entry thanks to WaveKey, patented mobile access technology



Communication distance with a setting of 1.64 to 32.8 ft



Flexible generation and distribution of access data



Encrypted communication between the mobile phone and reader



Application easy on the battery of the mobile phone



UNOBTRUSIVE BUT EXTREMELY SMART

# 2N<sup>®</sup> IP SOLO

An intercom that can be integrated into smart household systems is very important for modern houses. Remote access control via a mobile phone is standard. The camera, with infrared lighting and motion detection, takes a photo of a potential intruder without problems even at night and sends the photo to a mobile phone. The intercom can also be used to check the arrival of children home. Children ring with a single press of a button, the parents see them through their mobile phone app and let them inside.



Stylish design fitting the design of the house



Reliable remote door opening using the mobile application



Hidden HD camera with night vision



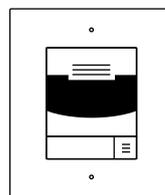
Motion and loud noise detection



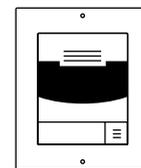
Sending photos of unexpected visitors by email



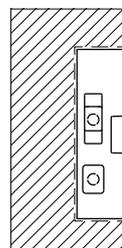
Option of connecting to a household automation system



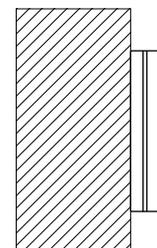
6.02 × 5.12 × 0.20 in



5.12 × 4.21 × 1.10 in



In walls



On surfaces



IP54



IK8



ANTI  
VANDAL





LOOK AT THEM!

# 2N® INDOOR COMPACT

A high-quality response unit is essential for safe and reliable communication. The house owner must be informed about the situation at their door or the entrance gate to the premises. This is achieved by switching between the view from the intercom camera and the external camera at the main entrance or elsewhere. In the owner's absence, missed calls are recorded with a photo of the visitor. Setting the "Do not disturb" mode at night is standard.



HD audio and 4.3" colour display



Overview of the video from the intercom camera



Substitute for a land line used for communication within the family



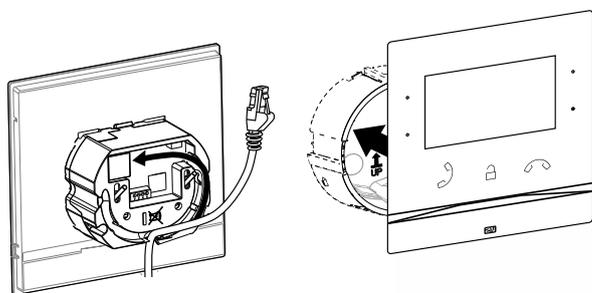
Intuitive control for all household members



Switching between the intercom camera and the external camera



"Do not disturb" feature for uninterrupted evenings and nights



5.98 × 6.02 × 1.97 in

Due to the same installation box, easy substitution with 2N® INDOOR TALK or 2N® INDOOR VIEW



IN THE PICTURE FROM ANYWHERE

# 2N<sup>®</sup> MOBILE VIDEO

Residents can monitor the situation in front of their house during holidays. This smart application allows them to check the view from the intercom camera on the house or to speak to visitors. They can grant entry to a neighbour who waters plants for them. All this is possible with minimal data consumption. The preset automation in the intercom can be activated in a similar manner. Playback of a preset message can discourage potential burglars. Since the application is adequately secured, the data is completely safe.



Take calls from the intercom even from the other side of the world



Access control for the house even when residents are not present



Monitor the situation in front of the house from anywhere and at all times



Application for iOS and Android mobile platforms



Switch between the external camera at the entrance and the intercom camera



The fastest and most reliable on the market, 99.9% of calls connected







IP54



IK8



ANTI  
VANDAL



NO KEYS, NO STRESS

# 2N ACCESS UNIT 2.0

Security in the common areas of buildings is essential for all projects. To ensure easy installation and connection of the system, it is best to choose readers with an interface open for integration. This simplifies administration of the entire access solution significantly. Nobody wants to carry additional keys for the shared playground or other facilities. Simplified movement in buildings using mobile phones or fingerprints can be the boast of every new project. Setting time profiles makes taking care of the premises easier and increases their security.



Secure access to common areas of the premises



Various levels of verification according to time profiles



The latest technologies for access without keys such as WaveKey or fingerprint



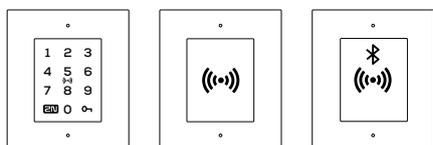
Readers with a design matching the intercoms



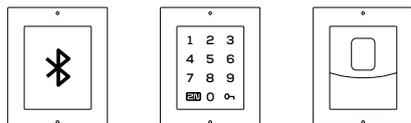
Anti-vandal design suitable for outdoor installation



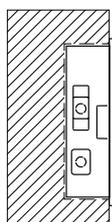
Installation of products in walls, on surfaces or glass



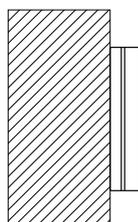
6.02 × 5.12 × 0.20 in



4.06 × 4.21 × 1.10 in



In walls



On surfaces





# SINGLE-FAMILY HOUSES



## **FRONT DOOR**

An office in a family house is no exception. To secure privacy at home, a quality door communication system which clearly separates the workplace is a must.

