



HEALTHCARE
solutions



SECURITY
solutions



ENTERTAINMENT
solutions

2026 General
catalogue



Access the
latest version
here

2026 General Catalogue

Version 1.05: October 2025

Further information can be found in
the General Terms of Trade and at
www.alcadelectronics.com

 **ALCAD**

BECAUSE BEING CONNECTED IS A GOOD SIGN

We present a new catalogue:
**unified, simpler, more efficient
and adapted** to all your needs

Connections are key. They unite people both with each other, and with the technology that facilitates their daily lives. In our case, they're also part of our very essence: we work with signals that ensure health, safety and entertainment in the residential and hospital sectors.

In this context, and with a desire for continuous improvement, we've taken a step forward to offer you a simpler, more comprehensive experience with the very best in customer service.

We've therefore unified our three main product families into a single catalogue: ACCURO (security and communication in healthcare environments), DES (audio and video door entry systems and access control) and MMTV (reception and distribution of TV signals).

The result is our new general catalogue, which we present in a single document, facilitating consultation and planning.

We hope that these developments will make your work easier. **Because the important thing is to stay connected.**



35+ YEARS OF HIGH QUALITY

SINCE 1988 WE HAVE BEEN MANUFACTURING
“MADE IN EUROPE” PRODUCTS WITH **AENOR CERTIFICATION**
THAT RESPECT THE **ISO9001 STANDARD**

SPECIALISTS
IN **EMBEDDED,
INTELLIGENT
AND CONNECTED
SYSTEMS**



WE HAVE **ASSEMBLY LINES FOR SMD COMPONENTS** AND AUTOMATED
ADJUSTMENT OF ALL PRODUCT
PARAMETERS



WELCOME

CONNECTED TO THE ESSENTIALS

We would like to welcome you to a new catalogue that represents so much more than just a collection of products. This document is a reflection of a transformation — a renewed way of understanding the essence of our daily life.

We at ALCAD have been working for over three decades with a clear mission: to improve the quality of life through technological solutions that guarantee health, safety and well-being. We achieve this through experience, constant innovation and a global vision that drives us to continue growing, without forgetting our industrial roots and our commitment to excellence.

This new unified catalogue perfectly respects this spirit. We have simplified processes, eliminated duplications and reorganised our product families (ACCURO, DES and MMTV) to offer you a more agile, efficient and useful tool. A tool that not only allows you to find what you need, but also to better understand how our solutions can help you in your daily life.

Our vision is clear: we want to be a benchmark in embedded, intelligent and connected communication systems. But above all else, we wish to be a company that is approachable, committed and aligned with the real needs of our customers and society in general.

We will continue to work with that goal in mind: to develop purposeful technology that connects people, places and experiences. Because every connection is an opportunity to make a positive impact.

Thank you for your continued trust in us. And thank you, above all else, for being part of this journey.

Beñat Zudaire Balerdi
CEO

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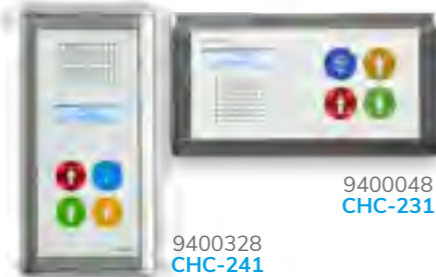
Product index

HEALTHCARE SOLUTIONS

IP terminals

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TOUCH ROOM TERMINALS



VANDAL-PROOF ROOM TERMINALS



TOUCH MANAGEMENT SCREEN



TOUCH TERMINAL



MULTI-ROOM TERMINAL



RECEIVER FOR BATHROOM ALARMS



Mechanisms

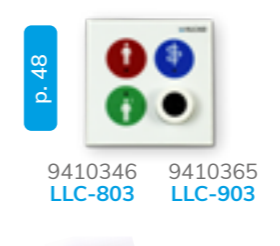
BED UNITS AND HANDSETS WITH MAGNETIC CONNECTORS



WARNING LAMPS (SQUARE)

SEN-XXX

PASSIVE AND ACTIVE SQUARE BED UNITS AND HANDSETS



RECTANGULAR BED UNITS



VANDAL-PROOF PUSH BUTTON



RFID READER

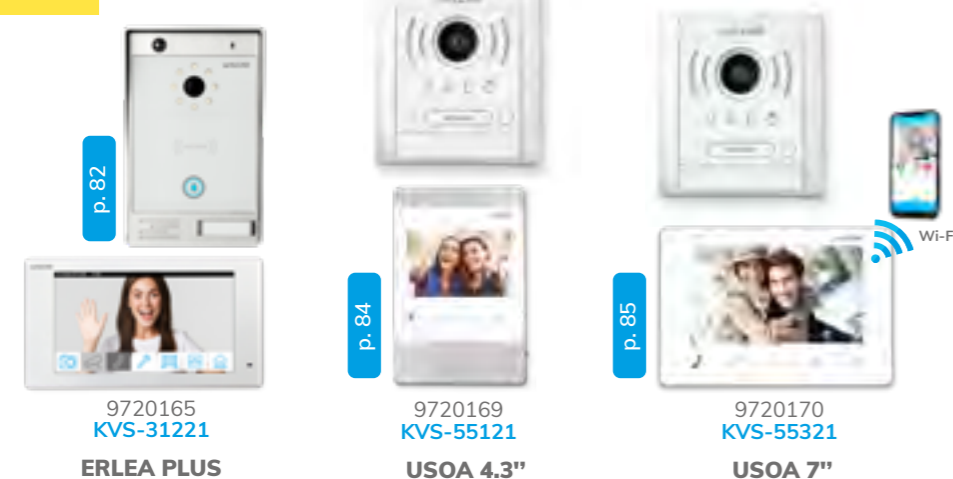


NURSES' STATIONS



SECURITY SOLUTIONS

Kits

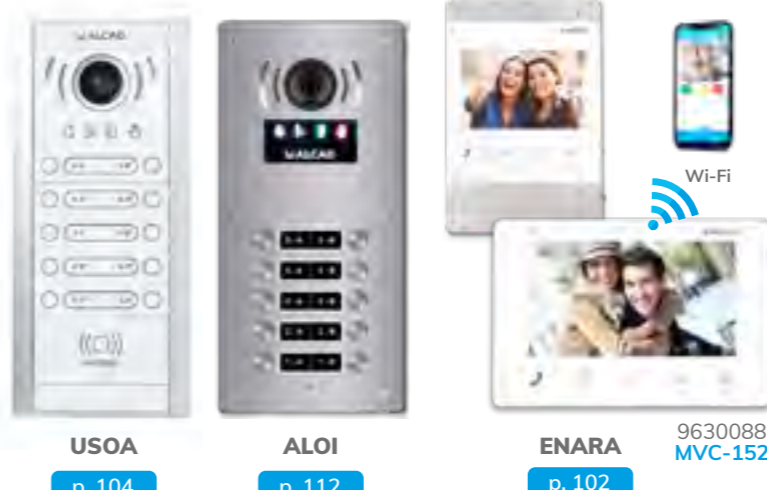


IPAL

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2 wires



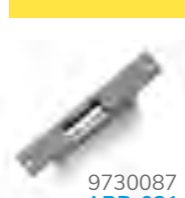
Digital



4+N



iACCESS



Keychain



ENTERTAINMENT SOLUTIONS

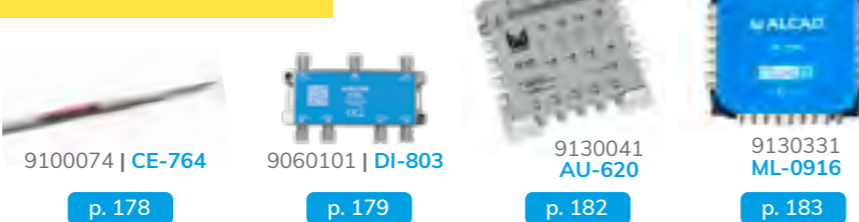
Antennas



Amplification



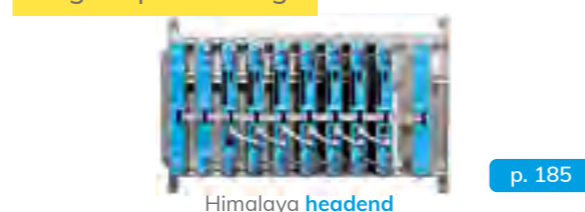
TV-SAT distribution



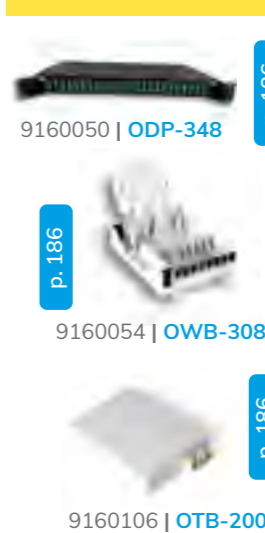
Fibre optic TV-SAT distribution



Signal processing



ICT distribution



IPTV



INNOVATING FOR PEOPLE SINCE 1988

We bring signs of life to the digital world to **improve your health, safety and entertainment**

For over 35 years, we've been capturing and translating everyday communications into the digital realm — to **improve health, safety, and entertainment**.

Our solid and highly competitive infrastructure enables us to offer **quality European products and technological systems**.

We are also one of the few manufacturers in Spain to have its own R&D&I area with an **in-house approval laboratory**, giving us great flexibility when designing and launching new products.

We are thus able to design and manufacture **reliable, agile, robust and innovative solutions**.

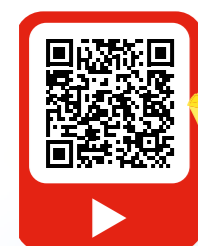
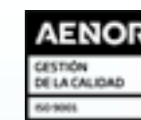
MADE IN
SPAIN

We export
to over 60
countries on
all 5 continents



IRUN

We are an international company with headquarters and a factory in Irun (Spain), as well as commercial subsidiaries located in our strategic countries



Come fly with
us through
ALCAD



ELECTRONIC HEART, INDUSTRIAL HEARTBEAT

We specialise in **embedded, intelligent and connected communication systems** that ensure care for people and living spaces.

At ALCAD, we are committed to innovation to improve people's lives, ensuring health, safety and entertainment in hospitals, nursing homes and homes all over the world..

Our products aren't just electronic gadgets — they embody human trust in technology.

We connect the things that matter most

We continue to evolve, seeking to connect the things that matter most: people, places and experiences.

■ **People:** we facilitate communication in hospitals, nursing homes and homes, connecting those who need it most.

■ **Places:** we protect spaces with video door entry systems and access control.

■ **Experiences:** we transform entertainment with high-end multimedia solutions.

HEALTHCARE

Our security and communication systems for hospitals, nursing homes and other facilities enable more efficient and humane care, connecting patients and professionals at the right time.

SECURITY

With our video door entry systems, standard door entry systems and access control units, we provide security solutions to make any space safer and more reliable.

ENTERTAINMENT

Our multimedia and TV solutions offer signal reception and distribution technology to ensure that every home enjoys the very best in entertainment.

We draw upon



Over 35 years of experience



A team of the first rank



European design and production



Our diversification



Personalised customer service



In-house laboratory: guarantee of quality and reliability



An extensive sales network

TESTIMONIES

Our experience, our voice: get to know the vision of those who make the company possible



Nerea Arandia
R&D Director

Our commitment to our customers and our culture of innovation drive us to improve every day. At ALCAD we work as a team to learn, evolve and optimise our products, ensuring that they are adapted to the customer's needs. Continuous improvement and adaptability enable us to continue to add value in an ever-changing market.



Abilash Jothishkumar
Office Manager
ALCAD Middle East

Leading the branch in my region has been a challenge full of new responsibilities, but the support from my colleagues has been incredible. This experience has allowed me to grow professionally and bring a new dimension to my career. We differentiate ourselves by our flexible pricing and excellent after-sales service and support. After six years at ALCAD, I can honestly say this is a place where we're given the freedom and opportunity to shine in what we do.



Ana Romero
Production Technician

What I appreciate most about ALCAD are its values — especially the strong customer focus and the constant drive for improvement. My experience has been very rewarding — as part of a company where innovation is key, I've benefited from a continuous learning process, motivating me and allowing me to continue growing professionally. I'd also highlight our wide range of products, all designed to make life easier for the end user.



Gonzalo Bahamonde
Regional Director North
West Prescription

ALCAD is a company with a great potential for growth, both economically and technologically, which gives us unique opportunities to grow professionally. I knew from day one that I was in the right place and I still feel the same way. My experience here has been intense and dynamic, and that makes it a lot of fun. In addition, our products and services offer outstanding innovation and quality.



Agustín Arzuaga
Production Manager

What I value most about working here is the close-knit atmosphere, the excellent facilities, and the fact that our ideas truly matter. Over the years, my journey has been incredibly rewarding — moving through various roles for the past decade before being promoted to Production Manager. What makes it even more fulfilling is that we design our own products, tailor them to meet our customers' needs, and provide dedicated technical support to installers.



Enara Navarro
Planning Technician

I love being able to work close to home, eat at home when I want and enjoy perks such as my own parking space and the summer timetable. I felt welcome right from the start, and in my experience there's always someone willing to listen and help. Although I have no direct experience with our services, I'm aware that the Sales Team is constantly training to improve the customer experience.



Gonzalo de la Torre
DES Technical Manager

I value many things about ALCAD, but two things stand out for me: the human aspect, and the type of products we manufacture, because they provide the solutions that society needs. I've been here for over 25 years (you could say I've grown up here), but what I appreciate the most is our ongoing evolution — it's a constant learning process. Lastly, I'd like to highlight the support we provide to our customers and the quick response when any problem arises.



Amaia Lekuona
Head of Software / Firmware

Working at ALCAD is synonymous with teamwork and collaboration with colleagues, especially when it comes to finding solutions to critical situations in the market. Over the years, we've overcome challenges and learned both personally and professionally — a highly enriching experience. Our staff work tirelessly to improve the quality of our products and services.

HEALTHCARE SECTOR

TECHNOLOGY THAT CARES FOR PEOPLE

Innovative solutions for the hospital and nursing home sectors

COMMUNICATION WITHOUT BARRIERS

The ACCURO platform revolutionises communication in hospitals and nursing homes. Designed to streamline care, it allows patients and professionals to be connected at all times, improving safety and efficiency in care.

TAILORED ENTERTAINMENT

Our IPTV solution provides a personalised entertainment experience in hospitals, nursing homes and other buildings, allowing patients to access a wide range of on-demand content, relevant medical information and even interactive services from their own room.

RELIABILITY IN ANY ENVIRONMENT

Our solutions are designed for demanding environments. Robust technology, easy integration and maximum reliability to ensure uninterrupted service.

ACCESS TO THE CATALOGUE OF PRODUCTS:

COMMUNICATION AND SECURITY
FOR THE HEALTHCARE SECTOR

p. 32

COMPLETE SOLUTION FOR
TELEVISION OVER IP NETWORKS

p. 188



RESIDENTIAL SECTOR

CONNECTED, SAFE AND EFFICIENT HOMES

Technology to enjoy and protect what matters most

TELEVISION WITHOUT LIMITS

Our TV signal reception and distribution technology guarantees perfect reception anywhere in the home. With our MMTV systems, enjoy an uninterrupted television experience, with the highest picture and sound quality, via both DTT and satellite.

INTELLIGENT ACCESS CONTROL

DES video intercom, door entry and access control systems offer security and convenience. Open the door with your mobile phone or an electronic key, manage visitors remotely and always be in control of your home, wherever you are.

DESIGN AND TECHNOLOGY IN HARMONY

Our solutions are designed to blend perfectly into any environment, combining state-of-the-art technology with elegant and functional design. Safety, connectivity and aesthetics go hand in hand.

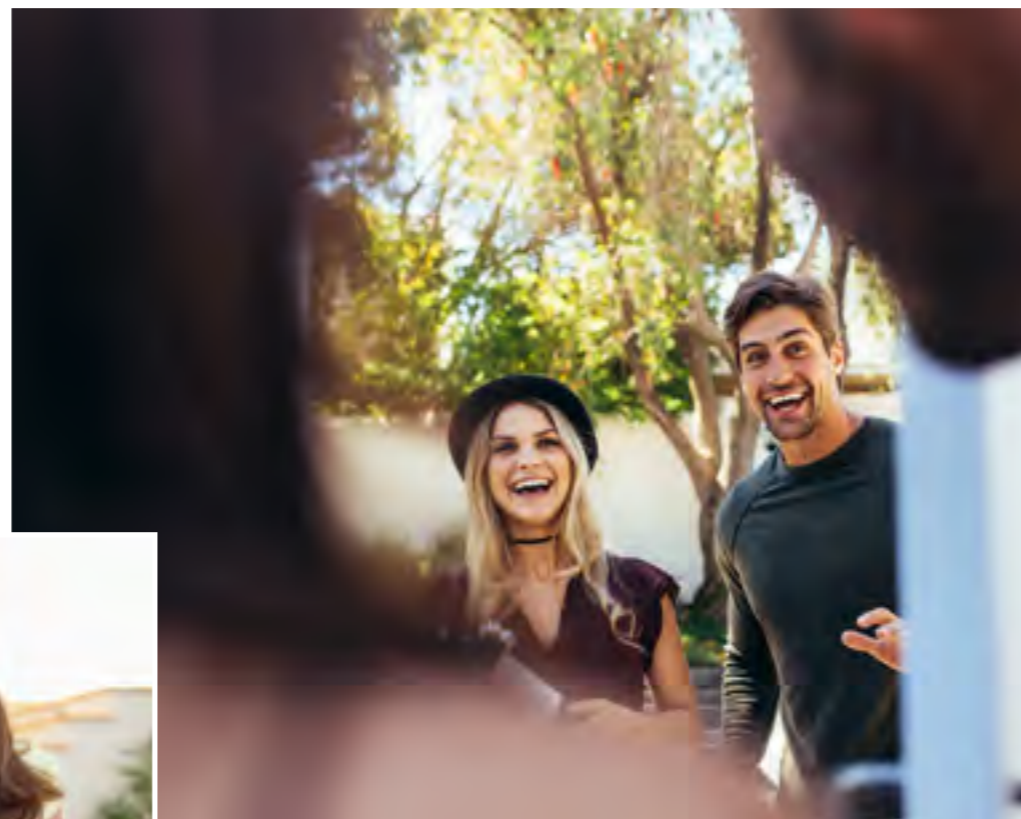
ACCESS TO THE CATALOGUE OF PRODUCTS:

AUDIO AND VIDEO DOOR ENTRY
SYSTEMS AND ACCESS CONTROL

p. 80

RECEPTION AND DISTRIBUTION
OF TELEVISION SIGNALS

p. 162



CASE STUDIES



■ Álvaro Cunqueiro Hospital

Vigo (Pontevedra, Spain)

- Xunta de Galicia public hospital with 600 rooms and 1,100 beds.
- Combines audio and non-audio systems.



■ Can Misses Hospital

Ibiza (Balearic Islands, Spain)

- Public hospital with 175 beds.
- Combines audio and non-audio systems.



■ Virgen de La Concha Hospital

Zamora (Spain)

- Public hospital with over 200 rooms and 330 beds.
- Combines audio and non-audio systems.



■ Bosa Hospital

Bogota (Colombia)

- Public hospital with 215 beds.
- Combines audio and non-audio systems.



■ Central Military Hospital

Mexico City (Mexico)

- Hospital with 675 beds.
- Combines audio and non-audio systems.



■ Clínica General Alemana

Santiago de Chile (Chile)

- Three locations in the country's capital, with a multidisciplinary professional team and the most advanced technology.



■ Hospital IESS Los Ceibos

Guayaquil (Ecuador)

- Public hospital with 182 rooms and 350 beds.
- Combines audio and non-audio systems.

2026 GENERAL CATALOGUE



■ University Hospital Complex

A Coruña (Spain)

- Public hospital with over 500 rooms and 1,341 beds.
- Combines audio and non-audio systems.



■ Cruces Hospital

Bilbao (Biscay, Spain)

- Public hospital with 1,356 beds.
- Combines audio and non-audio systems.



■ University Hospital

Torrejón de Ardoz (Madrid, Spain))

- Public hospital with 250 beds.
- Integrated with ALCAD IPTV prepaid system.



■ The Indus Hospital

Karachi (Pakistan)

- State-of-the-art teaching hospital with over 1,300 beds.
- Launched in 2014, the first phase of this transformative project is expected to be completed in 2026.



■ Health City

Panama City (Panama)

- Public hospital with 1,708 beds.
- Combines audio and non-audio systems. System distributed throughout various buildings and areas of the hospital.



■ Les Maisons Hospitalières de Sénart

Savigny-le-Temple (France)

- This facility offers support to people with mental health problems during their recovery processes, promoting social inclusion. It has 74 beds and an audio system.



■ Hospital IESS Quito Sur

Quito (Ecuador)

- Public hospital with 152 rooms and 264 beds.
- Combines audio and non-audio systems.



■ Yopougon University Hospital

Abidjan (Côte d'Ivoire)

- Hospital with 450 beds. ACCURO will facilitate calls to be received on landlines or mobile phones (smartphones).



La Pereda Residence Hall

Santander (Spain)

- 181 places and 30 day places. Access control has been installed in room doors, IP telephony, ACCURORTs, areas of refuge, etc.



Breathless Montego Bay Resort & Spa

Montego Bay (Jamaica)

- The MULTIMEDIA-IPTV by ALCAD solution is implemented in 163 rooms, with interactive service for guests from their TV remote controls.



Nur-Sultan Grand Mosque

Nur-Sultan (Kazakhstan)

- This is the third largest mosque in Central Asia. Our IPTV solution enables the broadcasting of TV channels to the worshippers in this emblematic temple.



Kabia Residence

Hernani (Gipuzkoa, Spain)

- Residence with 75 rooms.



Hampton by Hilton Hotel

Doha - Qatar

- We have implemented the MULTIMEDIA-IPTV solution in the rooms. The adapted toilets are also equipped with our emergency call system.



Garbera Shopping Centre

Donostia-San Sebastián (Gipuzkoa, Spain)

- The shopping centre has 27 CIC-231 intercoms in its car park to deal with any emergency calls that may occur.



St. Joseph's Mews

Hawthorn (Australia)

- Residence with independent flats. Calls to the nursing team are monitored by the CHC-235.



Iberostar Grand Hotel Portals Nous

Mallorca, Spain

- The MULTIMEDIA-IPTV by ALCAD solution is implemented in the rooms, with interactive service and a user interface customised by the hotel.



Gürsel Aksel Stadium

İzmir (Turkey)

- The stadium, with a capacity of 20,040 spectators, has successfully implemented the ALCAD TV signal distribution system.



La Roselière

Bourg Saint Maurice (France)

- It has 36 flats with audio and 6 areas of refuge.



NH Colón Hotel

Valencia (Spain)

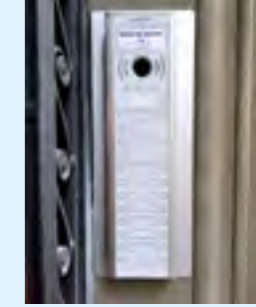
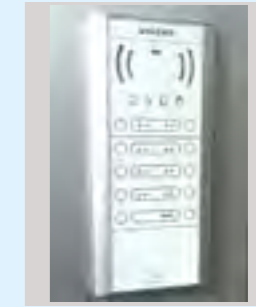
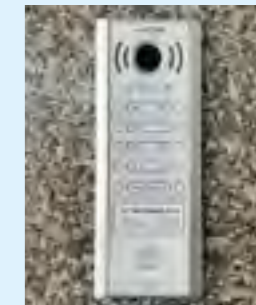
- We provided 17 intercommunication points (16 CIC-231 and 1 CHC-129) to guarantee the security of the guests of this small and exclusive hotel.



Murcia I Penitentiary Centre

Murcia

- The centre, which opened in 1980 and has a capacity of 430 inmates, has 376 CIC-612 anti-vandalism devices in cells, common areas and the infirmary.



Usoa entrance panel

The modularity of our Usoa entrance panel makes it possible to adapt the design to any need, regardless of the number of residents in the property.

NEW PRODUCTS


Enara Monitor 4.3" Wi-Fi

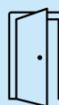
Our flagship monitor will be available in a version with Wi-Fi connectivity, allowing you to **take calls from your mobile phone**.



Wi-Fi


Usoa entrance panel with keypad

The range of Usoa entrance panels expand with a model that will include a **touch screen**, among other new features. Designed for large complexes.


Usoa hands-free telephone

The new hands-free telephone **for homes** will complete the Usoa range.


Module for integration of additional cameras

In facilities, it will allow connection of additional cameras from the **Usoa range**.



New range of IPTV streamers

A complete range of IPTV headends will replace the current references in order to offer a **more comprehensive solution**.



MCA with magnetic connector

The family of **mechanisms featuring audio** will include a magnetic connector and various call options to suit any need.


New RFID reader for ACCURO

With a square format, it will improve the speed of responses and card/tag detection. It will implement various MIFARE protocols.


Active bed unit with magnetic connector

This mechanism combines all the advantages of the magnetic connector with those of ACCURO's own **active communication system**.



ALCAD
PATENTED
TECHNOLOGY

LIST OF ADDITIONAL SERVICES

ALCAD offers a complete catalogue of solutions and resources designed to assist you with each project

PROJECT DESIGN *

The Project Design service aims to define, structure and document the technical solution for any of ALCAD's product lines (ACCURO, IPTV, MMTV, DES), whether for a new installation, extension or revision of the existing system.

Customer advantages:

- Rapid response.
- Zero cost.
- Simple and guided process.
- Ready-to-use documentation.
- Customised and scalable solutions.
- Full traceability.

ALCAD Commitments:

- Delivery of technical documentation and quotation within a maximum of 5 working days for ACCURO and IPTV, and 2 working days for DES and MMTV.
- Alignment with customer's functional requirements.

FACTORY CONFIGURATION **

The Factory Configuration service aims to deliver ACCURO, IPTV and DES* line equipment pre-configured, ready for final installation and operation according to the parameters defined by the customer.

Customer advantages:

- Time optimisation.
- Technical accuracy.
- Reduction of errors.

ALCAD Commitments:

- Complete parameterisation according to customer specifications.
- Technical programming in a controlled environment.
- Documentary traceability.

AT-DESTINATION CONFIGURATION **

The At-Destination Configuration service allows the parameterisation of ACCURO and IPTV line equipment to be carried out remotely and/or in person, once it has been physically installed in the customer's environment.

This service is specially designed for refurbishments, extensions or upgrades of existing installations where it is not feasible to configure the equipment in the factory.

Customer advantages:

- Flexibility to adapt to pre-deployed environments.
- Staff with technical expertise.

ALCAD Commitments:

- Complete parameterisation according to customer specifications.
- Technical programming at destination.
- Documentary traceability.

TELEPHONE TECHNICAL SUPPORT *

The Telephone Technical Support service provides immediate and specialised assistance to installers and maintainers of any of ALCAD's solutions (ACCURO, DES, MMTV and IPTV) during the installation, configuration, commissioning and operation phases of the system.

Customer advantages:

- Personalised service from expert technicians.
- Quick and direct response to solve problems.
- Free service for all customers.
- Operational peace of mind.

ALCAD Commitments:

- Service during ALCAD's working hours.
- Escalation to advanced support if no resolution reached during the call.

ADVANCED TECHNICAL SUPPORT (2ND LEVEL) *

The Advanced Technical Support service provides structured and detailed attention to incidents that cannot be resolved during a telephone call. It is available for all ALCAD product lines (ACCURO, DES, MMTV and IPTV) and allows the management of complex cases requiring in-depth technical analysis.

Customer advantages:

- Specialised assistance for high-level technical problems.
- Formal service channel with guaranteed documentary traceability.
- Free service for customers.

ALCAD Commitments:

- Documented technical management through a ticketing system.
- Advanced diagnostics and remote intervention, if applicable.
- Delivery of technical resolution report.

VERIFICATION OF THE INSTALLATION **

The Verification of the Installation service consists of an on-site technical audit of the ACCURO and IPTV systems upon completion of their installation. Its objective is to confirm that it has been executed in accordance with the project specifications and ALCAD's quality standards.

It allows detection of ANY deviations, errors or deficiencies prior to system commissioning, and is particularly relevant in complex environments or installations executed by non-approved third parties.

Customer advantages:

- Risk reduction.
- ALCAD technical certification.

ALCAD Commitments:

- On-site technical audit.
- Validation of the technical compliance of the system.
- Issuance of verification report.

COMMISSIONING *

The Commissioning service involves supervised technical activation of the ACCURO and IPTV systems once their installation and configuration is completed. It requires the system to be correctly installed to ensure correct performance of the commissioning process.

Its objective is to ensure that all components of the system are operational and that their operation meets the technical requirements of the project.

Customer advantages:

- Quality guarantee.
- Technical efficiency.
- Operational security.

ALCAD Commitments:

- Technical validation of the system.
- Support for resolution of minor incidents during the intervention.
- Issuance of commissioning report.

REMOTE PREVENTIVE MAINTENANCE **

The Remote Preventive Maintenance service is aimed at ACCURO and IPTV line installations. It aims to ensure the operational stability of the system through regular reviews and proactive actions.

The reviews are carried out remotely, according to an agreed schedule, and allow for the detection of potential risks, minor technical adjustments and reliable and continuous operation of the system.

Customer advantages:

- Failure prevention.
- System optimisation.
- Operational peace of mind.

ALCAD Commitments:

- Two interventions per year.
- Review of server status and monitoring of active services.
- Application of patches or scheduled updates.
- Delivery of maintenance report.

EXTENDED WARRANTY *

The Extended Warranty service allows the customer to extend the standard warranty coverage period of any of ALCAD's product lines (ACCURO, DES, MMTV and IPTV), providing support for manufacturing defects and component failures for an additional period of 1, 2 or 3 years.

Customer advantages:

- Long-term peace of mind.
- Savings and control.

ALCAD Commitments:

- Issuance of extended warranty certificate.
- Technical and logistical support for the duration of the contract.

TECHNICAL TRAINING *

The aim of the Technical Training service is to provide in-person or remote training to the various professionals involved in the installation, configuration, maintenance or operational use of the ALCAD systems (ACCURO, DES, MMTV and IPTV), guaranteeing an efficient deployment and an adequate exploitation of each solution.

Customer advantages:

- Professional training adapted to the profile and system installed.
- Improved operational and technical efficiency of equipment.

ALCAD Commitments:

- Preparation and delivery of personalised documentation according to the project.
- Delivery of an official training certificate.

* Consult economic conditions and conditions and availability.

** Service available from 2026.





GENERAL TERMS OF TRADE

The acceptance of orders by ALCAD Electronics S.L. implies the acceptance of the following general terms of trade. These terms take priority over the conditions of purchase that may figure on client order forms or other documents.

1. PRICES

Our unit prices are Ex Works Irún. The price that will be applied is the current price in the country of sale at the date of receipt of order. Orders accepted by our agents are only formalised following our confirmation.

2. TRANSPORT

Transportation costs will be paid for by the client. The risks of transport and problems that could occur during transportation will be at the expense of the client, even when the goods are shipped free delivered. The client will adopt the necessary measures with the transport company the moment the goods are received and will have to confirm by registered letter the event of any loss or damage caused to the goods, and send a copy of the same letter to the shipping agent.

3. DELIVERY TIMES, DELIVERIES, RETURNS AND COMPLAINTS

ALCAD Electronics, S.L. will only accept orders that are confirmed in writing. Delivery times are only indicative and the delays that may occur cannot be held as a cause for refusal of the acceptance of the material or as a cause for compensation.

ALCAD Electronics, S.L. reserves the right to organise the delivery of the goods in one or several shipments, and to invoice the goods in accordance with the agreed terms. No return of material will be allowed without the express prior authorisation of ALCAD Electronics, S.L. In the event that the return of the material is accepted, the goods must be in perfect working condition and in their original packing and sent to us carriage-paid with a photocopy of the authorisation of the return and the initial invoice.

Any complaint regarding the delivered material must be made within the 8 days that follow the reception of the goods.

4. GUARANTEE

The material is guaranteed for two years following the date of the invoice for the ALCAD Electronics, S.L. products to the end client and will be validated by the presentation of the purchase document of the product in question.

The guarantee is strictly limited to the replacement of the materials supplied by ALCAD Electronics, S.L., and

does not cover any damage or breakdowns due to misuse, incorrect installation, or prohibited manipulation or handling of the materials, carried out by the client before returning the goods to ALCAD Electronics, S.L.

This guarantee does not imply any liability on part of ALCAD Electronics, S.L. for compensation or damages whatsoever.

5. TERMS AND CONDITIONS OF PAYMENT

Each of the agreed terms and conditions of payment will be negotiated with the client and confirmed in writing. Any delay in the agreed date of payment could be cause for an additional invoice to cover the costs of delay and damages.

6. RESERVE OF OWNERSHIP CLAUSE

ALCAD Electronics, S.L. reserves the rights to full ownership of the goods until the purchaser has totally satisfied the full payment of the agreed price. The purchaser is obliged to make every effort to preserve and maintain the goods in perfect order and to cover the goods with a fully comprehensive insurance policy. Should the purchaser fail to satisfy any of their obligations, ALCAD Electronics, S.L. may exercise its rights of ownership and withdraw the goods or demand the fulfilment of the obligation of payment.

7. COMPETENT JURISDICTION

For any question relating to the fulfilment or interpretation of the contract or its incidence, the parties, with the express renunciation of any other body or authority that may correspond to them, agree to submit any dispute to the competence of the courts and tribunals in the jurisdiction of our registered head office.

8. CONCERNING THIS DOCUMENT

The revisions of the designs and the manufacturing processes may obligate ALCAD Electronics S.L. to modify some values and specifications of the products. Due to this fact, the technical data included in this General Catalogue are indicative values, as well as the pictures and any drawing or scheme included.

ALCAD Electronics S.L. reserves the right to introduce in their products without any previous notice the modifications considered necessary, this not being prejudicial to their main features. Any data or value considered transcendental when placing an order will have to be previously verified by the purchaser, contacting ALCAD Electronics S.L.

The item codes are subject to changes without previous notice.

This General Catalogue cancels and replaces all the previous ones.



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Communication
and security for the
healthcare sector

Healthcare solutions

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ACCURO WE'RE LEADING TECHNOLOGICAL CHANGE

We design and manufacture **innovative, reliable, robust and agile solutions** to improve well-being and facilitate the work of the attending care professionals

ACCURO is our **100% IP telecommunications and security platform**. It is a real, modular and scalable solution that can be natively integrated with other ALCAD systems.

Main features:

- > Web-based, no installation required.
- > Safe.
- > Traceable.
- > Smart.



Without expensive maintenance or external installations



We provide a 100% IP-based infrastructure to ensure vital signals are captured



Reliable, tried-and-tested solutions — no guesswork

Robust: the data backs us up

ACCURO's robustness has been demonstrated in installations in hospitals on all 5 continents, with **15 years of successful operation**.





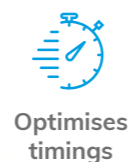
A ROBUST AND VERSATILE TOOL

The nurse call system is the heart of ACCURO: a tool with **multiple installation options and a wide range of devices**, made of premium materials and an antimicrobial flat design

The nurse call system (ACCURO NCS) provides healthcare centres with a robust and versatile communication tool, designed to support the **digitalisation of workflows** — among other benefits.

ACCURO offers a wide range of devices, specifically designed for **intensive use in sensitive environments**:

- > Room terminals.
- > Mechanisms.
- > Nurses' stations.
- > Warning lamps.



Optimises timings



Records actions



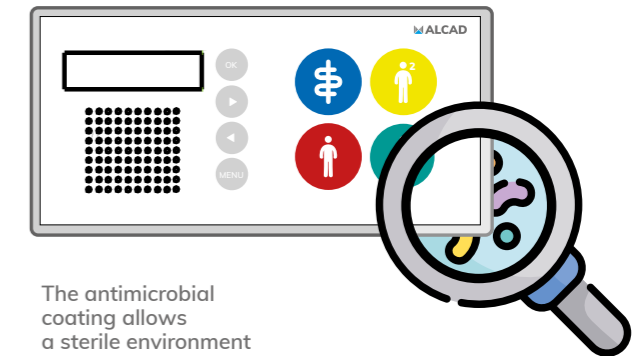
Calms the patient



Reduces costs

Main advantages:

- **Traceability of actions** through identification of personnel (ideal for creating reports, etc.).
- **Full IP** (Poe / 24 VC, existing or dedicated Ethernet network).
- **VoIP**. Compatible with Asterisk. Can be integrated with PBX.
- **Made in Spain**: premium design, top-quality materials.
- **Flat front design**.
- **Antimicrobial coating**.
- **Nurses' stations, either fixed** (touch screen and IP phones) **or mobile** (smartphones, tablets and DECT cordless phones).



The antimicrobial coating allows a sterile environment to be maintained.

A 100% traceable system

ACCUROviewer regulates patient monitoring and management by healthcare personnel. Among other features, traceability makes it possible to obtain reports/statistics on patient monitoring, workflow and workload management.

Suitable for smartphones, tablets and PCs thanks to its HTML5-programmed web technology base, requiring no installation.



The image shows an example of displaying calls and alarms in 'map' format via ACCUROviewer, with indication of alarm levels and patient presence in the room.

#1

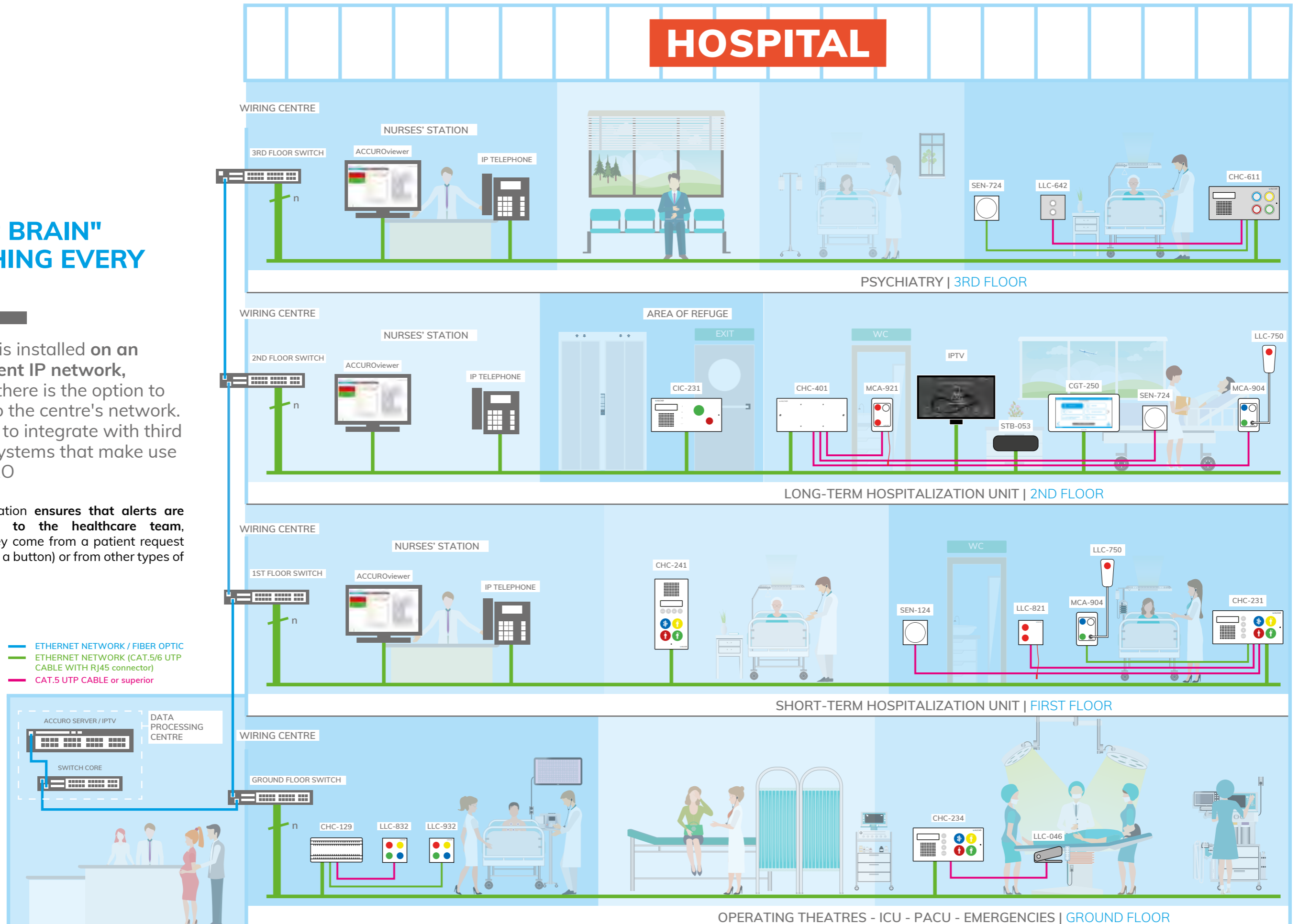
We are the **first manufacturer worldwide** to launch a 100% IP nurse call system

AN "IP BRAIN" REACHING EVERY ROOM

ACCURO is installed on an independent IP network, although there is the option to connect to the centre's network. It is ready to integrate with third party IP systems that make use of ACCURO

It's configuration ensures that alerts are transmitted to the healthcare team, whether they come from a patient request (by pressing a button) or from other types of sensors.

- ETHERNET NETWORK / FIBER OPTIC
- ETHERNET NETWORK (CAT.5/6 UTP CABLE WITH RJ45 connector)
- CAT.5 UTP CABLE or superior



AN EXTENSIVE CATALOGUE

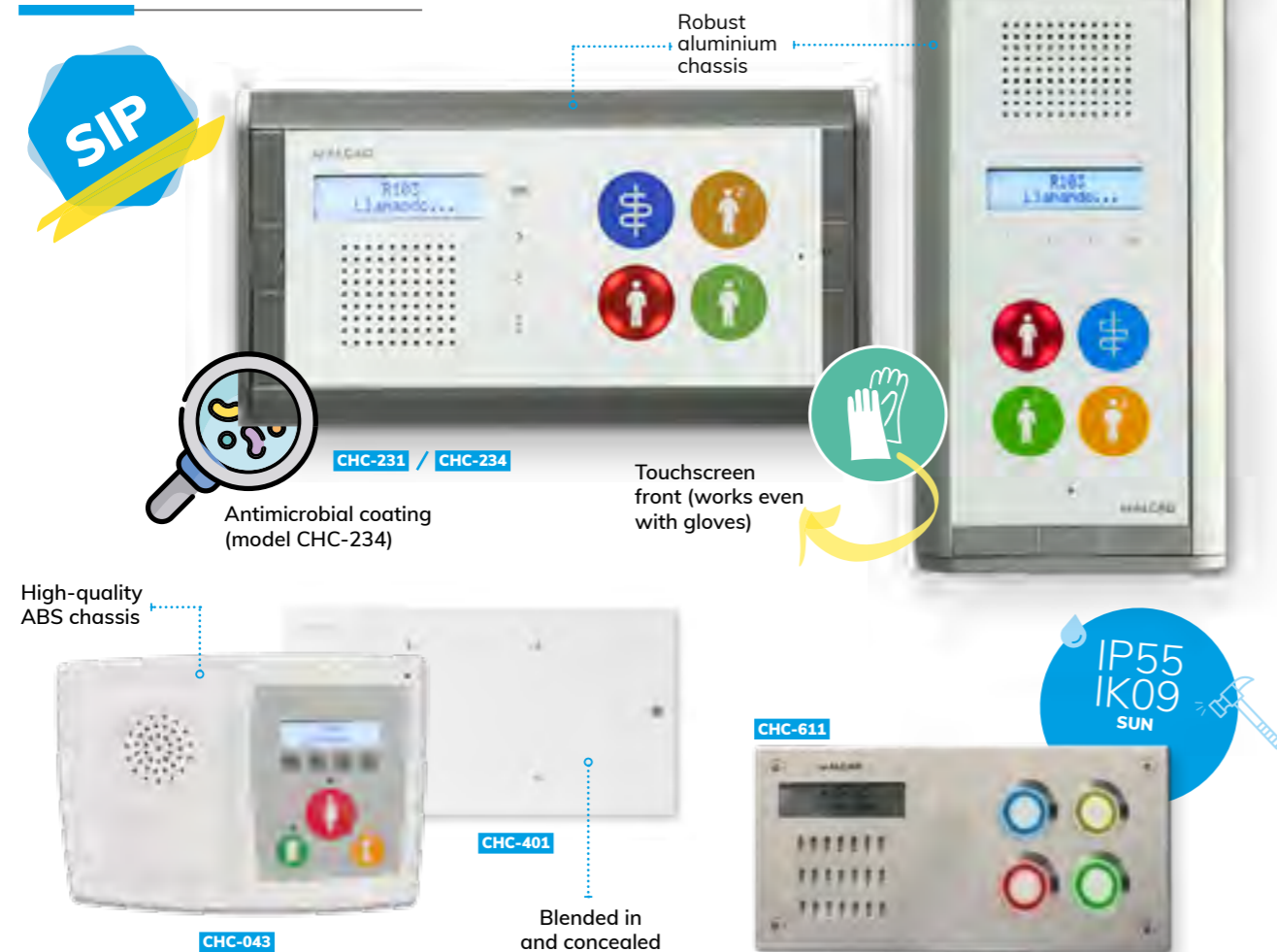
ALCAD manufactures its range of products in Spain, which allows us to offer a more agile, close-to-home service of excellent quality *



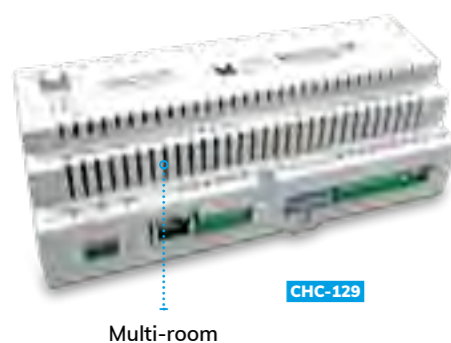
Materials of premium quality

Terminals with audio

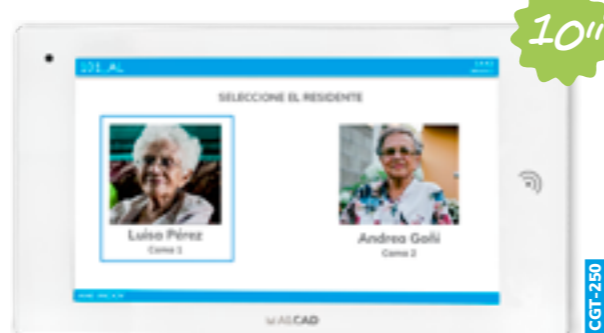
* Full list of products on pages 46 to 59



Non-audio terminal



Touch screen management

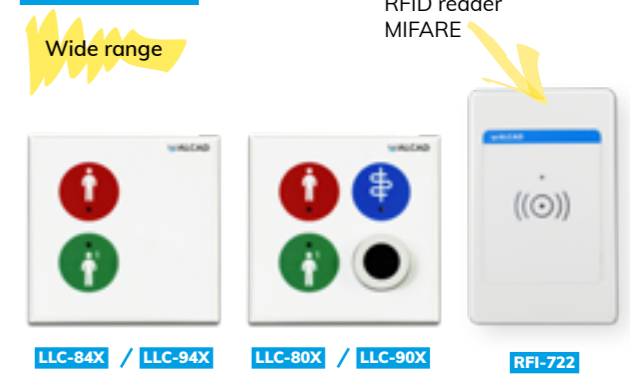


Mechanisms

AUDIO



NO AUDIO



HANDSETS



BATHROOM PULL-CORDS



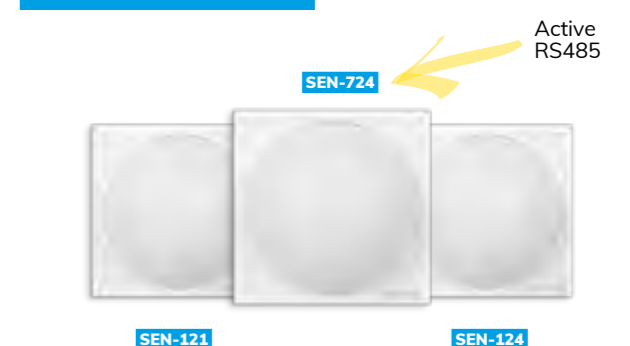
VANDAL-PROOF PUSH BUTTONS



WIRELESS — SENSORS



WARNING LAMPS



ACCUROviewer: AN ALLY OF THE NURSING TEAM

The possibility of combining fixed and portable components makes it possible to create a **more efficient working environment**. This makes the work of the healthcare team as easy as possible

Nurses' stations are one of the key components of the patient-nurse call system, but this means that someone must always be on call.

To facilitate the work of the healthcare team and adapt to the needs of each centre, ACCUROviewer offers **patient monitoring and management** by staff, no matter where they are, by **combining fixed and portable elements** at the nurses' stations.



No need to install any app as it works in HTML5

Optimised work loads

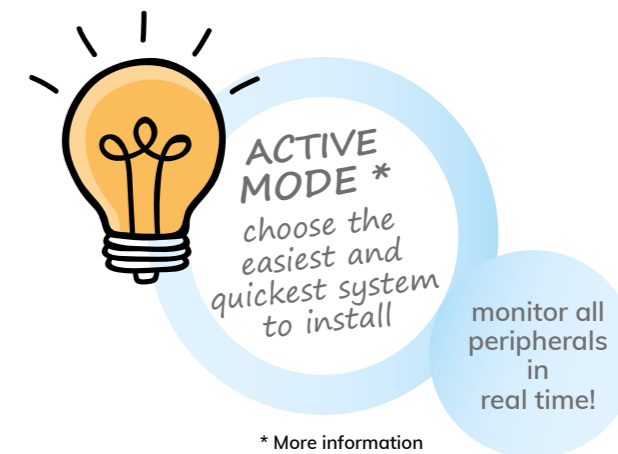
Remote access for entering and updating information helps reduce time spent by avoiding the need for in-person visits to the nurses' station.

ACCUROmanager: CONTROLS THE ENTIRE SYSTEM VIA THE LOCAL NETWORK OR REMOTELY

The **control software is based on web technology** without the need for installables, which avoids system incompatibilities

ACCUROmanager, developed entirely in-house by ALCAD, is the core **maintenance and management tool** used by technical teams — **it constitutes the key to the system's flexibility and robustness** and is fully customisable.

The **maintenance and configuration** of the system can be monitored via the IP network (to access it, you need to be within the ACCURO network).



ACCUROmanager allows for the following actions (by way of example):

- Its **connection** to hospital management systems via XML or other files.
- The **analysis** of all components of the system.
- Customisable error notifications.
- Configuration and personalisation of the system to the characteristics of the centre.
- Produce **security backups**.

Redundant and/or virtualised servers

As an option for increased security, it is possible to configure the servers and system to high availability.



ACCUROmanager allows you to view all system components on a single screen in an orderly, intuitive manner.



LOCATION OF INDIVIDUALS WITH WARNINGS

ACCURORTLS is the indoor tracking system for **identifying, tracking and protecting** all individuals, whether staff or patients

This applies especially where there is a growing need to **optimise** human resources, such as hospitals or health centres.

The system is based on a location antenna and a "tag" (in this case, a bracelet) that can be worn by centre staff or patients. It works via BLE (Bluetooth Low Energy) technology, with an accuracy of approximately 10 metres.

Through the ACCUROviewer software it is possible to view **events** and the **positions** of the tags.

It is possible to **configure alerts, warnings and calls to IP phones and terminals connected to the system through ACCURO**. For example:

■ **Healthcare workers** can send an **SOS call** if they feel endangered by activating their wristband-mounted panic button.

■ **Patients or users** can make a **distress call** if they fall, or in any other case where they need assistance. To do so, they must also activate the button on their wristband.

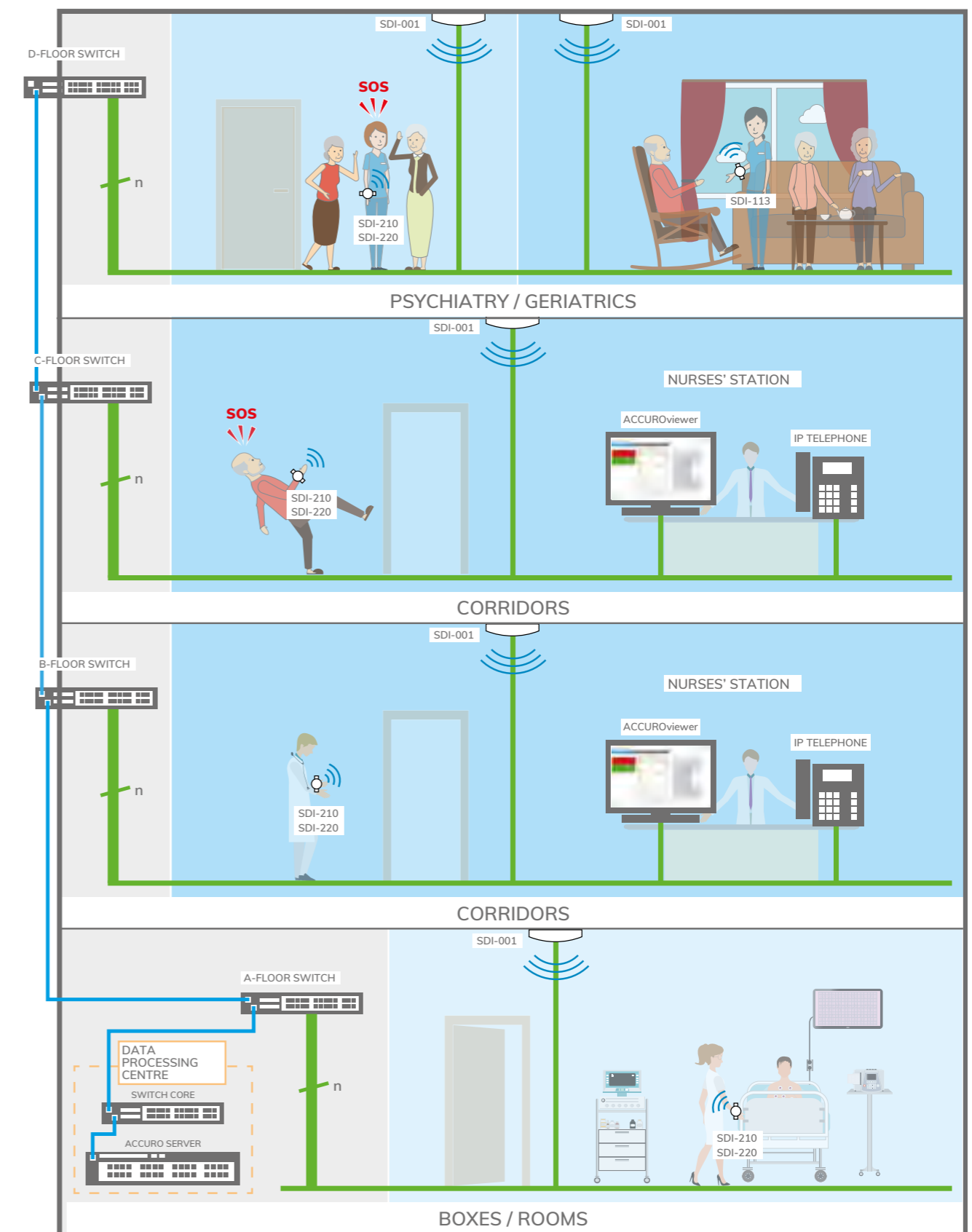


Wristband (SDI-220) and IP67 tag (SDI-210) with SOS button (*)
(*) The photos may differ from the actual products.



Main advantages:

- Increased cost efficiency .
- Optimisation of human resources.
- Improved patient care.
- Native integration with ACCURO for reporting of alerts and calls.
- Locating people vulnerable to disorientation, reducing search time for staff.
- Location of colleagues, avoiding interruptions with calls.
- No Internet connection required.
- No recurring subscriptions.



In all cases, the call is initiated only when the user activates the distress button.



THE IP ACCESS AND DOOR CONTROL SYSTEM

It's all about advantages:

- **For healthcare personnel**, who will be able to open doors with traceability.
- **For the centre**: it greatly facilitates management, adapting to its particular needs. Different types of users can be created, with different permissions and even with permission control at each door.
- **For patients**: their experience is also improved, making them feel more like "guests" and making their stay more pleasant.

The option to create **different types of permits** and even personalise them for each door allows the system to be adapted to the needs of each centre

ACCURoaccess has all the advantages of an access control centre and IP doors with traceability, offering the option to **register and generate reports, perform various queries, etc.**

Its integration into ACCURO offers the centre a patient-nurse call system combined with **access and door control with traceability**, both in the same platform.



SAFETY IN AREAS OF REFUGE AND ADAPTED TOILETS AND CHANGING ROOMS

ACCURoRefugium supports **two-way communication in real time** with the person requesting assistance



ultra-slim and robust design



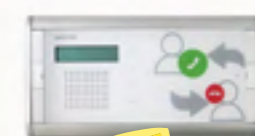
Centralised alarms and alerts



Compatible with ACCURO viewer



Communication with other control panels



ACCURoRefugium includes a **CIC-231 or CIC-611 intercom point** (vandal-proof model, see image) in each area of refuge, along with a **software module** (installed on a server / PC and compatible with ACCUROviewer software).

At the same time, the system allows the installation of warning handles (in bathrooms and/or changing rooms), as well as illuminated handles (in common areas or in bathrooms and/or changing rooms). All of this is centralised and managed from one or more nurses' stations, which may be assigned by area as needed.

If required, the system allows the addition of **DECT-type wireless phones or IP phones or even smartphones**, to increase the mobility of security personnel.

From these terminals, the source of the call can be identified and it will be possible to conduct two-way communication in real time with persons requesting help.



Room terminals

All our CHC-xxx room terminals are compatible with previous ACCURO versions *

* For system extensions or product replacements, the name of the installation must be indicated

IP terminals

CODE	MODEL	DESCRIPTION	MOQ
NON-AUDIO TERMINALS			
9400317	CHC-401	Audio communication central panel	1
9400047	CHC-129	Multi-room room terminal	1
AUDIO TERMINALS			
9400017	CHC-231	Touch room terminal	1
9400328	CHC-241	Vertical touch room terminal	1
9400048	CHC-043	Room terminal	1
9400050	CHC-234	Antibacterial touch room terminal	1
9400303	CIC-231	Touch intercom terminal	1
9400018	RAB-010	Standalone alarm receiver for up to 5 bathrooms	1
VANDAL-PROOF TERMINALS			
9400319	CHC-611	Room terminal with 4 buttons	1
9400310	CIC-611	Stainless steel SOS intercom terminal	1

Room terminals

Accessories

CODE	MODEL	DESCRIPTION	MOQ
9400302	FAC-071	24V-5A power supply, DIN rail	1
9400318	ACC-078	PoE splitter 24VDC 1A for CHC-129	1
9740216	CSU-414	Surface box CHC-24x	1
9400013	ACC-040	Spare part – connection board for CHC-2xx	1
9400046	ACC-048	PoE accessory for CHC-2xx series	1
9400329	ACC-128	Drywall flush-mounting box CHC-241	1
9400305	ACC-133	Surface box CIC/CHC-23x	1
9400306	ACC-137	Metal drywall flush-mounting box CHC/CIC-2xx	1
9400307	ACC-138	Plastic flush-mounting box CHC-401	1
9400038	ACC-608	Output aggregator – 1 block from 8 to 1	1
9400322	ACC-151	Metal flush-mounting box CIC-61x	1



Mechanisms

Passive bed units

CODE	MODEL	DESCRIPTION	MOQ
SQUARE BED UNITS			
9410344	LLC-801	Bed unit with 1 button (call) and DIN8 connector	1
9410345	LLC-802	Bed unit with 2 buttons (call and presence) and DIN8 connector	1
9410346	LLC-803	Bed unit with 3 buttons (call, presence and blue code) and DIN8 connector	1
9410351	LLC-830	Bed unit with 1 button (presence)	1
9410353	LLC-832	Bed unit with 4 buttons (call, first presence, second presence and code blue)	1
9410354	LLC-840	Bed unit with 1 button (call)	1
9415064	LLC-861	Bed unit with 1 button (call) and magnetic connector	1
9415062	LLC-862	Bed unit with 2 buttons (call and presence) and magnetic connector	1
9415063	LLC-863	Bed unit with 3 buttons (call, presence and code blue) and magnetic connector	1
VANDAL-RESISTANT SQUARE ELEMENTS			
9410098	LLC-642	Bed unit with 2 LED buttons (call and nurse presence)	1






















Active bed units


CODE	MODEL	DESCRIPTION	MOQ
SQUARE BED UNITS			
9410363	LLC-901	Bed unit with 1 button (call) and DIN8 connector *	1
9410364	LLC-902	Bed unit with 2 buttons (call and nurse presence) and DIN8 connector *	1
9410365	LLC-903	Bed unit with 3 buttons (call, nurse presence, and code blue) and DIN8 connector *	1
9410370	LLC-930	Bed unit with 1 button (nurse presence)	1
9410372	LLC-932	Bed unit with 4 buttons (call, 1st nurse presence, 2nd nurse presence, and code blue)	1
9415073	LLC-961	Bed unit with 1 button (call) and magnetic connector	1
9415052	LLC-962	Bed unit with 2 buttons (call and nurse presence) and magnetic connector	1
9415044	LLC-963	Bed unit with 3 buttons (call, nurse presence, and code blue) and magnetic connector	1
RECTANGULAR BASES			
9415030	MCA-902	Bed unit with audio, 1 button (nurse presence) and DIN8 connector	1
9415031	MCA-904	Bed unit with audio, 2 buttons (nurse presence and code blue) and DIN8 connector	1
9415027	MCA-942	Bed unit with audio and 2 buttons (call and nurse presence)	1

* If monostable output is required, please indicate B-standard when ordering



Passive components are numbered starting with '8': LLC-8xx
Active components begin their numbering with '9': LLC-9xx

 9410344 LLC-801	 9410363 LLC-901	 9410345 LLC-802	 9410364 LLC-902	 9410346 LLC-803	 9410365 LLC-903
 9410351 LLC-830	 9410370 LLC-930	 9410353 LLC-832	 9410372 LLC-932	 9410354 LLC-840	
 9415064 LLC-861	 9415073 LLC-961	 9415062 LLC-862	 9415052 LLC-962	 9415063 LLC-863	 9415044 LLC-963
 9415030 MCA-902	 9415031 MCA-904	 9415027 MCA-942			
 9410098 LLC-642					

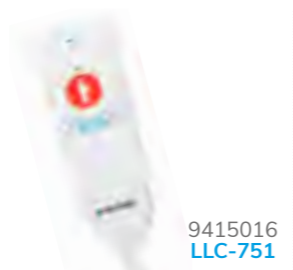
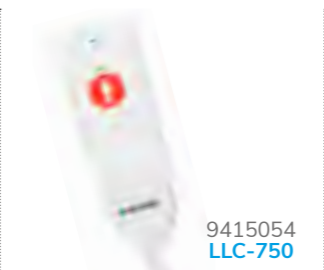


ACTIVE
MODE *
choose the
easiest and
quickest system
to install

monitor all
peripherals
in
real time!

* More information
on pages 60-61

Handsets with DIN8 connectors



Handsets with magnetic connector



Mechanisms



Handsets

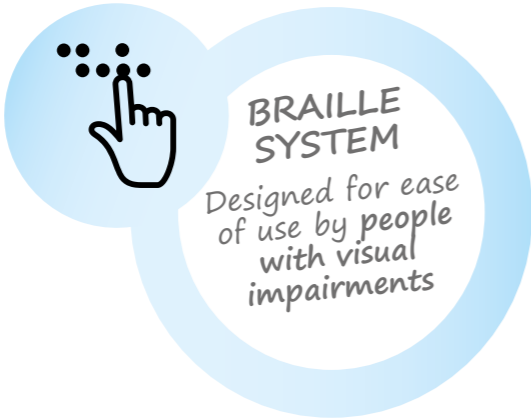
CODE	MODEL	DESCRIPTION	MOQ
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HANDSETS WITH DIN8 CONNECTOR

9415054	LLC-750	Handset with 1 button (call)	1
9415016	LLC-751	Handset with 1 button (call) and 2 buttons (lights)	1
9415020	LLC-752	Handset with 1 button (call) and 4 buttons (lights and blinds)	1

HANDSETS WITH MAGNETIC CONNECTOR

9415045	LLC-770	Handset with 1 button (call)	1
9415046	LLC-771	Handset with 1 button (call) and 2 buttons (lights)	1
9415055	LLC-772	Handset with 1 button (call) and 4 buttons (lights and blinds)	1



Mechanisms

Passive bathroom pull-cords

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

SQUARE PULL-CORDS

9410350	LLC-821	Bathroom pull-cord IP55 with 2 buttons (call and cancel) and cable	1
9415056	LLC-829	Ceiling box for bathroom pull-cord with cable	1

Active bathroom pull-cords

CODE	MODEL	DESCRIPTION	MOQ
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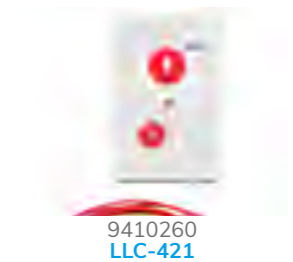
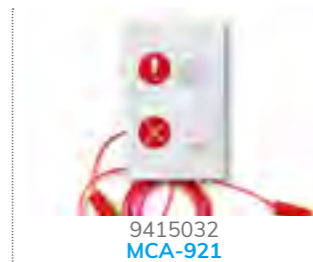
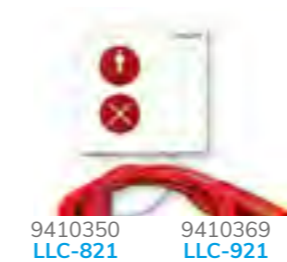
SQUARE PULL-CORDS

9410369	LLC-921	Bed unit for bathroom pull-cord IP55 with 2 buttons (call and cancel) and cable	1
9415066	LLC-929	Ceiling box for bathroom pull-cord with cable	1

RECTANGULAR PULL-CORDS

9415032	MCA-921	Bed unit for bathroom pull-cord with audio, 2 buttons (call and cancel) and cable	1
9410260	LLC-421	Bathroom pull-cord with canceler	1

Available while stocks last



Mechanisms

Passive warning lamps

CODE	MODEL	DESCRIPTION	MOQ
SQUARE WARNING LAMPS			
9410039	SEN-121	Red warning lamp	1
9410053	SEN-124	Red, green, blue, and yellow warning lamp	1

Active warning lamps

CODE	MODEL	DESCRIPTION	MOQ
SQUARE WARNING LAMPS			
9410317	SEN-724	Multicolor warning lamp and/or buzzer	1

Staff identification

CODE	MODEL	DESCRIPTION	MOQ
STAFF IDENTIFICATION			
9430074	RFI-202	RFID 13.56 MHz MIFARE reader/recorder USB	1
9430075	RFI-252	RFID 13.56 MHz MIFARE 1k card	1
9410318	RFI-722	Active MIFARE RFID reader	1



Mechanisms

Other call mechanisms

CODE	MODEL	DESCRIPTION	MOQ
WIRELESS MECHANISMS			
9410335	SNI-301	Wireless receiver with 1 relay output	1
9410336	SNI-310	Waterproof wireless pendant	1
9410337	SNI-312	Waterproof wireless wristband	1

CALL PEDALS

9410330	LLC-046	Call pedal	1
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Relay controllers

CODE	MODEL	DESCRIPTION	MOQ
COMPONENTS			
9415061	ACC-421	Relay for light and blind control with passive base. Monostable operation	1
9400206	CES-113	RS-485 room relay controller	1



Accessories for mechanisms

CODE	MODEL	DESCRIPTION	MOQ
9410072	ACC-101	Flush-mount box for standard EU drywall	1
9410067	ACC-110	Surface-mount accessory	1
9410332	ACC-106	Rectangular flush-mount box for drywall	1
9415024	ACC-117	Rectangular surface-mount box	1
9410100	ACC-161	Flush-mount box for LLC-6xx	1
9400205	ACC-223	RS-485 to RJ45 terminal conversion cable	1
9400207	ACC-224	Derivation load for hub (5 units)	1
9400308	ACC-501	24Vdc selector switch	1
9410328	ACC-547	RS-485 peripheral hub 8 outputs	1
9410339	ACC-549	RS-485 peripheral hub 4 outputs	1
9410079	LLC-200	DIN8 aerial connector for handset. Mounting on bedhead	25*

* Reference subject to minimum order quantity.
Request conditions

Nurses' stations

CODE	MODEL	DESCRIPTION	MOQ
IP TELEPHONY			
9420132	TFI-401	IP phone 2 lines, 2.8" B&W TFT screen (black)	1
9420134	TFI-403	IP phone 6 lines, 2.7" color TFT screen (white)	1
9420148	TFI-701	IP phone 20 lines, 7" color touchscreen (black)	1
DECT COMMUNICATION			
9420137	TFD-421	DECT phone 2 lines	1
9420141	DEC-411	Multicellular DECT, up to 16,000 handsets	1
CORRIDOR PANELS			
9450316	STB-053	HD IPTV decoder	1
TOUCH SCREENS			
9400323	CGT-250	10" PoE touch management screen	1





9415034
SDI-001



9415036 9415038
SDI-111 SDI-113



9420149
POR-111



9400309
ACC-401

Localisation system (RTLS)

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

SYSTEM COMPONENTS

9415034	SDI-001	ACCURO RTLS active tags antenna PoE	1
9415070	SDI-210	IP67 tag with SOS button and rechargeable battery	1
9415071	SDI-220	Silicone wristband for tag SDI-210	1

Access control

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

SYSTEM COMPONENTS

9420149	POR-111	HD SIP PoE entrance panel videophone with RFID	1
9400309	ACC-401	Reversed strike 24Vdc	1

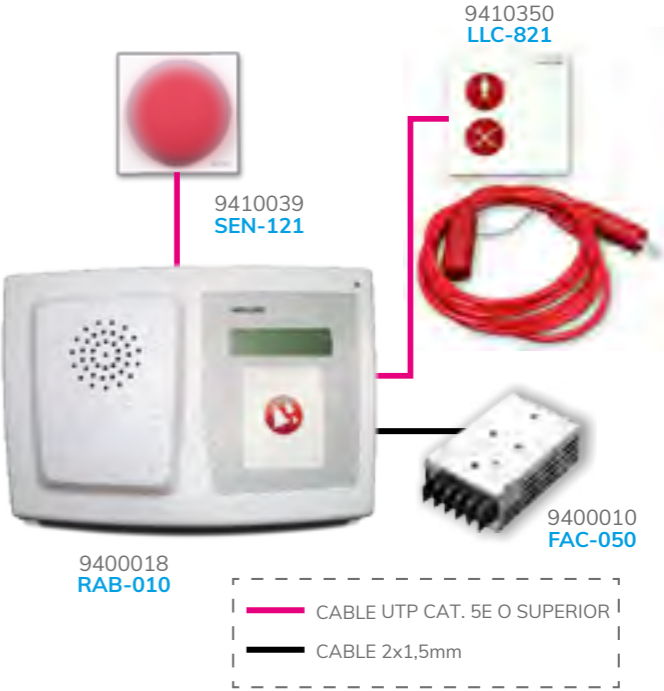


Expandable
by up to
5
toilets/
changing
rooms^(*)

(*) The necessary components
must be purchased separately.

ATTENDO by ALCAD

- ▶ Autonomous solution for generating and receiving alerts for adapted toilets and changing rooms and common areas.
- ▶ **For public areas:** restaurants, gyms, sports centres, town halls, shopping centres, train / bus stations, car parks, hotels, etc.



CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

9400304	KRAB-001	ATTENDO: central alarm system kit, 1 bathroom	1
---------	----------	---	---



9440100
SWG-200



9450306
LIC-400

Software and licences

CODE	MODEL	DESCRIPTION	MOQ
SYSTEM COMPONENTS			
9440100	SWG-200	Server license – ACCURO	1
9440119	SWG-230	Server license – ACCURO lite (1-10 points)	1
9440101	SWG-201	CHC/CHI license – ACCURO	1
9440111	SWG-211	Antenna license – ACCUROrtls	1
9440005	SWG-160	Resiplus license	1
9450306	LIC-400	ALCAD license for STB-xxx corridor screen	1



Servers and network components

CODE	MODEL	DESCRIPTION	MOQ
SERVERS			
9430122	SRG-050	Lite server	1
9430126	SRG-121	Server	1
9430105	SRG-310	High-end server	1
9430106	SRG-410	High-availability server	1
NETWORK COMPONENTS			
9430108	SWI-414	Switch (8-port PoE)	1
9430111	SWI-444	Switch (24-port PoE)	1
9430112	SWI-406	PoE injector-48-24W (EU)	1
9430118	SWI-407	Twinax cable SFP 10Gb	1
9430114	ROU-112	Head-end network router for VPN management	1
9430107	WFI-200	Indoor access point (AP)	1

Appendices

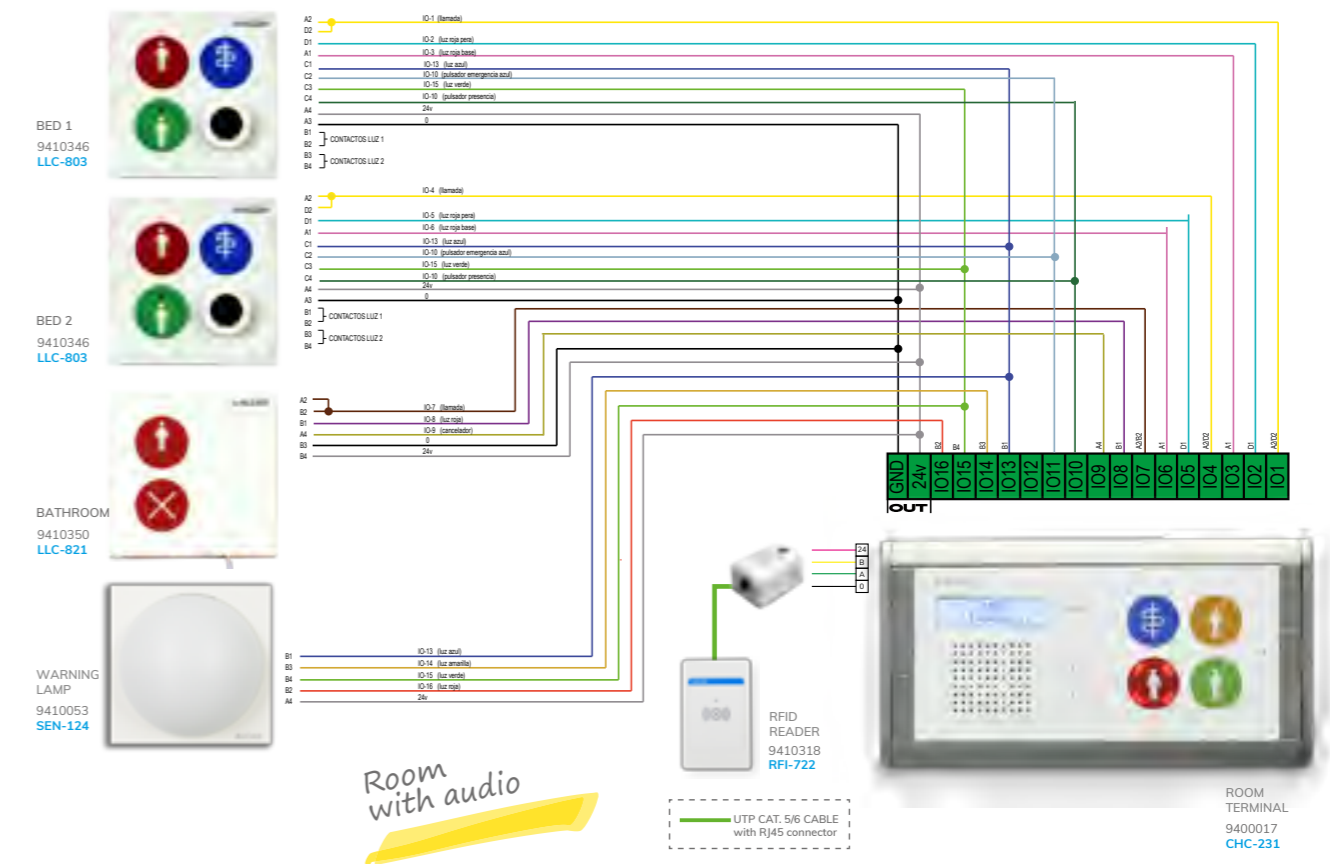
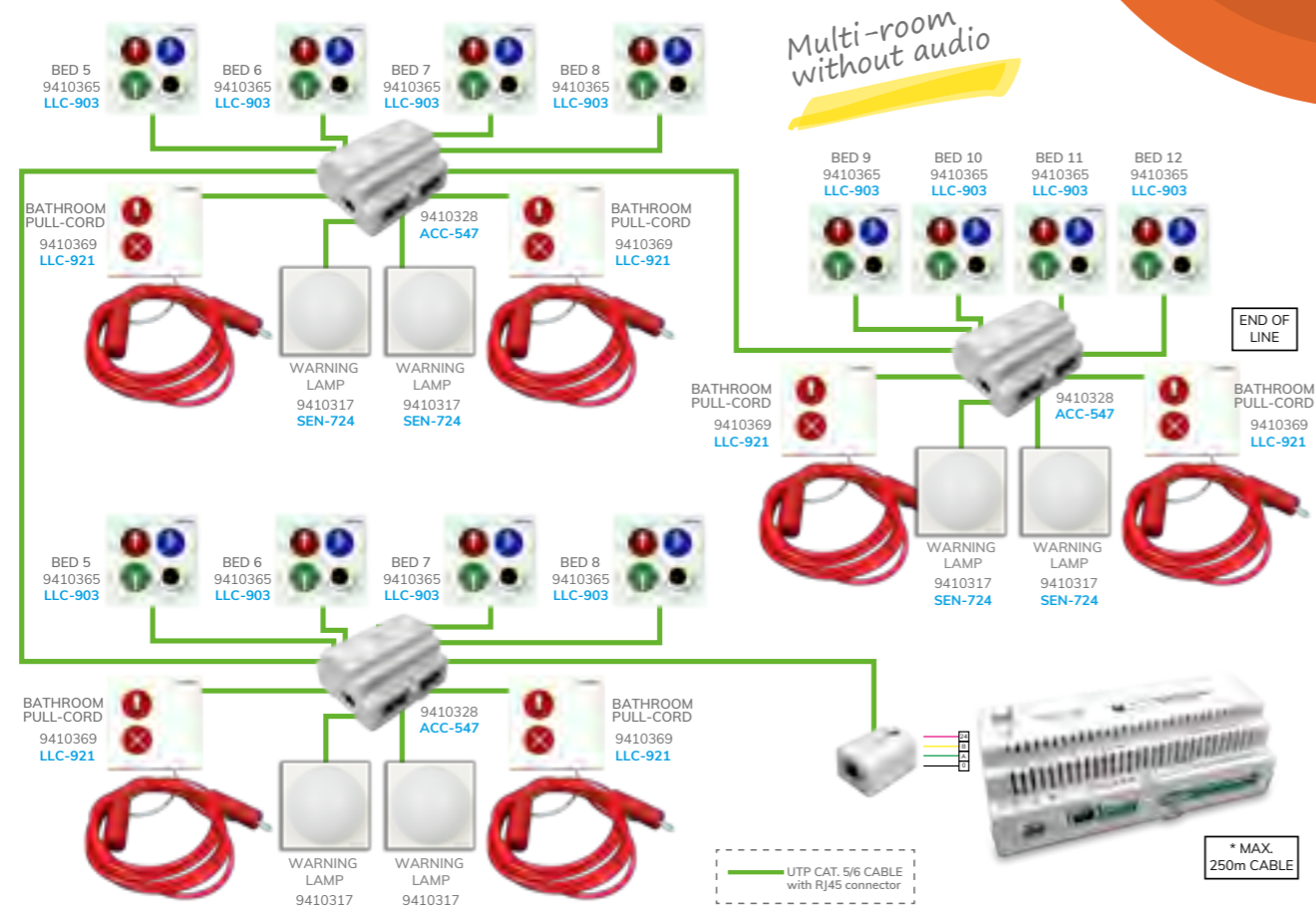
Active or passive connection: Which one is best suited to my installation?

Up to 16 peripherals per family (or 24 in total)* and 250 metres of cable per room terminal

* For special cases, please consult us

Active connection:

- Connection with UTP cable via standard connectors according to **T568X standard**.
- Easier and quicker to install, but more expensive (15 %).
- Reduced chance of errors during installation.
- Incidents are reported immediately** if any peripheral is disconnected.



Passive connection:

- Connection with UTP cable **via the terminals of the equipment**.
- Cheaper, but **more expensive to install**.
- Greater possibility of errors** during installation, but they are more reliable.

Up to 2 beds, 1 bathroom and 1 light per switchboard (limited by the number of terminals)

Alternative:

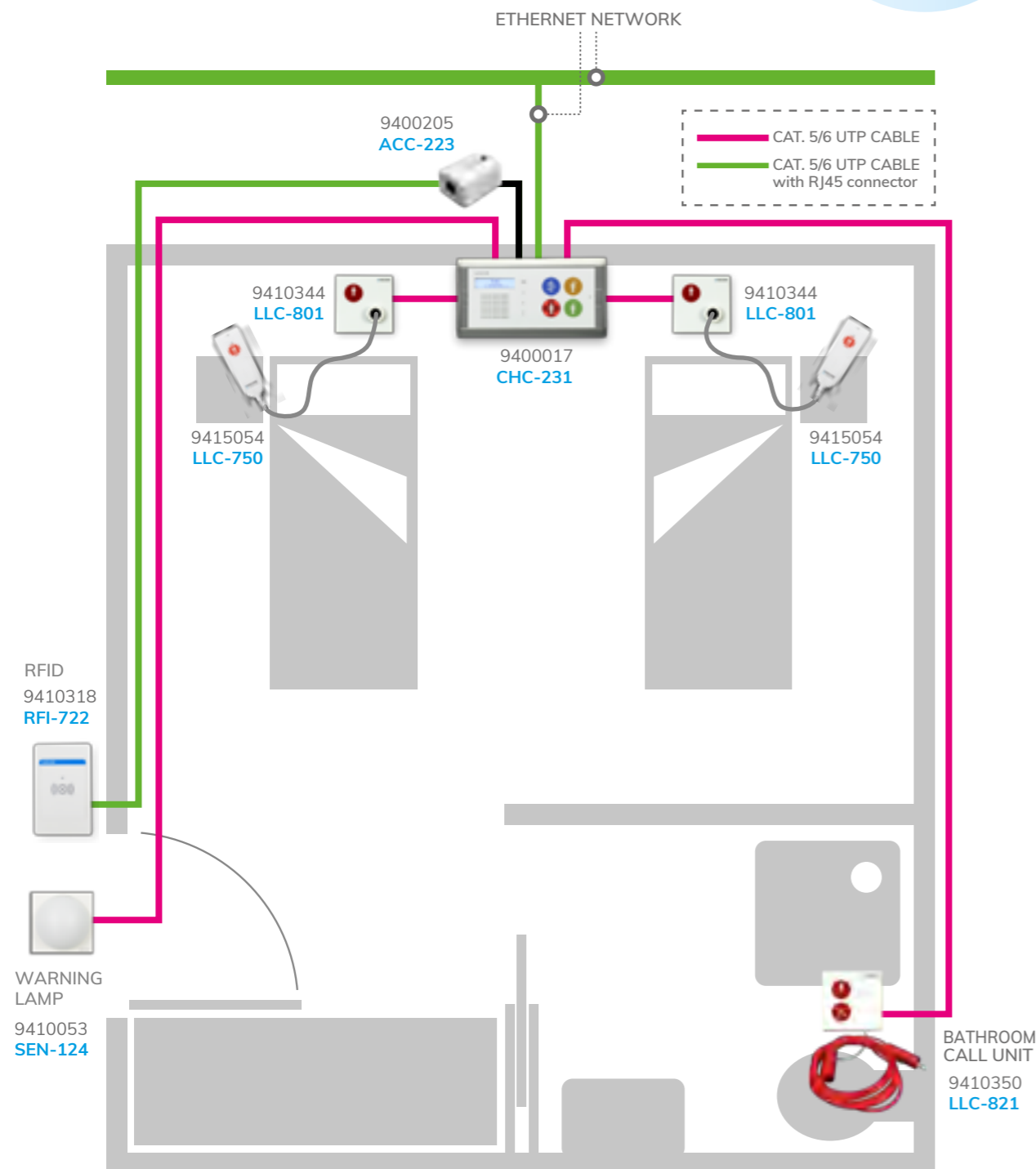
Hybrid connection

Hybrid wiring allows for mixed installations, ideal for adding extra functions or lowering costs.

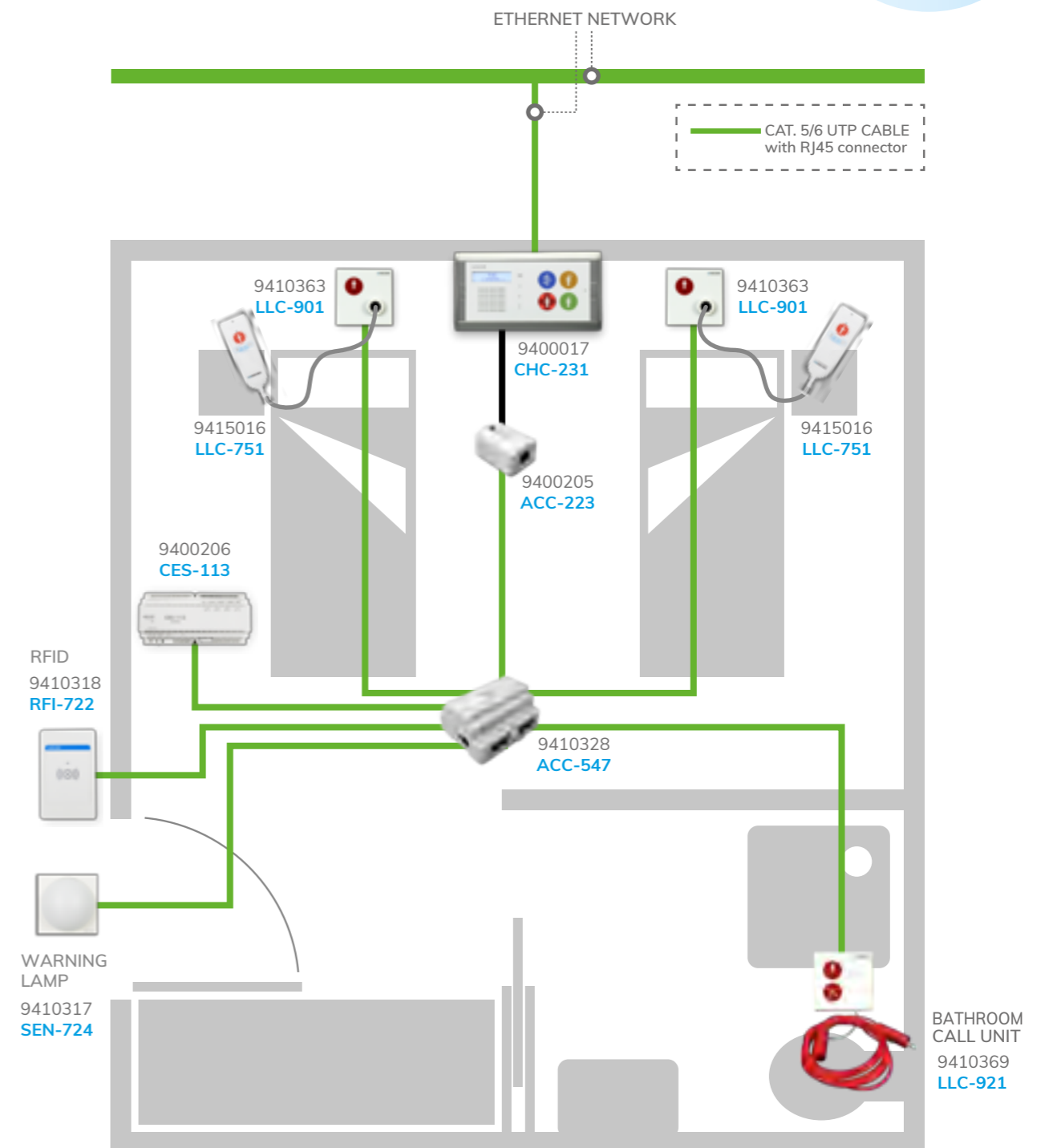
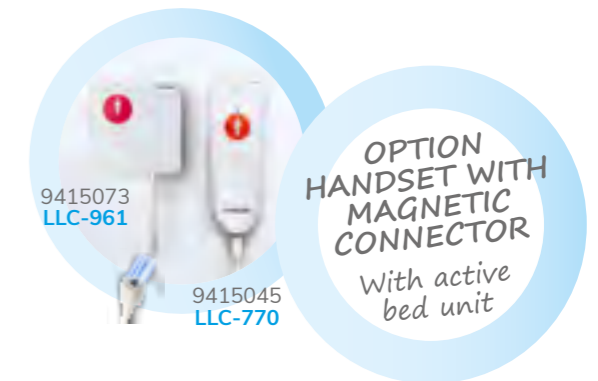