## **HOUSEHOLD**

A family can take control of cameras, air-conditioning, blinds and communication with visitors from a single location, a smart control panel.

## **NOT AT HOME?**

A smart application on the resident's mobile phone ensures calls from the door are accepted. Visitors can reach the home owner even while the owners are in the garden hosting a party.

## **SMALL OFFICE**

The workplace at home might not need more than an audio answering unit. However, it doesn't mean it cannot be stylish and include functionalities appreciated even by the most demanding.

## **GARAGE**

Is it raining? The garage door can be opened remotely from the comfort of a vehicle with a mobile phone.

## **RECOMMENDED INTEGRATION:**

 **CRESTRON**

**SAVANT**

Control 



**FIBARO**

**LOXONE**



IP65



IK7



ANTI  
VANDAL



ONE HOUSE, ONE HOME, ONE OFFICE

# 2N<sup>®</sup> IP BASE

Those who have their home and office under one roof must have a good quality door communication system which clearly divides the entry to both sections of their house. A simple intercom with two buttons and a basic access system can do this. Guests will simply identify the bell they should ring. The intercom includes a high definition camera to allow the owner to check who is standing at the door. The rest of the family needs to be able to enter the house easily with their mobile phones or an RFID card.



Two buttons for calling the separate areas of the house



Cost saving quick installation



Entry with a card or mobile phone



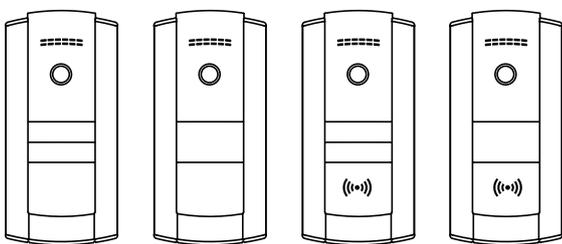
Wide-angle camera for monitoring visits



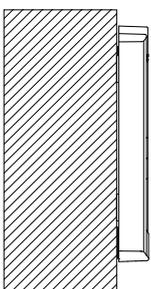
Connection between the intercom and the house automation system



Good quality structure which is durable in different weather conditions



4.29 × 8.54 × 3.27 in



On surfaces



BE IN CHARGE OF YOUR SMART HOME

# 2N<sup>®</sup> INDOOR TOUCH 2.0

These days, it is hard to imagine that each smart device used to have its own controller. Now we can communicate with visitors and open doors for them while pulling the blinds down or controlling the heating from the same device. A single smart answering unit can do this. This central element of a smart household must fit in with the interior design of the house. Good quality materials are just as important. The surface of the unit should be able to withstand any impact from a child's toy, the display must show video in the best quality and the unit should produce crystal clear sound.



Answering unit as a central element of a smart household



Simple control thanks to the 7" display



Android operating system with support for third-party applications



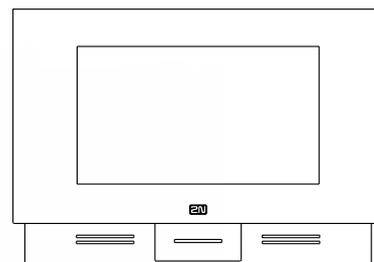
Wi-Fi versions allowing wireless connection



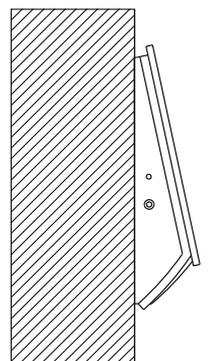
Tilted display for great readability of all information



Video recording for playing back missed calls



9.25 × 6.50 × 1.57 in



On surfaces



reddot award 2017  
winner





OPEN THE DOOR WITH EASE

# 2N<sup>®</sup> MOBILE VIDEO

Homeowners like to spend time in the garden, for example while holding a garden party. However, they cannot pay attention to their guests if they constantly have to go to open doors for new arrivals. This can be solved with an application linked to the entry intercom. Visitors are put through to residents within moments, in the same manner as video calls. Residents in the house can identify the visitor before answering the call and switch over to the external camera to see them better before letting them in.



Open the gate from anywhere, even from the garden



Video overview of the visitor before answering the call



30-day trial for testing the application



Small investment for the great convenience of controlling entry



Missed-call logs with images of visitors



Open multiple locks, for example in gates and doors



JUST ENOUGH SPACE IN THE HOME-OFFICE

# 2N<sup>®</sup> INDOOR TALK

Certain parts of the house, such as the study or the workshop, need a stylish audio answering unit only. A unit with a glazed surface and large backlit indicators meets these requirements. In addition, the resident can use this to call another unit in the residential section faster than with a mobile phone. Quality audio ensures that communication with visitors is at the highest possible level. The simple setting of the “do not disturb” feature, for example at night, is standard. Interconnection with a mobile phone can be additionally used if the resident wants to look at the visitor.



Crystal clear sound for intelligible communications



Mobile device application for a flexible extension to monitor and control entry remotely



Intuitive control with large backlit icons



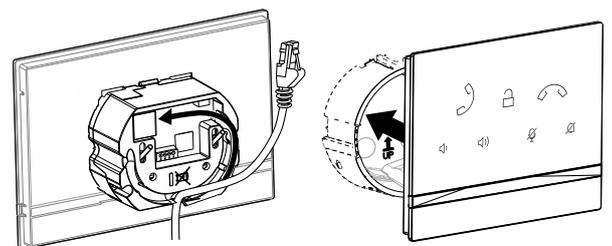
Different ringtones for calls from various devices



Calls to the intercom and another answering unit in the house



Hardened 0.12-inch thick glass with an anti-scratch finish



7.28 × 5.04 × 1.90 in

Due to the same installation box, easy upgrade to 2N<sup>®</sup> INDOOR COMPACT or 2N<sup>®</sup> INDOOR VIEW





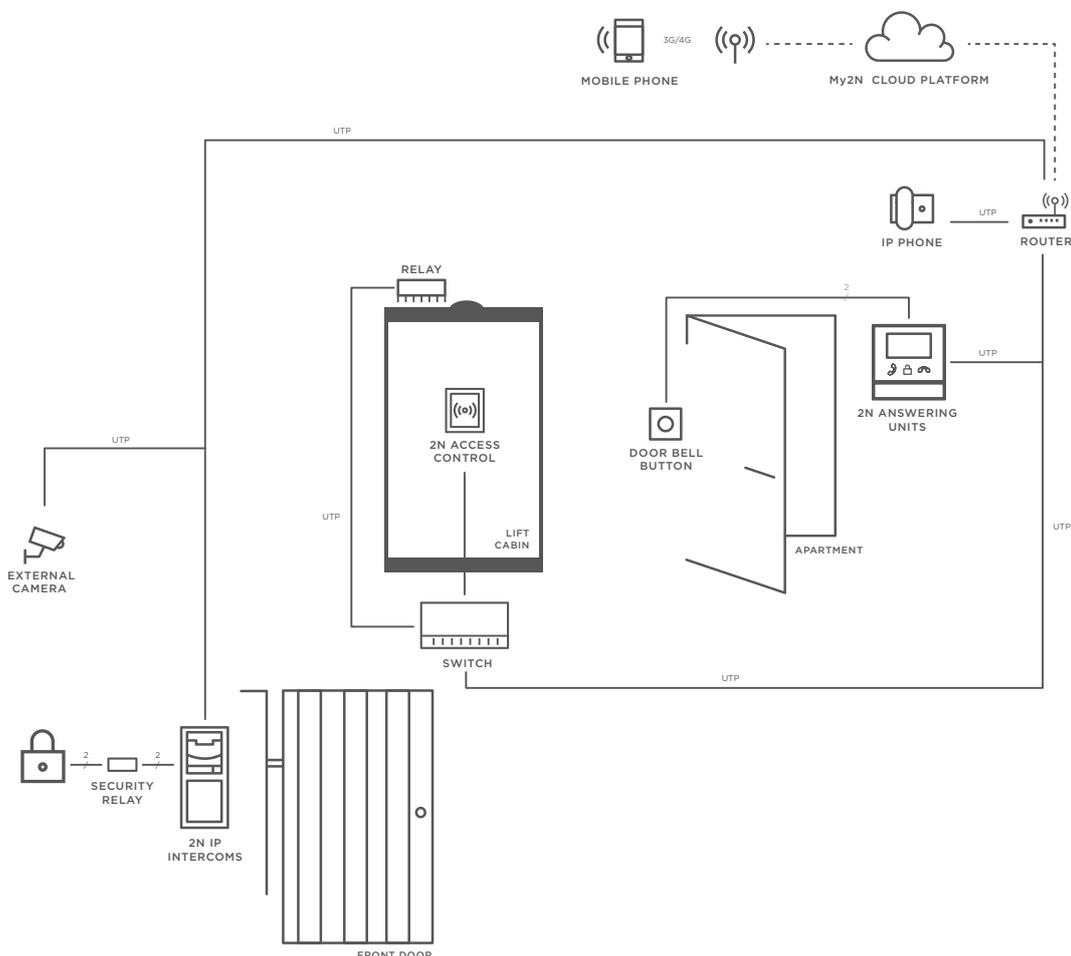
# 2N TOOLS

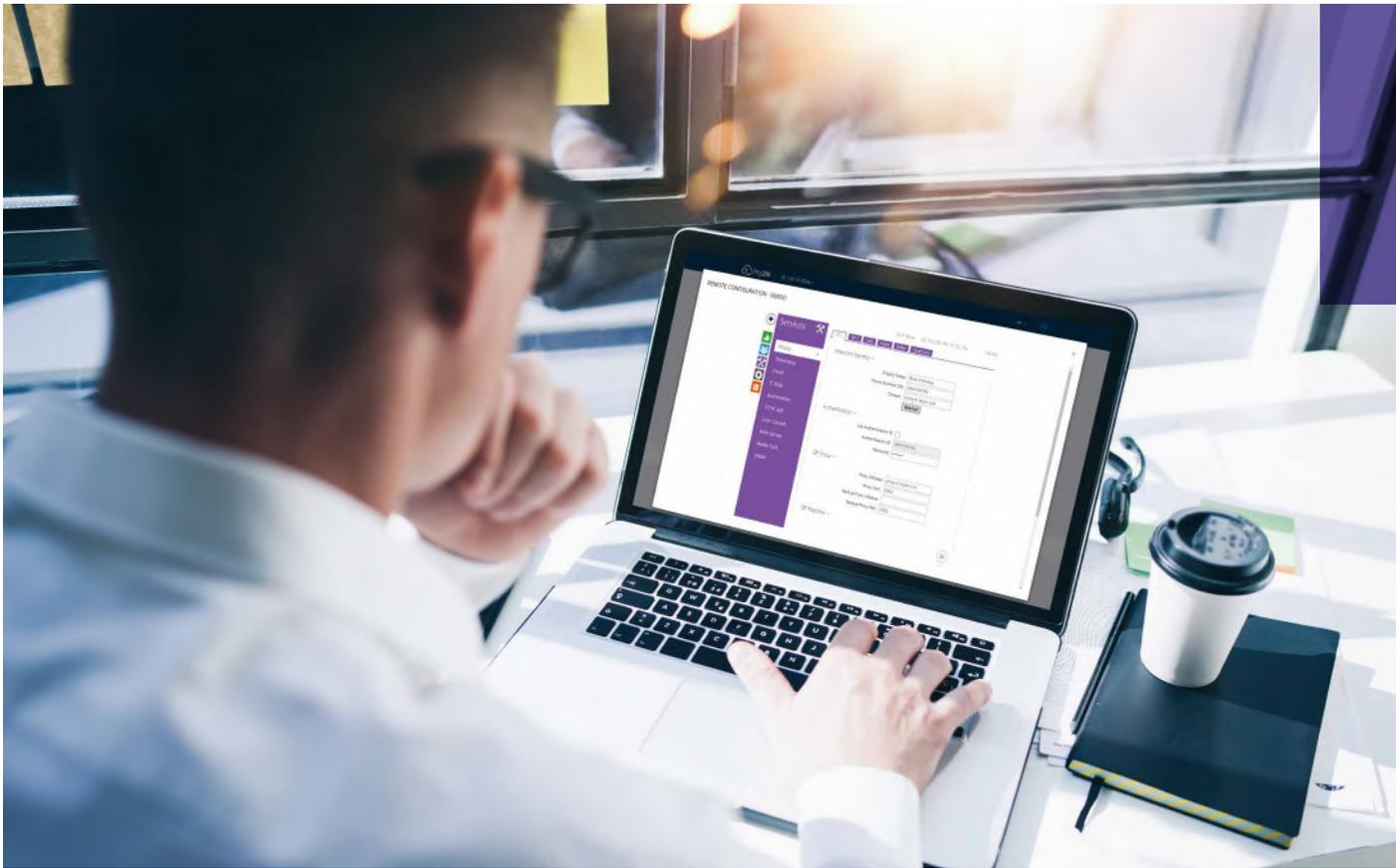


# MY2N CLOUD PLATFORM

The My2N cloud platform offers the administration and configuration of all 2N devices from a single location – and much more. Its basic building blocks are reliability, security and stable performance. These are precisely the elements which allow you to set up all 2N devices throughout the whole building remotely, in real time.

Which intercom should make a call to which location? Should it also call a mobile phone at the same time it calls the answering unit? This can easily be set up via a secure channel over the internet. This means that there are no call-out costs for service technicians to work on site, and the speed of repairs is increased many times over. The use of all of these benefits is completely free of charge.





## 2N<sup>®</sup> REMOTE CONFIGURATION

Configure 2N devices remotely over the internet wherever you are via the My2N portal. Free of charge!