Room layout diagrams

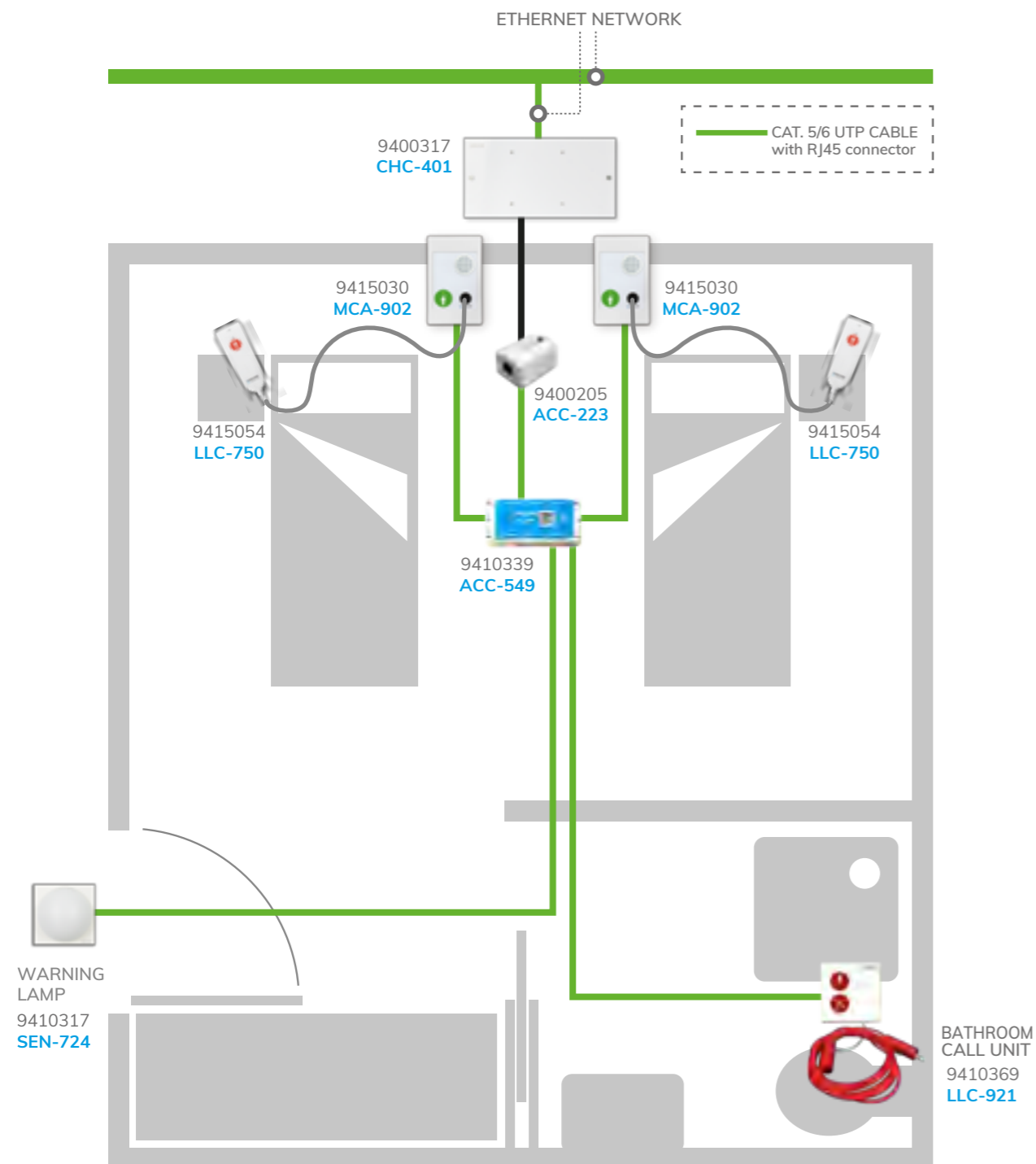
PASSIVE DOUBLE ROOM
WITH BATHROOM PULL-CORD
AND ACTIVE RFID READER



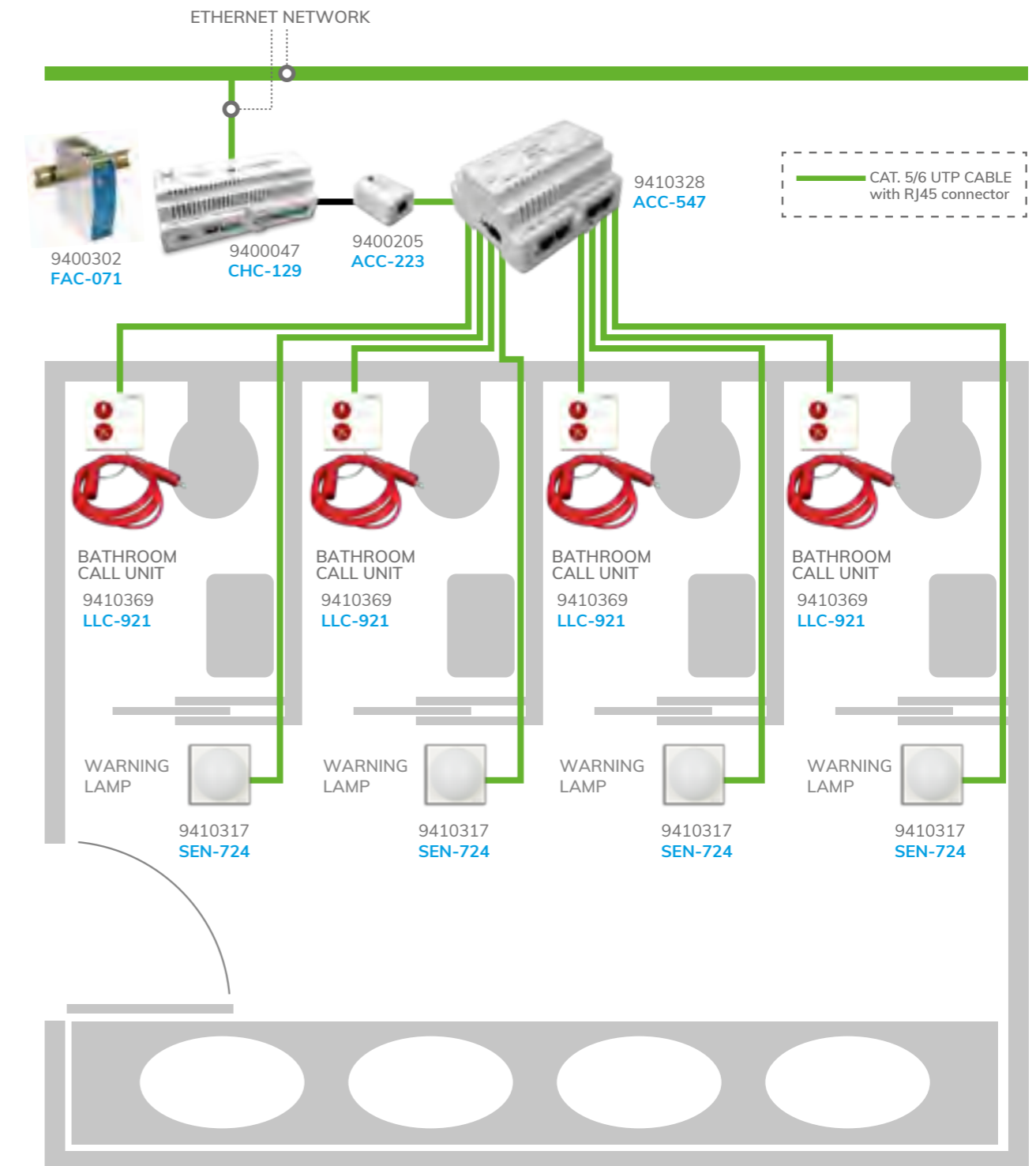
ACTIVE DOUBLE ROOM
WITH BATHROOM, LIGHT CONTROL
AND RFID READER



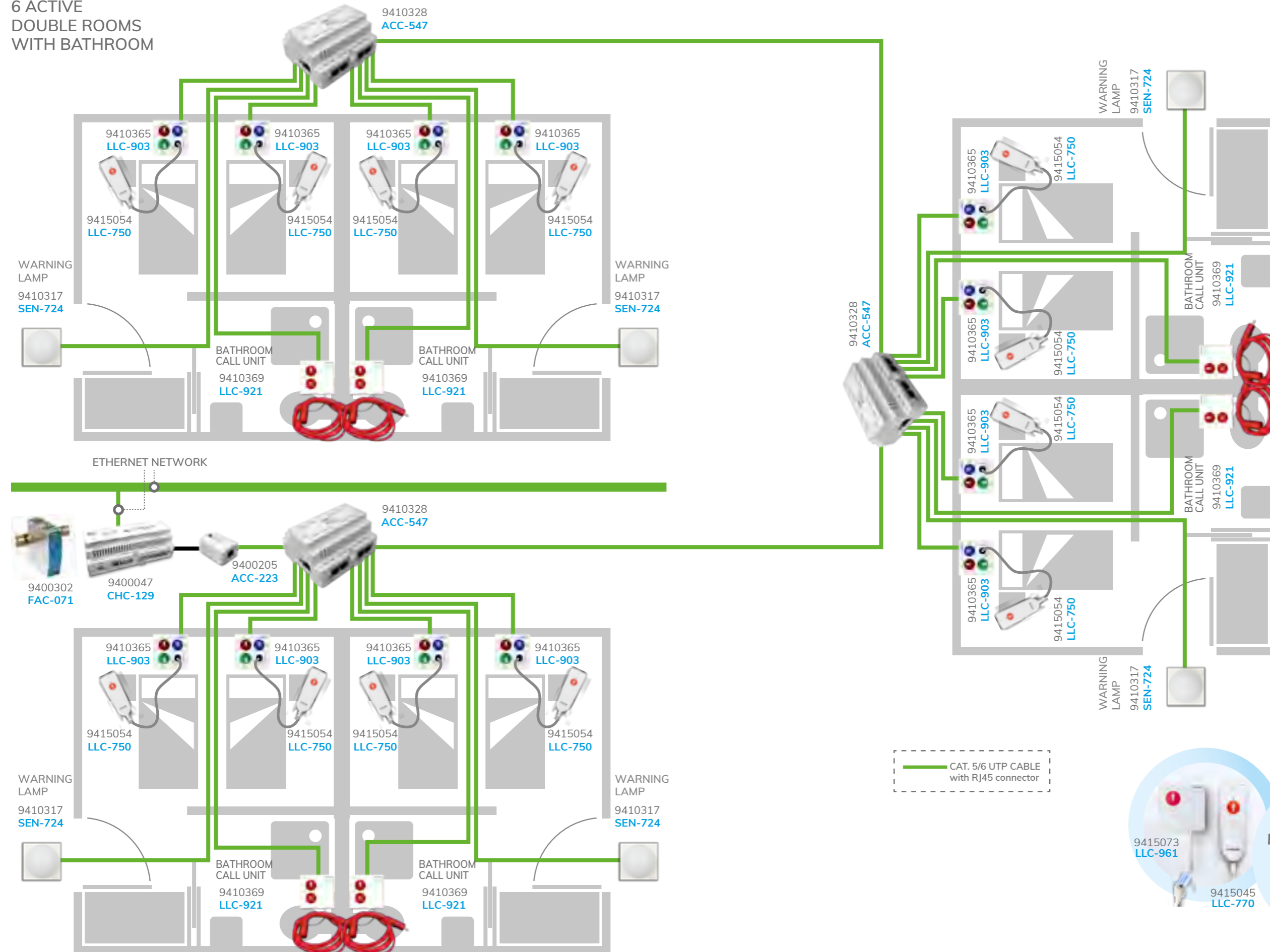
ACTIVE DOUBLE ROOM WITH BATHROOM AND AUDIO DISTRIBUTED BY BED



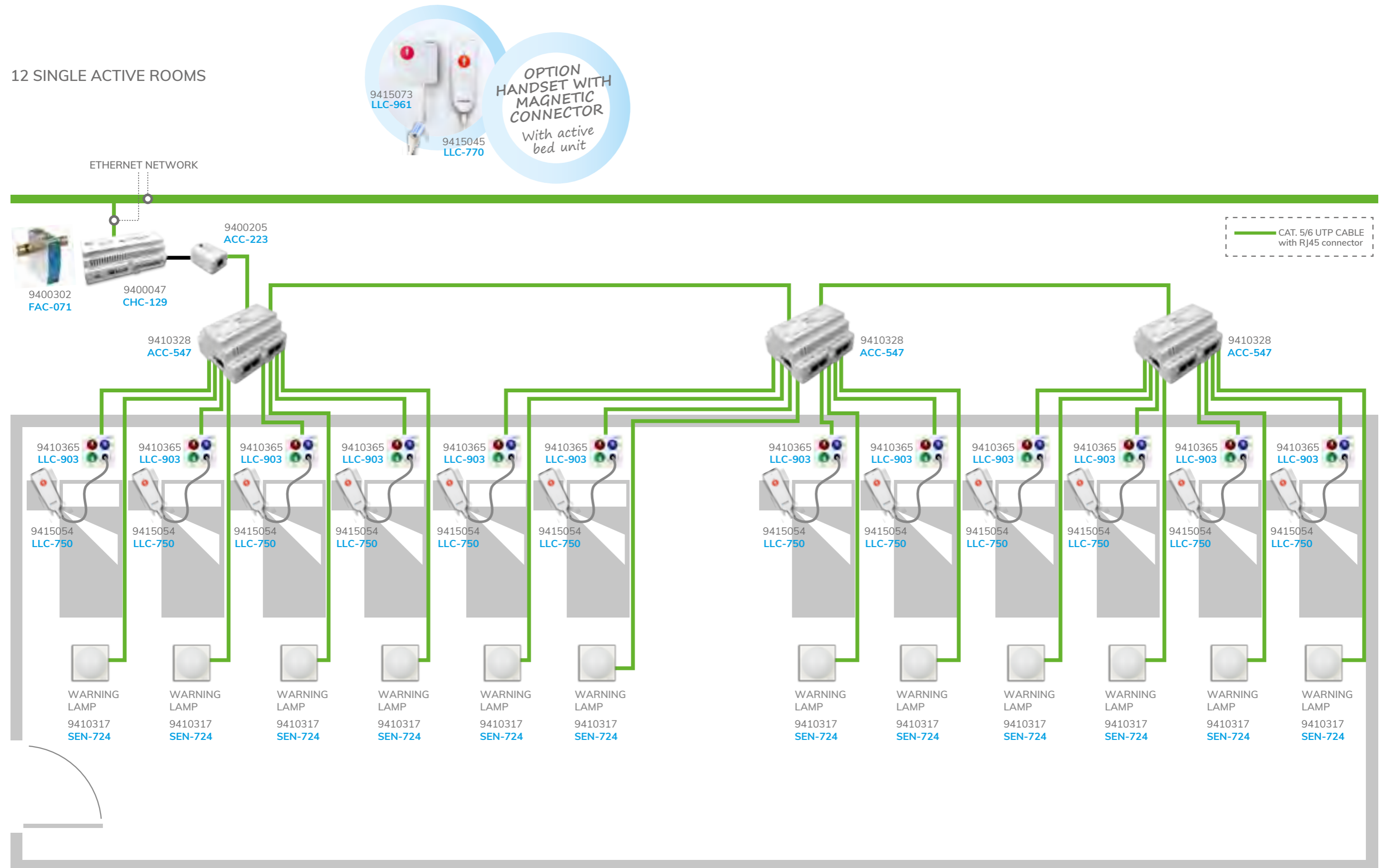
4 INDIVIDUAL BATHROOMS WITH ACTIVE CONNECTION



6 ACTIVE
DOUBLE ROOMS
WITH BATHROOM



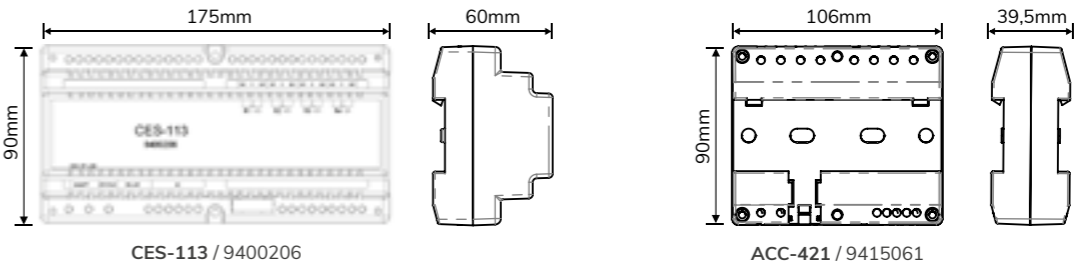
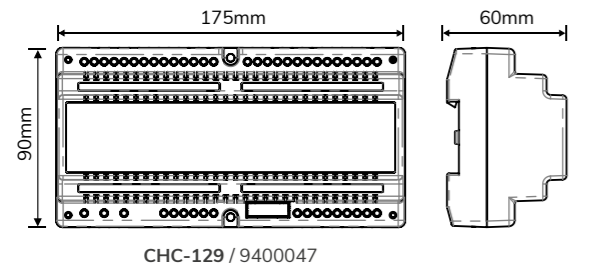
12 SINGLE ACTIVE ROOMS



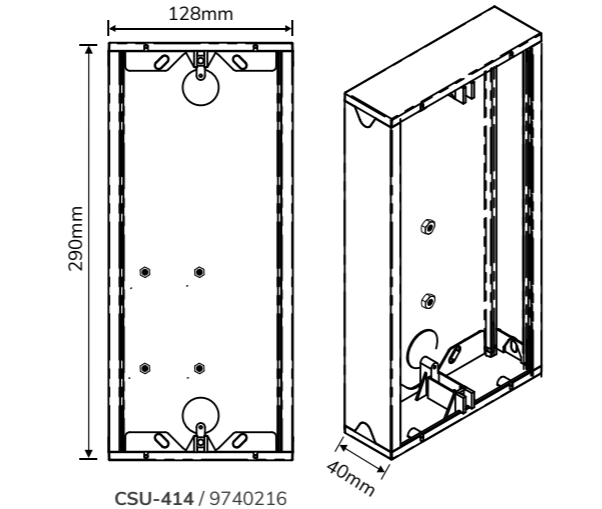
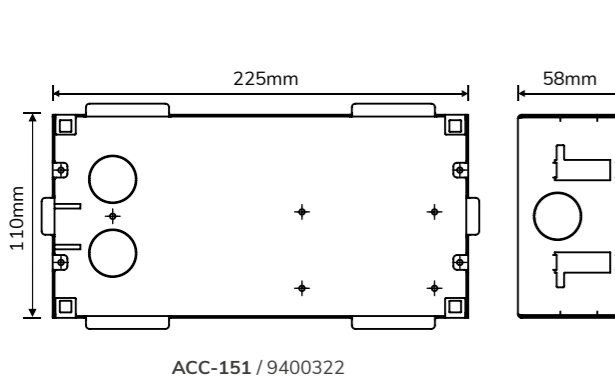
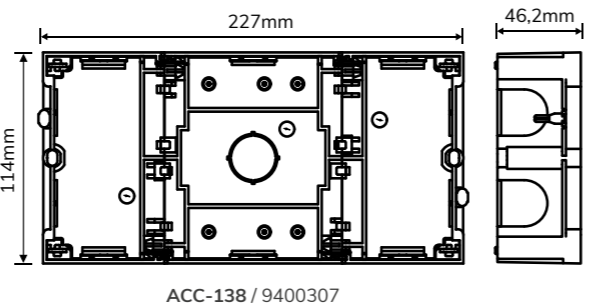
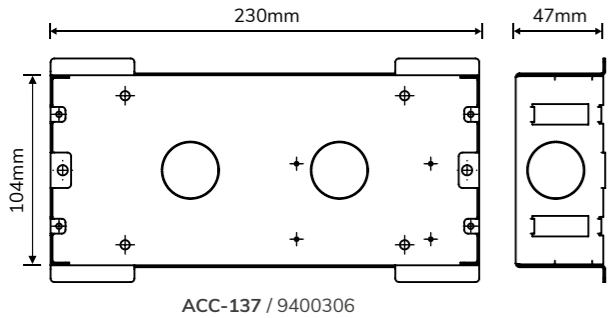
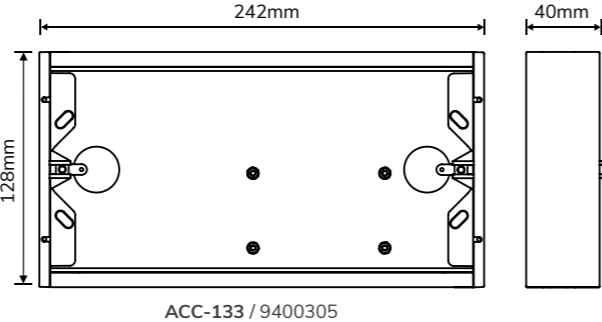
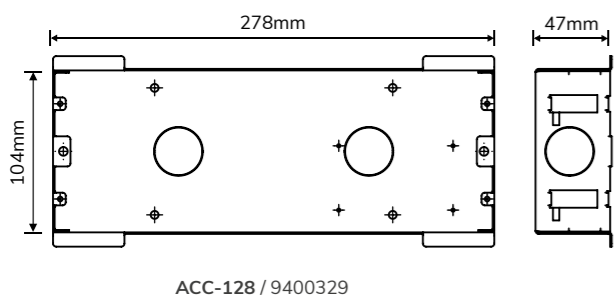
Dimensions

MECHANISMS: RELAY CONTROLLERS

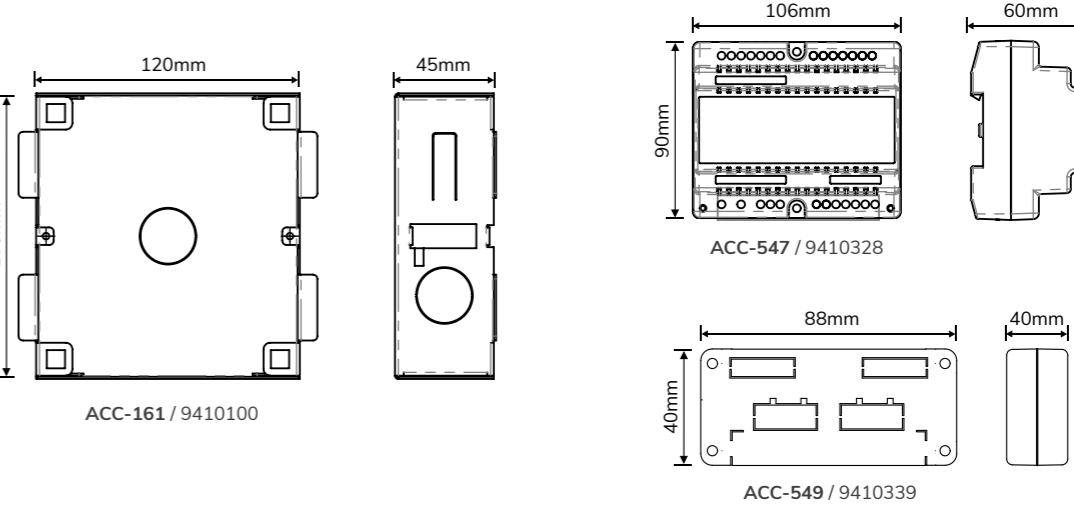
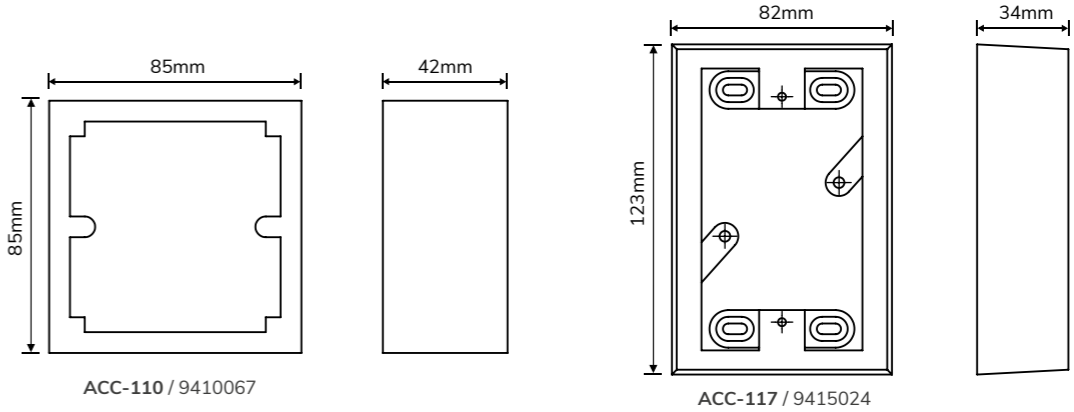
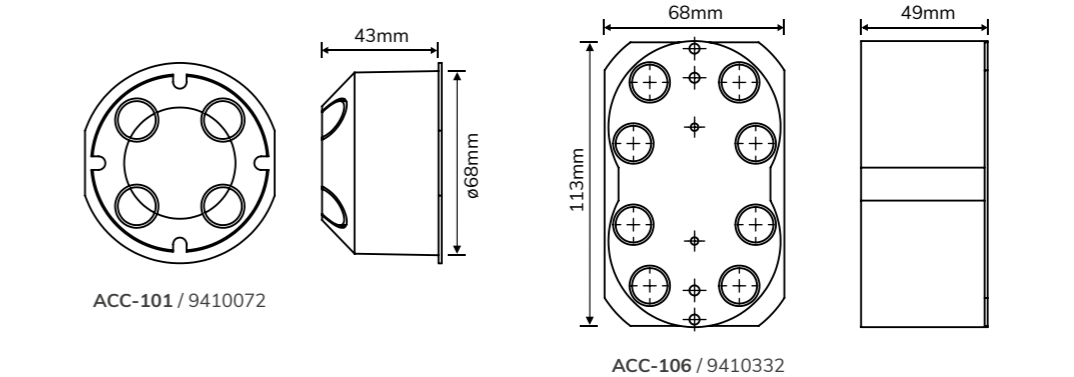
ROOM TERMINALS



ROOM TERMINAL ACCESSORIES



MECHANISM ACCESSORIES



FAQs

Can room terminals in an area call different nurses' stations?

No. A functional area in ACCURO is a group of room terminals calling the same nurses' station. If an area or floor requires some rooms to call one nurses' station and the rest to call another, 2 areas must be defined.

For example: in paediatrics, even-numbered rooms call nurses' station 1 and odd-numbered rooms call nurses' station 2. In this case, 2 areas must be created: PAEDIATRICS: EVEN and PAEDIATRICS: ODD.

Can a single warning lamp be configured for several rooms and/or bathrooms?

Yes, but only with passive indicator lights.

Are all CHC terminals PoE-compatible?

Yes. For the CHC-23x and CHC-24x family of room terminals, the ACC-048 connection board would be used.

For the CHC-04x and CHC-12x families, the ACC-078 PoE splitter should be used.

How powerful are the ACC-078 and ACC-048 PoE accessories / connection boards?

The ACC-048 supports PoE, and delivers 12.9W. The ACC-078 supports PoE+, and delivers 25W.

Is the CES-113 bus relay controller monostable?

By default, the CES-113 is associated with the LLC-90x bed units, and its behaviour is bistable. However, its behaviour is monostable if there is an LLC-90x bed unit in pattern B.

Is a vandal-proof terminal available?

Yes. The CHC range features the CHC-611. The shelter range features the CIC-611 and the CIC-612.

All of them comply with the IK09 protection rating.

What is the difference between an ACC-223 and an ACC-224?

The ACC-223 is a cable adapter to an RJ45 connector, related to bus mechanisms (active system).

The ACC-224 is a bypass for leaving an empty port if you do not wish to connect a mechanism to the bus hub (active system).

What types of peripherals are available for ACCURO?

- Passive, hard-wired mechanisms, operating at +24VDC.

- Bus devices (active system), with RJ45 connectors and operating on the RS-485 bus.

Is it possible to implement "hybrid" installations, i.e. with a bus (active system) and passive peripherals?

Yes, the ACCUROmanager configuration allows this.

What types of handsets are available for ACCURO?

On the one hand, the LLC-75x family: IP67-rated, with DIN8 connectors and compatibility with both passive and active (bus) systems.

On the other hand, the LLC-77x family: IP67-rated, with magnetic connectors (>2.5kgf) and compatibility with the passive system.

Do audio peripherals exist?

Yes, belonging to the MCA family, in rectangular format.

Do the bathroom pull-cords have any kind of clip?

Yes, all bathroom pull-cords have an anti-strangulation clip that releases at over 7 kg of force.

How many metres of cable can there be between the CHC-129 central controller and the combined cables of all peripherals and ACC-54x?

250 metres.

Is 1A enough to power a CHC and its peripherals?

Not in all cases. Where there are an excessive number of active components, the combined consumption at start-up should be calculated and the power supply adjusted accordingly.

If I only have one active peripheral, do I need the ACC-54x?

No, unless that peripheral is an MCA-xxx. With peripherals with distributed audio, an ACC-54x is always required.

Is a UTP cable sufficient to connect any peripheral and its terminals?

No. There are peripherals, such as the LLC-803 or LLC-832, which require 9 or 10 wires. The product data sheet should be consulted before installation.



Security
solutions

Audio and video
door entry systems
and access control

Table of
contents

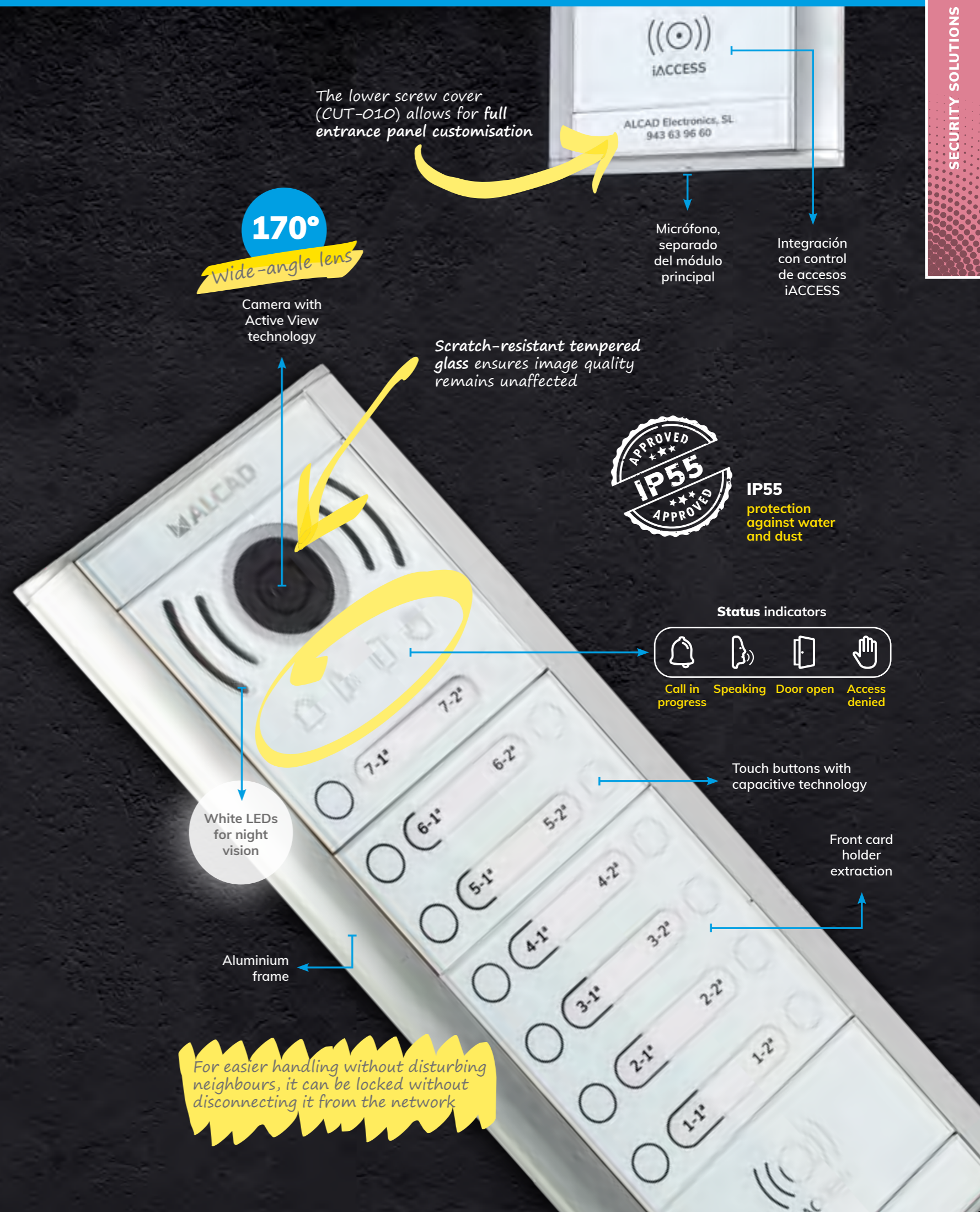
Kits Audio and video door entry systems for single- family homes	80
IPAL 100 % IP system for large complexes	96
2 wires The widest variety of components and aesthetics, including Wi-Fi technology	100
Digital Medium-sized buildings with concierge service	130
4+N The most economical system for replacements	136
iACCESS Access control with proximity readers	142
Appendices Technical information and FAQs	144



USOA

A unique entrance panel. A thousand possible combinations

Design freely to create customised compositions with an innovative aesthetic



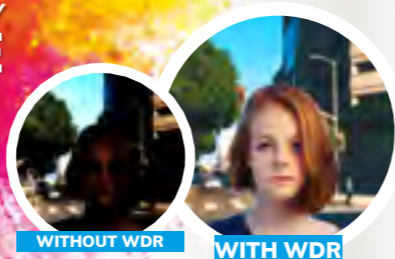
Monitor Enara 4,3"

Model MVC-141

The extra-compact hands-free monitor

TECHNOLOGY
ACTIVE VIEW
integrated

Colours like none you've seen before



WDR function: delivers stunning image quality, even in extreme conditions

* More information on page 102

"Do not disturb" function

4.3" screen compatible with the Active View technology of our cameras

Records images and video

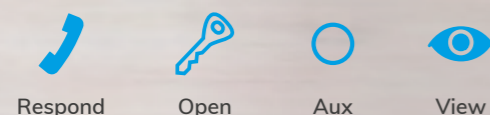
Slot for microSD card *

2w

Optional

- 2-Wire System.
- Improved image quality.
- Logging of unanswered calls.
- Languages: English, French, Spanish, Italian, Portuguese, Turkish and Czech.
- Push button for auxiliary functions.

* microSD card not included.



How to find the best solution for your installation?

- 1 Choose from our 4 **systems**: IPAL (100% IP), 2-wire, Digital, 4+N
- 2 Select the components you want to include depending on the **type of installation**:

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80

SOLUTIONS FOR: SINGLE-FAMILY HOMES AND SMALL INSTALLATIONS

- The **ALCAD Kits** are designed for small installations, mostly single-family homes. Choose a system and select from:
 - Video door entry systems
 - Audio door entry systems
- If necessary, choose **accessories**. These include (among others):
 - Door opener
 - Additional entrance panels
 - Additional phones / monitors

page
92

SOLUTIONS FOR: COLLECTIVE FACILITIES

- All **ALCAD's systems for residents' associations** are designed to meet different needs. Start by choosing the system that best suits your installation; if you have any questions, see the following resources:
 - Overview of technologies
 - Feature Comparison
- The components of each system are **arranged in hierarchical order**, so that you can conveniently add everything you need. Essentially:
 - Indoor units
 - Entrance panels
 - Door Opener
 - Concierge *
 - Power supply units, distribution

At the end of each section you will find a list of related accessories.
- At the end of each system, we have placed **sample examples** to produce:
 - Diagrams
- Lastly, you will also be able to add our **access control system, iACCESS**.

* Digital + IPAL systems

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144

APPENDICES

We can assist you with all your **doubts** and **queries** related to:

- Orders for special products and custom-made products:
 - Examples of orders for special products
- Choice of entrance panel accessories: flush-mounted boxes, surface-mounted boxes and visors.
 - Dimensions and accessories



Kits

VIDEO DOOR ENTRY SYSTEMS

2w

Summary of characteristics

Available while stocks last

	KIT erlea plus	KIT iBLACK	KIT Usoa 4.3"	KIT Usoa 7" Wi-Fi	KIT Aloi 4.3"
ENTRANCE PANEL		 	 	 	 
MONITOR				 	
MODEL	KVS-31221	KVS-54121	KVS-55121	KVS-55321	KVS-56121
WIRING	(2 wires)				
PANEL MOUNTING	Surface	Flush-mounted			
ADDITIONAL PANELS	NO	YES			
SCREEN MONITOR	7"	4.3"	4.3"	7"	4.3"
HANDS-FREE	YES				
LOG OF UNANSWERED CALLS	YES				
INTERCOM	YES	NO			
NO. OF ADDITIONAL MONITORS	+2	+5			
MAXIMUM DISTANCE WITHOUT ADDITIONAL ACCESSORIES	80 m	265 m	265 m	165 m	265 m
DISTANCE EXPANDABLE WITH ACCESSORIES	NO	YES			
INCLUDES DOOR LOCKS	NO				
CALLS TO MOBILES	NO	NO	NO	YES	NO

(page 82)

(page 83)

(page 84)

(page 85)

(page 86)



Unanswered call image capture



Unanswered call image capture*



Waterproof (IP55 rating)



Camera with Active View technology

* Requires microSD card (not included in the kit)

KIT Erlea Plus



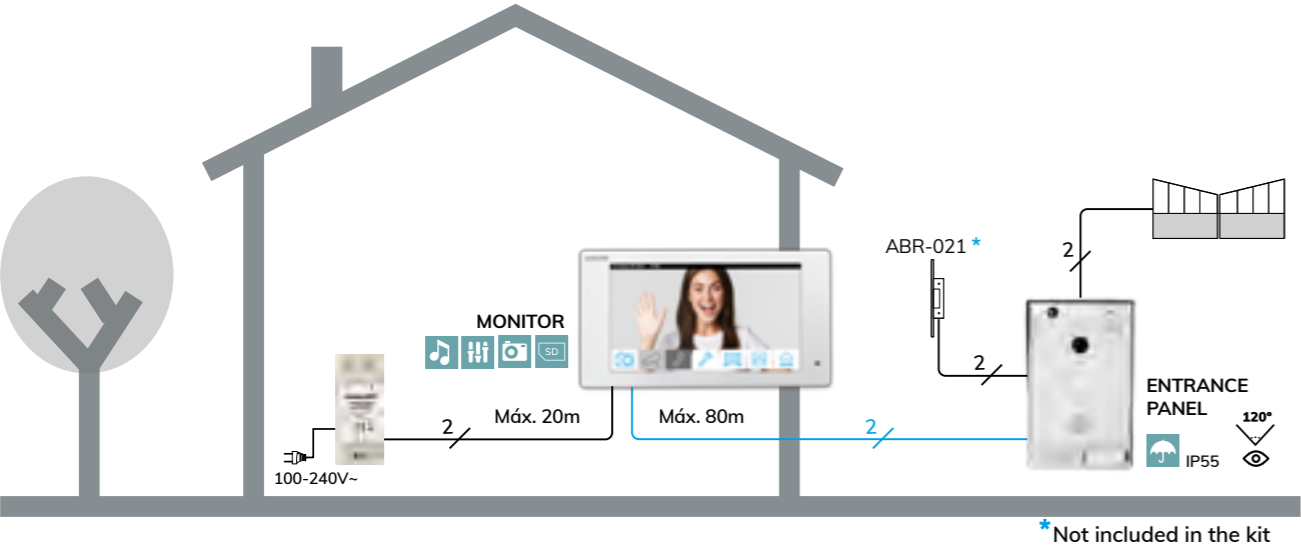
1-HOME KIT, 7" MONITOR

9720165 **KVS-31221**

1-home kit, 7" monitor with automatic image capture of unanswered calls and entrance panel with visor and iACCESS reader

THE KIT INCLUDES:

- Erlea Plus entrance panel with 1 push button with 120° vision, visor and 1 touch push-button.
- Erlea Plus 7" monitor.
- Erlea Plus DIN rail feeder.
- 5 RFID keys: 3 for door opening and 2 for configuration.



Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
SECOND MONITOR				
1 unit	9630083	KMC-12800	Secondary monitor for Erlea Plus kit	1
SINGLE ELECTRIC LOCK				
1 unit	9730087	ABR-021	Simple electric lock. 12-18V AC/DC. Compact	1
ACCESSORIES FOR ELECTRIC LOCK FOR SECOND DOOR				
1 unit	9730021	ASC-050	Relay for door opener control	1
1 unit	9620011	ALM-040	Power supply 25VA, 12VAC and 15VDC	1
RECOMMENDED CABLE				
—	9750005	CAB-007	Optimized screened sleeved cable 2x1 mm2 (by 100m coils)	100
EXTRA SET OF iACCESS KEYS				
1 unit	9690018	LAC-020	Set of 5 resident proximity keys	1

Available while stocks last

KIT iBLACK



1-HOME KIT ENARA 4.3" MONITOR

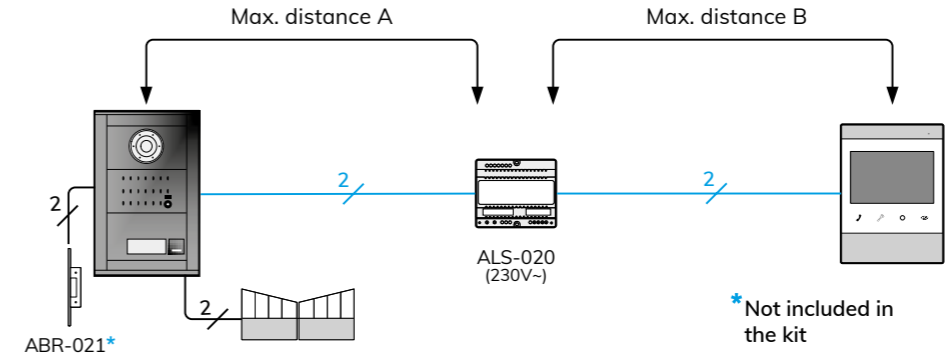
9720167 **KVS-54121**

iBLACK 1-home kit, Enara 4.3" hands-free monitor with automatic image capture of unanswered calls and single push-button flush-mounted entrance panel

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
9670164	MAN-500	Phonic group module
9670192	MVN-509	Active View camera module
9660082	PPS-52201	iBLACK panel, 1 single push-button, 2-module window
9740006	CMO-004	3 or 4-storey flush-mounted box
9650004	ALS-020	Feeder interface
9630087	MVC-141	Enara 4.3" hands-free monitor

Available while stocks last



SECTION	DIST. A	DIST. B
CAB-307	15 m	250 m
CAB-007 2x1mm²	25 m	125 m
CAB-004 2x0.5mm²	15 m	65 m
2x0.25mm²	15 m	50 m

Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
SECOND ENTRANCE PANEL				
1 unit	9740006	CMO-004	Flush-mount box for 3 or 4 storeys	1
1 unit	9730082	DIV-152	Splitter, 2 outputs	1
SINGLE ELECTRIC LOCK				
1 unit	9730062	ABR-015	Single electric lock. 15VDC	1
1 unit	9730087	ABR-021	Single electric lock. 12-18V AC/DC. Compact	1
1 unit	9730008	ABR-014	Automatic door opener and unlocking. 15V DC	1
SURFACE MOUNTING BOX + VISOR FOR ENTRANCE PANEL				
1 unit	9740137	VIS-212	Simple visor for 3 or 4 floors	1
CALL REPEATER				
1 unit	9730019	AAL-200	Call repeater for installations with electronic call	1
RECOMMENDED CABLES				
—	9750009	CAB-307	Sleeved cable 2 x 1 mm2 (by 100m coils)	100

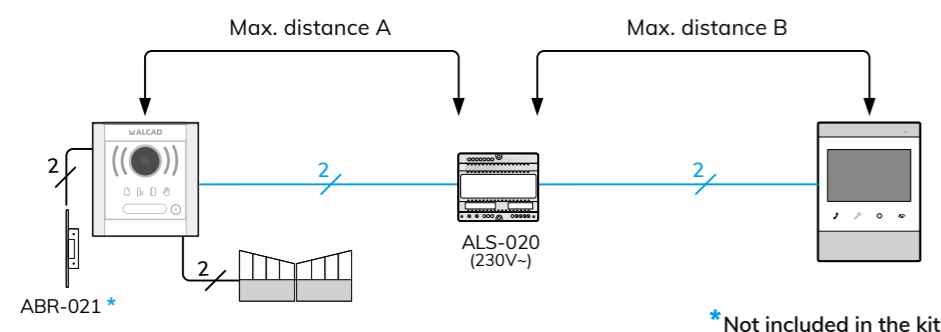
KITS Usoa

1-HOME KIT
ENARA 4.3" MONITOR9720169 **KVS-55121**

1-home kit, Enara 4.3" hands-free monitor with automatic image capture of unanswered calls and single push-button flush-mounted entrance panel

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
9710002	FRA-002	2-window frame
9710011	MVG-011	Audio and video module
9740005	CMO-002	1 or 2-storey flush-mounted box
9650004	ALS-020	2-wire power supply interface
9630087	MVC-141	Enara 4.3" hands-free monitor
9730106	HST-002	Usoa front extraction tool



SECTION	DIST. A	DIST. B
CAB-307	15 m	250 m
CAB-007 2x1mm ²	25 m	125 m
CAB-004 2x0.5mm ²	15 m	65 m
2x0.25mm ²	15 m	50 m

Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
ADDITIONAL MONITOR				
See pages 102-103				
SECOND ENTRANCE PANEL				
1 unit	9710002	FRA-002	2-window frame Usoa entrance panel	1
1 unit	9710011	MVG-011	Audio and video module 1 button Usoa	1
1 unit	9740005	CMO-002	Flush-mount box for 1 or 2 storeys	1
1 unit	9730082	DIV-152	Splitter, 2 outputs	1
SINGLE DOOR OPENER				
1 unit	9730062	ABR-015	Single electric lock. 15VDC	1
1 unit	9730087	ABR-021	Single electric lock. 12-18V AC/DC. Compact	1
1 unit	9730008	ABR-014	Automatic electrick lock and unlocking. 15V DC	1
ENTRANCE PANEL VISOR				
1 unit	9740251	VIS-312	Simple visor for 2 windows	1
TRIM FRAME				
1 unit	9740047	MAR-900	Frame for single entrance panel *	1
CALL REPEATER				
1 unit	9730019	AAL-200	Call repeater for installations with electronic call	1
RECOMMENDED CABLE				
—	9750009	CAB-307	Sleeved cable 2 x 1 mm ² (by 100m coils)	100

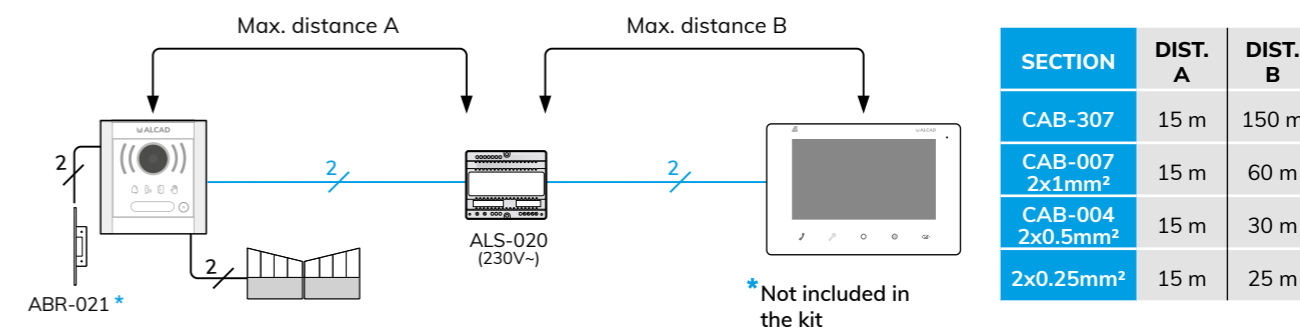
* Made to measure in anodised aluminium. For ordering examples, see page 145

1-HOME KIT
ENARA Wi-Fi 7" MONITOR9720170 **KVS-55321**

1-home kit, Enara Wi-Fi 7" hands-free monitor with automatic image capture of unanswered calls and single push-button flush-mounted entrance panel

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
9710002	FRA-002	2-window frame
9710011	MVG-011	Audio and video module
9740005	CMO-002	1 or 2-storey flush-mounted box
9650004	ALS-020	2-wire power supply interface
9630088	MVC-152	Enara Wi-Fi 7" hands-free monitor
9730106	HST-002	Usoa front extraction tool



SECTION	DIST. A	DIST. B
CAB-307	15 m	150 m
CAB-007 2x1mm ²	15 m	60 m
CAB-004 2x0.5mm ²	15 m	30 m
2x0.25mm ²	15 m	25 m

Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
ADDITIONAL MONITOR				
See pages 102-103				
SECOND ENTRANCE PANEL				
1 unit	9710002	FRA-002	2-window frame Usoa entrance panel	1
1 unit	9710011	MVG-011	Audio and video module 1 button Usoa	1
1 unit	9740005	CMO-002	Flush-mount box for 1 or 2 storeys	1
1 unit	9730082	DIV-152	Splitter, 2 outputs	1
SINGLE DOOR OPENER				
1 unit	9730062	ABR-015	Single electric lock. 15VDC	1
1 unit	9730087	ABR-021	Single electric lock. 12-18V AC/DC. Compact	1
1 unit	9730008	ABR-014	Automatic electrick lock and unlocking. 15V DC	1
ENTRANCE PANEL VISOR				
1 unit	9740251	VIS-312	Simple visor for 2 windows	1
TRIM FRAME				
1 unit	9740047	MAR-900	Frame for single entrance panel *	1
CALL REPEATER				
1 unit	9730019	AAL-200	Call repeater for installations with electronic call	1
RECOMMENDED CABLE				
—	9750009	CAB-307	Sleeved cable 2 x 1 mm ² (by 100m coils)	100

* Made to measure in anodised aluminium. For ordering examples, see page 145

KIT Aloï



1-HOME KIT ENARA 4.3" MONITOR

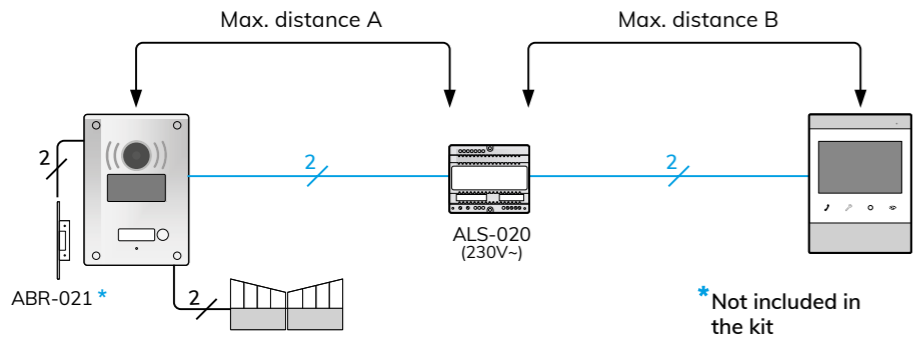
9720171 KVS-56121

1-home Aloï kit, Enara 4.3" hands-free monitor with automatic image capture of unanswered calls and single push-button flush-mounted entrance panel

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
9800227	PTS-63201	Aloï audio and video panel 1 push button
9740244	CMO-602	Flush mounting box for Aloï panel 1-2 heights
9650004	ALS-020	2-wire power supply interface
9630087	MVC-141	Enara 4.3" hands-free monitor

Available while stocks last



SECTION	DIST. A	DIST. B
CAB-307	15 m	250 m
CAB-007 2x1mm²	25 m	125 m
CAB-004 2x0.5mm²	15 m	65 m
2x0.25mm²	15 m	50 m

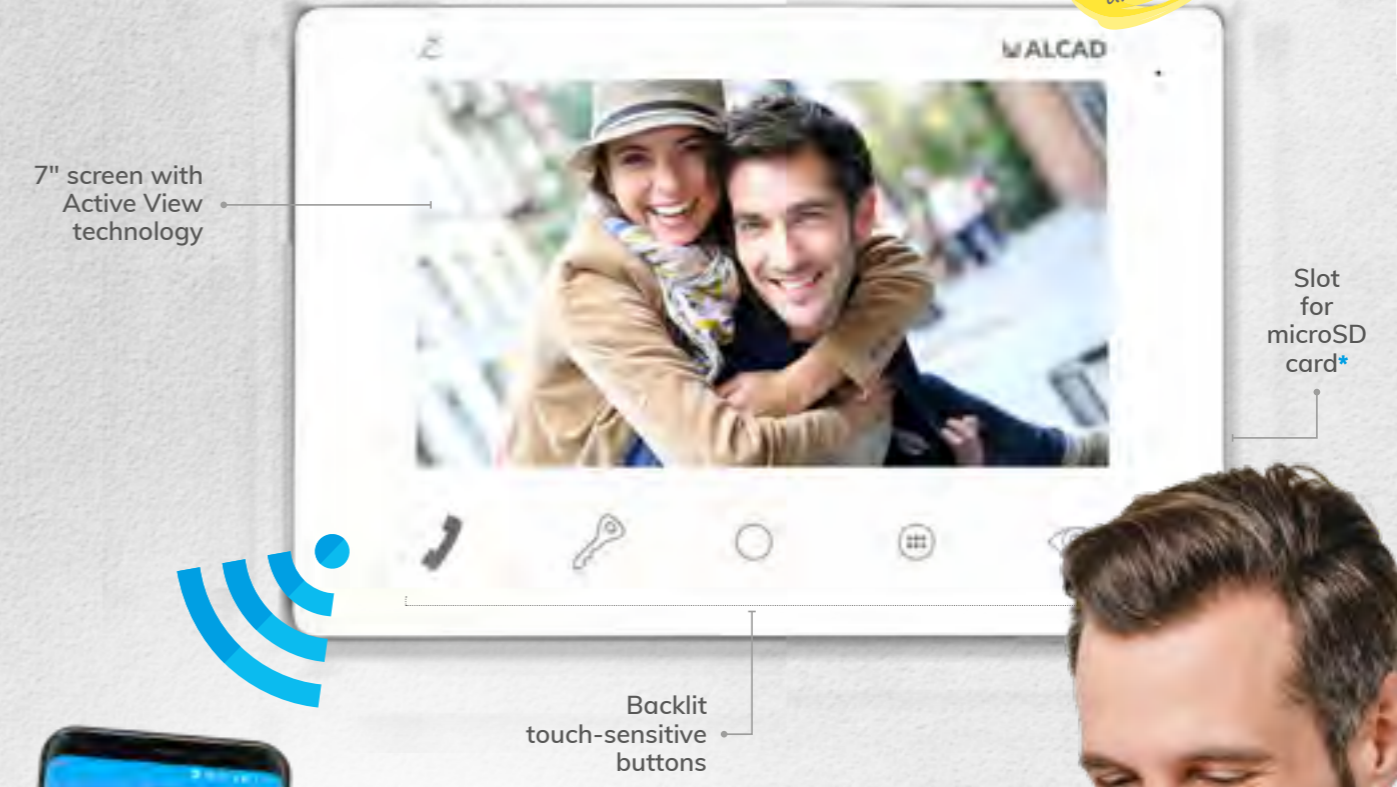
Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
ADDITIONAL MONITOR				
See pages 102-103				
SECOND ENTRANCE PANEL				
1 unit	9800227	PTS-63201	Aloï vandal-proof entrance panel 1 button	1
1 unit	9740244	CMO-602	Flush-mount box for Aloï vandal-proof panel 2 storeys	1
1 unit	9730082	DIV-152	Splitter 2 outputs	1
SINGLE DOOR OPENER				
1 unit	9730062	ABR-015	Single electric lock. 15VDC	1
1 unit	9730087	ABR-021	Single electric lock. 12-18V AC/DC. Compact	1
1 unit	9730008	ABR-014	Automatic door opener and unlocking. 15V DC	1
TRIM FRAME				
1 unit	9740231	MAR-600	Frame for single entrance panel *	1
RECOMMENDED CABLE				
—	9750009	CAB-307	Optimized screened sleeved cable 2x1 mm2 (by 100m coils)	100

* Made to measure in anodised aluminium. For ordering examples, see page 144

Monitor Enara 7" Wi-Fi

Model MVC-152



With Wi-Fi module that allows you to go online and manage calls remotely from your mobile phone via a free APP for Android or iOS.

Characteristics:







- Surfacemounting.
- 2 auxiliary push buttons.
- Integrated cascade shunt .
- Plug-in connection terminals .
- Languages: English, French, Spanish, Italian, Portuguese, Turkish and Czech.

* More information on page 102

AUDIO DOOR
ENTRY SYSTEMS



Summary
of characteristics

	KITS Line 201		
ENTRANCE PANEL			
MONITOR(S)			
MODEL	KAS-41021	KAD-41021	KAS-41003
WIRING	4+N		
FACTORY PANEL	Flush-mounted		
ADDITIONAL PANELS	+0		
NO. OF ADDITIONAL TELEPHONES	+3	+3 per home	
NO. OF PUSH BUTTONS ON THE TELEPHONE	1		
MAXIMUM DISTANCE WITHOUT ADDITIONAL ACCESSORIES	100 m		
DISTANCE EXPANDABLE WITH ACCESSORIES	NO		
INCLUDING ELECTRIC LOCKS	NO		YES

(page 90)

Available while stocks last



KITS 4+N



1-HOME KIT TELEPHONE 4+N AND ENTRANCE PANEL L201

9700046 **KAS-41021**

1-home kit, one 4+N conventional telephone with single push-button and flush-mounted L201 entrance panel with single push-button

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
—	—	Conventional L201 entrance panel with 1 push-button
9740005	CMO-002	1 or 2-storey flush-mounted box
9600001	TEL-001	Electronic telephone
9620011	ALM-040	Power supply kit 25 VA 230/240 VAC

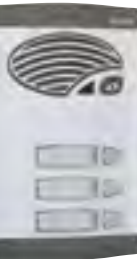
2-HOME KIT TELEPHONE 4+N AND ENTRANCE PANEL L201

9700047 **KAD-41021**

2-home kit, two 4+N conventional telephone with two push-buttons and flush-mounted L201 entrance panel with two push-buttons

THE KIT INCLUDES:

CODE	MODEL	DESCRIPTION
—	—	Conventional L201 entrance panel with 2 push-buttons (1 double push-button)
9740005	CMO-002	1 or 2-storey flush-mounted box
9600001	TEL-001	Electronic telephone (2 pcs.)
9620011	ALM-040	Power supply kit 25 VA 230/240 VAC



3-HOME KIT TELEPHONE 4+N AND ENTRANCE PANEL L201

9700038 **KAS-41003**

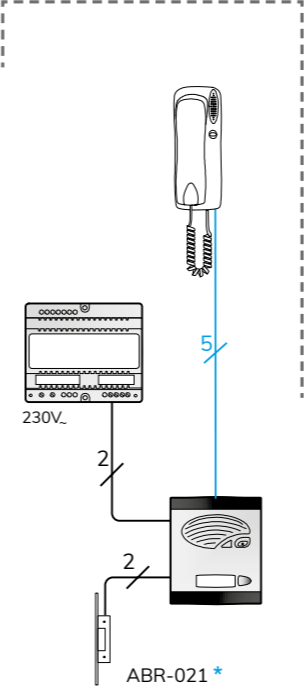
3-home kit, three 4+N conventional telephone with three push-buttons and flush-mounted L201 entrance panel with three push-buttons

THE KIT INCLUDES:

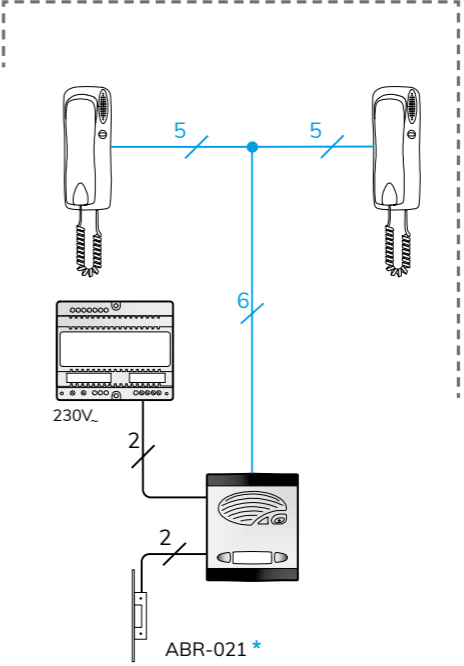
CODE	MODEL	DESCRIPTION
—	—	Conventional L201 entrance panel L201 with 3 push-buttons (3 single push-buttons)
9740006	CMO-004	3 or 4-storey flush-mounted box
9600001	TEL-001	Electronic telephone (3 pcs.)
9620011	ALM-040	Power supply kit 25 VA 230/240 VAC
9730087	ABR-021	Single door opener. 12-18V AC/DC

Available while stocks last

KIT 1 HOME



KIT 2 HOMES



* Not included in the kit

KIT	KAS-41021	KAD-41021	KAS-41003
N	Nx0.25mm ² Up to 100 m		
2	CAB-007 2x1mm ² Up to 25 m		

Accessories

NUM.	CODE	MODEL	DESCRIPTION	MOQ
VISORS				
1 unit	9740251	VIS-312	Simple visor for 1 or 2 storeys	1
1 unit	9740252	VIS-313	Simple visor for 3 or 4 storeys	1
SURFACE BOX				
1 unit	9740100	CSU-211	Simple surface-mount box for 1 or 2 storeys	1
1 unit	9740101	CSU-212	Simple surface-mount box for 3 or 4 storeys	1
SINGLE DOOR OPENER				
1 unit	9730087	ABR-021	Single electric lock. 12-18V AC/DC. Compact	1
1 unit	9730003	ABR-004	Automatic and unlocking	1
1 unit	9730094	ABR-102	Single electric lock with manual unlocking and long panel. 12V AC	1
TRIM FRAME				
1 unit	9740047	MAR-900	Frame for single entrance panel **	1
CALL REPEATER				
1 unit	9730019	AAL-200	Call repeater for installations with electronic call	1

** Made to measure in anodised aluminium. For ordering examples, see page 145

Residential buildings

SUMMARY OF TECHNOLOGIES



IPAL is ALCAD's 100% IP intercom and building management system. Its customised factory presetting makes it easy to install, as no programming is required.

It is ideal for large building complexes, and very useful in large, small, individual or collective establishments.

- True Plug & Play
- Large buildings, with 1 or multiple accesses
- No limits
- Two-way video intercommunication



The **2-WIRE** video door entry system carries out all communication via 2 non-polarised wires, through which the power supply is also distributed. It allows the existing wiring to be reused (taking only 2 wires), greatly facilitating installation when changing from door entry to video door entry.

It has the widest variety of entrance panels and home terminals, including Wi-Fi technology, allowing you to choose the aesthetics that best suits your needs.

- Easy to install and programme
- Design options
- Capture of images and video
- Reuse existing cable
- Large-medium sized buildings with 1 or multiple entrances

TABLE OF CHARACTERISTICS

Wiring	2 non-polarised wires. Cascade, star topology
Types of cable	- Hose 2x1mm² ALCAD Optimised CAB-307 - Common hose (2x1mm2, 2x0,5mm²...) Note: Performance may vary depending on the cable used. Recommended cable: 2x1mm² ALCAD Optimised CAB-307 hose.
Connection of terminals	2 non-polarised wires. Possibility of shunt or cascade connection (from house to house)
Supply voltage	18Vcc



DIGITAL is a 2-wire door entry system for medium-sized installations. The communication bus to the telephones has no connection polarity.

It has a central concierge system, which allows communication between the homes and the concierge or security guard.

- Easy installation
- Medium-sized buildings, with 1 or multiple accesses
- Central concierge

TABLE OF CHARACTERISTICS

Wiring	2-wire non-polarised, flexible topology. ⁽¹⁾
Cable types	- Hose 2x1mm² (for distances up to 100m) - Hose 2x2, 5mm² (for maximum distances from 100m to 200m).
Connection of terminals	2 non-polarised wires. Possibility of shunt or cascade connection (from house to house).
Supply voltage	15Vdc

⁽¹⁾ The bus between the panel and the telephones lacks connection polarity.



The **4+N** system has become a classic, with years of experience and proven efficiency. It is perfect for replacements, both because of its low cost and its compatibility with 4+N systems from other manufacturers.

Each telephone in the installation is notably connected to 5 wires. Four are common to all the telephones in the installation, while the fifth is the call wire, independent for each home.





































- Standard system, compatible with other 4+N systems
- The most economical system
- Useful and intuitive
- Small buildings, with 1 access

TABLE OF CHARACTERISTICS

Wiring	4+N 4 common wires and N call wires ⁽¹⁾
Cable types	- Multiwire doorman hose (0.22mm²) - Power supply: parallel 2x1mm².
Connection of terminals	(5 wires)
Supply voltage	12Vca

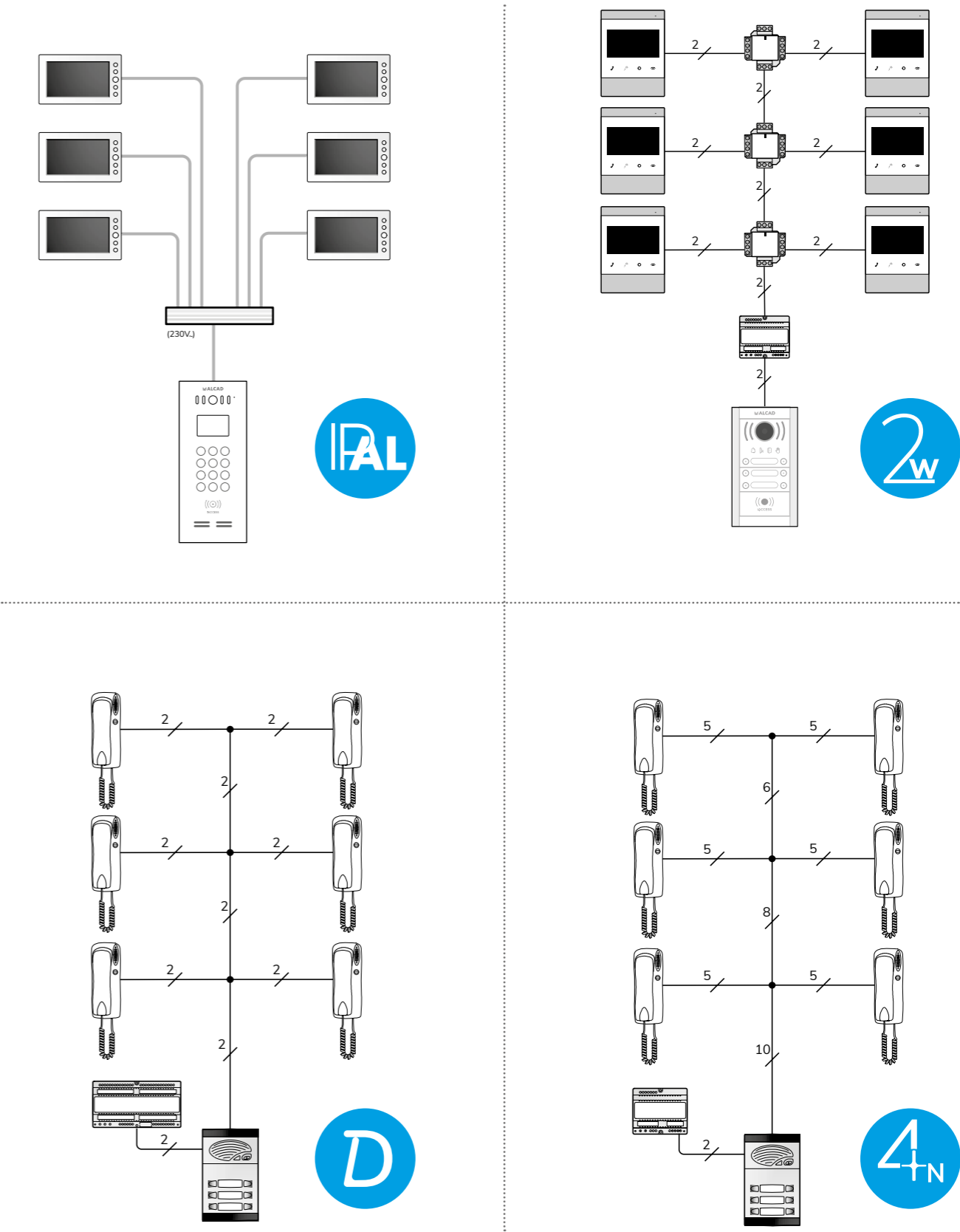
⁽¹⁾ N refers to the number of calls, or number of homes.

COMPARISON OF TECHNOLOGIES

	<div></div> <div>(page 96)</div>	<div></div> <div>(page 100)</div>	<div></div> <div>(page 130)</div>	<div></div> <div>(page 136)</div>
SIZE OF BUILDING				
REPLACEMENT USING EXISTING CABLE				
BUILDING COMPLEX Large Size				
BUILDING COMPLEX Medium Size				
CONCIERGE UNIT				
ACCESS CONTROL INTEGRATED IN THE iACCESS SYSTEM				
RECEPTION OF CALLS TO MOBILE PHONES		 ⁽¹⁾		
MONITORS WITH RECORDING OF UNANSWERED CALLS				

(1) Only for monitors with Wi-Fi, by downloading the specific APP on the mobile phone. Requires an Internet connection service for each home/office (not included in the system).

COMPARISON OF SCHEMES





THE IDEAL 100 % IP SYSTEM FOR LARGE BUILDING COMPLEXES

IPAL is the **intelligent 100% IP intercom and home management system** for buildings. It is ideal for large building complexes, and very useful in large, small or individual establishments *



* Projects on request. Request conditions

Main features:



Plug & Play

Plug and play.
Preconfigured at
our factory.



Ideal for installations with long distances

Suitable for all types of
buildings without limits,
from villas to large housing
estates and towers.



Intercom with two-way video

Advanced IP video door entry
system: unique intercom
system between neighbours
with two-way video.

2026 GENERAL CATALOGUE

IPAL

Home terminals

CODE	MODEL	DESCRIPTION
------	-------	-------------

COLOUR MONITORS

9630090	MVC-231	White monitor. 7" colour screen
9740227	CME-020	Standard flush box 86x86 IPAL

Entrance panels

ENTRANCE PANELS AND ACCESSORIES

9800158	PDK-20002	MIRU entrance panel with white touch-sensitive keypad and integrated RFID reader
9740228	CMO-702	Flush mounting box for PDK-20002 entrance panel
9800160	PDP-20011	IPAL vandal-proof 1 push-button entrance panel with flush box included

Concierge unit

CONCIERGE TERMINAL

9680025	COV-200	7" hands-free concierge terminal
9740227	CME-020	Flush box

Splitters and power supply units

TAP-OFFS, POWER SUPPLY UNITS

9730100	DIV-304	4 PoE outputs + 1 down/uplink input
9730101	DIV-308	Derivative switch. 8 PoE bypass outputs + 2SFP F.O.
9730099	DIV-324	Derivative switch. 24 PoE bypass outputs + 2SFP F.O.
9620023	ALC-290	Power supply 48V DC 65.3 VA 100-240 Vac



9630090
MVC-231



9800158
PDK-20002



9800160
PDP-20011



9680025
COV-200

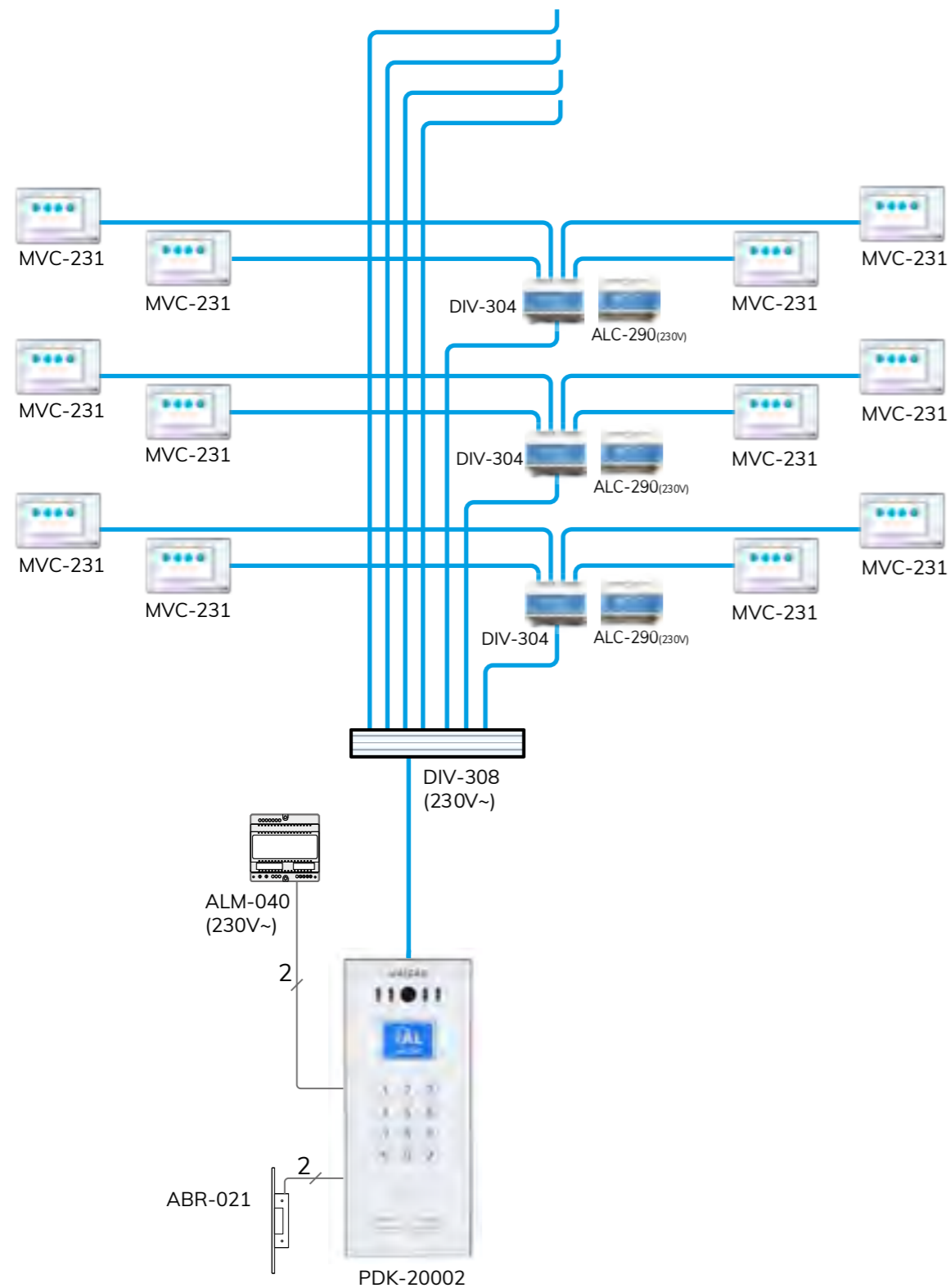


9730100
DIV-304



9620023
ALC-290

Diagram IPAL



COME FLY WITH US through ALCAD

Want to see our factory? We'll show it to you from a drone's perspective!

With over 12,000 square meters and a team of nearly 100 experts, our headquarters is fully equipped to design, manufacture, and market products proudly bearing the 'Made in Europe' seal.



Scan the QR code
to access the
video

2 WIRES

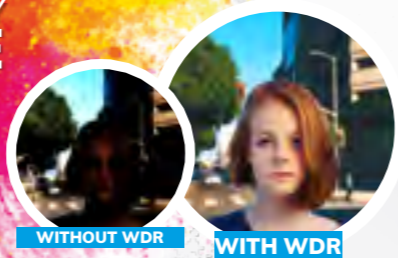
COLOURS

like you've never seen before

Thanks to its WDR function, our **ACTIVE VIEW** camera for 2-Wire system delivers astonishing quality, even in backlit conditions, glare and sudden changes in brightness

TECHNOLOGY
ACTIVE VIEW
integrated

Colours
like none you've
seen before



WDR function: delivers stunning image quality, even in extreme conditions



Usoa

Usoa stands out for the elegance of the tempered glass and its simple and discreet lines. Thanks to its modularity, it adapts to all needs.

p. 104



Aloi

Aloi is the latest generation of entrance panels, made of vandal-resistant AISI 316 L stainless steel. With a thickness of 2.5 mm, it offers maximum protection against impact and damage (IK09).

p. 112



With keypad

Both with **iBLACK aesthetics** as well as in its **vandal-proof stainless steel version**, ALCAD's keypad panels are the ideal solution for large buildings.

pages 116 / 120



Enara monitors

- Backlit capacitive buttons .
- Improved image quality .
- Logging of unanswered calls.
- **Languages:** English, French, Spanish...
- Push buttons for **auxiliary functions**.
- Slot for **Micro SD card**.

p. 102

4.3"



7"



Wi-Fi



SMARTPHONE APP



Android

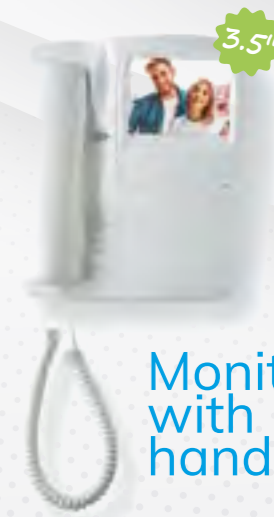


iOS

iACCESS
access control

iACCESS allows access to the facilities through the use of electronic keys, avoiding the use of traditional keys or having to memorise access codes.

p. 142

Monitor
with
handset

p. 102

Indoor units

TECHNOLOGY
ACTIVE VIEW
integrated

Colours like none you've seen before

WITHOUT WDR **WITH WDR**

WDR function: delivers stunning image quality, even in extreme conditions

Monitors & telephones

MONITOR / TELEPHONE + SUPPORT		DEFINITION	SCREEN	NO. OF AUXILIARY PUSH BUTTONS	CALL LOG OF UNANSWERED CALLS	AUTOMATIC DOOR OPENING	LANDING CALL	MICRO SD CARD SLOT	FORWARDS CALLS TO MOBILE PHONE	PHOTO NO.
CODE	MODEL									
9630087	MVC-141	Enara hands-free monitor with TFT screen	4.3"	1	✓	✓	✓	✓	✗	1
9630088	MVC-152	Enara hands-free monitor with TFT screen	7"	2	✓	✓	✓	✓	✓	2
9630086 9630031	MVC-018 SCM-051	Indoor unit with TFT screen Indoor unit holder	3.5"	2	✗	✓	✓	✗	✗	3
9600034	TET-002	Telephone	✗	1	✗	✗	✗	✗	✗	4
9600042	TET-302	Telephone	✗	1	✗	✗	✓	✗	✗	4

1

2

3

4

SMARTPHONE APP

Android iOS

Wi-Fi

Enara Wi-Fi

9630031
SCM-051

Accessories

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

TRIM FRAMES FOR ENARA MONITOR

9730104	MAE-401	Dimensiones: 120x240mm	1
9730105	MAE-402	Dimensiones: 210x240mm	1

ELECTRONIC ACCESSORIES

9730019	AAL-200	Electronic call extension	1
9730021	ASC-050	Selector switch accessory activated by means of electronic call, buzzer call or external signal	1
9730097	APX-013	Accessory to extend the functions of the audio unit	1

Available while stocks last



9730105
MAE-402



9730104
MAE-401



9730019
AAL-200



9730021
ASC-050

9630087 | MVC-141

9630088 | MVC-152

4.3"

7"

'Do not disturb' function

Slot for microSD card*

Touch-sensitive backlit buttons

Activate / deactivate communication

Door release

Auxiliary button 1

Menu button / auxiliary 2 **

Auto-on button

* microSD card not included.
** Only model MVC-152.

Receive calls on your mobile phone via the free APP

Wi-Fi

ENARA Neutral and minimalist design

TECHNOLOGY
**ACTIVE
VIEW**
integrated

Colours
like none you've
seen before



WDR function: delivers
stunning image quality, even
in extreme conditions



Protection against
water and dust **IP55**

Entrance panel **Usoa**

The elegance of
tempered glass

170°

Wide-angle

Enjoy a
camera with an
amazing angle of view

Double loudspeaker:
greater audio power

White LEDs for
night vision

Indicator lights
These guarantee accessibility
for any person

Includes synthesised
"door is open" message in
14 languages (English, French,
Spanish, etc.)

High-quality
tempered
glass surface

Cutting-edge:
Touch-sensitive
buttons make
cleaning easier and
reduce the likelihood
of mechanical
breakdowns.

Aluminium
frame

The energy-saving panel:

Its state-of-the-art sensors
avoid **unnecessary costs**:

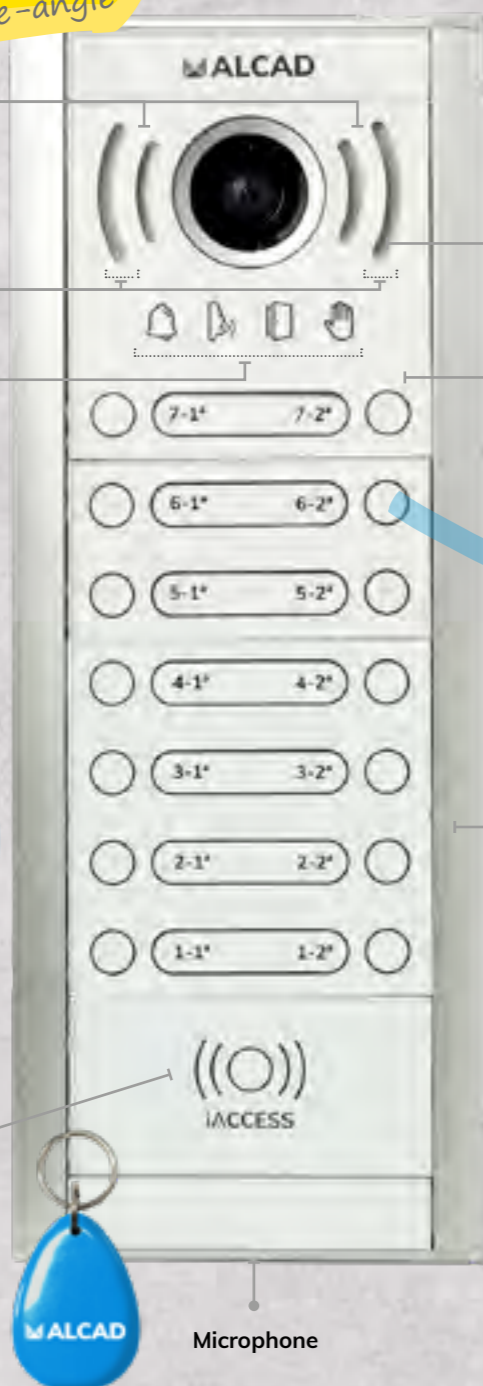
- Humidity and temperature sensors
automatically activate the **camera's
anti-fogging system**.
- The illumination features of card
holders and cameras light up in low
ambient light.

Audio-only module

For buildings
without a video
camera

Optional

iACCESS access
control: quick and
convenient access via an
electronic key



Microphone

**MADE IN
SPAIN**

Usoa entrance panel

Entrance panel components

CODE MODEL DESCRIPTION MOQ

FRAMES

9710002	FRA-002	2 windows	1
9710003	FRA-003	3 windows	1
9710004	FRA-004	4 windows	1
9710005	FRA-005	5 windows	1
9710006	FRA-006	6 windows	1
9710007	FRA-007	7 windows	1
9710008	FRA-008	8 windows	1
9710009	FRA-009	9 windows	1
9710010	FRA-010	10 windows	1

COMPLETE MODULES

WITH AUDIO AND VIDEO. 2 WINDOWS

9710012	MVG-000	Audio and video	1
9710011	MVG-011	Audio and video 1 button	1
9710013	MVG-021	Audio and video 2 buttons	1

COMPLETE MODULES

WITH AUDIO. 2 WINDOWS

9710015	MAG-000	Audio	1
9710014	MAG-011	Audio 1 button	1
9710016	MAG-021	Audio 2 buttons	1

PUSH-BUTTON MODULES

1 WINDOW

9710017	MPP-011	1 single push-button	1
9710018	MPP-021	1 double push-button	1
9710019	MPP-012	2 single push-buttons	1
9710020	MPP-022	2 double push-buttons	1

PUSH-BUTTON MODULES

2 WINDOWS

9710021	MPG-013	3 single push-buttons	1
9710023	MPG-023	3 double push-buttons	1
9710022	MPG-014	4 single push-buttons	1
9710024	MPG-024	4 double push-buttons	1



9710012
MVG-000



9710013
MVG-021



9710015
MAG-000



9710014
MAG-011



9710017
MPP-011



9710020
MPP-022



9710021
MPG-013



9710024
MPG-024



9710005
FRA-005



9710009
FRA-009

EXAMPLE OF COMPOSITION



FRA-005
FRAME
5 WINDOWS



MVG-021
MODULE
2 WINDOWS



MPG-024
MODULE
2 WINDOWS



MLP-000
MODULE
1 WINDOW

=



Usa entrance panel

Entrance panel components



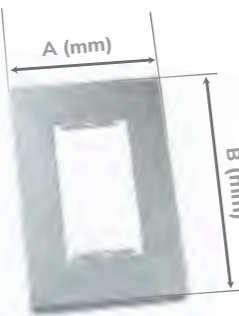
9710025
MLP-000



9710026
MCP-000



9730106
HST-002



9740047
MAR-900



9710030
CUT-010

Customise your installation in a simple and elegant way!

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

MODULES WITH OTHER FUNCTIONS
1 WINDOW

9710025	MLP-000	iACCESS reader module	1
9710028	MTP-000	Card holder module	1
9710026	MCP-000	Blank module	1

MODULES WITH OTHER FUNCTIONS
2 WINDOWS

9710029	MTG-000	Double card holder module	1
9710027	MCG-000	Double blank module	1

Including the necessary connection jumpers for standard installation on a single frame.

ACCESSORIES AND TOOLS

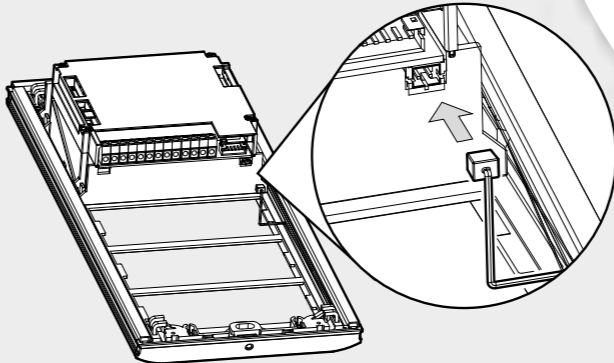
9730106	HST-002	Front extraction tool	1
9770084	RVE-033	Connection cable, 1,000 mm	1
9770135	RVE-037	Set of connection cables	1

FRAMES AND TRIMS

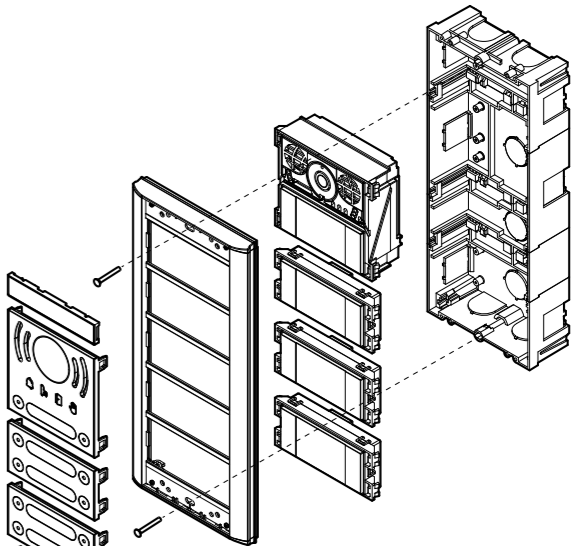
9740047	MAR-900	Frame for single entrance panel *	1
9740016	MAR-901	Frame for double entrance panel *	1
9740017	MAR-902	Frame for triple entrance panel *	1
9710030	CUT-010	Custom screw cover (10 units)	1

* Made to measure in anodised aluminium. For ordering examples, see page 145

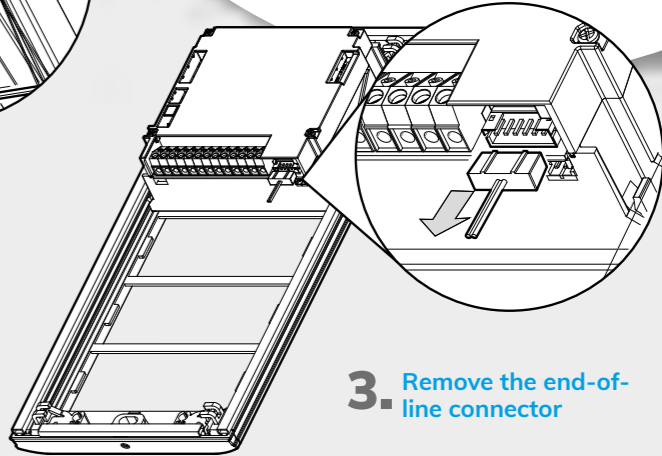
The modular board that adapts to you



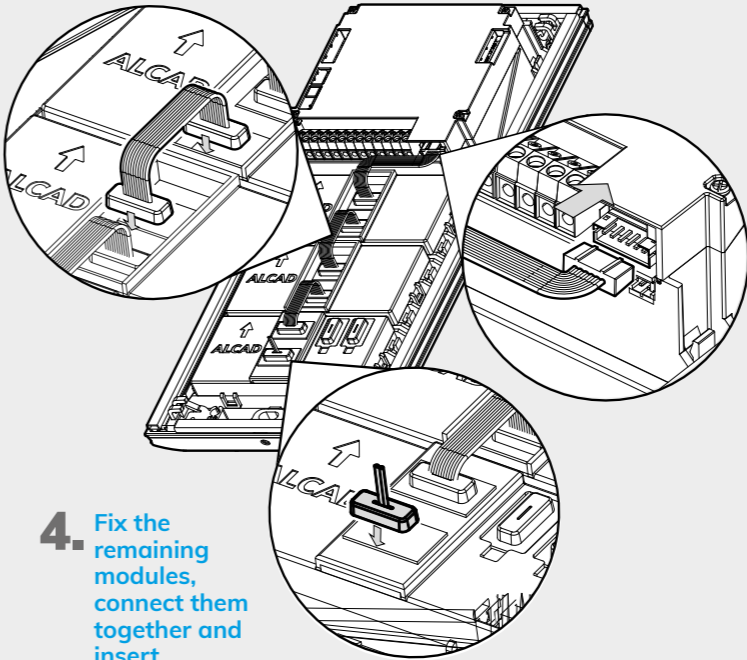
2. Fix the main module module and connect the microphone



1. Choose the different components and assemble the entrance panel



3. Remove the end-of-line connector



4. Fix the remaining modules, connect them together and insert the end-of-line connector

A simple start-up

We have left no detail to chance in order to simplify the implementation of an Usa entrance panel as far as possible.

And once you have all the modules connected together, the only thing left to do is to customise it:

- On the front, place the push-button identification cards.
- Voice messages: select language and spoken messages.
- Main module: adjusts the light sensor, the illumination of the card holders and the camera with active communication, the anti-fog system with heater and the audio.



9740006
CMO-004



9740004
CEM-001



9740234
CSU-712



9740251
VIS-312



9740136
VIS-211

Usaa entrance panel

Entrance panel components

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH BOXES

9740005	CMO-002	2 windows	1
9740006	CMO-004	3 windows	1
9740007	CMO-006	4 windows	1
9740008	CMO-008	5 windows	1
9740009	CMO-010	6 windows	1
9740010	CMO-012	7 windows	1
9740011	CMO-014	8 windows	1
9740012	CMO-016	9 windows	1
9740015	CMO-018	10 windows	1
9740004	CEM-001	Horizontal separator	1

SURFACE BOXES

9740234	CSU-712	2 windows	1
9740235	CSU-713	3 windows	1
9740236	CSU-714	4 windows	1
9740237	CSU-715	5 windows	1
9740238	CSU-716	6 windows	1
9740239	CSU-717	7 windows	1
9740240	CSU-718	8 windows	1
9740241	CSU-719	9 windows	1
9740242	CSU-710	10 windows	1

SINGLE VISORS
FOR FLUSH-MOUNTING BOX

9740251	VIS-312	2 windows	1
9740252	VIS-313	3 windows	1

SINGLE VISORS
FOR SURFACE BOX

9740136	VIS-211	2 windows	1
9740137	VIS-212	3 windows	1

Usaa entrance panel

Entrance panel components

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

iACCESS
IACCESS READER MODULE

9710025	MLP-000	iACCESS reader module	1
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iACCESS
RFID KEYS FOR RESIDENTS

KEYRING FORMAT			
9690018	LAC-020	Set of 5 keys for one home (no. 0, 1, 2, 3 and 4)	1
9690001	LAC-000	10 keys no. 0	1
9690002	LAC-001	10 keys no. 1	1
9690003	LAC-002	10 keys no. 2	1
9690004	LAC-003	10 keys no. 3	1
9690005	LAC-004	10 keys no. 4	1
9690006	LAC-005	10 keys no. 5	1
CARD FORMAT			
9690040	LAC-200	10 cards	1

Available while stocks last

iACCESS
SPECIAL RFID KEYS

KEYRING FORMAT			
9690016	LAC-010	For MLP-000 module configuration	1
9690017	LAC-011	For access to multiple installations	1

iACCESS
KEY PROGRAMMER

KEYRING FORMAT			
9690010	PLO-000	USB proximity key programmer	1

For more information on the iACCESS system,
see pages 142-143



9710025
MLP-000



9690001
LAC-000



9690040
LAC-200



9690017
LAC-011



9690010
PLO-000

Usaa entrance panel

Installation components:
electric locks



9730087
ABR-021



9730004
CNP-001



9620011
ALM-040



9730021
ASC-050

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS
WITH ADJUSTABLE LATCH

UNIVERSAL			
9730087	ABR-021	Simple 12-18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking 15V DC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15V DC	1

ACCESSORIES

9730004	CNP-001	Door contact	1
9620011	ALM-040	25 VA power supply, intercom	1
9730021	ASC-050	Relay for high consumption door opening control	1

Usaa entrance panel

Installation components:
power supply units, splitters and regenerators

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

POWER SUPPLY AND VOLTAGE REGENERATION

9650004	ALS-020	Power supply interface	1
9650013	REG-050	BUS voltage regenerator	1

STOREY TAP-OFFS
WITH INLET AND PASS-THROUGH OUTLET, 1 OR 4 TAP-OFFS
FOR INDOOR UNITS

9730102	DIV-464	4 outputs, compact	5
9730079	DIV-061	1 output	1
9770052	RVE-017	Line termination load	1

SPLITTERS
BI-DIRECTIONAL SPLITTERS 2 OR 4 LINES

9730082	DIV-152	2 lines	1
9730071	DIV-154	4 lines	1

REGENERATORS
SIGNAL AMPLIFIERS

9650022	REG-054	Descendant audio and video	1
9650021	REG-053	Ascendant audio signal amplifi er	1

CABLES

RECOMMENDED (OPTIMIZED SCREENED SLEEVED CABLE)			
9750009	CAB-307	2x1 mm² (100m reels)	100
SMALL FACILITIES (SLEEVED CABLE)			
9750005	CAB-007	2x1 mm² (100m reels)	100
9750002	CAB-004	2x0.5 mm² (100m reels)	100



9650004
ALS-020



9730102
DIV-464



9730079
DIV-061



9770052
RVE-017



9730082
DIV-152



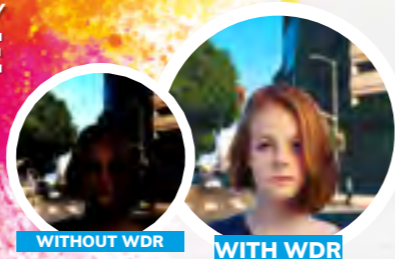
9650022
REG-054

Entrance panel Aloi

Vandal-proof and
built to endure

TECHNOLOGY
**ACTIVE
VIEW**
integrated

Colours
like none you've
seen before



WDR function: delivers
stunning image quality, even
in extreme conditions

Enjoy a
camera with an
amazing angle of view

170°

Wide-angle

"Door is
open"

Includes synthesised
"door is open" message in 14
languages (English, French,
Spanish, etc.)

White LEDs for night
lighting

Illuminated icons that
aid accessibility



Protection against
water and dust **IP55**

Resistant!

**Stainless steel
AISI 316 L** with
thickness of 2.5mm
+ shock and impact
protection up to
degree IK09

Buttons for
calling and
backlit label
holders

Microphone

**iACCESS
module**

It offers convenient
and secure access
control by electronic
key

**MADE IN
SPAIN**

2026 GENERAL CATALOGUE

Aloi entrance panel

Entrance panel components

CODE MODEL DESCRIPTION MOQ

COMPLETE VANDAL-RESISTANT MODULES

STAINLESS STEEL WITH PUSH BUTTONS AND COMPLETE MODULE (CAMERA, VOICE
SYNTHESIZER, AUDIO MODULE AND ACCESSIBILITY DISPLAY)

SINGLE PUSH BUTTONS			
9800227	PTS-63201	1 (single)	1
DOUBLE PUSH BUTTONS			
9800237	PTD-63201	2 (1 double)	1
9800238	PTD-63202	4 (2 doubles)	1
9800239	PTD-63203	6 (3 doubles)	1
9800240	PTD-63204	8 (4 doubles)	1
9800241	PTD-63205	10 (5 doubles)	1
9800242	PTD-63206	12 (6 doubles)	1
9800243	PTD-63207	14 (7 doubles)	1
9800244	PTD-63208	16 (8 doubles)	1

VANDAL-RESISTANT EXTENSIONS

VANDAL-RESISTANT STAINLESS STEEL WITH
PUSH BUTTONS AND CARD HOLDER / iACCESS READER

DOUBLE PUSH BUTTONS			
9800259	PTD-64201	2 (1 double)	1
9800260	PTD-64202	4 (2 doubles)	1
9800261	PTD-64203	6 (3 doubles)	1
9800262	PTD-64204	8 (4 doubles)	1
9800263	PTD-64205	10 (5 doubles)	1
9800264	PTD-64206	12 (6 doubles)	1
9800265	PTD-64207	14 (7 doubles)	1
9800266	PTD-64208	16 (8 doubles)	1

iACCESS

RFID READER

9690035	LPR-010	Panel with integrated reader	1
9690038	CCA-004	Central unit. Advanced management 1 door	1
9620011	ALM-040	25 VA power supply	1

FLUSH BOX

9740243	CMO-601	For module	1
9740244	CMO-602	For 1 or 2 storeys	1
9740245	CMO-604	For 3 or 4 storeys	1
9740246	CMO-606	For 5 or 6 storeys	1
9740247	CMO-608	For 7 or 8 storeys	1
9740225	CEM-003	Separator	1

ACCESSORIES

9740231	MAR-600	Frame 1 entrance panel *	1
9740232	MAR-601	Frame 2 entrance panels *	1
9670203	MVN-961	Separate camera entrance panel (audio + video)	1

* Made to measure in stainless steel
For examples, see page 144



9800227
PTS-63201



9800244
PTD-63208



9800266
PTD-64208



9670203
MVN-961



9730087
ABR-021



9730004
CNP-001



9620011
ALM-040



9730021
ASC-050

Aloi entrance panel

Installation components:
door opener

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS
WITH ADJUSTABLE LATCH

UNIVERSAL			
9730087	ABR-021	Simple 12-18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking 15V DC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15V DC	1

ACCESSORIES

9730004	CNP-001	Door contacts	1
9620011	ALM-040	25 VA power supply, intercom	1
9730021	ASC-050	Relay for high consumption door opening control	1

Aloi entrance panel

Installation components:
power supply units, splitters and regenerators

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

POWER SUPPLY AND VOLTAGE REGENERATION

9650004	ALS-020	Power supply interface	1
9650013	REG-050	BUS voltage regenerator	1

STOREY TAP-OFFS
WITH INLET AND PASS-THROUGH OUTLET, 1 OR 4 TAP-OFFS FOR INDOOR UNITS

9730102	DIV-464	4 outputs, compact	5
9730079	DIV-061	1 output	1
9770052	RVE-017	Line termination load	1

SPLITTERS
BI-DIRECTIONAL SPLITTERS 2 OR 4 LINES

9730082	DIV-152	2 lines	1
9730071	DIV-154	4 lines	1

REGENERATORS
SIGNAL AMPLIFIERS

9650022	REG-054	Descendant audio and video	1
9650021	REG-053	Ascendant audio signal amplifier	1

CABLES

RECOMMENDED (OPTIMIZED SCREENED SLEEVED CABLE)			
9750009	CAB-307	2x1 mm² (100m coils)	100
SMALL FACILITIES (SLEEVED CABLE)			
9750005	CAB-007	2x1 mm² (100m coils)	100
9750002	CAB-004	2x0.5 mm² (100m coils)	100



9650004
ALS-020



9650013
REG-050



9730102
DIV-464



9730079
DIV-061



9770052
RVE-017



9730082
DIV-152



9650022
REG-054



9750005
CAB-007

Entrance panel iBLACK

Perfect for large
neighbourhood communities

TECHNOLOGY
**ACTIVE
VIEW**
integrated

Colours
like none you've
seen before



WDR function: delivers
stunning image quality, even
in extreme conditions

ENTRANCE PANEL

DIRECTORY PANEL (OPTIONAL)

Camera with
Active View
technology

White LEDs
for night
lighting

Includes synthesised
"door is open"
message

Electronic
directory and
3.5" TFT colour
display

Also available
in audio-only
version

Keypad for
access control

Up to 1,500
residents

Continuous
aluminium
profile

Backlit directory. Displays the
call number corresponding to
each of the homes in the
installation.