No need for network setup

Free of charge service

Save on travel costs and administrate remotely from the office

Secure connection

24/7 intrusion and performance monitoring

Real-time synchronization of each device

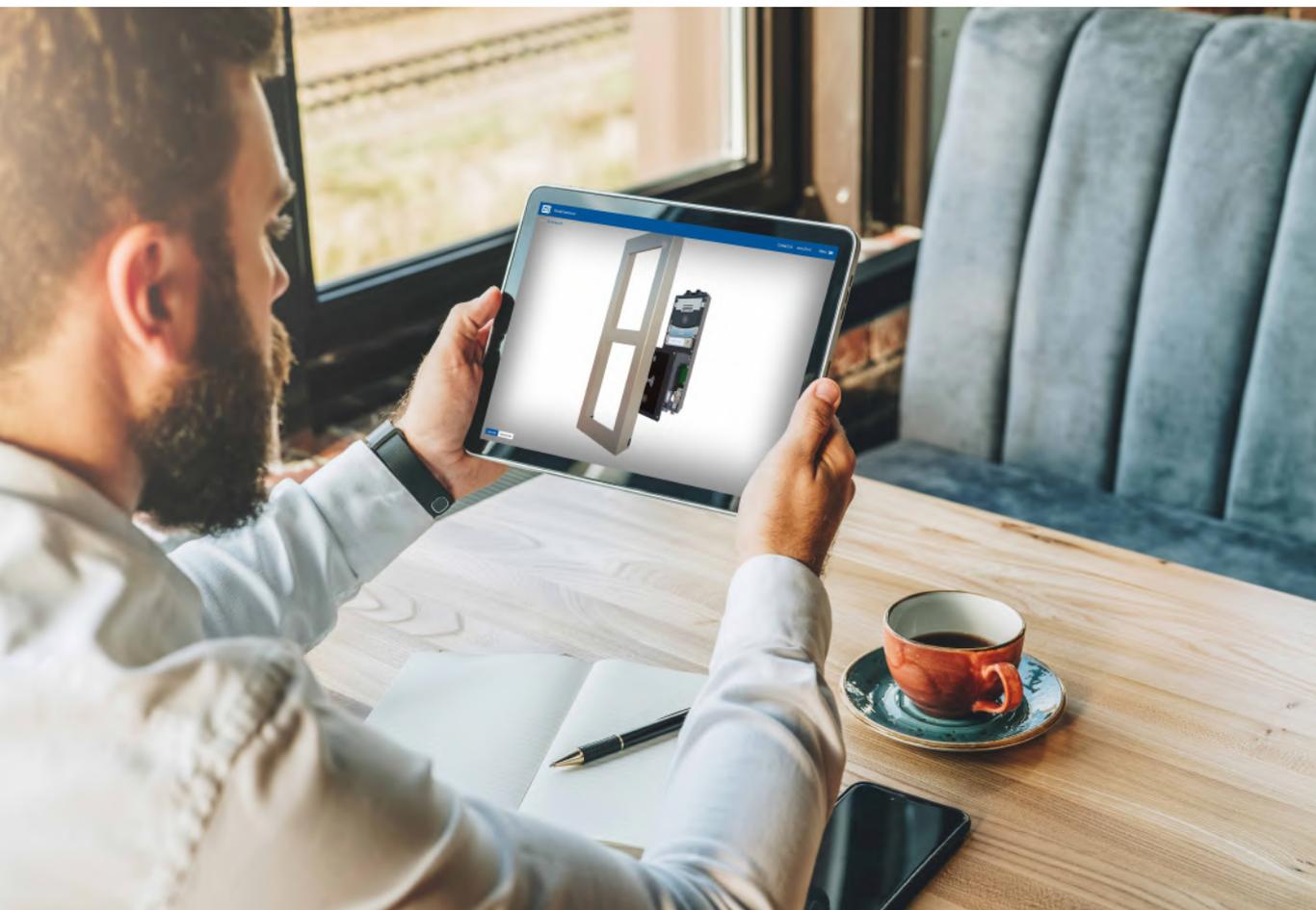


# 2N VIRTUAL EXPERIENCE

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Immerse yourself in a virtual tour of a building with installed 2N products. Take a 3D walk through an apartment building or a single house. Discover new places where you haven't thought to install 2N devices and offer your customers a comprehensive IP solution for access control and door communication.

Have any of the products caught your eye and you would like to find out more about them? Click on the product and you'll see several options. Rotate it 360° to take a look from all sides. Disassemble it and check the parts it's made up of. Or simply download important documents about the product.



# 2N PROJECT DESIGNER

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Create your door entry solution project quickly and easily. 2N Project Designer is a step-by-step guide for you and your customers to easily put together a complete door communication and access control solution.

Simply choose 2N intercom configurations to match the features you need. Combine them with 2N answering and access units and add accessories or licences. Once finished, you can export a list of items as a PDF file, including pictures, typical installation scheme and recommended services. Alternatively, save the project for further editing or send its link to the 2N representative for consultation.





More info available in our 2N Integration HUB

# 2N INTEGRATION HUB

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Residential projects are fully equipped with the latest technologies which raise the comfort of the people living there. Integration with systems for home automation is the biggest advantage of 2N products. Visit our new web platform, the 2N Integration HUB, to see how easy it is to integrate 2N products into your project.



Video Surveillance



Package Delivery



Home Automation



Property Management



Building Automation



Mobile app for residents



# FOR ARCHITECTS AND PROJECT PLANNERS

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We would like to make your work as easy as possible. We have therefore prepared everything you will ever need to implement a project. Take advantage of the documents and save your time on project specification.

## **Specification for project planners**

Our specifications include everything from a general description and standards and certification of the product for each solution's unique features. All you need to do is copy the sections required for the project you are preparing.

## **CAD drawings**

We have prepared 2D drawings of our products for you. They even have dimensions and are available in .dwg and .pdf formats.

## **BIM objects**

Incorporate our system into your BIM model. We have a library of BIM objects for our products containing their visualisation and behavioural data.

## **Project consultancy**

Do you need help choosing the right products or need advice on the solution you are proposing? Contact our team of pre-sales experts for free.



# 2N ACADEMY

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Free of charge, whenever you want it and wherever you are – these are the benefits of online study at the 2N Academy. The new portal offers an ideal place to familiarise yourself with 2N's products and gain confidence in the processes for installing and configuring them. Through our series of online webinars and interactive courses, anyone can become a professional. Once completed, you will be awarded a certificate as evidence of the knowledge you have acquired.