MADE IN
SPAIN

2026 GENERAL CATALOGUE

iBLACK entrance panel

Entrance panel components

CODE	MODEL	DESCRIPTION	MOQ
ENTRANCE PANELS WITH ALPHANUMERIC KEYPAD			
9800195	PDK-51210	Street panel with intercom unit, camera, TFT screen, electronic directory and keypad	1
9610048	GRF-304	Intercom unit to convert PDK-51210 panel for gate or outdoor use	1
9800079	PAK-51010	Street panel with intercom unit, TFT screen, electronic directory and keypad	1
9800077	PTN-50000	With directory for identification by home-call code	1

iACCESS RFID READER

9690033	LPR-900	Compact panel with iACCESS reader	1
9690030	LPR-500	iBLACK proximity reader module	1
9690038	CCA-004	iACCESS control unit. 1 door	1
9800114	PNK-50000	Entrance panel with keypad for access control	1

ELECTRONIC ACCESSORIES

9730006	APC-001	Common door: activates the same door opener from several street panels	1
9730097	APX-013	Double relay for commands with auxiliary buttons from home terminals and other functions	1
9730021	ASC-050	Relay for commands with special door openers and other functions	1
9730086	CCV-001	To connect a CCTV camera to an audio entrance panel	1

FLUSH BOX

9740005	CMO-002	1 or 2 storeys	1
9740009	CMO-010	9 or 10 storeys	1
9740004	CEM-001	Separators (2 units)	1

SURFACE BOX

9740172	CSU-000	Separator	1
---------	---------	-----------	---

FRAMES

9740047	MAR-900	Frame for single entrance panel *	1
9740016	MAR-901	Frame for double entrance panel *	1
9740017	MAR-902	Frame for triple entrance panel *	1

* Made to measure in anodised aluminium.
For ordering examples, see page 151

VISORS

FOR FLUSH-MOUNTING BOX

9740251	VIS-312	2 storeys	1
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FOR SURFACE BOX

9740136	VIS-211	2 storeys	1
---------	---------	-----------	---

Available while stocks last



9800195
PDK-51210



9800079
PAK-51010



9800077
PTN-50000



9730087
ABR-021



9730004
CNP-001



9620011
ALM-040



9730021
ASC-050

iBLACK entrance panel

Installation components:
electric locks

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS
WITH ADJUSTABLE LATCH

UNIVERSAL			
9730087	ABR-021	Simple 12-18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking 15V DC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15V DC	1

ACCESSORIES

9730004	CNP-001	Door contacts	1
9620011	ALM-040	25 VA power supply, intercom	1
9730021	ASC-050	Relay for high consumption door opening control	1

iBLACK entrance panel

Installation components:
power supply units, splitters and regenerators

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

POWER SUPPLY AND VOLTAGE REGENERATION

9650004	ALS-020	Power supply interface	1
9650013	REG-050	BUS voltage regenerator	1

FLOOR TAP-OFFS
WITH INLET AND PASS-THROUGH OUTLET, 1 OR 4 TAP-OFFS
FOR INDOOR UNITS

9730102	DIV-464	4 outputs, compact	5
9730079	DIV-061	1 output	1
9770052	RVE-017	Line termination load	1

SPLITTERS
BI-DIRECTIONAL SPLITTERS 2 OR 4 LINES

9730082	DIV-152	2 lines	1
9730071	DIV-154	4 lines	1

REGENERATORS
SIGNAL AMPLIFIERS

9650022	REG-054	Descendant audio and video	1
9650021	REG-053	Ascendant audio signal amplifi er	1

CABLES

RECOMMENDED (OPTIMIZED SCREENED SLEEVED CABLE)			
9750009	CAB-307	2x1 mm² (100m coils)	100
SMALL FACILITIES (SLEEVED CABLE)			
9750005	CAB-007	2x1 mm² (100m coils)	100
9750002	CAB-004	2x0.5 mm² (100m coils)	100



9650004
ALS-020



9730102
DIV-464



9730079
DIV-061



9770052
RVE-017



9730082
DIV-152



9650022
REG-054

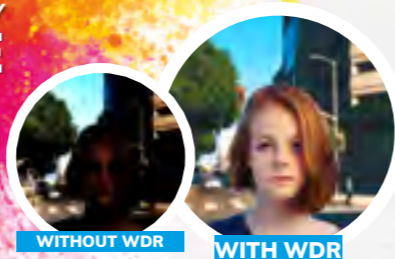
Entrance panel

Vandal-resistant with keypad

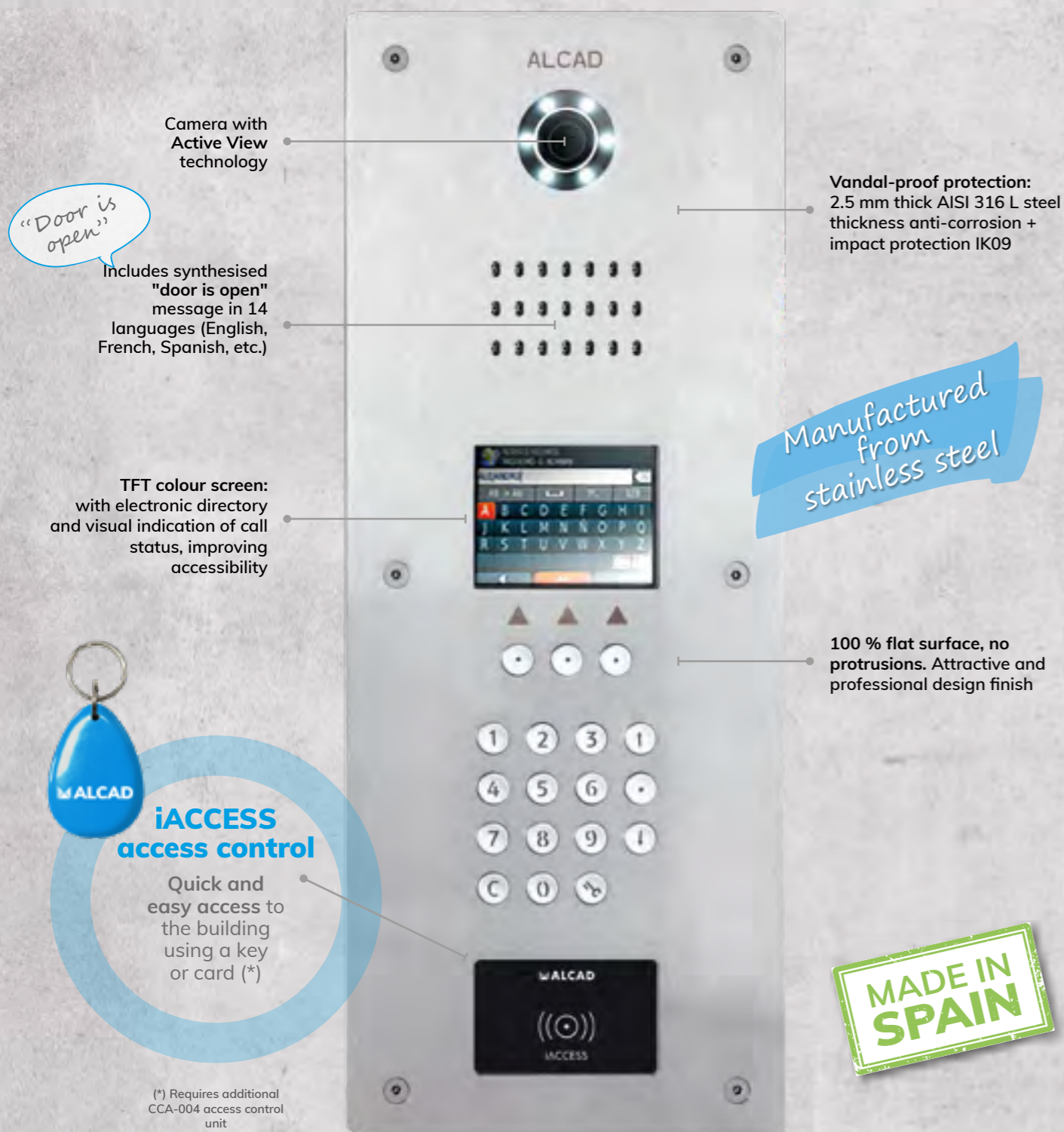
The ready-to-install all-in-one solution

TECHNOLOGY
ACTIVE VIEW
integrated

Colours like none you've seen before



WDR function: delivers stunning image quality, even in extreme conditions



(*) Requires additional CCA-004 access control unit

Vandal-resistant entrance panel

Entrance panel components

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

ENTRANCE PANEL WITH KEYPAD AND ACCESS CONTROL

9800196	PDK-61211	With numeric keypad, TFT screen, colour camera, iACCESS reader and GRF-302 *	1
---------	------------------	--	---

* To convert into a gate panel, it must be ordered with a GRF-304.

iACCESS RFID READER

9690038	CCA-004	iACCESS control unit. 1 door	1
---------	----------------	------------------------------	---

ELECTRONIC ACCESSORIES

9730006	APC-001	Common door: activates the same electric lock from several entrance panels	1
9730097	APX-013	Double relay for commands with auxiliary buttons from indoor units and other functions	1
9730021	ASC-050	Relay for commands with special electric locks and other functions	1

Available while stocks last

Installation components:
electric locks

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS WITH ADJUSTABLE LATCH

UNIVERSAL			
9730087	ABR-021	Simple 12-18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking 15V DC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15V DC	1

ACCESSORIES

9730004	CNP-001	Door contact	1
9620011	ALM-040	25 VA power supply, intercom	1
9730021	ASC-050	Relay for high-power door opener control	1



9800196
PDK-61211



9690038
CCA-004



9730006
APC-001



9730021
ASC-050



9730087
ABR-021

Vandal-resistant entrance panel

Installation components:
power supply units, splitters and regenerators

CODE	MODEL	DESCRIPTION	MOQ
POWER SUPPLY AND VOLTAGE REGENERATION			
9650004	ALS-020	Power supply interface	1
9650013	REG-050	BUS voltage regenerator	1
STOREY TAP-OFFS			
WITH INLET AND PASS-THROUGH OUTLET, 1 OR 4 TAP-OFFS FOR INDOOR UNITS			
9730102	DIV-464	4 outputs, compact	5
9730079	DIV-061	1 output	1
9770052	RVE-017	Line termination load	1
SPLITTERS			
BI-DIRECTIONAL SPLITTERS 2 OR 4 LINES			
9730082	DIV-152	2 lines	1
9730071	DIV-154	4 lines	1
REGENERATORS			
SIGNAL AMPLIFIERS			
9650022	REG-054	Descendant audio and video	1
9650021	REG-053	Ascendant audio signal amplifier	1
CABLES			
RECOMMENDED (OPTIMIZED SCREENED SLEEVED CABLE)			
9750009	CAB-307	2x1 mm² (100m coils)	100
SMALL FACILITIES (SLEEVED CABLE)			
9750005	CAB-007	2x1 mm² (100m coils)	100
9750002	CAB-004	2x0.5 mm² (100m coils)	100



KIT erlea plus

The perfect union between design and technology

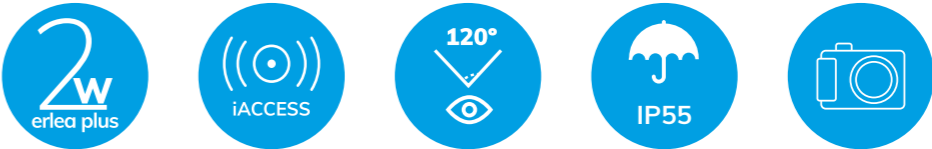
The **erlea plus** video door entry kit for **single-family homes** facilitates access control to the property and identifies the person making the call.

In addition, its **auto switch-on system** allows the image captured by the camera to be viewed without the need to receive a call.

As an additional feature, the monitor incorporates an **automatic image capture log of unanswered calls**. Thus, when a call has not been answered, it automatically stores the image of the person who made the call.

Includes **DIN rail power supply** for professional installations.

- ### Benefits
- Entrance panel with glass-type finish and **high-strength zamak aluminium** visor. IP55 protection.
 - **120° wide-angle** camera.
 - **Touch button**.
 - **iACCESS** reader.
 - **5 RFID keys**: 3 for door opening and 2 for configuration.
 - **7-inch hands-free monitor** with touch screen.



Standard quotes and diagrams

Usaa

STANDARD QUOTE.
1 ACCESS POINT

NO. HOUSES	MODEL															
	MVC-141	FRA-003	FRA-004	FRA-005	FRA-006	MVG-000	MVG-011	MVG-021	MPP-011	MPP-012	MPP-021	MPG-014	MPG-024	MTG-000	ALS-020	ABR-021
1x3	3	1				1		1								1
2x3	6	1				1		1				1	3		1	1
2x4	8	1			1							1	4		1	1
2x5	10	1						1				1	5		1	1
2x6 * 12	12	1	1					1	1			1	6		1	1
3x4	12	2	1					1	1	1		1	4	1	2	1
3x5	15	2			1	1		1	1	1		1	5	1	2	1
3x6	18	2	1		1	1	1	1	1	1		1	6	1	2	1
4x4	16	2	1					2	1	1	4	1	2		1	1
4x5	20	2			1	1		2	1	1	5	1	2		2	1
4x8	32		2	1				4	1	1	8	1		2	1	1

* Installation for 2 homes per floor and 6 floors.

STANDARD QUOTE.
2 ACCESS POINTS

NO. HOUSES	MODEL															
	MVC-141	FRA-003	FRA-004	FRA-005	FRA-006	MVG-000	MVG-011	MVG-021	MPP-011	MPP-012	MPP-021	MPG-014	MPG-024	MTG-000	ALS-020	ABR-021
1x3	3	2				2		2								2
2x3	6	2				2		2				1	3	1	1	2
2x4	8	2			2							1	4	1	1	2
2x5	10	2						2				1	5	1	1	2
2x6 * 12	12	2	2					2	2			2	2	1	6	2
3x4	12	4	2					2	2	2	1	4	1	1	2	4
3x5	15	4			2	2		2	2	2	1	5	1	1	2	4
3x6	18	4	2		2	2	2	2	2	2	1	6	1	1	2	4
4x4	16	4	2					4	2	1	4	1	1	2	4	2
4x5	20	4			2	2		4	2	1	5	1	1	2	4	2
4x8	32		4	2				8	2	1	8	1	1	2	4	2

* Installation for 2 homes per floor and 6 floors.

DIAGRAM
1 ACCESS POINT

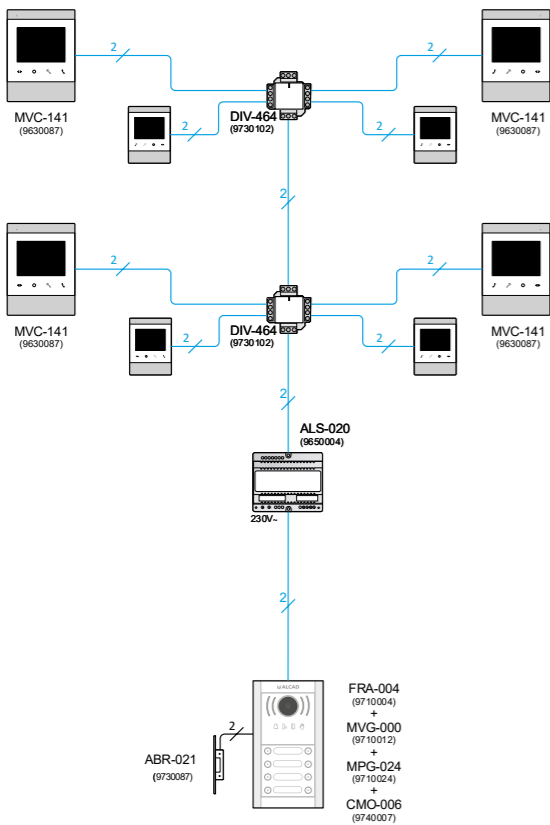
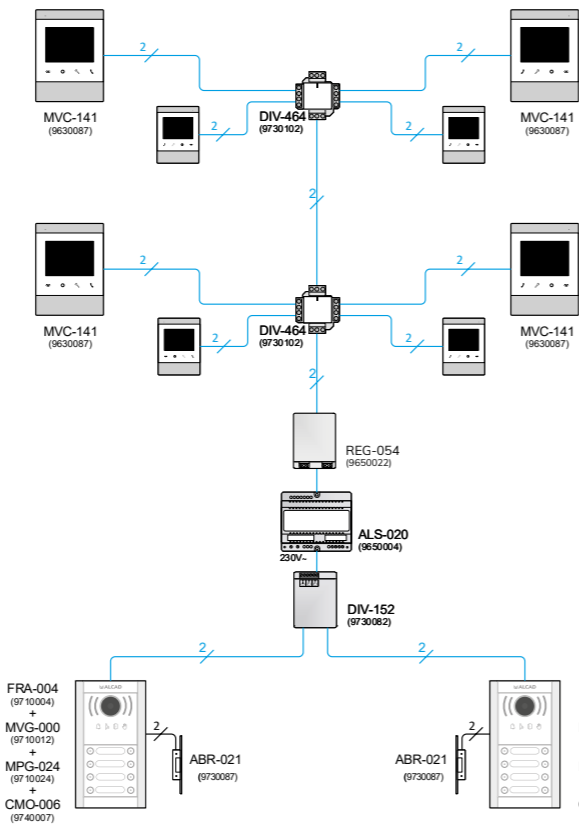


DIAGRAM
2 ACCESS POINTS



STANDARD QUOTE.
1 ACCESS POINT

NO. HOUSES	MODEL															
	MVC-141	PTS-63203	PTD-63203	PTD-63204	PTD-63205	PTD-63206	PTD-63208	PTS-64204	PTS-64205	PTS-64206	PTS-64208	ALS-020	DIV-061	DIV-464	RVE-017	CEM-003
1x3	3	1										1	3	1	1	1
2x3	6	1										1	3	1	1	1
2x4	8		1									1	4	1	1	1
2x5	10		1									1	5	1	1	1
2x6 * 12	12			1								1	6	1	1	1
3x4	12		1		1							1	4	1	2	1
3x5	15		1		1							1	5	1	2	1
3x6	18		1		1							1	6	1	2	1
4x4	16	1	1		1							1	4	1	2	1
4x5	20		1			1						1	5	1	2	1
4x8	32				1		1	1	8	1		2	1			1

* Installation for 2 homes per floor and 6 floors.

STANDARD QUOTE.
2 ACCESS POINTS

NO. HOUSES	MODEL															
	MVC-141	PTS-63203	PTD-63203	PTD-63204	PTD-63205	PTD-63206	PTD-63208	PTS-64204	PTS-64205	PTS-64206	PTS-64208	ALS-020	DIV-061	DIV-464	RVE-017	CEM-003
1x3	3	2										1	3	1	1	1
2x3	6	2										1	3	1	1	1
2x4	8		2									1	4	1	1	1
2x5	10		2									1	5	1	1	1
2x6 * 12	12			2								1	6	1	1	1
3x4	12		2		2							1	4	1	1	2
3x5	15		2		2							1	5	1	1	2
3x6	18		2		2							1	6	1	1	2
4x4	16	2				2						1	4	1	1	2
4x5	20		2				2					1	5	1	1	2
4x8	32				2		2	1	8	1	1	2	1	1	2	4

* Installation for 2 homes per floor and 6 floors.

DIAGRAM
1 ACCESS POINT

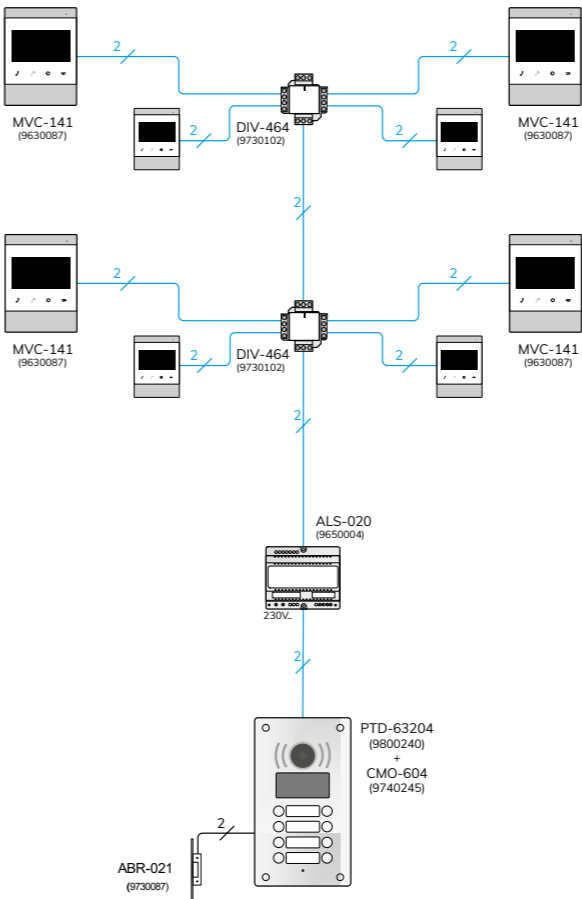
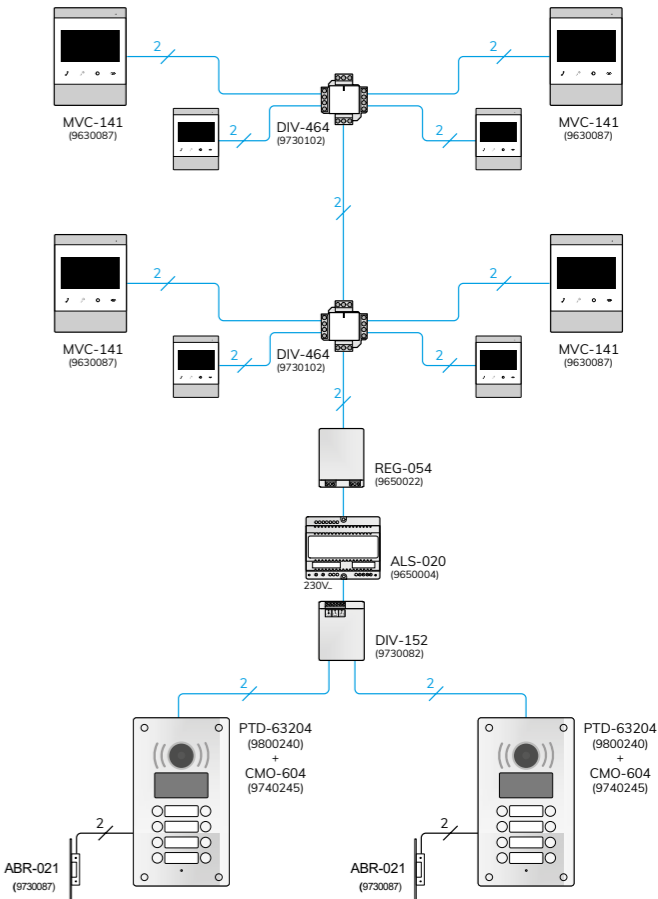
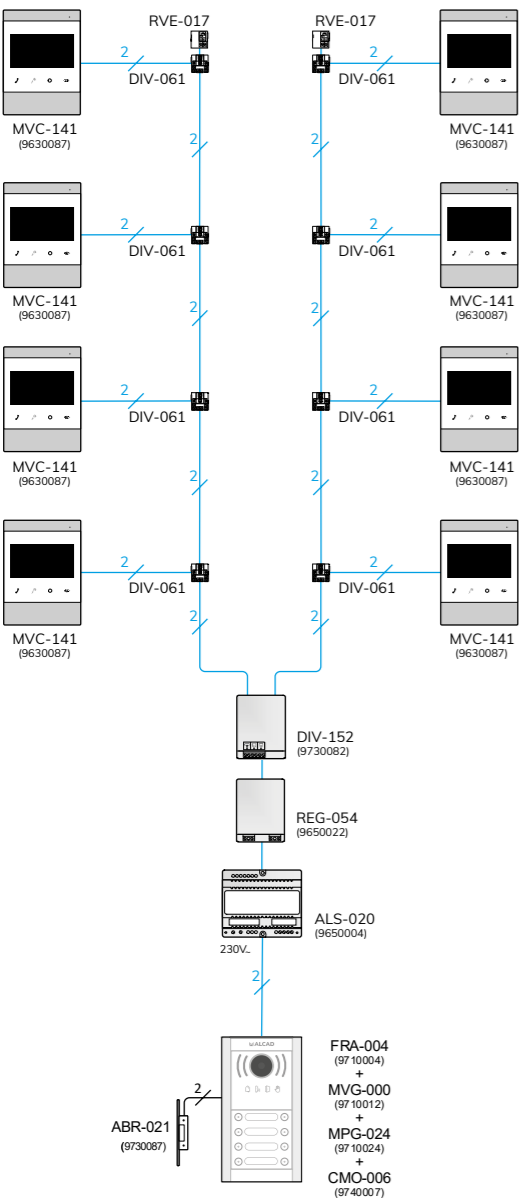


DIAGRAM
2 ACCESS POINTS

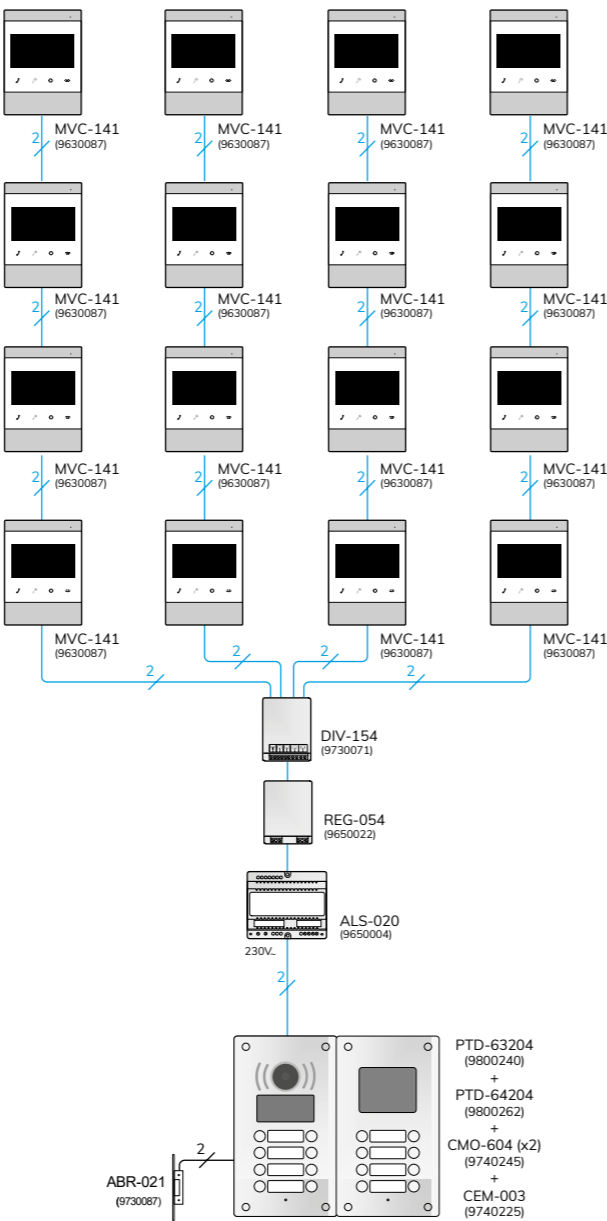


Diagrams
2 wires

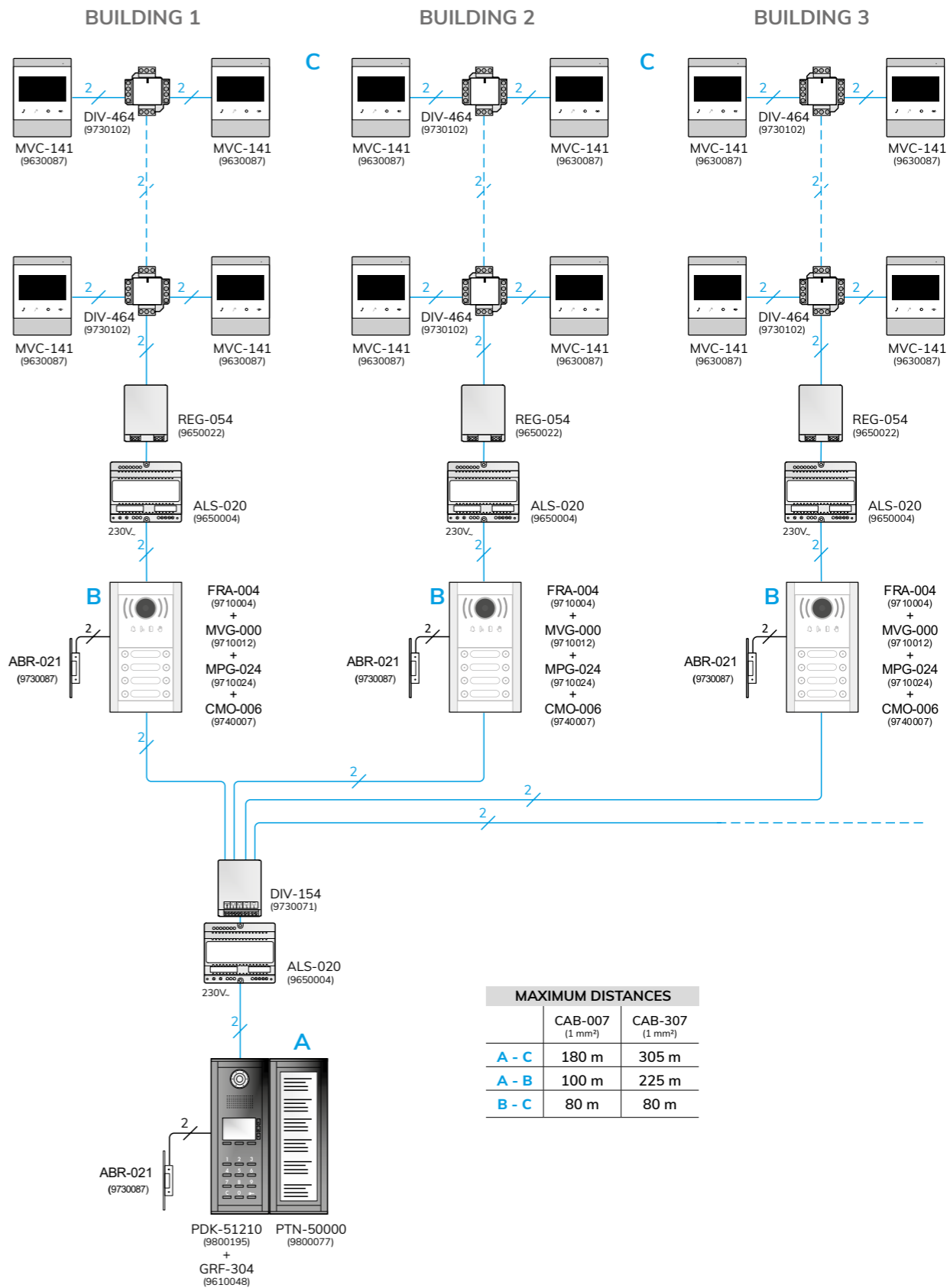
STANDARD DIAGRAM.
BUILDING WITH 2 TRUNKS AND
MONITORS IN PARALLEL CONNECTION



STANDARD DIAGRAM.
BUILDING WITH 4 TRUNKS
AND MONITORS IN CASCADE

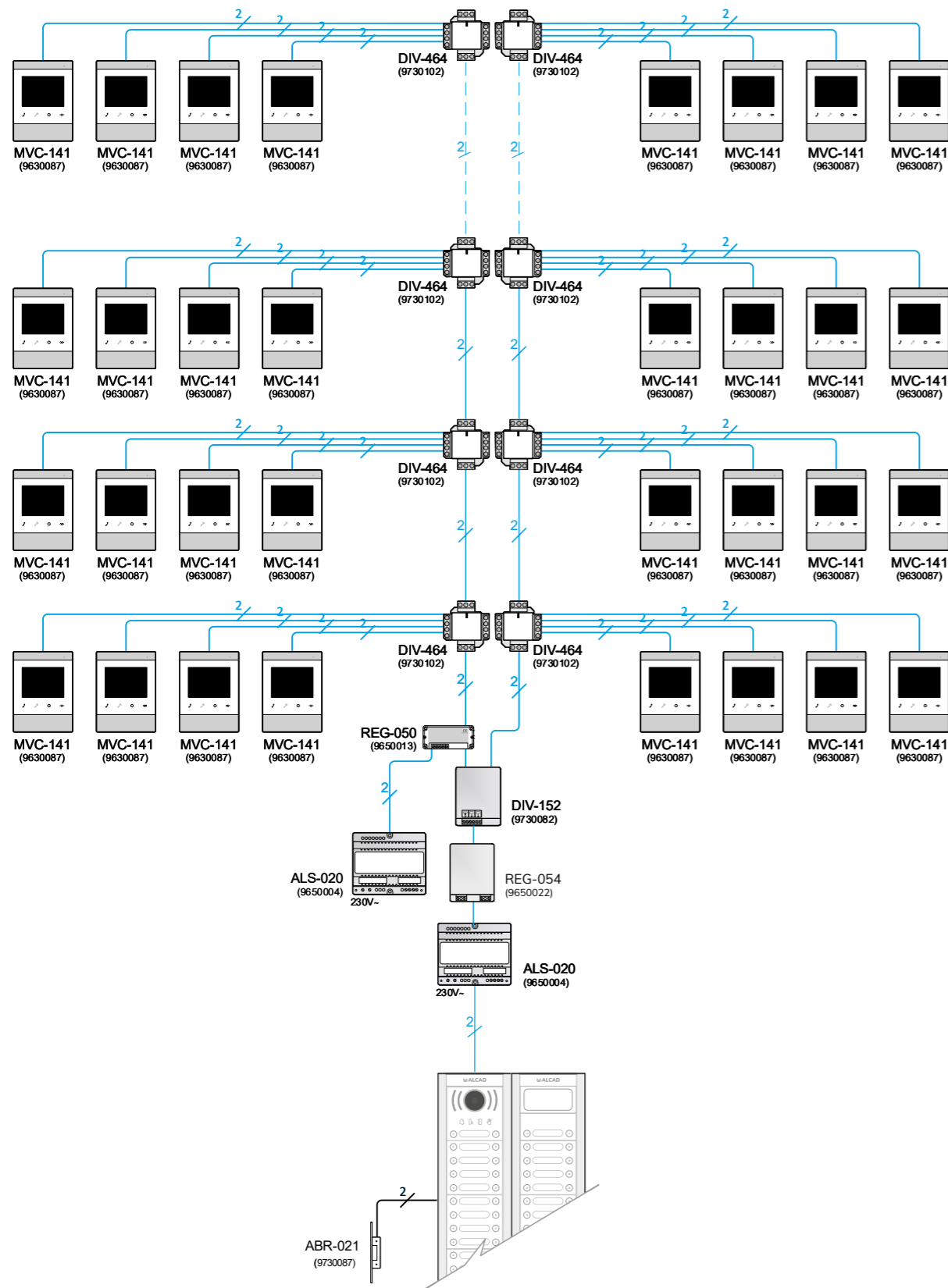


STANDARD DIAGRAM.
RESIDENTIAL DEVELOPMENT
WITH EXTERNAL ACCESS



MAXIMUM DISTANCES		
	CAB-007 (1 mm ²)	CAB-307 (1 mm ²)
A - C	180 m	305 m
A - B	100 m	225 m
B - C	80 m	80 m

STANDARD DIAGRAM.
BUILDING WITH BETWEEN
33 AND 64 HOMES



Colours
like none you've
seen before

* More information
on page 112

The new vandal-
resistant entrance
panels combine
the concepts of
robustness and
design to meet
the expectations
of those looking
for a modern and
attractive solution

NEW
ALOJ
RANGE

IT
WITHSTANDS
EVERYTHING



Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

ENTRANCE PANELS WITH KEYPADS
WITH KEYPAD AND NUMERIC DISPLAY

FOR BUILDINGS WITH CONCIERGE SERVICE			
9800037	PAK-42000	Audio only, for building	1
9800002	PTN-00000	Directory panel	1
FOR BUILDINGS WITHOUT CONCIERGE SERVICE			
9800033	PAK-41000	Audio only	1
9800002	PTN-00000	Directory panel	1

Available while stocks last

COMPLETE ENTRANCE PANELS
WITH KEYPAD FOR ACCESS CONTROL

FOR BUILDINGS WITH CONCIERGE SERVICE			
9800006	PNK-00000	Keypad for access control	1

PUSH-BUTTON PANELS
UPPER MODULES WITH AUDIO MODULE, CARD HOLDER OR iACCESS

SINGLE MODULE			
9679102	MAN-471	Audio module, 1 entrance	1
9679104	MAN-472	Audio module, multiple entrances	1
9690034	LPR-200	iACCESS card reader	1
9670018	MTN-000	Card reader	1
9670021	MLN-000	Blank module	1
DOUBLE MODULE			
9679103	MMN-471	Audio module, 1 entrance with card reader	1
9679105	MMN-472	Audio module, multiple entrances with card reader	1
9670086	MLT-000	Card reader with blank module	1
ELECTRONIC MODULE			
9730030	COL-000	Concentrator for 16 calls	1

PUSH-BUTTON PANELS
LOWER MODULES

SINGLE PUSH BUTTONS			
9660014	MPS-001	1 push-button	1
9660015	MPS-002	2 push-buttons	1
9660000	MPS-003	3 push-buttons	1
9660001	MPS-004	4 push-buttons	1
9660002	MPS-005	5 push-buttons	1
9660003	MPS-006	6 push-buttons	1
9660004	MPS-007	7 push-buttons	1
9660005	MPS-008	8 push-buttons	1
9660006	MPS-009	9 push-buttons	1
9660007	MPS-010	10 push-buttons	1
9660008	MPS-011	11 push-buttons	1
9660009	MPS-012	12 push-buttons	1
9660010	MPS-013	13 push-buttons	1
9660011	MPS-014	14 push-buttons	1
9660012	MPS-015	15 push-buttons	1
9660013	MPS-016	16 push-buttons	1



9800033
PAK-41000



9800002
PTN-00000



9679102
MAN-471



9690034
LPR-200



9670018
MTN-000



9600007
TED-001



9730019
AAL-200



9730021
ASC-050



9730061
AAL-130

DIGITAL

Indoor units

Telephones

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

TELEPHONES
WITH ELECTRONIC CALL AND COMMUNICATION SECRECY

9600007	TED-001	1 push-button	1
---------	---------	---------------	---

TELEPHONES
ELECTRONIC ACCESSORIES

9730019	AAL-200	Electronic call repeater	1
9730021	ASC-050	Selector switch accessory activated by means of electronic call, buzzer call or external signal	1
9730061	AAL-130	Accessory for landing call reception on telephone	1

Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

PUSH-BUTTON PANELS

LOWER MODULES

DOUBLE PUSH BUTTONS			
9660048	MPD-001	2 push-buttons (1 double)	1
9660049	MPD-002	4 push-buttons (2 doubles)	1
9660050	MPD-003	6 push-buttons (3 doubles)	1
9660051	MPD-004	8 push-buttons (4 doubles)	1
9660052	MPD-005	10 push-buttons (5 doubles)	1
9660053	MPD-006	12 push-buttons (6 doubles)	1
9660054	MPD-007	14 push-buttons (7 doubles)	1
9660055	MPD-008	16 push-buttons (8 doubles)	1
9660056	MPD-009	18 push-buttons (9 doubles)	1
9660057	MPD-010	20 push-buttons (10 doubles)	1
9660058	MPD-011	22 push-buttons (11 doubles)	1
9660059	MPD-012	24 push-buttons (12 doubles)	1
9660060	MPD-013	26 push-buttons (13 doubles)	1
9660061	MPD-014	28 push-buttons (14 doubles)	1
9660062	MPD-015	30 push-buttons (15 doubles)	1
9660063	MPD-016	32 push-buttons (16 doubles)	1

iACCESS

RFID READER

9690034	LPR-200	iACCESS card reader	1
9690038	CCA-004	Advanced management central unit	1
9620011	ALM-040	25 VA power supply, intercom	1

CONCIERGE

TERMINAL

9800012	PAK-03020	Concierge panel with display and numeric keypad	1
9680008	TCD-001	Handset for concierge panel	1

CONCIERGE

SUPPORT

9730054	SSC-001	Desk stand for concierge with handset	1
9740008	CMO-008	Flush-mounted box for concierge panel	1
9740103	CSU-214	Surface-mounted box for concierge panel	1

CONCIERGE

POWER SUPPLY UNITS

9730055	AIB-001	Accessory for keypad installations in buildings with more than 150 homes	1
9650028	GCI-002	Control equipment for AIB-001 in installations with concierge service	1

Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH BOX

9740005	CMO-002	1 or 2 storeys	1
9740006	CMO-004	3 or 4 storeys	1
9740007	CMO-006	5 or 6 storeys	1
9740008	CMO-008	7 or 8 storeys	1
9740009	CMO-010	9 or 10 storeys	1
9740010	CMO-012	11 or 12 storeys	1
9740011	CMO-014	13 or 14 storeys	1
9740012	CMO-016	15 or 16 storeys	1
9740015	CMO-018	17 or 18 storeys	1
9740004	CEM-001	Horizontal separator	1

SURFACE BOX

9740100	CSU-211	1 or 2 storeys	1
9740101	CSU-212	3 or 4 storeys	1
9740102	CSU-213	5 or 6 storeys	1
9740103	CSU-214	7 or 8 storeys	1
9740104	CSU-215	9 or 10 storeys	1
9740105	CSU-216	11 or 12 storeys	1
9740106	CSU-217	13 or 14 storeys	1
9740107	CSU-218	15 or 16 storeys	1
9740108	CSU-219	17 or 18 storeys	1
9740172	CSU-000	Separator	1

FRAMES AND TRIMS

9740047	MAR-900	Frame for single entrance panel *	1
9740016	MAR-901	Frame for double entrance panel *	1
9740017	MAR-902	Frame for triple entrance panel *	1

* Made to measure in anodised aluminium.
For ordering examples, see page 145

VISORS

FOR FLUSH-MOUNTING BOX

9740251	VIS-312	2 windows	1
9740252	VIS-313	3 windows	1

VISORS

FOR SURFACE BOX

9740136	VIS-211	2 windows	1
9740137	VIS-212	3 windows	1

ELECTRONIC ACCESSORIES

9730006	APC-001	Common door: activates a single door opener from several entrance panels	1
9730021	ASC-050	Relay for commands with high-consumption door openers	1
9730030	COL-000	Call concentrator for 16 calls	1
9730068	AIB-010	Block identifier accessory	1



9660054
MPD-007



9690038
CCA-004



9800012
PAK-03020



9680008
TCD-001



9650028
GCI-002



9740006
CMO-004



9740100
CSU-211



9740251
VIS-312



9740136
VIS-211



9730006
APC-001



9730068
AIB-010

Installation components

Electric locks



9730087
ABR-021



9730004
CNP-001



9620011
ALM-040



9730021
ASC-050



9620014
ALC-070

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS
WITH ADJUSTABLE LATCH

UNIVERSAL			
9730087	ABR-021	Simple 12–18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking. 15V DC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15V DC	1

ACCESSORIES

9730004	CNP-001	Door contact	1
9620011	ALM-040	25 VA power supply, intercom	1
9730021	ASC-050	Relay for high-consumption door opener command	1

Power supply units and splitters

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

POWER SUPPLY UNITS
TAP-OFFS AND SPLITTERS

9620014	ALC-070	15VDC 3A power supply	1
9620011	ALM-040	25 VA power supply, 12VAC and 15VDC	1

CABLES
RECOMMENDED CABLE (SLEEVED)

9750005	CAB-007	2x1 mm ² (100m coils)	100
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Standard quotes and diagrams

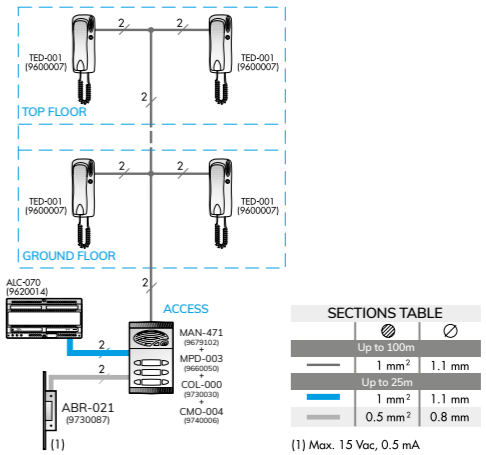
Digital

STANDARD QUOTE.
1 ACCESS POINT

NO. HOUSES	MODEL														
	TED-001 (9600007)	MAN-451 (9671502)	MLN-000 (9660205)	MPS-003 (9730205)	MPS-004 (9730205)	MPS-005 (9730205)	MPD-003 (9730205)	MPD-004 (9730205)	MPD-005 (9730205)	ALC-070 (9620014)	COL-000 (9730205)	CEM-001 (9740004)	CMO-004 (9740004)	CMO-006 (9740004)	ABR-021 (9730087)
	1x3	3	1	1						1	1	1	1	1	1
	2x3	6	1				1			1	1	1	1	1	1
	2x4	8	1					1		1	1	1	1	1	1
	2x5	10	1						1					1	1
	2x6*	12	1							1	1	1		1	1
	3x4	12	1	1				1		1	1	1	2		1
	3x5	15	1	1	1				1	1	1	1		2	1
	3x6	18	1	1		1				1	1	2	1	2	1
	4x4	16	1	1			1	2		1	1	1			1
	4x5	20	1	1					2	1	2	1		2	1
	4x6	24	1	1						2	1	2	1		2
	6x5	30	1	2						3	1	2	2	3	1
	6x6	36	1	2							3	1	3	2	3

* Installation for 2 homes per floor and 6 floors.

STANDARD DIAGRAM AND SECTIONS

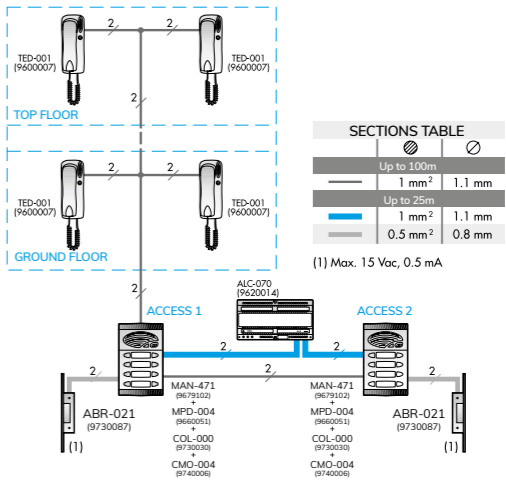


STANDARD QUOTE.
2 ACCESS POINTS

NO. HOUSES	MODEL														
	TED-001 (9600007)	MAN-451 (9671502)	MLN-000 (9660205)	MPS-003 (9730205)	MPS-004 (9730205)	MPS-005 (9730205)	MPD-003 (9730205)	MPD-004 (9730205)	MPD-005 (9730205)	ALC-070 (9620014)	COL-000 (9730205)	CEM-001 (9740004)	CMO-004 (9740004)	CMO-006 (9740004)	ABR-021 (9730087)
	1x3	3	2	2						1	2	2	2	2	2
	2x3	6	2				2			1	2	2	2	2	2
	2x4	8	2					2		1	2	2	2	2	2
	2x5	10	2						2		1	2		2	2
	2x6*	12	2							2	1	2		2	2
	3x4	12	2	2				2		1	2	1	4	2	2
	3x5	15	2	2	2				2	1	2	1		4	2
	3x6	18	2	2		2				2	1	4	1	4	2
	4x4	16	2	2			2	2		1	2	1			2
	4x5	20	2	2					4	1	4	1		4	2
	4x6	24	2	2						4	1	4	1		4
	6x5	30	2	4						6	1	4	2	6	2
	6x6	36	2	4							6	1	6	2	6

* Installation for 2 homes per floor and 6 floors.

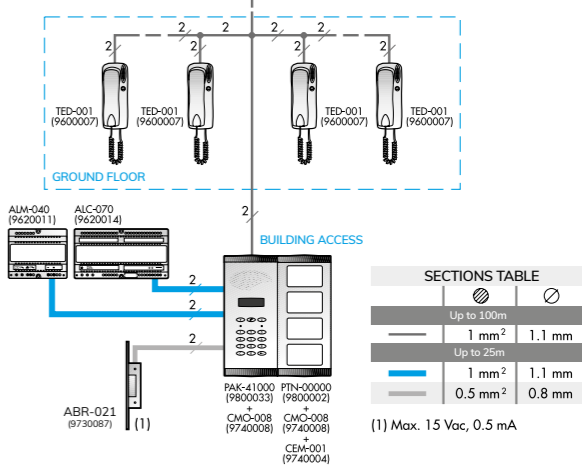
STANDARD DIAGRAM AND SECTIONS



STANDARD QUOTE.
1 ACCESS POINT WITH KEYPAD

NO. HOUSES	MODEL						
	TED-001 (9600007)	PAK-41000 (9800033)	PTN-00000 (9800002)	ALM-040 (9620011)	ALC-070 (9620014)	CEM-001 (9740004)	CMO-008 (9740008)
	4x10	40	1	1	1	1	2
	6x10	60	1	1	1	1	2
	6x15	90	1	1	1	1	2
	8x15	120	1	2	1	1	3
	10x15	150	1	2	1	1	3

STANDARD DIAGRAM AND SECTIONS





9600001
TEL-001



9600011
TUN-002



9730019
AAL-200



9730061
AAL-130

4+N

Indoor units

Telephones

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

TELEPHONE
WITH ELECTRONIC CALLING

9600001	TEL-001	1 push-button	1
---------	---------	---------------	---

UNIVERSAL TELEPHONE
WITH ELECTRONIC CALLING AND BUZZER

9600011	TUN-002	2 push-buttons	1
---------	---------	----------------	---

UNIVERSAL TELEPHONE
PERSONALISED (WITH ELECTRONIC CALLING OR BUZZER)

9600043	TUN-102	2 push-buttons	1*
---------	---------	----------------	----

ELECTRONIC ACCESSORIES

9730019	AAL-200	Electronic call repeater	1
9730021	ASC-050	For activation of lights, bells or sirens at 230V via electronic call or buzzer	1
9730061	AAL-130	Accessory for floor call reception on telephone	1

* Reference subject to minimum order quantity.
Request conditions

Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

UPPER MODULES
WITH AUDIO MODULE, CARD HOLDER OR iACCESS

SINGLE MODULE			
9670119	MAN-451	Universal audio unit	1
9690034	LPR-200	iACCESS card reader	1
9670018	MTN-000	Card reader	1
9670021	MLN-000	Blank entrance panel	1
DOUBLE MODULE (WITH CARD HOLDER)			
9670127	MMN-451	Universal audio unit	1

COMPLETE PANELS
WITH KEYPAD FOR ACCESS CONTROL

SINGLE MODULE			
9800006	PNK-00000	Keypad for access control	1

iACCESS
RFID READER

9690034	LPR-200	iACCESS card reader	1
9690038	CCA-004	Advanced management controller	1

LOWER MODULES
WITH PUSH BUTTONS

SINGLE PUSH BUTTONS			
9660014	MPS-001	1 push-button	1
9660015	MPS-002	2 push-buttons	1
9660000	MPS-003	3 push-buttons	1
9660001	MPS-004	4 push-buttons	1
9660002	MPS-005	5 push-buttons	1
9660003	MPS-006	6 push-buttons	1
9660004	MPS-007	7 push-buttons	1
9660005	MPS-008	8 push-buttons	1
9660006	MPS-009	9 push-buttons	1
9660007	MPS-010	10 push-buttons	1
9660008	MPS-011	11 push-buttons	1
9660009	MPS-012	12 push-buttons	1
9660010	MPS-013	13 push-buttons	1
9660011	MPS-014	14 push-buttons	1
9660012	MPS-015	15 push-buttons	1
9660013	MPS-016	16 push-buttons	1



9670119
MAN-451



9690034
LPR-200



9670018
MTN-000



9800006
PNK-00000



9660002
MPS-005

9660054
MPD-0079740006
CMO-0049740100
CSU-211

Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

LOWER MODULES WITH PUSH BUTTONS

DOUBLE PUSH BUTTONS			
9660048	MPD-001	2 push-buttons (1 double)	1
9660049	MPD-002	4 push-buttons (2 doubles)	1
9660050	MPD-003	6 push-buttons (3 doubles)	1
9660051	MPD-004	8 push-buttons (4 doubles)	1
9660052	MPD-005	10 push-buttons (5 doubles)	1
9660053	MPD-006	12 push-buttons (6 doubles)	1
9660054	MPD-007	14 push-buttons (7 doubles)	1
9660055	MPD-008	16 push-buttons (8 doubles)	1
9660056	MPD-009	18 push-buttons (9 doubles)	1
9660057	MPD-010	20 push-buttons (10 doubles)	1
9660058	MPD-011	22 push-buttons (11 doubles)	1
9660059	MPD-012	24 push-buttons (12 doubles)	1
9660060	MPD-013	26 push-buttons (13 doubles)	1
9660061	MPD-014	28 push-buttons (14 doubles)	1
9660062	MPD-015	30 push-buttons (15 doubles)	1
9660063	MPD-016	32 push-buttons (16 doubles)	1

FLUSH BOX

9740005	CMO-002	1 or 2 storeys	1
9740006	CMO-004	3 or 4 storeys	1
9740007	CMO-006	5 or 6 storeys	1
9740008	CMO-008	7 or 8 storeys	1
9740009	CMO-010	9 or 10 storeys	1
9740010	CMO-012	11 or 12 storeys	1
9740011	CMO-014	13 or 14 storeys	1
9740012	CMO-016	15 or 16 storeys	1
9740015	CMO-018	17 or 18 storeys	1
9740004	CEM-001	Horizontal separator	1

SURFACE BOX

9740100	CSU-211	1 or 2 storeys	1
9740101	CSU-212	3 or 4 storeys	1
9740102	CSU-213	5 or 6 storeys	1
9740103	CSU-214	7 or 8 storeys	1
9740104	CSU-215	9 or 10 storeys	1
9740105	CSU-216	11 or 12 storeys	1
9740106	CSU-217	13 or 14 storeys	1
9740107	CSU-218	15 or 16 storeys	1
9740108	CSU-219	17 or 18 storeys	1
9740172	CSU-000	Separator	1

Entrance panels

Line 201

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FRAMES AND TRIMS

9740047	MAR-900	Frame for single entrance panel *	1
9740016	MAR-901	Frame for double entrance panel *	1
9740017	MAR-902	Frame for triple entrance panel *	1

* Made to measure in anodised aluminium.
For ordering examples, see page 145

VISORS

FOR FLUSH-MOUNTING BOX

9740251	VIS-312	2 windows	1
9740252	VIS-313	3 windows	1

VISORS

FOR SURFACE BOX

9740136	VIS-211	2 windows	1
9740137	VIS-212	3 windows	1

ELECTRONIC ACCESSORIES

9730006	APC-001	Common door: activates the same door release from multiple entrance panels	1
9730021	ASC-050	Relay for commands with high-consumption door openers	1

9740251
VIS-3129740136
VIS-2119730006
APC-0019730021
ASC-050

Installation components

Electric locks



CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

FLUSH-MOUNTED ELECTRIC LOCKS

UNIVERSAL			
9730087	ABR-021	Simple 12–18V AC/DC. Compact	1
STANDARD SIZE			
9730003	ABR-004	Automatic and unlocking. 12VAC	1
9730094	ABR-102	Automatic and unlocking. Long cover. 12VAC	1

Available while stocks last

ACCESSORIES

9730004	CNP-001	Door contact	1
9620011	ALM-040	Power supply 25 VA, 12VAC and 15VDC	1
9730021	ASC-050	Relay for high-consumption door release	1

Power supply units and splitters

CODE	MODEL	DESCRIPTION	MOQ
------	-------	-------------	-----

POWER SUPPLY UNITS
TAP-OFFS AND SPLITTERS

9620011	ALM-040	Power supply 25 VA, 12VAC and 15VDC	1
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Standard quotes and diagrams

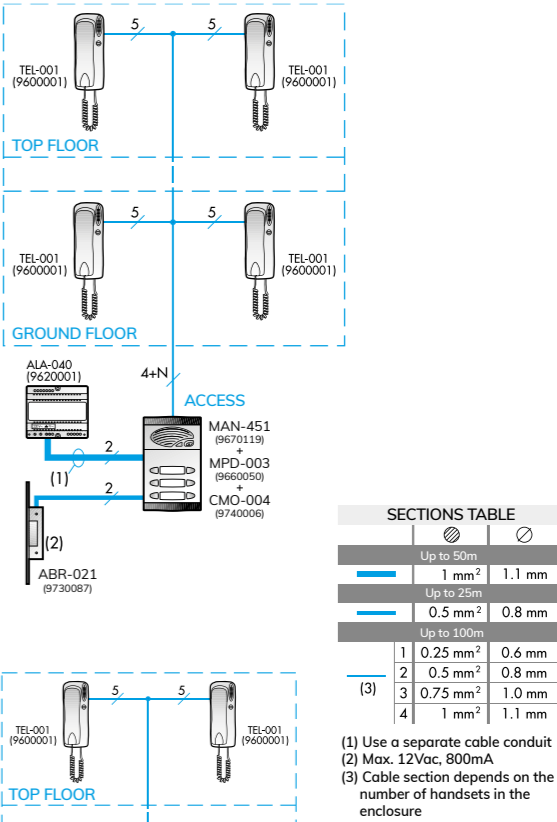
4+N

STANDARD QUOTE.
ELECTRONIC DOOR ENTRY SYSTEM
WITH ELECTRONIC CALL.
1 ACCESS POINT

	MODEL															
	TEL-001	MAN-451	MLN-000	MPS-003	MPS-004	MPS-005	MPS-006	MPD-003	MPD-004	MPD-005	MPD-006	ALM-040	CEM-001	CMO-004	CMO-006	ABR-021
1x3	3	1		1								1	1	1	1	1
2x3	6	1						1				1		1	1	1
2x4	8	1							1			1		1	1	1
2x5	10	1								1		1			1	1
2x6*	12	1									1	1			1	1
3x4	12	1	1		1				1			1	1	2	1	1
3x5	15	1	1			1				1		1	1		2	1
3x6	18	1	1				1				1	1	1		2	1
4x4	16	1	1						2			1	1	2		1
4x5	20	1	1							2		1	1		2	1
4x6	24	1	1								2	1	1		2	1
6x5	30	1	2							3		1	2	3	3	1
6x6	36	1	2								3	1	2		3	1

* Installation for 2 homes per floor and 6 floors.

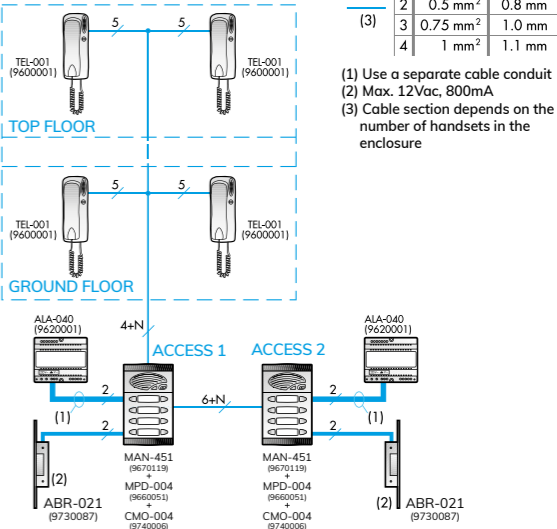
STANDARD DIAGRAMS
AND SECTIONS



STANDARD QUOTE.
ELECTRONIC DOOR ENTRY SYSTEM
WITH ELECTRONIC CALL.
2 ACCESS POINTS

	MODEL															
	TEL-001	MAN-451	MLN-000	MPS-003	MPS-004	MPS-005	MPS-006	MPD-003	MPD-004	MPD-005	MPD-006	ALM-040	CEM-001	CMO-004	CMO-006	ABR-021
1x3	3	2		2								2		2		2
2x3	6	2						2				2		2		2
2x4	8	2							2			2		2		2
2x5	10	2								2		2			2	2
2x6*	12	2									2	2			2	2
3x4	12	2	2		2			2			2	2	4		2	2
3x5	15	2	2			2				2		2	2		4	2
3x6	18	2	2				2				2	2	2		4	2
4x4	16	2	2						4			2	2	4		2
4x5	20	2	2							4		2	2		4	2
4x6	24	2	2								4	2	2		4	2
6x5	30	2	4							6		2	4		6	2
6x6	36	2	4								6	2	4		6	2

* Installation for 2 homes per floor and 6 floors.





iACCESS

ACCESS CONTROL BY PROXIMITY READERS

iACCESS is the access control system with proximity readers integrated in the entrance panels.

It allows residents to gain access with electronic keys, **without the need for traditional keys or codes.**

Administrators can manage **full or partial permissions**, optimising service providers' access to common areas such as gates or rooftops. They can also create **temporary keys**, e.g. just for the summer (for gardening or pool work, for example).

The system makes it easy to **add or cancel keys** through our **iACCESS WEB** application accessible at: <https://alcad-iaccess.com/>



FIRST STEPS

Generating your new keys and RFID cards is as easy as following the steps below:

- 1

Go to <https://alcad-iaccess.com/> and sign up for the service
- 2

Download and install the new drivers via the iACCESS Manager link
- 3

Download the manual by clicking on the "?" icon, and create your first installation
- 4

Record keys and RFID cards by connecting the PLO-000 the PLO-000 programmer to the computer
- 5

Don't forget your username and password – you will need them for future installations

iACCESS

Access control system

CODE	MODEL	DESCRIPTION	MOQ
RFID READER			
9690035	LPR-010	Compact panel Aloï	1
9690033	LPR-900	Compact panel iBLACK	1
9690030	LPR-500	iBLACK proximity reader module	1
9690038	CCA-004	Advanced management controller	1
RFID KEYS FOR RESIDENTS			
KEYRING FORMAT			
9690018	LAC-020	Set of 5 keys for one home (no. 0, 1, 2, 3 and 4)	1
9690001	LAC-000	10 keys no. 0	1
9690002	LAC-001	10 keys no. 1	1
9690003	LAC-002	10 keys no. 2	1
9690004	LAC-003	10 keys no. 3	1
9690005	LAC-004	10 keys no. 4	1
9690006	LAC-005	10 keys no. 5	1
RFID KEYS FOR RESIDENTS			
CARD FORMAT			
9690040	LAC-200	10 cards	1
SPECIAL RFID KEYS			
KEYRING FORMAT			
9690016	LAC-010	For iACCESS controller configuration	1
9690017	LAC-011	For access to multiple installations	1
ACCESS CONTROL KEYPADS			
9800006	PNK-00000	Keypad Line 201	1
9800114	PNK-50000	iBLACK keypad	1
KEY PROGRAMMER			
KEYRING FORMAT			
9690010	PLO-000	USB programmer for proximity keys	1
FLUSH-MOUNTED ELECTRIC LOCKS			
WITH ADJUSTABLE LATCH			
UNIVERSAL			
9730087	ABR-021	Simple 12–18V AC/DC. Compact	1
COMPACT SIZE			
9730008	ABR-014	Automatic and unlocking 15VDC	1
STANDARD SIZE			
9730062	ABR-015	Simple 15VDC	1
9730003	ABR-004	Automatic and unlocking 12VAC	1
9730094	ABR-102	Automatic and unlocking, long cover 12VAC	1
ACCESSORIES			
9730004	CNP-001	Door contact	1
9620011	ALM-040	Power supply 25 VA, intercom	1
9730021	ASC-050	Relay for high-consumption door release	1

Available while stocks last



9690035
LPR-010



9690033
LPR-900



9690001
LAC-000



9800114
PNK-50000



9690010
PLO-000



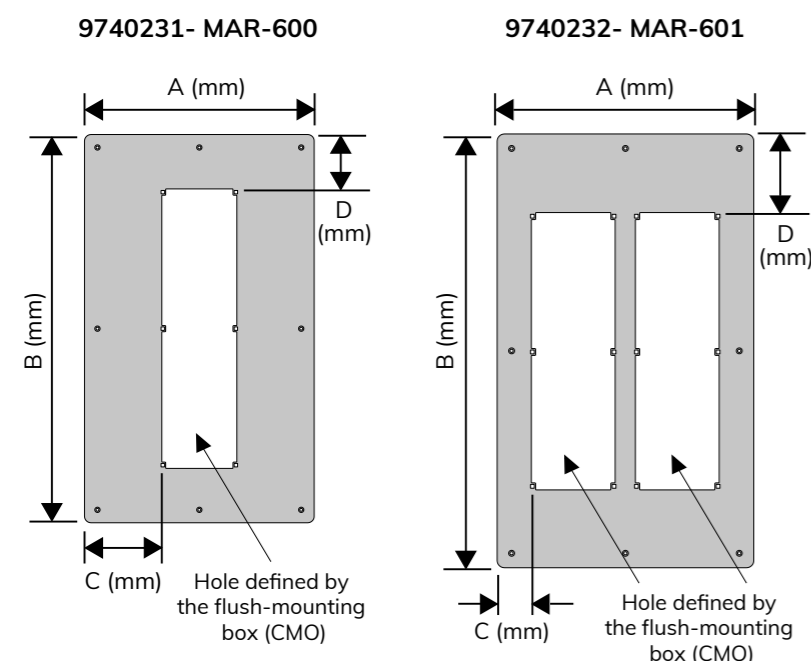
9730087
ABR-021

Appendices

EXAMPLES OF SPECIAL PRODUCT ORDERS

Frames Aloï

MAR-600/MAR-601



MAXIMUM DIMENSIONS

Please consult with us.

MINIMUM MEASUREMENTS

- Add 14.5mm on each side on the left and right side.
- Add 10mm on each side at the top and bottom.

MINIMUM WIDTH

- MAR-600 145mm (205mm*).
- MAR-601 290mm (350mm*).

MINIMUM HEIGHT

- CMO-601 142mm (202mm*)
- CMO-602 212mm (272mm*)
- CMO-604 260mm (320mm*)
- CMO-606 308mm (364mm*)
- CMO-608 356mm (416mm*)
- +LPR-010 +142 mm

* in case of fixing holes

SPECIAL FRAME*: MAR-600 + LPR-010 (1 slot for CMO + 1 slot at the bottom for LPR).

*The code shall indicate that you want 1 CMO-xxx + LPR-010.

The code to be supplied with the order consists of 6 pieces of information: CMO, A, B, C, D, E.

EXAMPLES FOR ORDERING CUSTOM-MADE FRAMES

Ex.1

602	180	280
CMO	A	B

Ex.2

604	205	320	S
CMO	A	B	E

Ex.3

602	205	300	C44.5	S
CMO	A	B	C	E

Ex.4

606	205	368	44.5	40	S
CMO	A	B	C	D	E

Ex.5

604+LPR-010	180	402
CMO	A	B

Legend

A: total width of the frame.

B: total height of the frame.

C: horizontal offset (viewed from the front, measurement is from the left).

D: vertical off-centre (viewed from the front, measurement is from above).

**If "C" and/or "D" is not indicated, the aperture shall be centred in relation to the frame. In the case of indicating only one off-centre, the letter must be indicated with the number (example 3).

E: fixing holes. They are only implemented if the customer indicates an "S".

• If not indicated or marked "N", by default the frame will be without holes.

• The holes are drilled 20mm from the outside (to be taken into account for minimum dimensions).

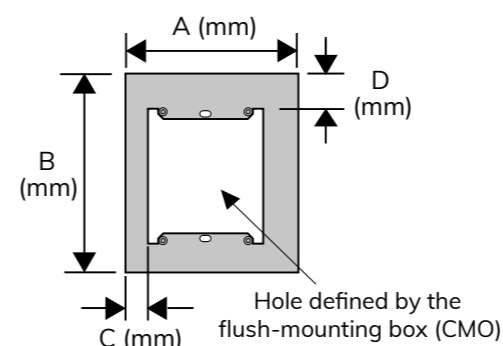
• The minimum number of fixing holes is 4 (1 in each corner). This will vary depending on the size of the frame. If either dimension A or B exceeds the 400 dimension, another hole will be added in the centre (always 20mm from the outside).

• If fixing holes are requested, minimum dimensions for C and D are recommended so that the panel does not interfere with them: C (44.5mm), D (40mm).

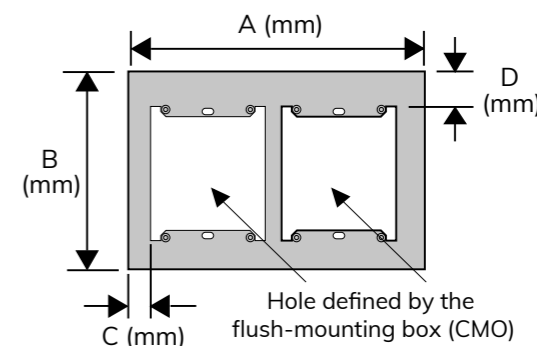
Frames Usa + iBLACK + Line 201

MAR-900 / MAR-901 / MAR-902

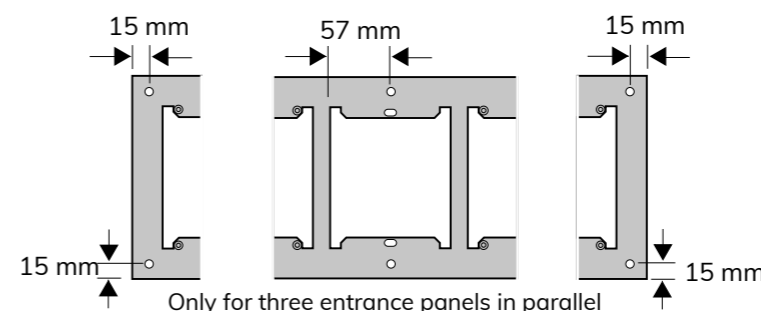
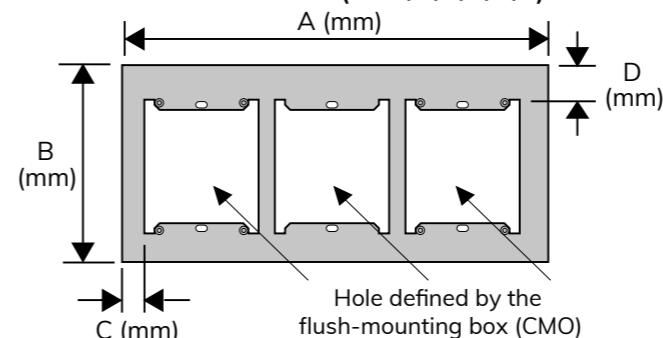
9740047- MAR-900 (CMO/A/B/C/D/E)



9740016- MAR-901 (CMO/A/B/C/D/E)



9740017- MAR-902 (CMO/A/B/C/D/E)



Only for three entrance panels in parallel

MAXIMUM DIMENSIONS

450x700mm (in both directions).

MINIMUM DIMENSIONS OF THE FRAMES

Add 8mm on each side to the CMO.

MINIMUM WIDTH

- MAR-900 128mm (168mm*)
- MAR-901 256mm (296mm*)
- MAR-902 384mm (424mm*)

MINIMUM HEIGHT

- CMO-002 147mm (187mm*)
- CMO-004 195mm (235mm*)
- CMO-006 243mm (283mm*)
- CMO-008 291mm (331mm*)
- CMO-010 339mm (379mm*)
- CMO-012 387mm (427mm*)
- CMO-014 435mm (475mm*)
- CMO-016 483mm (523mm*)
- CMO-018 531mm (571mm*)

* in case of fixing holes

The code to be supplied with the order consists of 6 pieces of information: CMO, A, B, C, D, E.

EXAMPLE FOR ORDERING CUSTOM-MADE FRAMES

Ex.1

002	180	250
CMO	A	B

Ex.2

004	180	320	S
CMO	A	B	E

Ex.3

004	180	320	C28	S
CMO	A	B	C	E

Ex.4

006	200	400	28	50	S
CMO	A	B	C	D	E

Legend

A: total width of the frame.

B: total height of the frame.

C: horizontal offset (viewed from the front, measurement is from the left).

D: vertical off-centre (viewed from the front, measurement is from above).

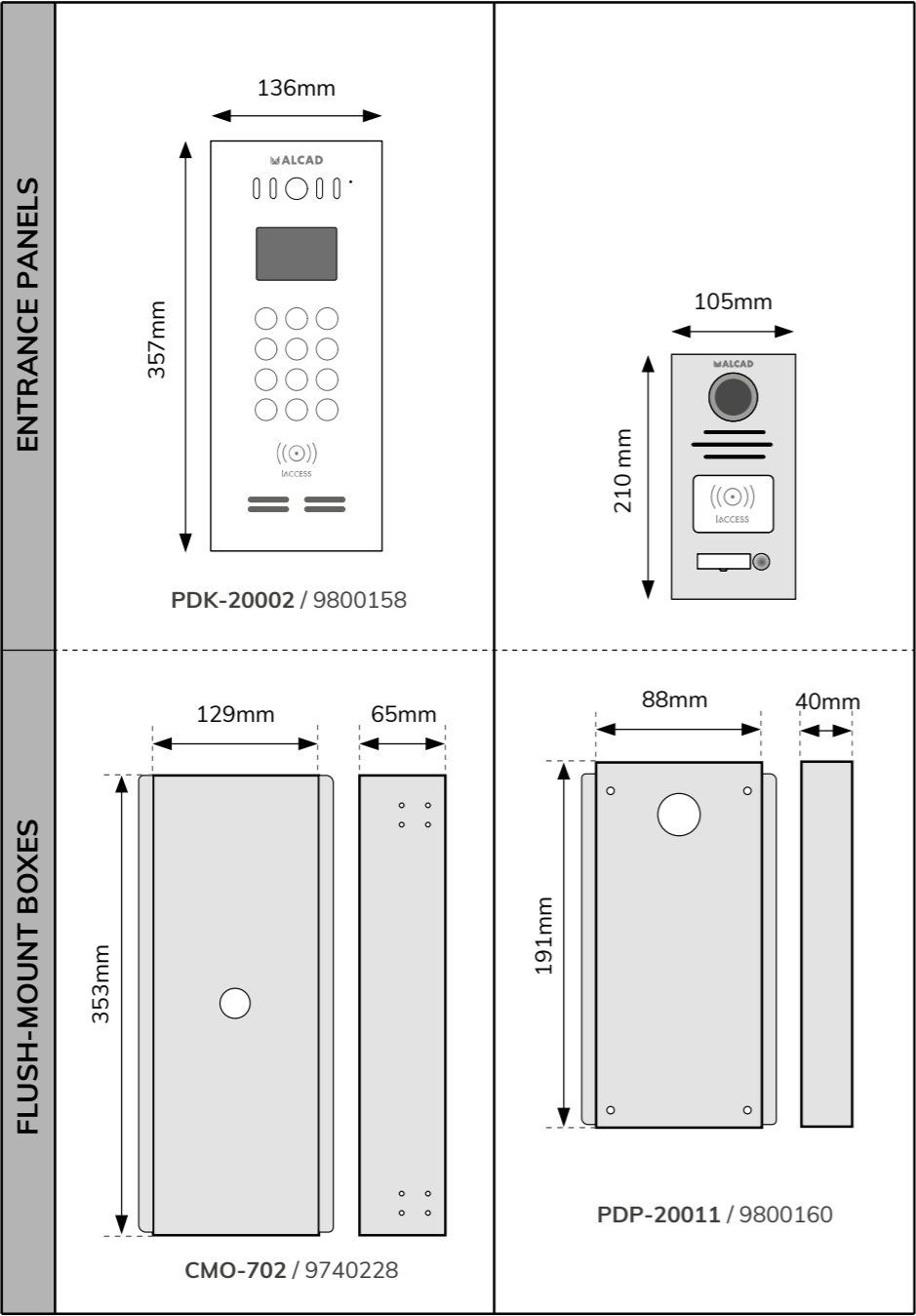
**If "C" and/or "D" is not indicated, the aperture shall be centred in relation to the frame. In the case of indicating only one off-centre, the letter must be indicated with the number (example 3).

E: fixing holes. They are only implemented if the customer indicates an "S". If not indicated or marked "N", by default the frame will be without holes. The holes are drilled 15mm from the outside (to be taken into account for minimum dimensions).

DIMENSIONS
AND ACCESSORIES

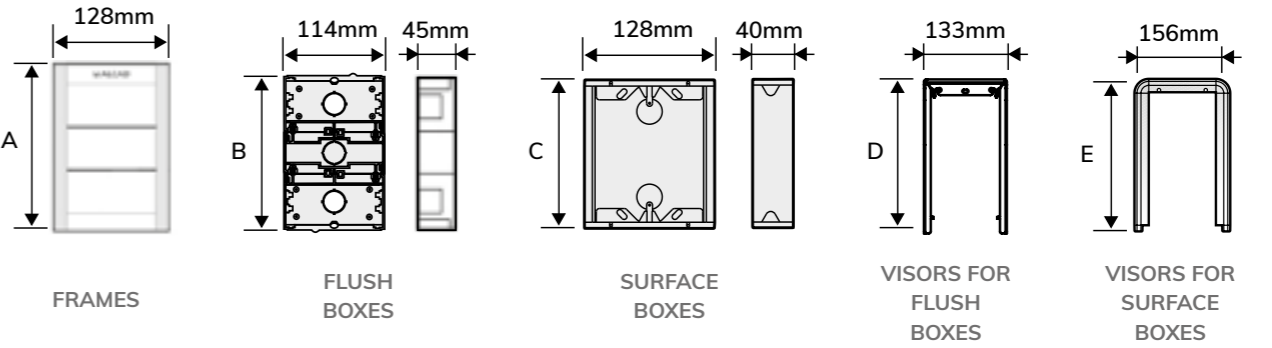
Entrance panels

IPAL



Entrance panels

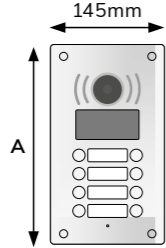
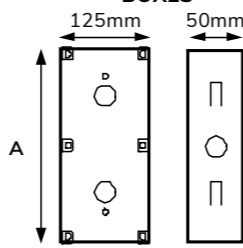
Usoa



NUMBER WINDOWS	FRAMES	A (mm)	FLUSH BOXES	B (mm)	SURFACE BOXES	C (mm)	VISORS FOR FLUSH BOXES	D (mm)	VISORS FOR SURFACE BOXES	E (mm)
2	FRA-002	147	CMO-002	131	CSU-712	147	VIS-312	151.1	VIS-211	160
3	FRA-003	195	CMO-004	179	CSU-713	195	VIS-313	199.1	VIS-212	208
4	FRA-004	243	CMO-006	227	CSU-714	243	—	—	—	—
5	FRA-005	291	CMO-008	275	CSU-715	291	—	—	—	—
6	FRA-006	339	CMO-010	323	CSU-716	339	—	—	—	—
7	FRA-007	387	CMO-012	371	CSU-717	387	—	—	—	—
8	FRA-008	435	CMO-014	419	CSU-718	435	—	—	—	—
9	FRA-009	483	CMO-016	467	CSU-719	483	—	—	—	—
10	FRA-010	531	CMO-018	515	CSU-710	531	—	—	—	—

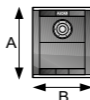

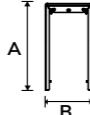

Entrance panels


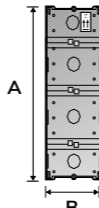
Aloi

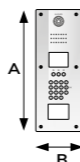
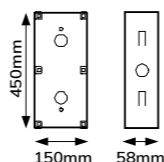
	ENTRANCE PANEL		FLUSH-MOUNTED BOXES	
				
MODULES	A	MODELS	W	MODELS
	ENTRANCE PANEL WITH RFID READER			
	142 mm	9690035 LPR-010	125 mm	9740243 CMO-601
1 or 2 STOREYS	A	MODELS	W	MODELS
	ENTRANCE PANEL EXTENSIONS			
	212 mm	9800227 PTS-63201 9800237 PTD-63201 9800238 PTD-63202	195 mm	9740244 CMO-602
	260 mm	9800239 PTD-63203 9800240 PTD-63204	243 mm	9740245 CMO-604
	308 mm	9800241 PTD-63205 9800242 PTD-63206	291 mm	9740246 CMO-606
	356 mm	9800243 PTD-63207 9800244 PTD-63208	339 mm	9740247 CMO-608

Entrance panels

With keypad






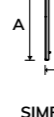

















	iBLACK MODULE			FLUSH-MOUNTED BOX			RAIN SHIELD FOR FLUSH-MOUNTED BOXES			RAIN SHIELD FOR SURFACE BOXES		
												
INDEPENDENT MODULE	A	B	MODEL	A	B	MODEL	A	B	MODEL	A	B	MODEL
	147 mm	128 mm	LPR-900	131 mm	114 mm	CMO-002	151,1 mm	133 mm	VIS-312	160 mm	156 mm	VIS-211









	iBLACK ENTRANCE PANEL			FLUSH-MOUNTED BOX		
						
ENTRANCE PANEL WITH KEYPAD	A	B	MODELS	A	B	MODEL
	339 mm	128 mm	PDK-51210 PAK-51010 PTN-50000	323 mm	114 mm	CMO-010

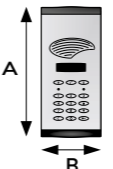




	ANTI-VANDAL ENTRANCE PANEL			FLUSH-MOUNTED BOX		
						
WITH KEYPAD	A	B	MODEL	MODEL		
	490 mm	190 mm	PDK-61211	(included with the entrance panel)		

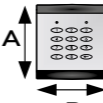




Entrance panels

Line 201

		ENTRANCE PANEL			FLUSH-MOUNTED BOXES			RAIN SHIELDS FOR FLUSH-MOUNTED BOXES			SURFACE BOXES			RAIN SHIELDS FOR SURFACE BOXES			
		LOWER MODULE	UPPER MODULE	DIMENSIONS													
																	
				A	B	A	B	MODEL	A	B	MODEL	A	B	MODEL	A	B	MODEL
1-2 STOREYS	MPS-001 MPS-002 MPD-001 MPD-002	SIMPLE		147 mm	128 mm	131 mm	114 mm	CMO-002	151.1 mm	133 mm	VIS-312	147 mm	128 mm	CSU-211	160 mm	156 mm	VIS-211
		DOUBLE		195 mm	128 mm	179 mm	114 mm	CMO-004	199.1 mm	133 mm	VIS-313	195 mm	128 mm	CSU-212	208 mm	156 mm	VIS-212
		TRIPLE		243 mm	128 mm	227 mm	114 mm	CMO-006									
3-4 STOREYS	MPS-003 MPS-004 MPD-003 MPD-004	SIMPLE		195 mm	128 mm	179 mm	114 mm	CMO-004	199.1 mm	133 mm	VIS-313	195 mm	128 mm	CSU-212	208 mm	156 mm	VIS-212
		DOUBLE		243 mm	128 mm	227 mm	114 mm	CMO-006				243 mm	128 mm	CSU-213			
		TRIPLE		291 mm	128 mm	275 mm	114 mm	CMO-008				291 mm	128 mm	CSU-214			
5-6 STOREYS	MPS-005 MPS-006 MPD-005 MPD-006	SIMPLE		243 mm	128 mm	227 mm	114 mm	CMO-006				243 mm	128 mm	CSU-213			
		DOUBLE		291 mm	128 mm	275 mm	114 mm	CMO-008				291 mm	128 mm	CSU-214			
		TRIPLE		339 mm	128 mm	323 mm	114 mm	CMO-010				339 mm	128 mm	CSU-215			
7-8 STOREYS	MPS-007 MPS-008 MPD-007 MPD-008	SIMPLE		291 mm	128 mm	275 mm	114 mm	CMO-008				291 mm	128 mm	CSU-214			
		DOUBLE		339 mm	128 mm	323 mm	114 mm	CMO-010				339 mm	128 mm	CSU-215			
		TRIPLE		387 mm	128 mm	371 mm	114 mm	CMO-012				387 mm	128 mm	CSU-216			
9-10 STOREYS	MPS-009 MPS-010 MPD-009 MPD-010	SIMPLE		339 mm	128 mm	323 mm	114 mm	CMO-010				339 mm	128 mm	CSU-215			
		DOUBLE		387 mm	128 mm	371 mm	114 mm	CMO-012				387 mm	128 mm	CSU-216			
		TRIPLE		435 mm	128 mm	419 mm	114 mm	CMO-014				435 mm	128 mm	CSU-217			

		ENTRANCE PANEL			FLUSH-MOUNTED BOXES			RAIN SHIELD FOR FLUSH-MOUNTED BOXES			SURFACE BOXES			RAIN SHIELD FOR SURFACE BOXES		
		LOWER MODULE	UPPER MODULE	DIMENSIONS	A	B	MODEL	A	B	MODEL	A	B	MODEL	A	B	MODEL
11-12 STOREYS	MPS-011 MPS-012 MPD-011 MPD-012	SIMPLE		387 mm	128 mm	371 mm	114 mm	CMO-012			387 mm	128 mm	CSU-216			
		DOUBLE		435 mm	128 mm	419 mm	114 mm	CMO-014			435 mm	128 mm	CSU-217			
		TRIPLE		483 mm	128 mm	467 mm	114 mm	CMO-016			483 mm	128 mm	CSU-218			
13-14 STOREYS	MPS-013 MPS-014 MPD-013 MPD-014	SIMPLE		435 mm	128 mm	419 mm	114 mm	CMO-014			435 mm	128 mm	CSU-217			
		DOUBLE		483 mm	128 mm	467 mm	114 mm	CMO-016			483 mm	128 mm	CSU-218			
		TRIPLE		531 mm	128 mm	515 mm	114 mm	CMO-018			531 mm	128 mm	CSU-219			
15-16 STOREYS	MPS-015 MPS-016 MPD-015 MPD-016	SIMPLE		483 mm	128 mm	467 mm	114 mm	CMO-016			483 mm	128 mm	CSU-218			
		DOUBLE		531 mm	128 mm	515 mm	114 mm	CMO-018			531 mm	128 mm	CSU-219			

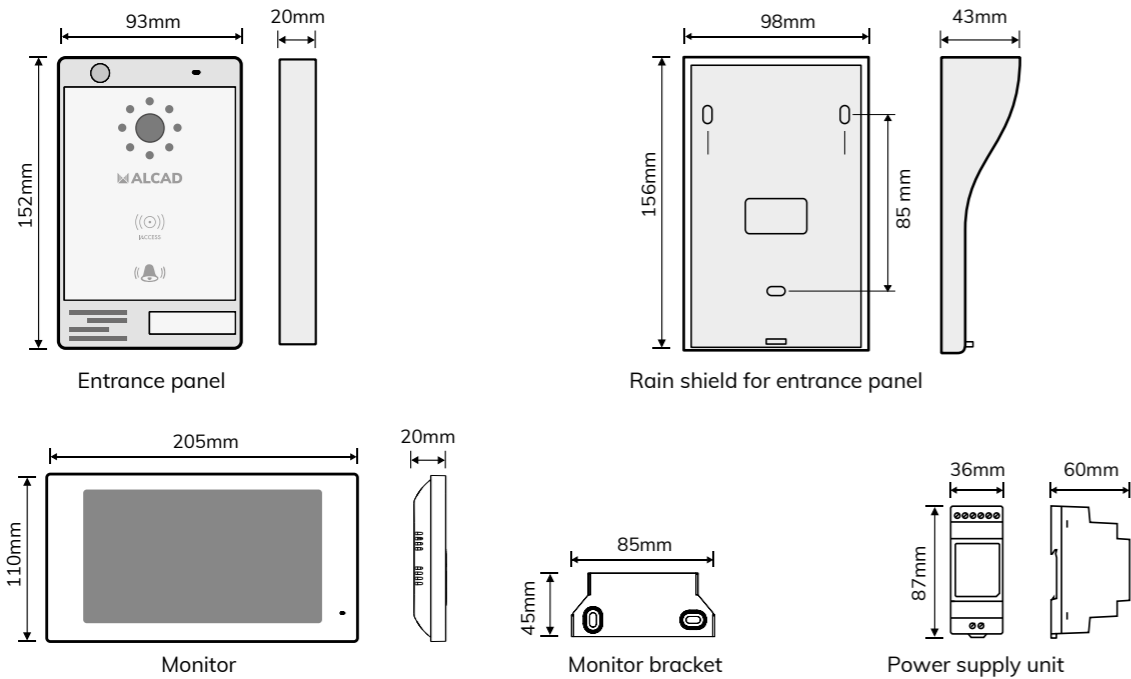
ENTRANCE PANEL			FLUSH-MOUNTED BOX			RAIN SHIELDS FOR FLUSH-MOUNTED BOXES			SURFACE BOX			RAIN SHIELDS FOR SURFACE BOXES		
														
A	B	MODEL	A	B	MODEL				A	B	MODEL			
291 mm	128 mm	PAK-41000 PAK-42000 PAK-03020 PTN-00000	275 mm	114 mm	CMO-008				291 mm	128 mm	CSU-214			

MODULE			FLUSH-MOUNTED BOX			RAIN SHIELD FOR FLUSH-MOUNTED BOXES			SURFACE BOX			RAIN SHIELD FOR SURFACE BOXES		
														
A	B	MODEL	A	B	MODEL	A	B	MODEL	A	B	MODEL	A	B	MODEL
147 mm	128 mm	PNK-00000	131 mm	114 mm	CMO-002	151,1 mm	133 mm	VIS-312	147 mm	128 mm	CSU-211	160 mm	156 mm	VIS-211

Telephones, monitors
and accessories

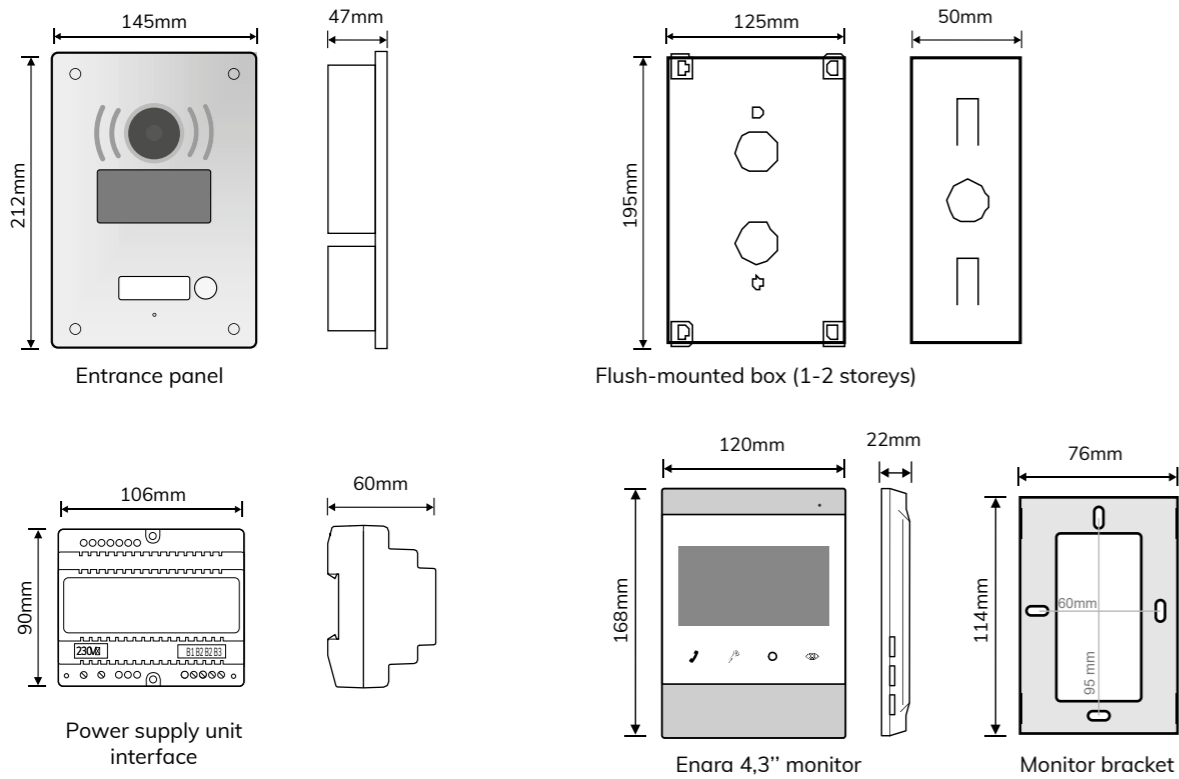
ERLEA PLUS KIT

KVS-31221 / 9720165



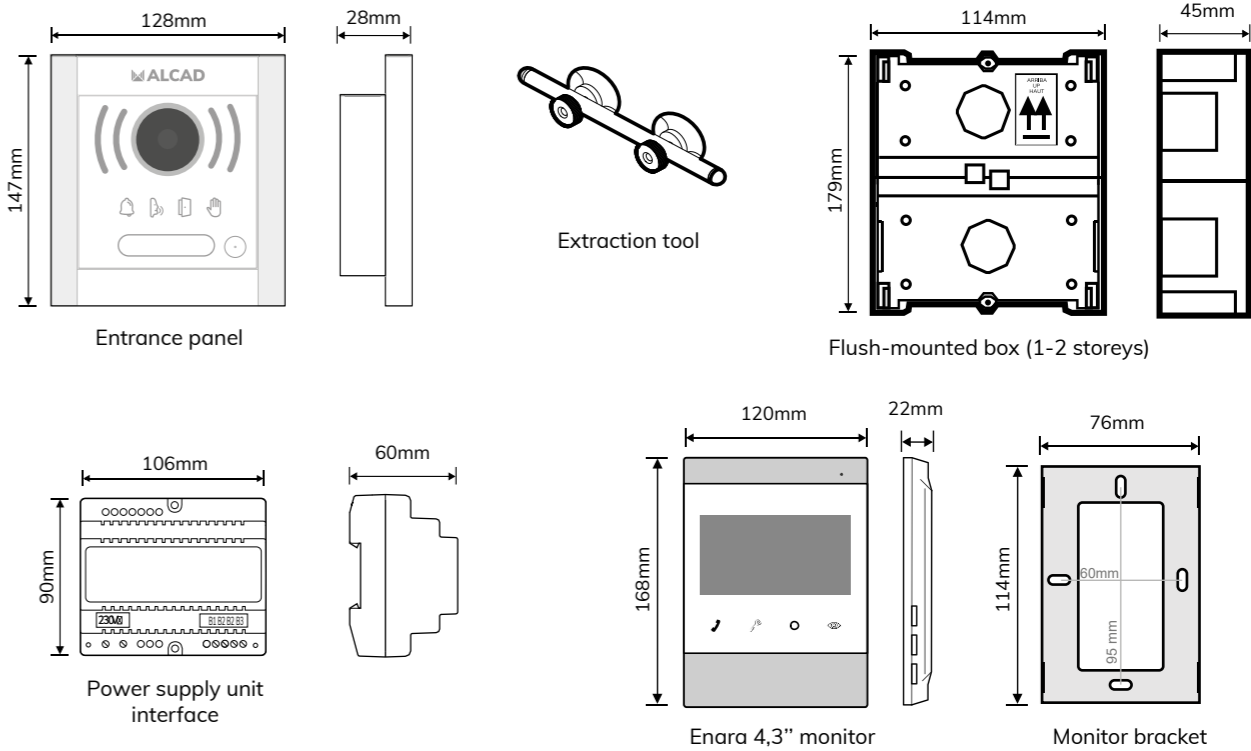
4,3" ALOI KIT

KVS-56121 / 9720171



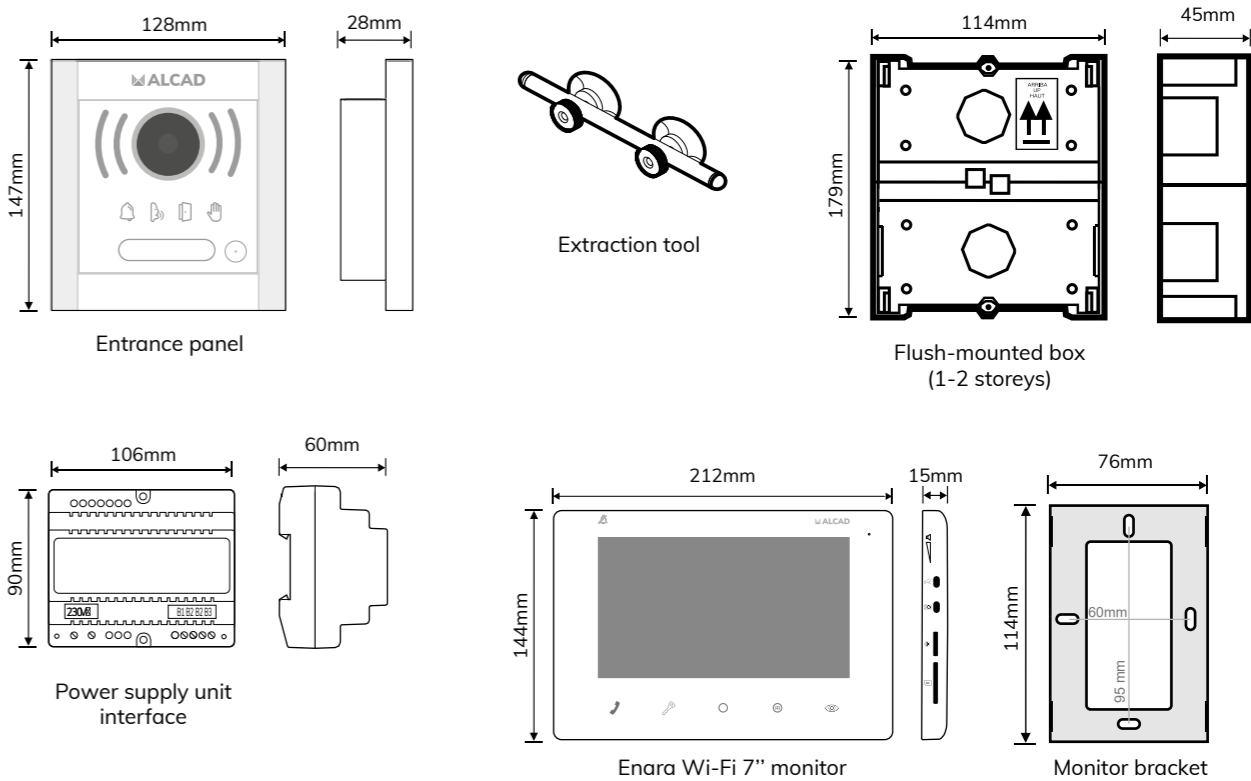
4,3" USOA KIT

KVS-55121 / 9720169



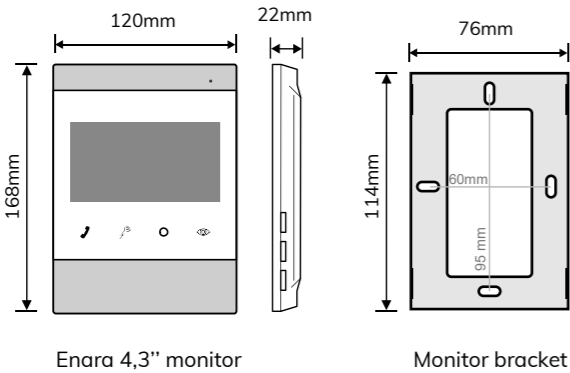
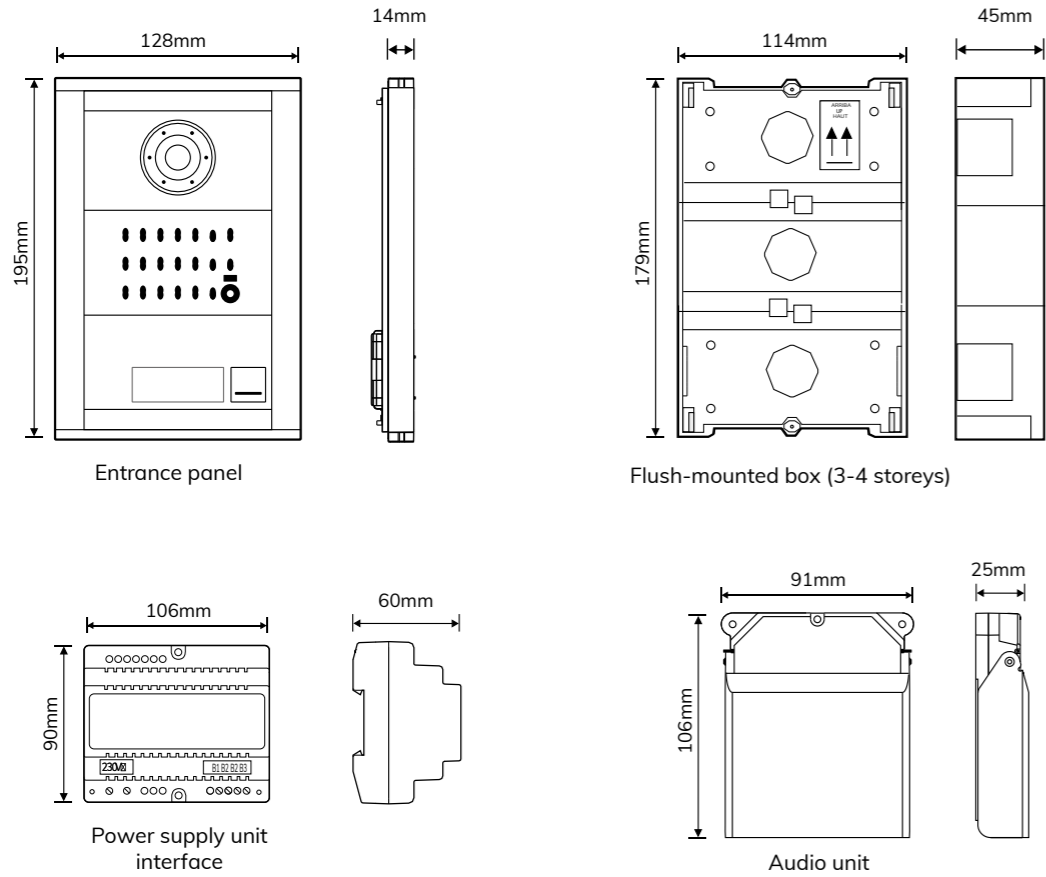
7" USOA Wi-Fi KIT