Portal in several language versions



Immediate, automatic approval of participation in webinars



Online and offline study options



Interactive courses



Training materials in one place



Certificate awarded on completion of study, completely free of charge





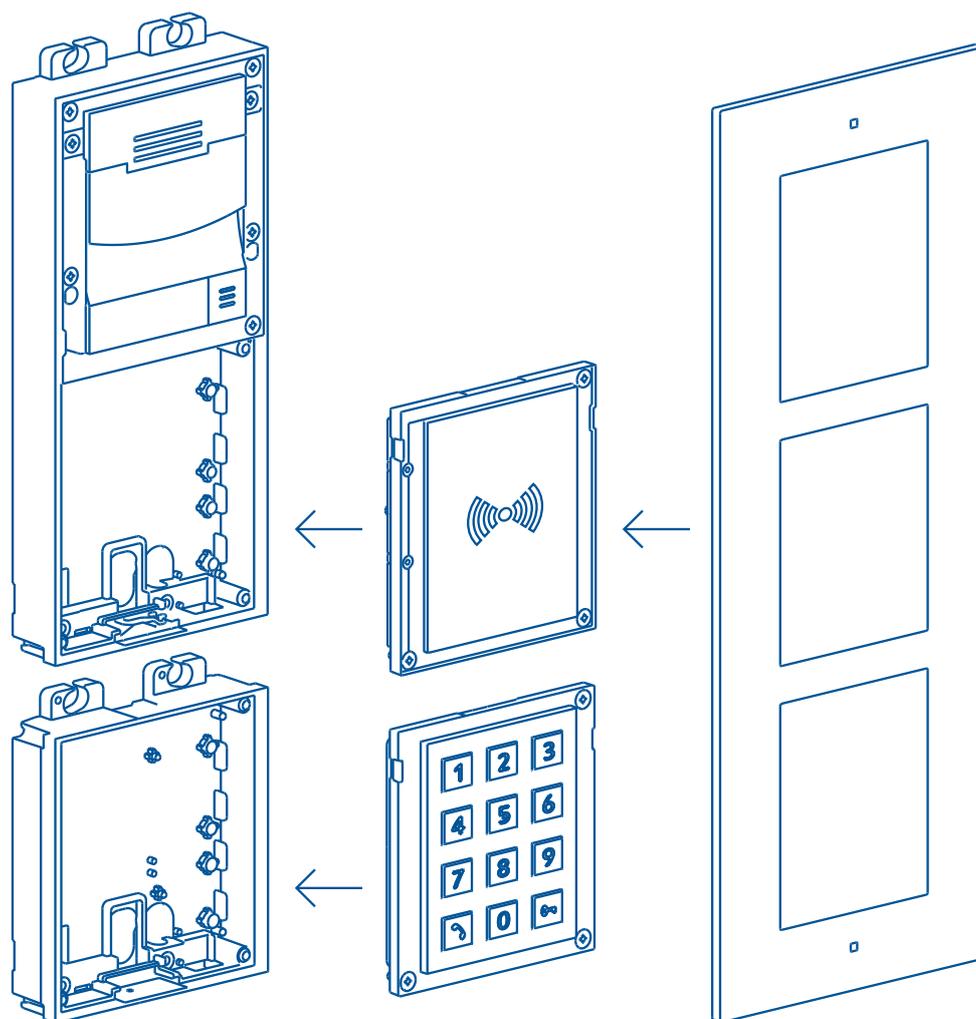


# COMPARISON TABLES

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)	6.69×13.98×1.57 in	4.21×9.21×1.10 in (2 modules)	4.21×9.21×1.10 in (2 modules)	4.21×5.12×1.10 in	4.29×9.01×1.22 in	4.29×8.54×3.27 in	4.29×8.54×3.27 in
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

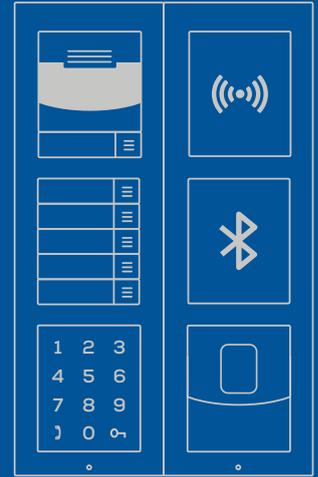
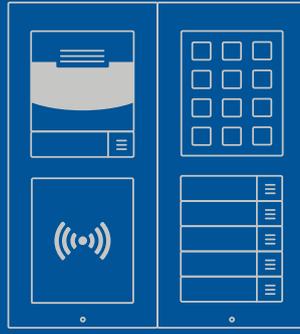
ANSWERING UNITS	2N® Indoor Touch 2.0	2N® Indoor View	2N® Indoor Compact	2N® Indoor Talk
Display	yes, 7"	yes, 7"	yes, 4.3"	no
Display resolution (pixels)	1024 × 600	1024 × 600	480 × 272	---
Unit control	capacitive touch display	capacitive touch display	capacitive buttons	capacitive buttons
Integrated 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	9.25 × 6.50 × 1.57 in	7.6 × 6.18 × 1.97 in	5.98 × 6.02 × 1.97 in	7.28 × 5.04 × 1.90 in
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



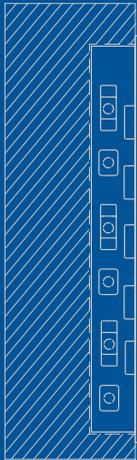
Build your intercom exactly as you need it - 2N® IP Verso and 2N® LTE Verso can be adapted to anyone's wishes.

MODULARI

## INSTALLATION



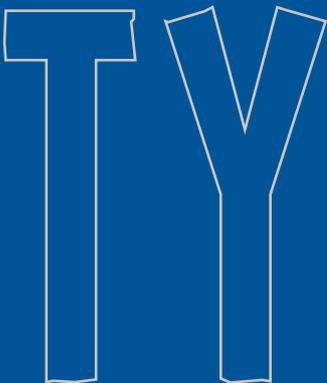
## IN WALLS



## ON SURFACES



Dimensions (in)	Flush-mounted			Wall-mounted		
	W	H	D	W	H	D
1 module	4.21	5.12	1.10	5.12	6.02	0.20
2 modules	4.21	9.21	1.10	5.12	10.12	0.20
3 modules	4.21	13.35	1.10	5.12	14.21	0.20