KVS-55321 / 9720170

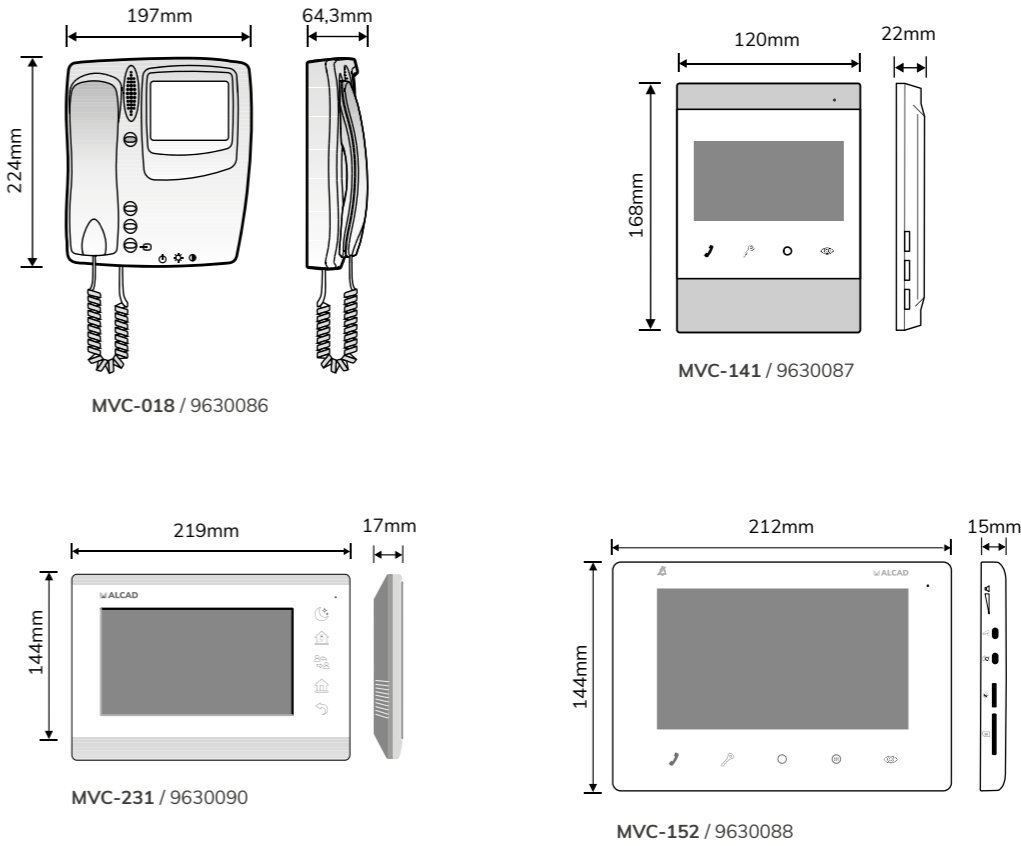


4,3" iBLACK KIT

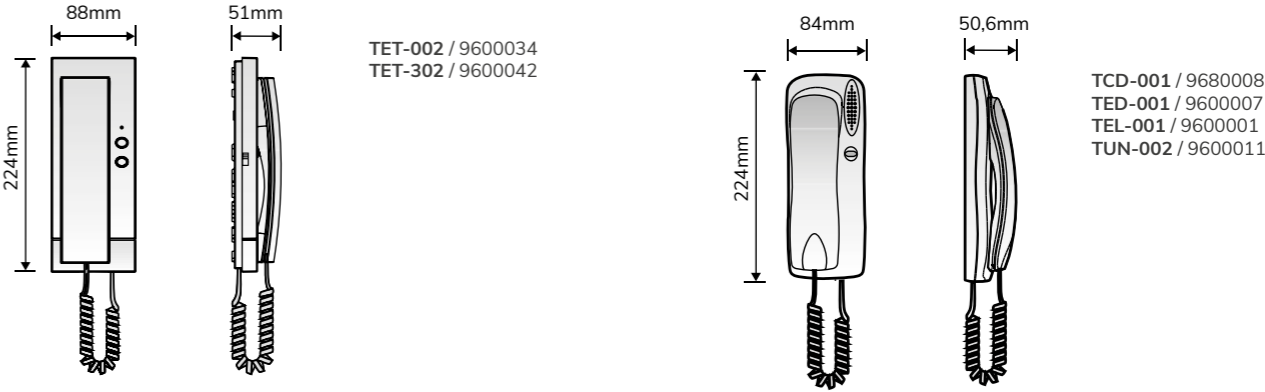
KVS-54121 / 9720167



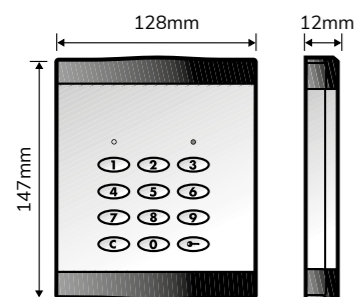
MONITORS



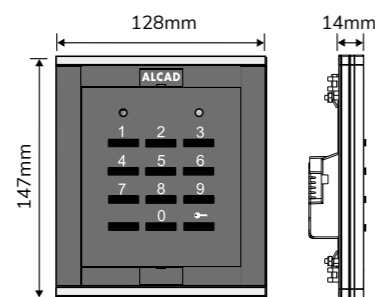
HANDSETS



ACCESS CONTROL SYSTEM



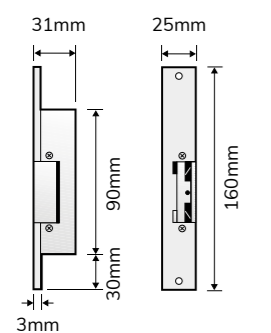
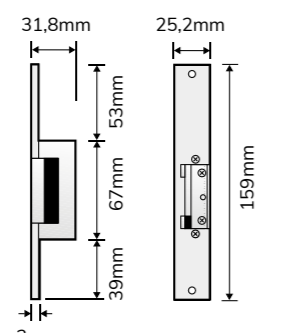
PNK-00000 / 9800006



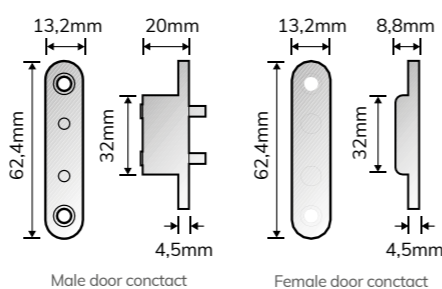
PNK-50000 / 9800114

ELECTRIC LOCKS & ACCESSORIES

FLUSH ELECTRIC LOCKS

ABR-004 / 9730003
ABR-015 / 9730062ABR-014 / 9730008
ABR-021 / 9730087

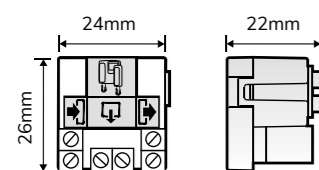
DOOR CONTACTS



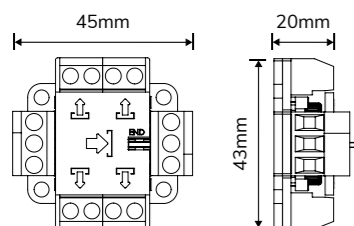
Male door contact Female door contact

CNP-001 / 9730004

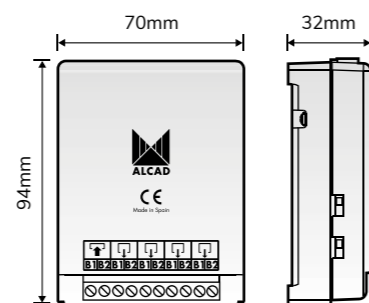
SPLITTERS / TAP-OFFS



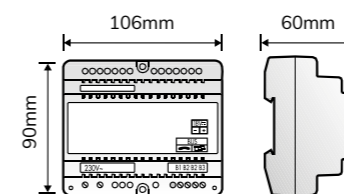
DIV-061 / 9730079



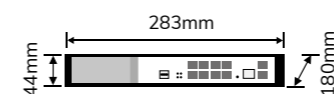
DIV-464 / 9730102

DIV-154 / 9730071
DIV-152 / 9730082

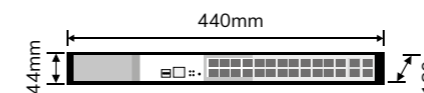
ELECTRONIC ACCESSORIES



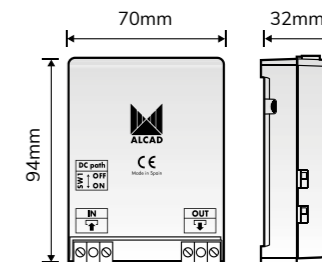
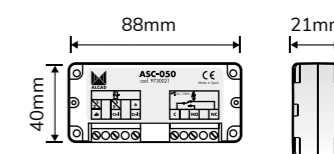
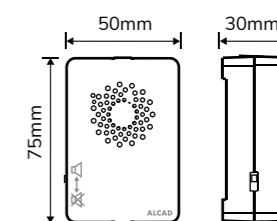
DIV-304 / 9730100



DIV-308 / 9730101

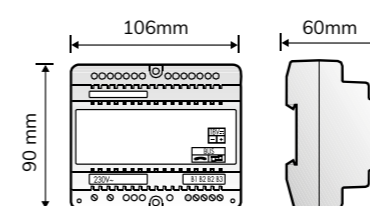
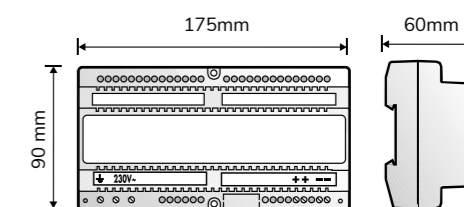


DIV-324 / 9730099

REG-053 / 9650021
REG-054 / 9650022REG-050 / 9650013
APC-001 / 9730006
ASC-050 / 9730021
CCV-001 / 9730086

AAL-200 / 9730019

POWER SUPPLY UNITS

ALS-020 / 9650004
ALM-040 / 9620011
ALC-290 / 9620023

ALC-070 / 9620014

FAQs

How many monitors or telephones can I install per home?

Both the 2-Wire and Digital systems support up to 4 monitors or telephones in one home. It is important to ensure that the number of incoming lines to the home matches the number of monitors and telephones to be installed.

How do multiple monitors work in the same home?

The call rings on all monitors, although by default only the screen of the main monitor is activated. The first monitor to respond establishes communication with the visitor, and the image is transferred from the main monitor to that unit. Alternatively, the auto-activation button on a secondary monitor can be pressed to view the visitor before answering, in which case the image is also transferred from the main monitor.

How can multiple monitors be programmed to respond to the same call?

When conducting programming, please be aware that there will only be one main monitor, with the rest being secondary.

All monitors should be programmed in the same way and left connected to the system at the end of each installation process.

This will cause the first monitor not to detect any other monitor already programmed for the call; it will assign itself as the main unit. The others, upon detecting the presence of a main monitor, will start configuring themselves as secondary units.

How many mobile phones can be linked to a Wi-Fi monitor?

The maximum number of mobile phones that can be linked to a single Wi-Fi monitor is 4.

Which terminals are used in the entrance panel to activate the door?

In both the 2-wire and Digital systems, terminals 18 and 22 are used to fit a push-button for the electric lock release, while in the 4+N system, terminals 1 and 2 are used.

Can a push-button be connected to the monitor/telephone to open the door?

No. Neither the telephones nor the monitors have terminals enabled to open the door without first receiving a call. Only the entrance panel features terminals for opening the door.

How do I check that the electric lock in the entrance panel is working properly?

To check the correct operation of the electric lock, its resistance must be measured using a multimeter. The measured value should fall between 40 and 50 ohms; if they are above or below this range, the lock may be faulty or not compatible with the system.

What happens if the red hand symbol lights up on the Usoa panel?

If the red hand symbol lights up, the board is indicating a bad connection affecting the panel's push-button array. The problem will be located in the components of the push-button array:

- Push-button modules.
- Connecting patchcords.
- Terminating resistor.

One of these components is likely to be incorrectly connected or faulty, so it will be necessary to check whether the connection between modules is correct, or whether any module is malfunctioning.

Does the BUS of the installation have polarity in the Digital and 2-Wire systems?

No, there is no polarity in the BUS via which the data is transmitted to the whole installation, neither in the 2-Wire nor in the Digital system. This is represented in 2-Wire with B1 and B2 and, in the Digital system, as D1 and D2.

In a replacement installation where I want to keep the existing cable, should I join wires if the available cable has a very small cross-section?

This is strongly discouraged. The 2-wire system works with FM modulated signals and is therefore susceptible to changes in line impedances. The practice of joining wires drastically affects this impedance, making it impossible to predict the behaviour of the system. In such cases, voltage amplification or regeneration accessories must be used.

What characteristics must the cable have for the correct functioning of the 2-Wire system?

Each cable has different characteristics, and it is not possible to provide a definitive answer to this question. If you are still unclear after reading the following recommendations, please do not hesitate to contact our technical support team.

For optimum performance and longer range, we recommend the use of cable CAB-307.

In addition, some of the cables supported by the 2-Wire system are:

- 2-wire hose.
- UTP.
- 4+N installations (replacement).
- Multi-wire hose.
- Parallel cable

Recommended cable cross-sections: from 0.22mm² to 1.5mm².

Tables relating the type of cable to the maximum distance and maximum number of homes supported can be found in the relevant installation manual.

In any case, avoid the following:

- Use of loose wires (single-core electrical cable).
- Use of drivers with different lengths or routes.
- Joining wires to achieve a larger cross-section.
- Changes to the type of cable or section throughout the installation.

Furthermore, please remember that a larger cable cross-section does not guarantee better system performance.



Reception and
distribution of
TV signals

Entertainment solutions

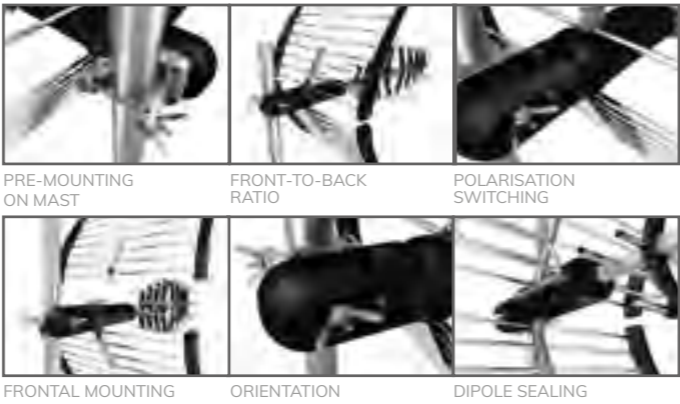
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Antennas



NEOHD
MAXIMUM GAIN



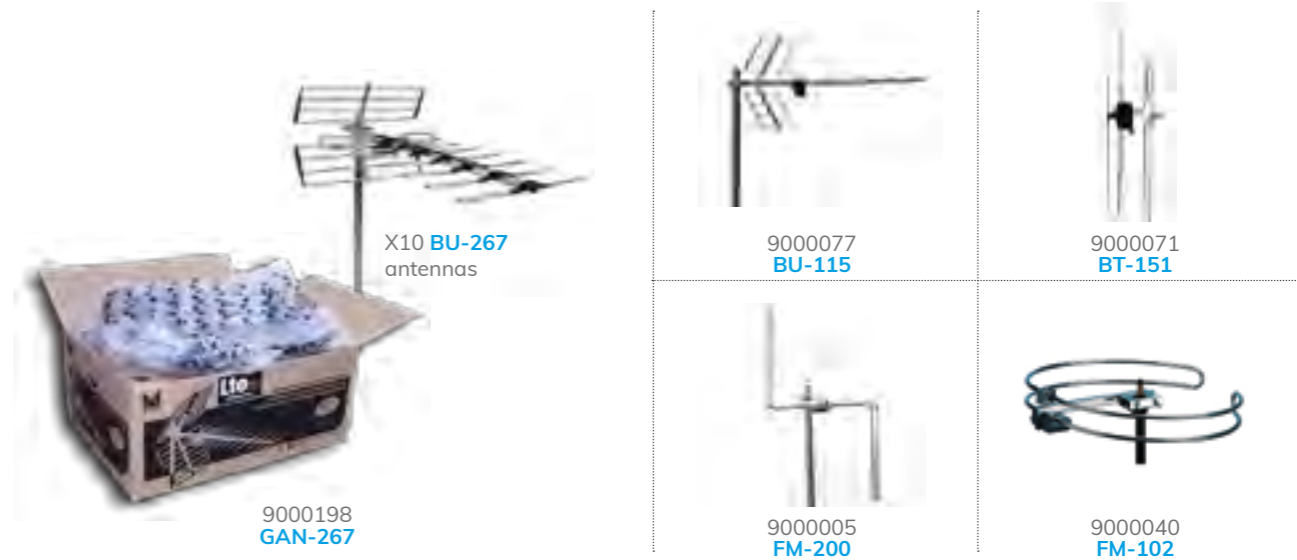
Terrestrial antennas

CODE	MODEL	DESCRIPTION	MOQ
LTE700 ANTENNAS INDIVIDUALLY PACKAGED			
9000110	BU-117	Yagi antenna 15 dBi channels 21-48 (box of 12 units)	12
9000105	BU-267	Double array Yagi antenna compact reflector 15 dBi channels 21-48	1
9000200	NEO-042	Triple array Yagi antenna 16 dBi channels 21-48 LTE700 filter	1
9000201	NEO-082	Large triple array Yagi antenna 18 dBi channels 21-48 LTE700 filter	1
9000109	MX-047	Quadruple array Yagi antenna 18 dBi channels 21-48	1

Antennas

Terrestrial antennas

CODE	MODEL	DESCRIPTION	MOQ
LTE700 ANTENNAS IN MULTIPLE PACKAGING			
9000198	GAN-267	Box of 10 BU-267 antennas individually packed in plastic bags	1
9000203	GA-452	Box of 5 BU-452 antennas individually packed in plastic bags	1
9000206	GA-042	Box of 4 NEO-042 antennas individually packed in plastic bags	1
UHF ANTENNAS 470-862 MHZ			
9000077	BU-115	Small Yagi antenna 13 dBi	18
DAB/BIII AND FM ANTENNAS			
9000071	BT-151	Omnidirectional DAB dipole antenna vertical polarization	2
9000040	FM-102	Omnidirectional circular dipole FM antenna horizontal polarization	2
9000005	FM-200	"S" shaped omnidirectional FM dipole antenna horizontal and vertical polarization (2 units)	1
UHD TDT KIT			
9000207	KA-700	DTT reception kit 5G protection NEO-042 BO-195 7 CM-004 connectors	1





Antennas

Parabolic antennas

CODE	MODEL	DESCRIPTION	MOQ
PARABOLIC ANTENNAS			
9120156	PF-220	Offset dish galvanized steel ø65 cm	1
9120157	PF-223	Offset dish galvanized steel ø65 cm with universal single LNB included	1
9120160	PF-420	Offset dish galvanized steel ø80 cm	1
9120216	PF-620	Offset dish galvanized steel ø100 cm	1
9120220	PF-742	120 cm dish aluminium with polyester coating	100

LNBs

CODE	MODEL	DESCRIPTION	MOQ
WITH COAXIAL OUTPUT			
9120265	UE-404	Universal quattro LNB	1*

* Reference subject to minimum order quantity.
Request conditions

Mast filters and mixers

CODE	MODEL	DESCRIPTION	MOQ
MAST REJECTION FILTERS			
9020052	FR-900	LTE700 notch filter passing up to channel 48 attenuation 60 dB	1
MAST MIXERS			
9020045	MM-214	2-input mixer 5-862 MHz + SAT current pass on SAT input	1
9020042	MM-307	3-input mixer VHF/FM + UHF1 + UHF2 current pass on UHF2 input	1
9020017	MM-303	3-input mixer FM + VHF + UHF current pass on UHF input	1

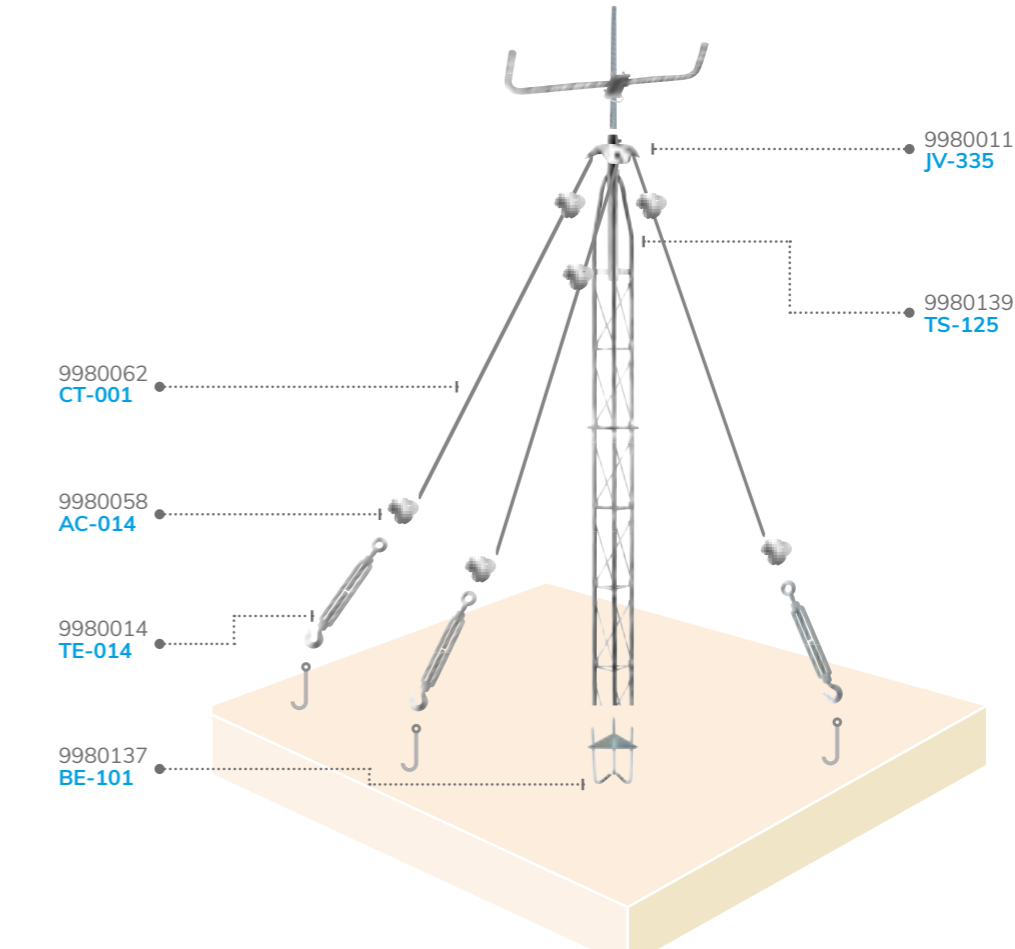
Available while stocks last

Antennas

Masts, turrets and mechanical accessories

CODE	MODEL	DESCRIPTION	MOQ
TURRETS			
9980052	TS-015	Upper mast section height 1.5 m	1
9980138	TS-115	Upper mast section height 1.5 m	1
9980050	TS-025	Upper mast section height 2.5 m	1
9980139	TS-125	Upper mast section height 2.5 m	1
9980053	BF-003	Fixed mast base mounting with metal anchors	4
9980055	BE-001	Mast base for embedding compatible with TS-015 and TS-025	4
9980137	BE-101	Mast base for embedding compatible with TS-115 and TS-125	1
MASTS			
9980117	MT-415	Slip-on mast ø40 mm length 1.5 m	6
9980118	MT-420	Slip-on mast ø40 mm length 2 m	6
9980119	MT-430	Slip-on mast ø40 mm length 3 m	6
9980120	MT-515	Slip-on mast ø50 mm length 1.5 m	3
9980121	MT-520	Slip-on mast ø50 mm length 2 m	3
M WALL FIXINGS			
PACKED AS A PAIR WITH BRACKET AND M10 SCREWS, FOR A MAST DIAMETER OF 30-60 MM, HOT-DIP GALVANISED			
9980122	FIM-100	Offset 100 mm width 45 mm thickness 5 mm	2
9980123	FIM-250	Offset 250 mm width 45 mm thickness 5 mm	2
9980124	FIM-450	Offset 450 mm width 45 mm thickness 5 mm	2
KIT WITH COUNTER PANEL FOR THROUGH-WALL			
9980125	KCP-001	Universal kit for FM-250 and FM-450 dimensions 494x45 mm threaded rods M10 length 400 mm	1

Available while stocks last



The masts are fixed to the ground with a removable base and reinforced with guy ropes.

The cords are fixed to the mast by means of an eyebolt for cords and cable ties, and tightened with tensors to ensure that the mast is perfectly vertical.

The cord anchors must be fixed to the roof.

Antennas

Masts, turrets and mechanical accessories

CODE	MODEL	DESCRIPTION	MOQ
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Y-WALL BRACKETS

PACKED AS A PAIR WITH BRACKET AND M10 SCREWS, FOR MAST DIAMETER 30-60 MM, HOT-DIP GALVANISED MAST DIAMETER 30-60 MM, HOT-DIP GALVANISED

9980126	FIY-190	Offset 190 mm width 45 mm thickness 5 mm	2
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CHIMNEY CORNERS

HOT-DIP GALVANISED OR GALVANISED STEEL TREATMENT

9980127	CHS-001	Single band clamp for mast ø30-60 mm hot-dip galvanized steel	1
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STRAPPING

DELIVERED IN COIL, HOT-DIP GALVANISED TREATMENT

9980129	FEU-005	Length 5 mm width 40 mm thickness 0.5 mm	1
9980130	FEU-025	Length 25 mm width 40 mm thickness 0.5 mm	1

ANTENNA MOUNTS

HOT-DIP GALVANISED TREATMENT

WALL-MOUNTED SLIDING ARM			
9980136	FP-435	Diameter 40 mm offset 350 mm height 350 mm base 200×200 mm	1
9980131	FP-530	Diameter 50 mm offset 300 mm height 400 mm base 200×200 mm	1
9980132	FP-548	Diameter 50 mm offset 485 mm height 400 mm base 200×200 mm	1

MOUNTING ACCESSORIES

9980133	AFP-090	Adjustable beam mount 0 to 90 degrees with bracket and screws	1
9980134	TIR-001	Clamp with fixing screw for mast ø30-50 mm with bracket and screws	1
9980135	TUI-001	Through-roof mast flashing aluminium plus PE-HD sealing cone RAL-2001	1

 9980126 FIY-190	 9980127 CHS-001	 9980129 FEU-005	 9980130 FEU-025
 9980131 FP-530	 9980133 AFP-090	 9980134 TIR-001	 9980135 TUI-001

 9980056 GM-040	 9980069 SE-090	 9980009 PI-101	 9980018 BE-201
 9980062 CT-001	 9980014 TE-014	 9980058 AC-014	 9980020 TA-001

Antennas

Masts, turrets and mechanical accessories

CODE	MODEL	DESCRIPTION	MOQ
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WALL CLAWS

9980056	GM-040	Embedding claw 300 mm zinc-plated steel	2
9980068	GM-350	Fixing claws with metal anchors 300 mm	2
9980069	SE-090	Bracket mount to fix with metal anchors 165 mm	5

OTHER ACCESSORIES

☀	9980009	PI-101	Dish foot (up to ø110 cm) mount on BE-201 with metal anchors	1
	9980140	PI-102	Dish foot (up to ø50 cm) mount on BE-202 with metal anchors	1
☀	9980018	BE-201	Dish base (up to ø110 cm) embed in concrete compatible with PI-101	1
	9980141	BE-202	Dish base (up to ø50 cm) embed in concrete compatible with PI-102	1
	9980062	CT-001	Guy wire twisted steel cable ø2 mm	100
	9980114	CT-003	Guy wire twisted steel cable ø3 mm	100
	9980014	TE-014	Tensioner for guy wire cable	1
	9980058	AC-014	Guy wire cable clamp ø1/4"	50
	9980011	JV-335	Mast guy ring	2
☀	9980020	TA-001	Adjustable base for roof flashing, mast ø40 mm	6

☀ Available while stocks last

Amplification



9030209
AM-915



9030201
AM-397



9030205
AM-487

Mast amplifiers + kits

CODE	MODEL	DESCRIPTION	MOQ
MAST AMPLIFIERS LTE700, 108DBμV			
1 OR 2 ENTRIES			
9030186	AM-187	UHF 32 dB + DAB/FM 16 dB, 12 Vdc	1
1 ENTRY			
9030193	AM-195	UHF 32 dB, 24 Vdc	1
2 ENTRIES			
9030195	AM-296	UHF 32 dB + DAB/FM 20 dB, 24 Vdc	1
9030209	AM-915	UHF 40 dB + DAB 28 dB, 24 Vdc	1
3 ENTRIES			
9030200	AM-387	UHF 32 dB + (DAB + FM) 20 dB, 12 Vdc	1
9030201	AM-397	UHF 32 dB + (DAB + FM) 20 dB, 24 Vdc	1
9039910	AM-916	(UHF1 + UHF2) 40 dB + (DAB) 28 dB, 12 Vdc	1
4 ENTRIES			
9030205	AM-487	(UHF1 + UHF2) 32 dB + (DAB + FM) 20 dB, 12 Vdc	1
9030204	AM-497	(UHF1 + UHF2) 32 dB + (DAB + FM) 20 dB, 24 Vdc	1



For further information



MAST AMPLIFIER + POWER SUPPLY KITS



Robust



Easy to install



Wide range

- 1 to 4 entries
- With switchable current flow
- Zamak chassis and IP53 plastic enclosure
- Up to 40 dB gain at UHF

Amplification

Mast amplifiers + kits

CODE	MODEL	DESCRIPTION	MOQ
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MAST AMPLIFIER KITS
LTE700

1 ENTRY			
9030197	BO-195	Amplifier kit AM-195 + power supply AL-100	1
2 ENTRIES			
9030199	BO-296	Amplifier kit AM-296 + power supply AL-100	1
9030210	BO-915	Amplifier kit AM-915 + power supply AL-100	1
3 ENTRIES			
9030202	BO-397	Amplifier kit AM-397 + power supply AL-100	1
4 ENTRIES			
9030206	BO-497	Amplifier kit AM-497 + power supply AL-100	1

CHANNEL GROUP MAST AMPLIFIERS
106 dBµV

9030048	AM-309	3 inputs, (UHF1 + UHF2) 36 dB + BI/FM/DAB 30/20/30 dB, 24 Vdc, preconfigured UHF filters	1
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Available while stocks last

POWER SUPPLIES FOR MAST AMPLIFIERS

9030086	AL-100	Power supply 24 Vdc, 100 mA, 2 outputs	1
9030087	AL-105	Power supply 12 Vdc, 100 mA, 2 outputs	1

Apartment amplifiers

CODE	MODEL	DESCRIPTION	MOQ
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TV
102-104 dBµV

9040254	AI-201	1 input, 2 outputs, UHF-VHF/S, UHF gain 24 dB, VHF/S gain 14 dB	1
9040255	AI-271	1 input, 2 outputs, UHF-VHF/S, UHF gain 24 dB, VHF/S gain 14 dB, LTE700 filter	1
9040063	AI-400	4 identical outputs, UHF 28 dB, VHF 20 dB	1*

CATV

9040057	AI-133	2 unbalanced adjustable outputs OUT1/OUT2, 86-862 MHz 24/10 dB, VR 65 MHz, 113/99 dBµV	1
9040052	AI-223	2 identical adjustable outputs, 86-862 MHz 25 dB, VR 65 MHz, 105 dBµV	1

* Reference subject to minimum order quantity.
Request conditions



Amplification

Head-end amplifiers

CODE	MODEL	DESCRIPTION	MOQ
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HEAD-END AMPLIFIERS
102-107 dBµV

9040060	CA-210	1 input, 2 outputs, UHF 25 dB, VHF 24 dB, 102 dBµV, 24 Vdc	1
9040061	CA-215	1 input, 2 outputs, UHF 25 dB, VHF 24 dB, 102 dBµV, 12 Vdc	1
9040073	CA-220	1 input, 4 outputs, TV 22 dB, SAT 25 dB, 107 dBµV, 24 Vdc	1

HEAD-END AMPLIFIERS
2 OUTPUTS AT 110 dBµV

9040141	CA-360	3 inputs, (UHF1 + UHF2) 42 dB LTE700 + BI/FM/DAB 32/22/32 dB	1
9040146	CA-362	4 inputs, (UHF1 + UHF2) 30 dB LTE700 + (DAB + BI/FM) 20 dB	1

HEAD-END AMPLIFIERS
114-115 dBµV

9049903	CA-460	Headend amplifier, 3 inputs, UHF-UHF-BIII/DAB, LTE700 filter, 114 dBµV	1
9049904	CA-461	Headend amplifier, 4 inputs, 1 output, UHF-BV-BIV-BIII/DABI, LTE700 filter, output level 114 dBµV	1

HEAD-END AMPLIFIERS
TV AND TV/SAT, 118-122 DBµV

9040077	CA-720	Terrestrial TV + satellite headend amplifier, 6 inputs, 1 output, IF-UHF-UHF-UHF-BIII/DAB-BI/FM, terrestrial TV output level 122 dBµV, satellite 120 dBµV	1
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HEAD-END AMPLIFIERS
SAT 120 dBµV

9040003	CA-730	1 input, SAT 42 dB, 120 dBµV, LNB power supply 0/13/18 V, 0/22 kHz	1
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Amplification

Broadband head-end amplifiers

CODE	MODEL	DESCRIPTION	MOQ
EVEREST TV, 117 dBμV			
9040148	CA-661	3 inputs, UHF 45/30 dB LTE700 + (DAB + FM) 32 dB	1
9040132	CA-662	4 inputs, (UHF1 + UHF2) 45/30 dB LTE700 + (DAB + FM) 32 dB	1
EVEREST TV/SAT, 117-118 dBμV			
9040143	CA-671	4 inputs, UHF1 45/30 dB LTE700 + SAT 43 dB + (DAB + BI/FM) 30 dB	1
9040144	CA-672	5 inputs, (UHF1 + UHF2) 45/30 dB LTE700 + SAT 43 dB + (DAB + BI/FM) 30 dB	1
POWER SUPPLY UNIT			
9049906	FF-201	Everest external power supply unit, 24 Vdc / 1 A	1



9040148
CA-661



9040149
CA-663



9040144
CA-672



9040065
DA-520



9040161
DA-743



9040155
DA-601

Amplification

Distribution amplifiers

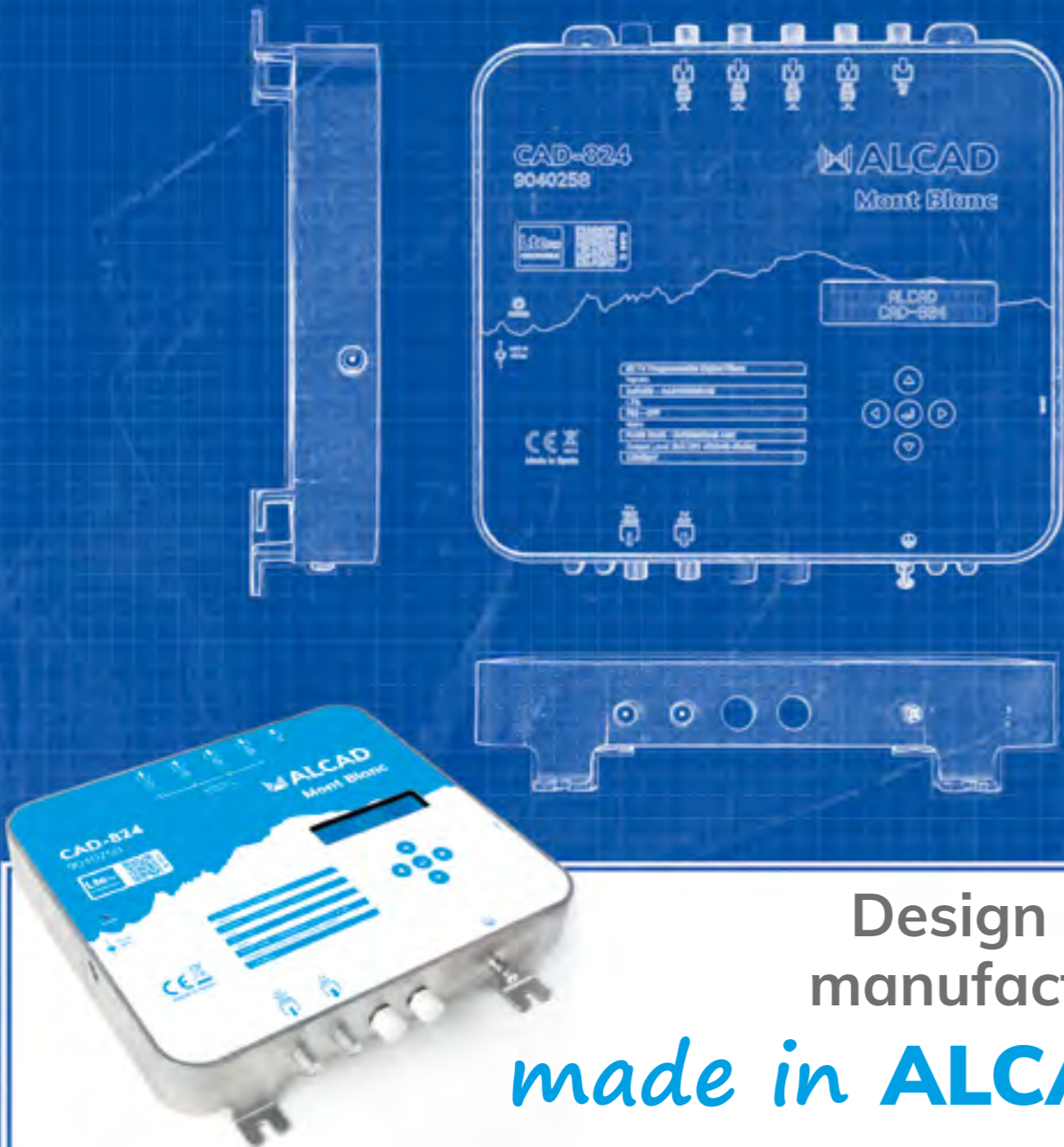
CODE	MODEL	DESCRIPTION	MOQ
LINE/DISTRIBUTION AMPLIFIERS TV			
9040015	DA-720	Separate adjustment VHF (47-422 MHz, 35 dB) and UHF (470-862 MHz, 36 dB), 120 dBμV	1
LINE/DISTRIBUTION AMPLIFIERS TV / SAT			
9040065	DA-520	For ICT, dual input and dual output TV/SAT1 + TV/SAT2, 118 dBμV	1
9040161	DA-743	TV 86-862 MHz 50 dB, SAT 40 dB, VR 65 MHz 20 dB, 121 dBμV	1
LINE/DISTRIBUTION AMPLIFIERS EVEREST TV AND TV/SAT			
9040156	DA-603	TV 86-862 MHz 34 dB, 117 dBμV, VR 65 MHz 18 dB	1
9040158	DA-613	TV 86-862 MHz 34 dB, 117 dBμV, SAT 40 dB, 118.5 dBμV, VR 65 MHz 18 dB	1
9049906	FF-201	Everest external power supply unit, 24 Vdc / 1 A	1

Mont Blanc

Programmable amplifiers



Programming manual video



Design and
manufacture
made in **ALCAD**

- ✓ The **Mont Blanc CAD-824 and CAD-834** terminals are characterised by their **zamak chassis**, which gives them **maximum shielding and robustness**.
- ✓ Designed to **facilitate the installer's work**, they are ideal for villas or residential buildings.

Amplification

Programmable amplifiers



Innovative

Developed and manufactured by ALCAD in Spain



Tough

Robust chassis made of zamak



Easy to use

Configurable with 32-digit display and button panel



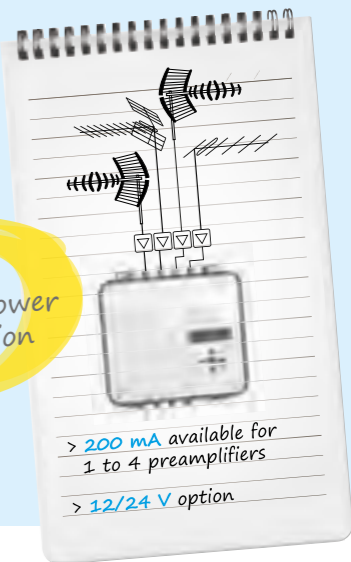
LTE700

Maximum protection against 5G interferences

Technical characteristics

- ▶ 32 programmable filters of high selectivity.
- ▶ 12/24 V preamplifier power supply in the 4 UHF/BIII/DAB inputs.
- ▶ LTE700 / Non-LTE.
- ▶ Quick and easy self-adjustment.
- ▶ External power supply.
- ▶ 4 UHF/BIII/DAB inputs + 1 FM/BI input.
- ▶ Channel conversion.
- ▶ Automatic gain control with output level adjustment.
- ▶ Extra gain regulation per channel.

With mast preamplifier power supply function



> 200 mA available for 1 to 4 preamplifiers
> 12/24 V option



9040258
CAD-824



9040259
CAD-834

1 or 2 outputs

New!