## MODULES



Keypad



5 Buttons



Bluetooth Reader



RFID Reader



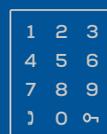
Bluetooth & RFID Reader



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	01274-001
		Nickel	01273-001
	Without camera	Black	01272-001
		Nickel	01271-001
2N® LTE Verso Main unit - 1 button	With camera	Black	01791-001
		Nickel	01792-001
<b>Mounting Accessories</b>			
Flush-mounting frames	1 module	Black	01279-001
	1 module	Nickel	01278-001
	2 modules	Black	01281-001
	2 modules	Nickel	01280-001
	3 modules	Black	01283-001
	3 modules	Nickel	01282-001
Flush-mounting box	1 module		01284-001
	2 modules		01285-001
	3 modules		01286-001
Surface-mounting frames	1 module	Black	01288-001
	1 module	Nickel	01287-001
	2 modules	Black	01290-001
	2 modules	Nickel	01289-001
	3 modules	Black	01292-001
	3 modules	Nickel	01291-001
Backplate	1 module		01293-001
	2 modules		01294-001
	3 modules		01295-001
	2(w) × 2(h) modules		01296-001
	3(w) × 2(h) modules		01297-001
	2(w) × 3(h) modules		01298-001
	3(w) × 3(h) modules		01357-001
Wedge Backplate	2 modules		01940-001
Gang Plate	1 module		01524-001
	2 modules		01525-001
<b>Extending modules</b>			
Touch Display			01275-001
Bluetooth Reader			01266-001
Bluetooth & RFID Reader	Secured		01639-001
Fingerprint Reader			01276-001
Touch Keypad			01277-001
Touch Keypad & RFID Reader	Secured		01638-001
RFID Reader	125 kHz		91550941
	13.56 MHz secured		02141-001
Keypad		Black	01254-001
		Nickel	01253-001
5 Buttons			01258-001
Induction Loop			01263-001
Blind Panel			01261-001
Infopanel			01252-001
Tamper Switch			01260-001
I/O Module			01257-001
Wiegand Module			01259-001
<b>Accessories</b>			
Extension cable	3.28 ft long		01267-001
Extension cable	9.84 ft long		01268-001
Extension cable	16.40 ft long		01269-001
Blind button			01270-001
Blind button	Black		01523-001
External Antenna	For 2N® LTE Verso		01943-001

## 2N® IP STYLE

Item	Features	Order No.
Main Unit	125 kHz, secured 13.56 MHz	02407-001
<b>Accessories</b>		
Surface-mounting backplate		02406-001
Flush-mounting box		02405-001

## 2N® IP SOLO

Item	Features	Colour	Order No.	
Main unit	Surface mount	with camera	Black	01302-001
			Nickel	01301-001
		without camera	Black	02202-001
			Nickel	02203-001
	Flush mount	with camera	Black	01303-001
			Nickel	01300-001
		without camera	Black	02204-001
			Nickel	02205-001
<b>Accessories</b>				
Flush-mounting box			01304-001	
Backplate			01305-001	
Wedge backplate			02077-001	
Glass mount			02078-001	

## 2N® IP BASE

Item	Order No.
Main unit	01357-001
<b>Accessories</b>	
125 kHz Card Reader	01358-001
13.56 MHz RFID Card Reader	01359-001
Backplate	01360-001

## 2N® IP FORCE

Item	Features	Order No.
With HD camera	1 button	01337-001
	1 button, keypad	01339-001
	4 buttons	01343-001
	2 buttons, card reader ready	01340-001
	1 button, pictograms, card reader ready	01334-001
Without camera	1 button	01336-001
	1 button, keypad	01338-001
	4 buttons	01342-001
	2 buttons, card reader ready	01341-001
	1 button, pictograms, card reader ready	01335-001
<b>Accessories</b>		
125 kHz RFID card reader + tamper switch		01344-001
13.56MHz card reader NFC ready + tamper switch, secured		01730-001
Brick flush-mounting box		01348-001
Plasterboard flush-mounting box		01349-001
Gooseneck stand		01351-001

# AND OTHER INFORMATION

## 2N® IP SAFETY

Item	Features	Order No.
Main unit	2 buttons - Info and SOS, 10W speaker	01354-001
	1 button, 10W speaker	01353-001
	Red emergency button, 10W speaker	01355-001
<b>Accessories</b>		
Brick flush-mounting box		01348-001
Plasterboard flush-mounting box		01349-001
Frame		01356-001
Gooseneck stand		01351-001

## 2N ACCESS UNIT M

Item	Features	Order No.
2N® Access Unit M RFID	13.56 MHz, NFC ready	02393-001
2N® Access Unit M RFID	125 kHz & 13.56 MHz, NFC ready	02394-001
2N® Access Unit M Bluetooth & RFID	125 kHz & 13.56 MHz, NFC ready	02395-001
2N® Access Unit M Touch Keypad & RFID	125 kHz & 13.56 MHz, NFC ready	02396-001

## 2N ANSWERING UNITS (ANDROID OS)

Item	Colour	Order No.
2N® Indoor Touch 2.0	Black	01668-001
	White	01669-001
2N® Indoor Touch 2.0 Wi-Fi	Black	01670-001
	White	01671-001
<b>Accessories</b>		
Presentation stand	Black	01425-001
	White	01426-001

## ACCESSORIES

IP videophones	Order No.
IP telephone Yealink SIP T58A	01586-001
<b>RFID tags (for Verso and Force)</b>	
Card EMarine RFID 125 kHz	01395-001
Key EMarine RFID 125 kHz	01396-001
Card Mifare RFID 13.56 MHz	01384-001
Key Mifare RFID 13.56 MHz	01385-001
<b>External card reader RFID</b>	
External RFID card reader 125kHz & 13.56 MHz (USB interface)	01400-001
External Bluetooth reader (USB interface)	01402-001
External fingerprint reader (USB interface)	01401-001
External RFID card reader secured 125 kHz & 13.56 MHz (USB interface)	01527-001
<b>Other</b>	
NVT PoLRE LPC Switch	02318-001
NVT PhyLink Adapter Pack	02319-001
2N® IP Security Relay	01386-001
2N® Induction Loop	01391-001
Power supply 12V/1A for 2N® Induction Loop	01393-001
2N® 2Wire	01404-001
IP relay - 1 output	01397-001
IP relay - 4 output	01398-001
Magnetic Door Contact	01388-001
PoE+ Injektor	02410-001
PoE injector	01403-001
<b>Other licences</b>	
Informacast	01381-001

## 2N ANSWERING UNITS (2N OS)

Item	Colour	Order No.
2N® Indoor View	Black	02087-001
	White	02088-001
2N® Indoor Compact	Black	01935-001
	White	01936-001
2N® Indoor Talk	Black	01698-001
	White	01699-001
<b>Accessories</b>		
Installation box		01700-001
Surface installation box (N/A for 2N® Indoor Talk)		02320-001
Desk stand		02039-001

## 2N ACCESS UNIT 2.0

Item	Features	Order No.
2N® Access Unit 2.0 RFID	125 kHz	02137-001
	13.56 MHz secured	02142-001
	125 kHz, 13.56 MHz secured	02146-001
2N® Access Unit 2.0 Bluetooth & RFID	125 kHz, 13.56 MHz secured	01851-001
2N® Access Unit 2.0 Touch Keypad & RFID	125 kHz, 13.56 MHz secured	01852-001
2N® Access Unit 2.0 Fingerprint Reader		02263-001
2N® Access Unit 2.0 Touch Keypad		02262-001
2N® Access Unit Bluetooth		01368-001
<b>Frames</b>		
Flush installation 1 module	Black	01279-001
	Nickel	01278-001
Surface installation 1 module	Black	01288-001
	Nickel	01287-001
<b>Accessories</b>		
Flush-mounting box		01284-001
Backplate, 1 module		01293-001
Gang Plate 1 module		01524-001

# SUCCESSFULLY IMPLEMENTED PROJECTS

## A TRADITIONAL VILLA PACKED WITH THE TECHNOLOGY OF THE FUTURE

After renovation, an old villa near Munich was transformed into a modern smart home. The video intercom at the entrance has a hidden HD camera and Bluetooth reader, allowing the residents to always be aware of what is happening at the front of the building and providing the convenience of opening the door with a smartphone. If the residents happen to be in the garden, they can also use this feature to make video calls with visitors at the entrance gate. The solution is reliable and provides security and convenience.



Medientechnik  
**FURTNER**



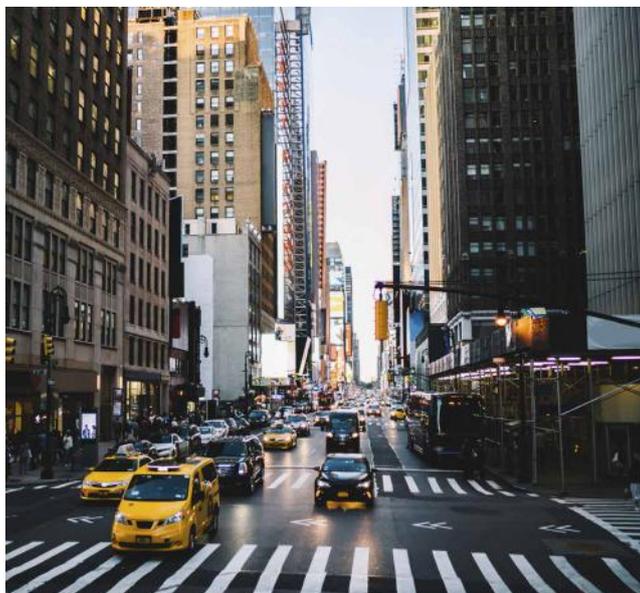
## ONE SYSTEM FOR A THOUSAND SMART HOMES

La Cloche d'Or in Luxembourg is a hyper-modern residential district of the future. 1,200 flats are equipped with an advanced smart home system which allows an access control solution by 2N to be easily integrated. Residents can even monitor and control their entire flat remotely. The developer also praised the simplicity behind central management and the option to set functions according to the individual requirements of each of the thousands of residents.

**DOVIT**

## HOW TO FIND A RELIABLE DOORPERSON IN MANHATTAN

The residents of a building on Fifth Avenue in New York were not happy with their expensive and ineffective reception service. Thankfully, a smart network solution with integrated 2N products fully replaced the need for a doorman. Installation of digital video intercoms, access control using a mobile application, and above all, the introduction of digital access keys ensured control over movement in the building and a higher level of security for communal areas.



## YOU CAN ALSO BE SAFE IN A HISTORICAL BUILDING

The residents of a building in the centre of Milan demanded modern security but insisted on preserving the historical character of the elegant building. A 2N network system with minimalist design resolved the issue elegantly. Keys were replaced with smart cards and elegant readers, and an unobtrusive access video intercom which features a built-in camera with night vision and stylish touchscreen display was installed at the entrance.



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