New external power supply: more robust and wall mountable



9049905
FF-401

CODE	MODEL	DESCRIPTION	MOQ
MONT BLANC DIGITAL PROGRAMMABLE AMPLIFIERS			
9040258	CAD-824	5 inputs, 1 output, 4xUHF/BIII, BI/FM, 32 filters, automatic adjustment, AGC, 12/24 V current pass, configurable LTE700 filter, output level 122 dBμV	1
9040259	CAD-834	6 inputs, 1 or 2 outputs, SAT, 4xUHF/BIII, BI/FM, 32 filters, automatic adjustment, AGC, 12/24 V current pass, configurable LTE700 filter, output level 122 or 118 dBμV	1
9049905	FF-401	Power supply for Mont Blanc CAD-824 and CAD-834 programmable digital amplifiers, 9 Vdc / 3 A	1



Amplification

Single-channel amplifiers

CODE	MODEL	DESCRIPTION	MOQ
CONNECTOR F 10-PIN POWER SUPPLY			
9050092	ZP-431	UHF single-channel amplifier, 40 dB, 115 dBμV *	1
9050022	ZG-431	UHF single-channel amplifier, 52 dB, 123 dBμV *	1
9050035	ZG-211	FM amplifier, 52 dB, 123 dBμV	1
9050106	ZG-212	DAB amplifier, 50 dB, 123 dBμV	1
9050116	ZF-712	IF amplifier, 45 dB, 123 dBμV	1
9050083	AS-125	Power supply unit 24 Vdc, 1.7 A for ZG/ZP/ZF equipment	1

* Configurable on request, please indicate desired channel

IEC CONNECTOR
FAST-ON POWER SUPPLY

9050039	ZG-421	UHF single-channel amplifier, 52 dB, 120 dBμV *	1
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* Configurable on request, please indicate desired channel

Available while stocks last

Amplification

Accessories for single-channel amplifiers

CODE	MODEL	DESCRIPTION	MOQ
BRACKETS AND BOXES			
9050100	SP-126	Mounting frame for 1 power supply and 12 modules	1
9050124	CP-126	Enclosure for SP-126 mounting frame (1 power supply unit and 12 modules)	1
BRIDGES, POWER CABLES			
9050102	PZ-010	F-bridge for mixing/demixing ZG/ZP/ZF equipment	10
9050119	PZ-020	Connector bridge F male - IEC male	10
9050104	LT-107	Flat power cable with 10 conductors	1
9050120	LT-102	Power supply adapter Faston to 10-pin male	1
9050121	LT-112	Power cable Faston - 10-pin female - Faston	1



TV-SAT distribution

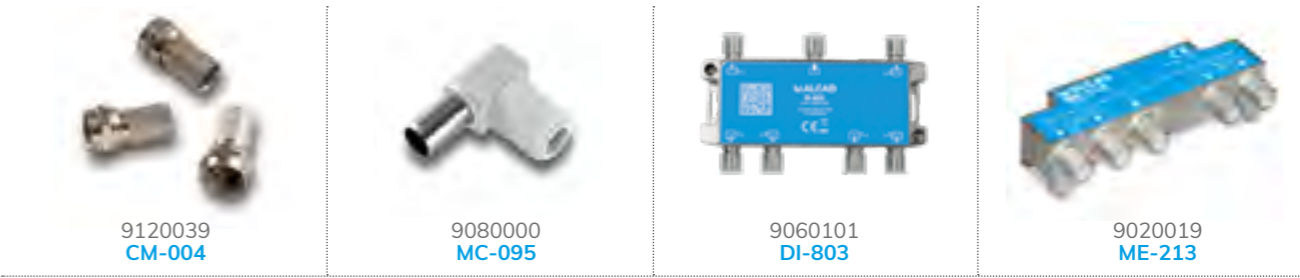
Wiring

CODE	MODEL	DESCRIPTION	MOQ
COAXIAL CABLES			
9100064	CE-140	ø6.8 mm, 18 dB/100 m at 800 MHz, 100 m, black	100*
9100063	CE-150	ø6.8 mm, 18 dB/100 m at 800 MHz, 100 m, white	100
9100056	CE-743	ø7 mm, 17 dB/100 m at 800 MHz, 100 m, black	100
9100021	CE-753	ø7 mm, 17 dB/100 m at 800 MHz, 100 m, white	100
9100058	CE-754	ø6.7 mm, 17 dB/100 m at 800 MHz, 100 m, white	100*
9100074	CE-764	ø7 mm, 16 dB/100 m at 800 MHz, 250 m, white, Dca s1,d0,a1	100*
9100057	CL-201	ø10.1 mm, 11 dB/100 m at 800 MHz, 250 m, black	250*

* Reference subject to minimum order quantity.
Request conditions

CODE			9100021	9100056	9100058	9100068	9100074	9100064	9100063	9100060	9100057
MODEL			CE-753	CE-743	CE-754	CE-763	CE-764	CE-140	CE-150	CE-860	CL-201
Shielding class			A								
Euroclass			ECA			Dca s1,d0,a1		FCA	ECA		
Inner conductor	Mat		CU		CCS	CU				HSC	CU
	Mm Ø		1.13		1.02	1.13				1.02	1.63
Dielectric	Mat		PEE								
	Mm Ø		4.85		4.7	4.80				4.6	7.2
Shielding	Mat		AL-PL-AL			CCA-PET-CCA		CU/PET+BOPP		AL-PET-AL	AL-PL-AL
Malla	Mat		AL			CCA 85%		CU		AL	AL
Deck	Mat		White PVC	Black PE	White PVC	White LSZH polyolefin		Black PE	White PVC	White PVC	Black PE
	Mm Ø		6.95		6.7	7.0±0.2		6.8		7.1	10
Attenuation/ 100 m	dB	50 MHz	4.7		6.3	3.5		3.3		4.5	2.7
		470 MHz	12.8		12.9	12.7		12.9		13.8	7.6
		862 MHz	18.1		16.2	16.2		17.8		19.5	11
		2150 MHz	30.3		31.1	27.1		29.6		33	20
Return losses	dB	5-470 MHz	>23					>26		20	>23
		470-2150 MHz	>20					>24		18	>20
Resistance to direct current	Ω/km		50			30		34		≤ 104	34
Minimum bending radius	Mm Ø		35								
Impedance characteristic	W		75±3								
Packaging	m		100			100	250	100			250

CU - Copper
AL - Aluminium
PL - Polyester
PEE - Expanded Polyethylene
PVC - Polyvinyl chloride
PE - Polyethylene
CCA - Copper-plated aluminium
CCS - Copper-plated steel
BOPP - Biaxially Oriented Polypropylene
PET - Polyethylene terephthalate



TV-SAT distribution

Connectors and accessories for coaxial cable

CODE	MODEL	DESCRIPTION	MOQ
CONNECTORS, SPLICERS AND F CONNECTOR			
9120039	CM-004	F-type male screw connector for coaxial cable ø6.5-6.8 mm, shielded	100
9080023	MC-302	F-type male screw connector for coaxial cable ø6.9-7.2 mm	100
9080033	MC-202	F-type male screw connector for coaxial cable RG-11 (CL-201)	100*
9080014	MC-104	F-type male crimp connector for coaxial cable ø7 mm	50
9080012	EP-111	Sleeve with two F-type female connectors, shielded	10
9080019	RC-110	Isolated F terminator 75 Ω	10
9120011	RS-275	F terminator 75 Ω	10

CONNECTORS AND IEC TERMINATORS

9080001	HC-095	IEC female connector for cable ø6.5-6.8 mm, shielded, angled	25
9080000	MC-095	IEC male connector for cable ø6.5-6.8 mm, shielded, angled	25
9050004	RM-075	IEC terminator 75 Ω	10

* Reference subject to minimum order quantity.
Request conditions

Splitters and taps

CODE	MODEL	DESCRIPTION	MOQ
SPLITTERS			
9060055	FI-244	2 outputs, F connectors, current passing from output to input	6
9060056	FI-474	4 outputs, F connectors, current passing from output to input	6
9060097	DI-203	2 outputs, F connectors, current passing from output to input	12
9060098	DI-303	3 outputs, F connectors, current passing from output to input	12
9060099	DI-403	4 outputs, F connectors, current passing from output to input	12
9060100	DI-603	6 outputs, F connectors, current passing from output to input	12
9060101	DI-803	8 outputs, F connectors, current passing from output to input	12

MULTIPLEXERS

9020015	ME-214	TV+SAT mixer/splitter for ICT	6
9020019	ME-213	Double TV+SAT1+SAT2 mixer/splitter for ICT	6



TV-SAT distribution

Splitters and taps

CODE	MODEL	DESCRIPTION	MOQ
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5-2,400MHZ, F CONNECTOR
FLAT TAPS

9060063	DE-201	2 outputs at 13.5 dB	12
9060064	DE-203	2 outputs at 16.5 dB	12
9060065	DE-205	2 outputs at 22 dB	12
9060066	DE-207	2 outputs at 27 dB	12*
9060068	DE-401	4 outputs at 15 dB	12
9060069	DE-403	4 outputs at 17.5 dB	12
9060070	DE-405	4 outputs at 22.5 dB	12
9060071	DE-407	4 outputs at 28.5 dB	12*
9060073	DE-603	6 outputs at 21 dB	12
9060074	DE-605	6 outputs at 24.5 dB	12
9060075	DE-607	6 outputs at 27.5 dB	12*

5-2,400MHZ, F CONNECTOR
EQUALIZED TAPS

9060053	FD-210	2 outputs, 13 dB at 862 MHz and 8.5 dB at 2150 MHz	6
9060033	FD-213	2 outputs, 17.5 dB at 862 MHz and 12 dB at 2150 MHz	6
9060034	FD-219	2 outputs, 24 dB at 862 MHz and 17.5 dB at 2150 MHz	6
9060054	FD-410	4 outputs, 15 dB at 862 MHz and 10 dB at 2150 MHz	6
9060038	FD-413	4 outputs, 18.5 dB at 862 MHz and 13.5 dB at 2150 MHz	6
9060039	FD-419	4 outputs, 24 dB at 862 MHz and 18.5 dB at 2150 MHz	6

ACCESSORIES

9060026	SD-003	Sealing accessory for splitters and taps with F connector	4
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* Reference subject to minimum order quantity.
Request conditions

TV-SAT distribution

TV / SAT outlets

CODE	MODEL	DESCRIPTION	MOQ
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USER ACCESS POINTS, F CONNECTOR
5-2400 MHZ

9070122	PT-220	2 outputs	12
9070124	PT-420	4 outputs	12
9070125	PT-520	5 outputs	12
9070126	PT-620	6 outputs	12
9070127	PT-820	8 outputs	12

OUTLETS
TV/SAT, 5-2,400 MHZ, IEC CONNECTORS

9070073	BS-112	Terminal, 2 connectors: IEC male + IEC female, 1 dB	24
9070105	BS-113	Base BS-112 without claws, to be mounted in flush-mounting box with screws	90

OUTLETS
TV/SAT, 5-2,400 MHZ, F-IEC CONNECTORS

9070062	BS-100	Terminal, 2 connectors: IEC male + F female, 1 dB	24
9070086	BS-102	Terminal, 3 connectors: IEC male + IEC female + F female, with TV/R/SAT faceplate	100*

OUTLETS
TV/SAT SERIAL, 5-2,400 MHZ

9070068	BS-110	Terminal, 2 connectors: IEC male + IEC female, 5 dB	24
9070070	BS-210	Intermediate, 2 connectors: IEC male + IEC female, 12 dB	24

OUTLETS
CASCADABLE TV/SAT, 5-2,400 MHZ

9070004	BS-220	Cascaded FI outlet 12 dB (5-2400 MHz)	24
9070005	BS-420	Cascaded FI outlet 16 dB (5-2400 MHz)	24
9070006	BS-620	Cascaded FI outlet 21 dB (5-2400 MHz)	24

OUTLETS
TV, UP TO 862 MHZ

9070039	BM-111	Terminal, UHF 0.5 dB, VHF 1.5 dB	24
9070037	BM-100	Terminal, UHF 3.0 dB, VHF 4.0 dB	24
9070040	BM-200	Intermediate, UHF 8 dB, VHF 8 dB	24
9070041	BM-500	Intermediate, UHF 10.5 dB, VHF 11 dB	24

OUTLETS
CATV, UP TO 1000 MHZ

9070043	BC-100	Terminal, 1.0 dB	24
9070044	BC-200	Intermediate, 10 dB	24

COVER PLATES AND ACCESSORIES

9070022	EM-202	TV-R/SAT faceplate for BS-100 and BS-112 outlet bases	24
9070020	EM-200	TV/R faceplate for BM and BC outlet bases	24
9070075	SB-003	Surface-mount accessory	24

* Reference subject to minimum order quantity.
Request conditions

TV-SAT distribution

Rejection filters, preamplifiers and attenuators

CODE	MODEL	DESCRIPTION	MOQ
REJECTION FILTERS AND CURRENT BLOCKERS			
9090046	RB-900	LTE700 C48 and GSM rejection filter, 60 dB, bandwidth 0–694 MHz	8
PREAMPLIFIERS AND ATTENUATORS, F CONNECTOR			
9090033	AV-315	Variable attenuator 18 dB (5–2400 MHz) with current passing	1
9090029	PR-310	Preamplifier 5–2400 MHz 10 dB remote powered with current passing (13/18 Vdc)	1
9090103	PR-202	Remote powered UHF preamplifier 14 dB (12 Vdc)	1

Available while stocks last

MU multiswitches

CODE	MODEL	DESCRIPTION	MOQ
AMPLIFIERS, POWER SUPPLIES AND ACCESSORIES			
9130041	AU-620	4-polarity amplifier, 43 dB, 119 dBμV	1
9130042	AU-640	8-polarity amplifier, 43 dB, 119 dBμV	1
9130054	FU-612	Power supply 18 Vdc / 2000 mA (8 LNBs of 250 mA)	1
9049905	FF-401	Power block 9 Vdc / 3 A	1
9080019	RC-110	Isolated load 75 Ω, F connector	10



TV-SAT distribution

MB/ML multiswitches

CASCADABLE MULTISWITCHES, ACTIVE TERRESTRIAL

		INPUTS							
		5		9		13		17	
		CODE	MODEL	CODE	MODEL	CODE	MODEL	CODE	MODEL
OUTPUTS	8	—	—	—	—	—	—	9130342	ML-1708
	12	—	—	—	—	9130337	ML-1312	9130343	ML-1712
	16	9130326	ML-0516	9130331	ML-0916	9130338	ML-1316	9130344	ML-1716
	20	—	—	9130332	ML-0920*	9130339	ML-1320	9130345	ML-1720
	24	9130327	ML-0524	9130333	ML-0924	9130340	ML-1324	9130346	ML-1724
	32	—	—	9130334	ML-0932	9130341	ML-1332	9130347	ML-1732

* Available while stocks last

FINAL MULTISWITCHES, ACTIVE TERRESTRIAL, INCL. POWER SUPPLY

		INPUTS							
		5		9		13		17	
		CODE	MODEL	CODE	MODEL	CODE	MODEL	CODE	MODEL
OUTPUTS	8	9130300	MB-0508	9130304	MB-0908	9130311	MB-1308	9130318	MB-1708
	12	9130301	MB-0512	9130305	MB-0912	—	—	9130319	MB-1712
	16	9130302	MB-0516	9130306	MB-0916	9130313	MB-1316	9130320	MB-1716
	20	—	—	—	—	9130314	MB-1320	9130321	MB-1720
	24	—	—	9130308	MB-0924	9130315	MB-1324	9130322	MB-1724
	32	—	—	9130309	MB-0932	9130316	MB-1332	9130323	MB-1732

CODE	MODEL	DESCRIPTION	MOQ
POWER SUPPLY UNIT			
9130250	FU-162	Power supply 16 Vdc/2A for multiswitches MB-05/09/2013/17/xx	1

TV-SAT distribution via optical fiber

CODE	MODEL	DESCRIPTION	MOQ
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TV-SAT DISTRIBUTION OVER SC-APC OPTICAL FIBER

9160087	OT-512	Himalaya 10 mW TV-SAT optical transmitter with LNB power supply, compatible with FA-512	1
9120255	FA-512	Power supply 96 W for OT-5x2 optical transmitters	1
9120245	FA-410	Power supply 50 W for OT-4x2 optical transmitters	1
9160084	OR-418	TV-SAT optical receiver for OT transmitters	1
9160080	OS-308	8-output SC/APC optical splitter	1

Available while stocks last

SATELLITE DISTRIBUTION OVER FIBER WITH OPTICAL LNB

9160108	OT-622	SAT-TV 7 dBm optical transmitter with LNB power supply	1
9160081	OR-512	TV-SAT Quattro optical receiver (88-2150 MHz), 1100 to 1650 nm, for singlemode fiber	1
9160037	PSU-010	Power supply for OR-512 receiver, 20 Vdc / 1.2 A	1



Signal processing

Himalaya head-ends and accessories

CODE	MODEL	DESCRIPTION	MOQ
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HIMALAYA TRANSMODULATORS
MULTISTREAM

9120260	TMS-204	4xDVB-S/S2 to 2xDVB-T/C transmodulator	1
9120261	TMS-214	4xDVB-S/S2 to 2xDVB-T/C transmodulator with common interface (CI)	1

HIMALAYA ACCESSORIES AND PERIPHERALS

9120256	PA-740	Wideband amplifier, 120 dBμV	1
9120255	FA-512	Power supply 96 W	1
9120233	SP-244	Chassis for 1 power supply and 9 TM/TMS/TT/TQ/PA modules	1
9120237	SP-743	6U chassis for 19" rack, for power supply and 7 modules (including amplifier), 47 mm pitch	1

Desktop modulators

CODE	MODEL	DESCRIPTION	MOQ
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DIGITAL MODULATOR

9510074	DMH-542	Digital modulator DVB-T/C and ISDB-T HD MPEG-4 AVC/H.264 with HDMI and A/V input	1
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ICT distribution

ICT fibre optics

CODE	MODEL	DESCRIPTION	MOQ
WALL BOXES AND DISTRIBUTION TRAYS			
9160050	ODP-348	19" tray with 24 SC/APC duplex connectors	1
9160051	ODP-312	19" tray with 12 SC/APC simplex connectors	1
9300057	RWS-003	Wall mount bracket for 3 x 19" trays (3U)	1
9160054	OWB-308	Indoor wall box for RS, 8 SC/APC connectors	1
CABLES AND PIGTAILS			
9160055	FOC-302	2-fiber indoor patch cable	500
9160057	FOC-368	48-fiber (6x8) indoor duct	500
9160058	OPT-301	Pigtail with SC/APC connector, 1 m	1
9160010	OPC-101	Singlemode SC/APC patch cord, 1 m	1
9160102	OPC-405	Singlemode SC/APC patch cord, 5 m	1
9160103	OPC-410	Singlemode SC/APC patch cord, 10 m	1
9160104	OPC-415	Singlemode SC/APC patch cord, 15 m	1
9160105	OPC-420	Singlemode SC/APC patch cord, 20 m	1
PRECONNECTORISED AND NON-PRECONNECTORISED TERMINATION BOXES			
9160106	OTB-200	Terminal box with 2 SC/APC connectors, unpreconnected, without pigtails	1
9160069	OTB-420	Preconnected terminal box with 2-fiber 20 m patch cord and SC/APC connectors	1
9160070	OTB-425	Preconnected terminal box with 2-fiber 25 m patch cord and SC/APC connectors	1
9160071	OTB-430	Preconnected terminal box with 2-fiber 30 m patch cord and SC/APC connectors	1
9160072	OTB-435	Preconnected terminal box with 2-fiber 35 m patch cord and SC/APC connectors	1
ACCESSORIES			
9160008	OAD-101	SC/APC simplex optical adapter	12
9160074	OFS-345	Fiber optic splice protection sleeve, 45 mm	100



9160050
ODP-348



9300057
RWS-003



9160054
OWB-308



9160010
OPC-101



9160106
OTB-200



9160069
OTB-420



9160008
OAD-101



9160074
OFS-345

ICT distribution

ICT structured cabling

CODE	MODEL	DESCRIPTION	MOQ
DISTRIBUTION TRAYS			
9300056	TDP-102	19" panel with 24 female RJ45 connectors	1
CABLES, HOSES AND CONNECTORS			
9300065	TCA-100	UTP CAT6 cable, LSZH	305
9300073	TCN-111	Female RJ45 CAT6 connector	1
9300061	TCN-100	Male RJ45 CAT6 connector	100
USER ACCESS POINTS, MULTIPLEXERS AND SOCKETS			
9300058	TTB-101	Terminal box for 1 RJ45 CAT6 connector	1
9300068	TPS-006	Passive multiplexer with 6 RJ45 outputs	1
9300072	TPS-008	Passive multiplexer with 8 RJ45 outputs	1



9300056
TDP-102



9300065
TCA-100



9300073
TCN-111



9300058
TTB-101



9300072
TPS-008

IPTV

**THE MOST COST-EFFECTIVE
SOLUTION ON THE MARKET,
100% MADE-IN-ALCAD**



ALCAD provides **hotels, hospitals, residences and other non-residential buildings** with a complete TV over IP network solution: from the TV signal reception via terrestrial antenna, satellite or fibre, through the processing headend to the room or common areas of the facility, such as the entrance or waiting rooms.

Thanks to its powerful and agile middleware or software, it is easy to operate, as well as intuitive, fast and very reliable. And 100% Made-in-ALCAD.

IPTV, in its Hospitality and Healthcare versions, allows a **quick and agile installation** of the entire system by automatically assigning IP addresses to each room or common area.

IPTV Hospitality

Aimed at hospitality

IPTV Healthcare

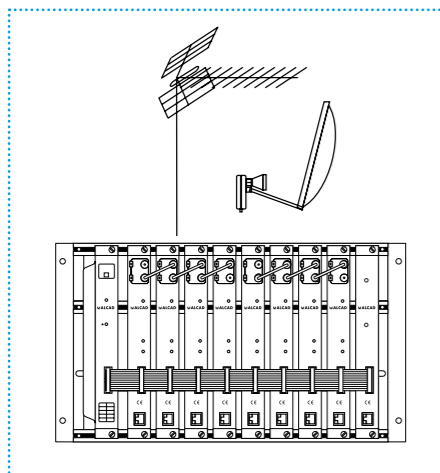
Aimed at Hospitals
and Nursing Homes

IPTV Digital Signage

Solution for
digital signage

GET TO KNOW IT IN DEPTH

The IPTV solution allows a quick and agile installation by assigning IP addresses to each room or common area automatically.



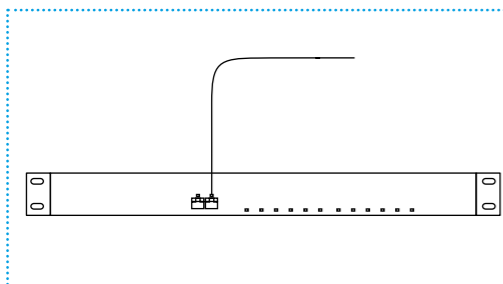
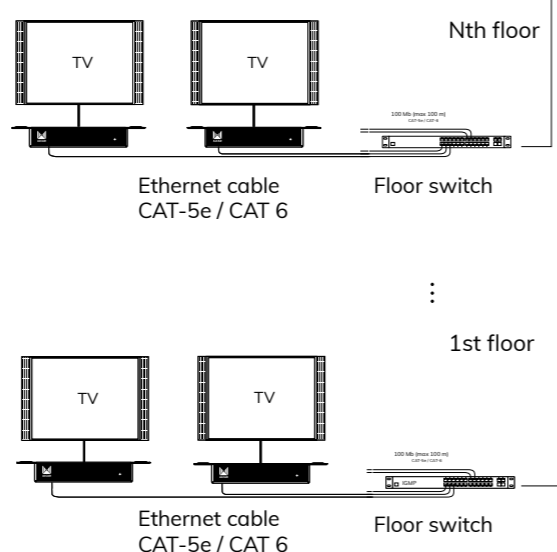
RECEPTION AND PROCESSING OF THE TV SIGNAL

It is a modular headend (915 series) consisting of rack-mounted processing modules (or streamers), which convert the received TV signal for routing on an IP network, either with a local signal via HDMI or A/V (to broadcast the establishment's own content from a DVD or other multimedia player), DVB-T (terrestrial) or DVB-S/ S2 (satellite), as well as the compact ST-300 headend with 16 inputs for IP conversion of DVB-C and ISDB-T signals.

DISTRIBUTION AND MIDDLEWARE

The user interface design can be customised by the facility itself — easily, without needing a technician, and as often as needed; this is especially useful for adapting content by season or for different types of clients or users. An elegant, exquisite, fresh and intuitive interface design.

Red Ethernet tip



SERVER: SECURITY IS BASIC

ALCAD's Multimedia-IPTV solution is based on a very robust system with the possibility of installing the "high availability" feature that allows the system to be kept in use without any interruption, even in the event of server failure, thanks to the implemented security software that manages the main and redundant servers. At the same time, it has an automatic backup generator that can be programmed with the system maintenance technician.



CUSTOMISABLE SERVICE

IPTV is the complete solution par excellence for all types of installations.

It thus becomes a very powerful marketing tool for the establishment, offering very agile and fresh interaction with the guest or user that will make them feel very comfortable during their stay.

Room service, surveys, check-out, movies or Video on Demand (VoD), and news — among other features — help ensure that each guest feels fully attended to, with personalised service, all without leaving their room.

Television

Entertainment

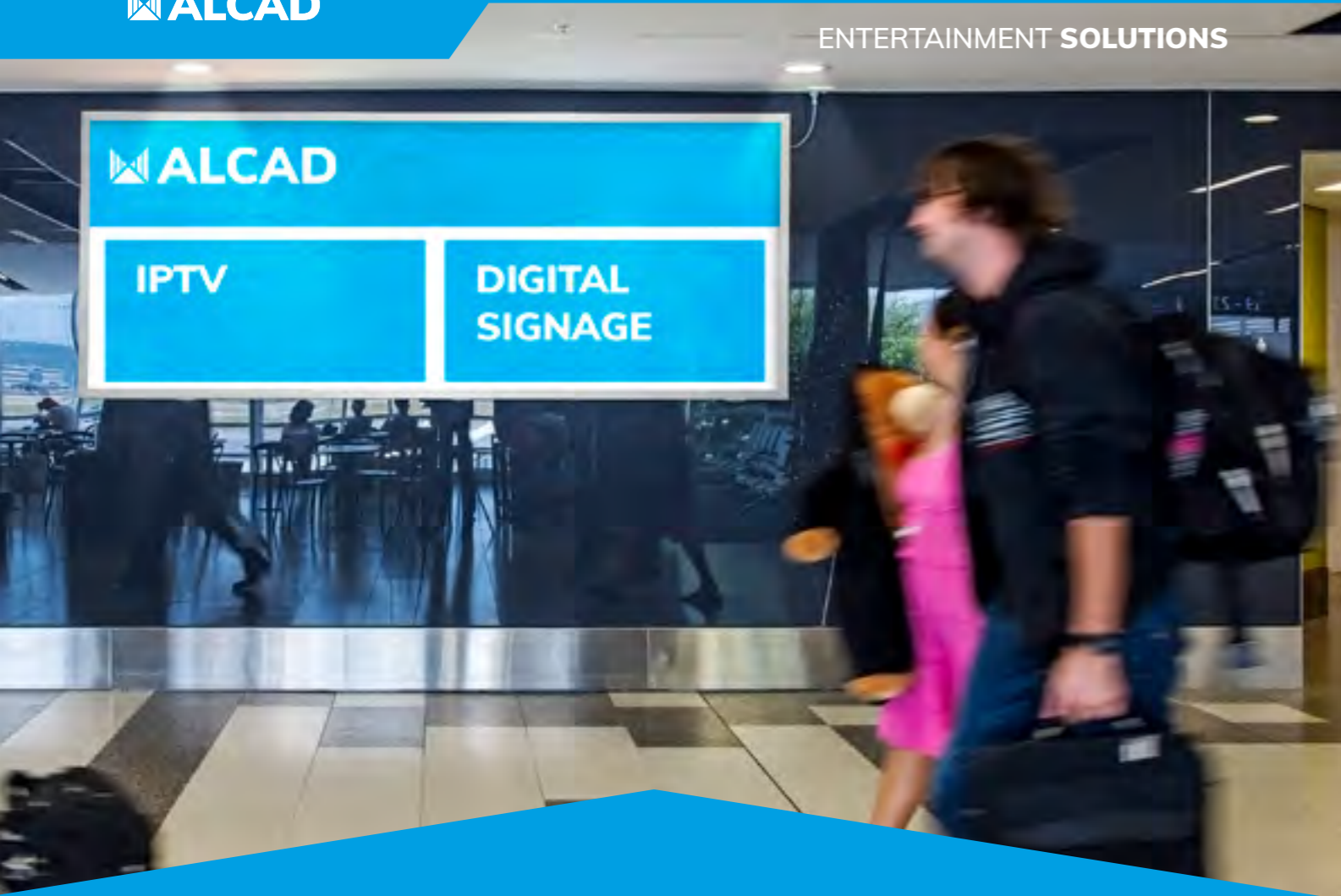
Configuration

Films
or VoD

Comparative

Services
Check-out
Alarm clock
Messages

Surveys



DIGITAL SIGNAGE: THE EASIEST WAY TO DISPLAY YOUR MESSAGE

ALCAD's Digital Signage option is a centralised web management tool that provides dynamic, effective and adapted communication, with a very simple use; the management software creates and distributes content and enables the creation of sequences and schedules.

The advantage of Digital Signage over printing is clear: in addition to being more cost-effective, the content is displayed more attractively and offers greater market segmentation, meaning better results. It is ideal for visiting areas or common rest rooms.

Characteristics:

- Control of information points (STB) with remote control.
- Creation of Dynamic Advertisements in ticker-tape.
- Creation of dynamic posters: images, texts, video, TV channels, etc.
- Dynamic Ad Planning.
- Dynamic Poster Planning.
- Temporary programming of TV channel broadcasting.
- Remote control via web interface.

IPTV

System components

Coming soon
New family
of streamers

CODE	MODEL	DESCRIPTION	MOQ
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IPTV HEADEND

9150002	ST-100	DVB-T IP streamer	1
9150003	ST-110	DVB-T IP CI streamer	1
9150063	ST-300	16-input ISDB-T/DVB-C to IP streamer	1
9150056	SH-201	1 x HDMI to IP streamer	1
9150059	SS-212	DVB-S/S2 to IP cimax diseqc streamer	1
9150060	SS-202	DVB-S/S2 to IP diseqc streamer	1
9150062	SPS-725	19" chassis for 10 modules	1
9120245	FA-410	50 W power supply unit	1

SERVERS

9430105	SRG-310	High-end server	1
9430106	SRG-410	High availability server	1

SET-TOP BOXES AND ACCESSORIES

9450060	CAS-220	HDMI to HDMI cable	1
9450316	STB-053	HD IPTV set-top box	1

SOFTWARE AND LICENCES

9450301	SOF-400	Middleware license - IPTV hospitality	1
9450305	SOF-404	Middleware license - ALCAD DS	1
9450306	LIC-400	STB license - hospitality	1
9450307	LIC-401	SmartTV license - hospitality	1

Available while stocks last



IPTV
HEADMAST



9430105
SRG-310



9450316
STB-053

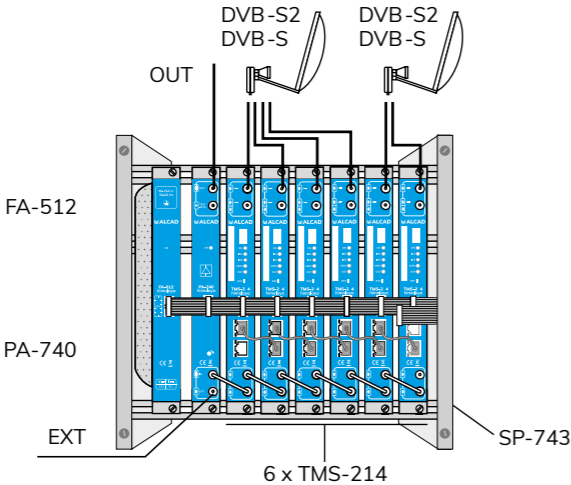


9450060
CAS-220

Appendices

Diagrams

EQUIPMENT

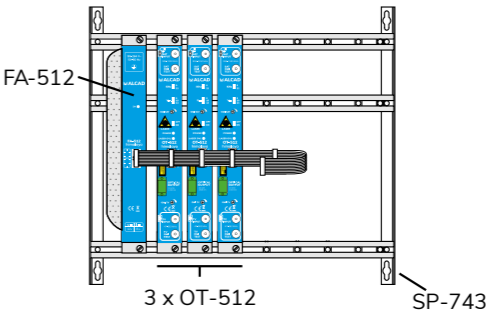


HIMALAYA HEADEND SINGLE POWER SUPPLY CONFIGURATION

CODE	MODEL	DESCRIPTION	NO OF TUNERS						
			4	8	12	16	20	24	
9120261	TMS-214	Himalaya transmodulator, 2 RF inputs, 4xDVB-S/S2/S2X to 2xDVB-T/C, 1 CI slot, multistream compatible	1	2	3	4	5	6	
9120255	FA-512	96W power supply unit	1	1	1	1	1	1	
9120256	PA-740	Broadband amplifier, 120 dBμV	1	1	1	1	1	1	
9120237	SP-743	6U support frame for 19" rack, for power supply and up to 7 modules (amplifier included), 47mm spacing	1	1	1	1	1	1	

HIMALAYA HEADEND LOAD SHARING POWER SUPPLY CONFIGURATION

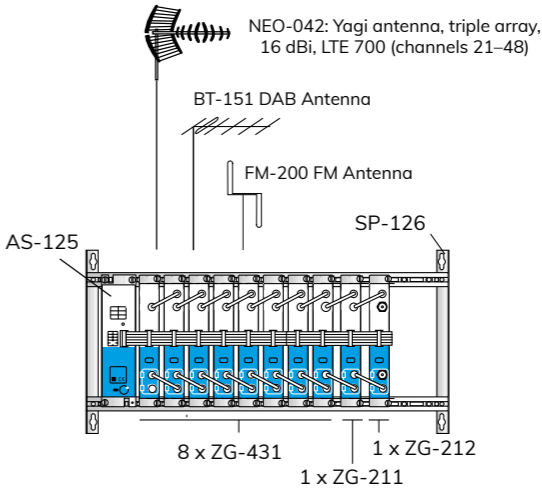
CODE	MODEL	DESCRIPTION	NO OF TUNERS							
			4	8	12	16	20	24	28	
9120261	TMS-214	Himalaya transmodulator, 2 RF inputs, 4xDVB-S/S2/S2X to 2xDVB-T/C, 1 CI slot, multistream compatible	1	2	3	4	5	6	7	
9120255	FA-512	96W power supply unit	2	2	2	2	2	2	2	
9120256	PA-740	Broadband amplifier, 120 dBμV	1	1	1	1	1	1	1	
9120237	SP-743	6U support frame for 19" rack, for power supply and up to 7 modules (amplifier included), 47mm spacing	1	1	1	1	2	2	2	



HIMALAYA HEADEND SINGLE POWER SUPPLY CONFIGURATION

CODE	MODEL	DESCRIPTION	NO OF TUNERS			
			2*	4**	6***	8****
9160087	OT-512	Himalaya optical transmitter, 10 mW TV-SAT with LNB power supply, compatible with FA-512	1	2	3	4
9120255	FA-512	96W power supply unit	1	1	1	1
9120237	SP-743	6U support frame for 19" rack, for power supply and up to 7 modules (amplifier included), 47mm spacing	1	1	1	1

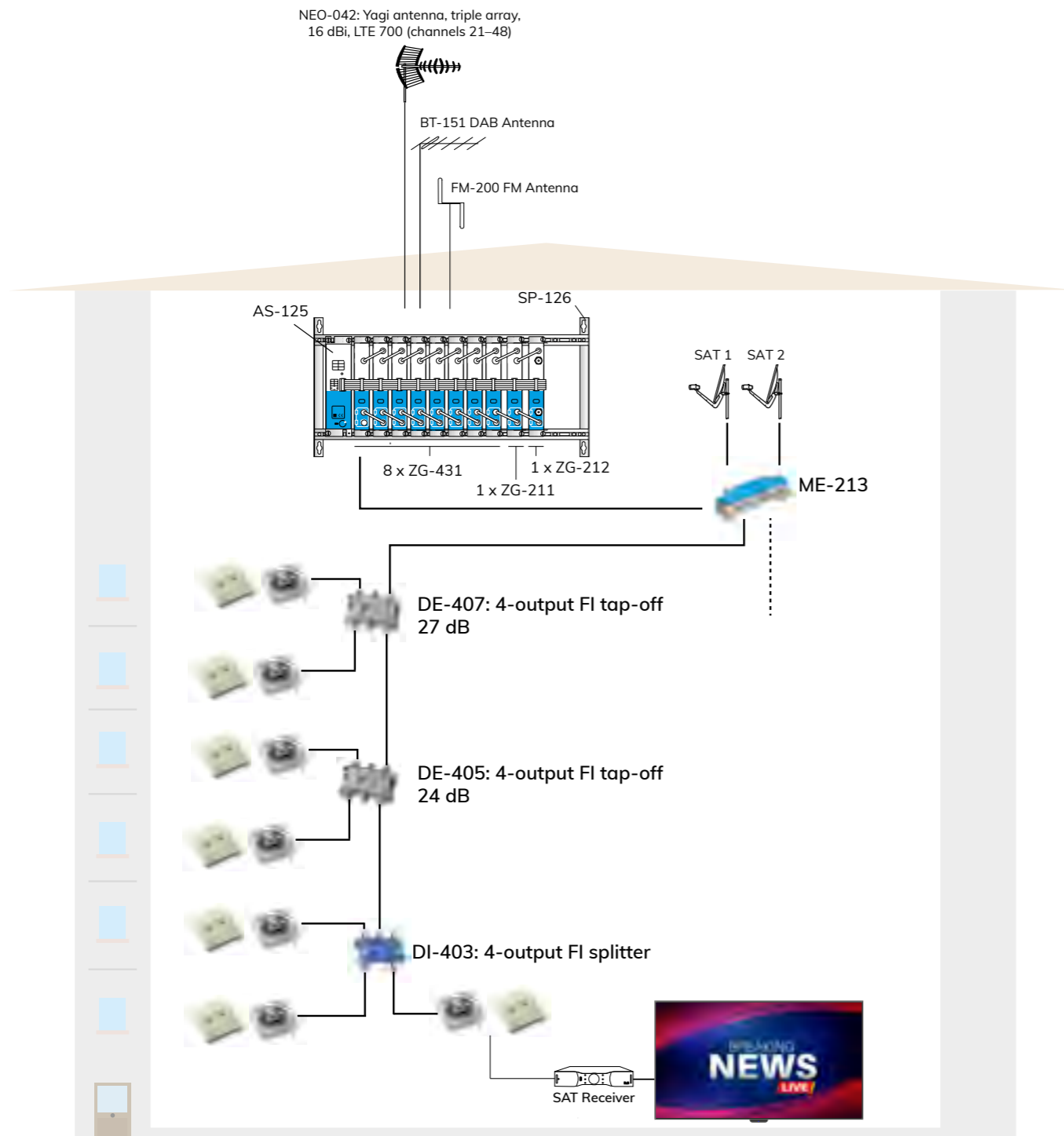
* 1 TV / 1 SAT
** 2 TV / 2 SAT
*** 3 TV / 3 SAT
**** 4 TV / 4 SAT



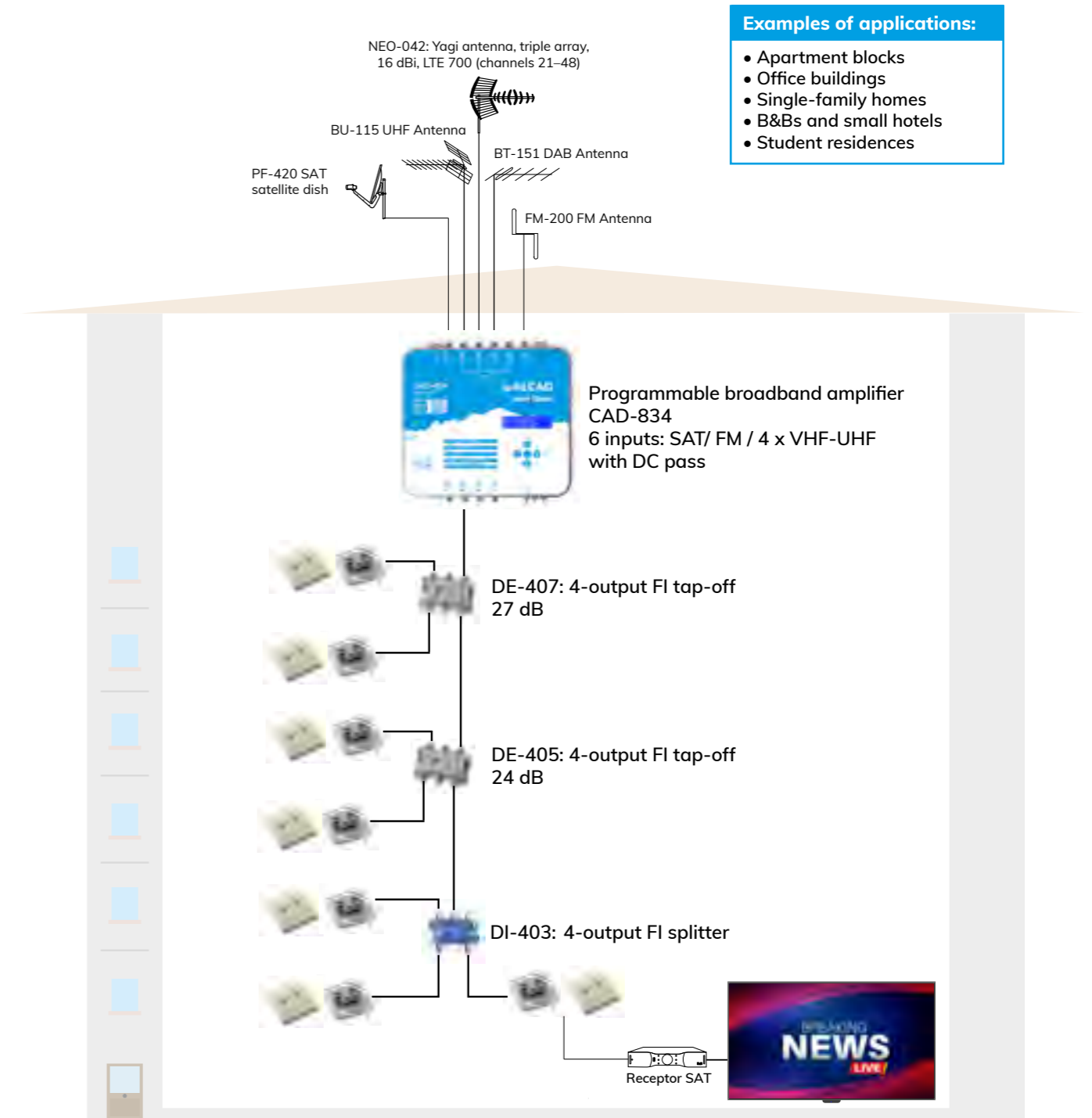
905-ZG SINGLE-CHANNEL AMPLIFIER HEADEND

CODE	MODEL	DESCRIPTION	NO OF TUNERS				
			4	5	6	7	8
9050022	ZG-431	UHF amplifier, Gain = 53 dB	4	5	6	7	8
9050035	ZG-211	Band II amplifier, Gain = 52 dB	1	1	1	1	1
9050106	ZG-212	DAB radio amplifier, Gain = 50 dB	1	1	1	1	1
9050083	AS-125	24 VDC power supply (Max. 1.7 A)	1	1	1	1	1
9050100	SP-126	Support frame for power supply + 12 modules	1	1	1	1	1
9050102	PZ-010	Fast F-type unmixing bridge	8	10	12	14	16
9050104	LT-107	10-wire flat power cable	1	1	1	1	1
9080019	RC-110	75 Ω isolated load, male F connector	3	3	3	3	3

SINGLE-CHANNEL HEADEND

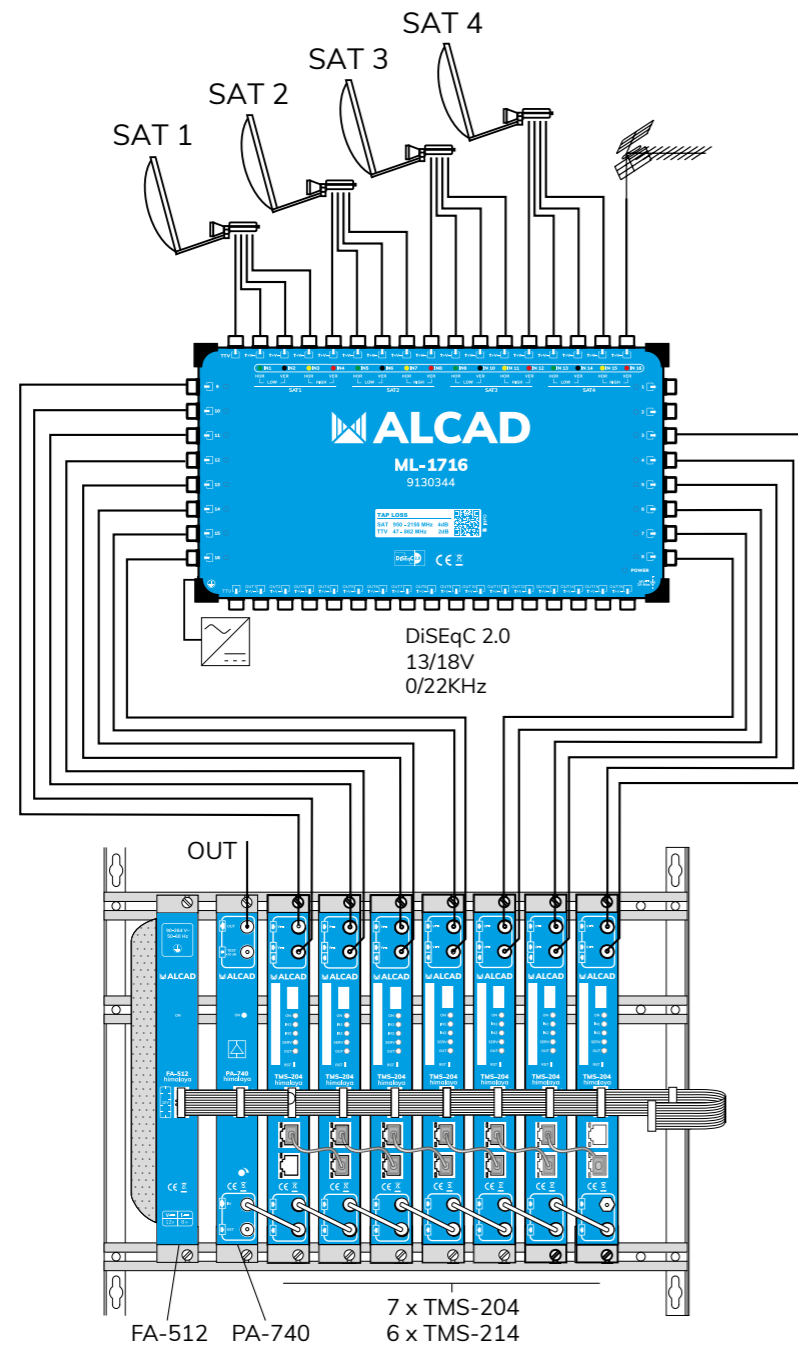


CAD-834, PROGRAMMABLE TERRESTRIAL + SAT AMPLIFIER

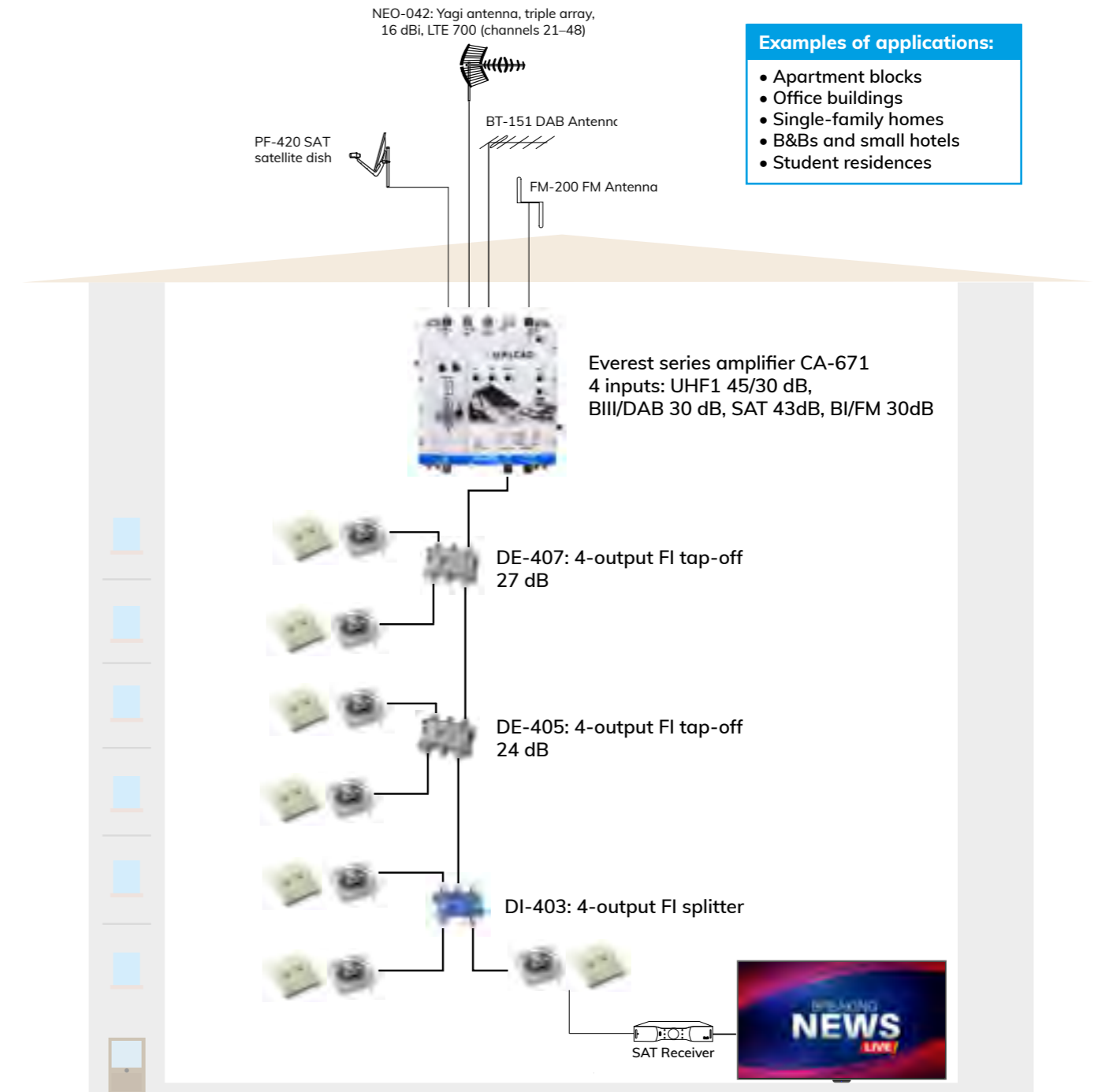


- Examples of applications:**
- Apartment blocks
 - Office buildings
 - Single-family homes
 - B&Bs and small hotels
 - Student residences

HIMALAYA TM/TMS SERIES
SATELLITE TRANSMODULATION
HEADEND



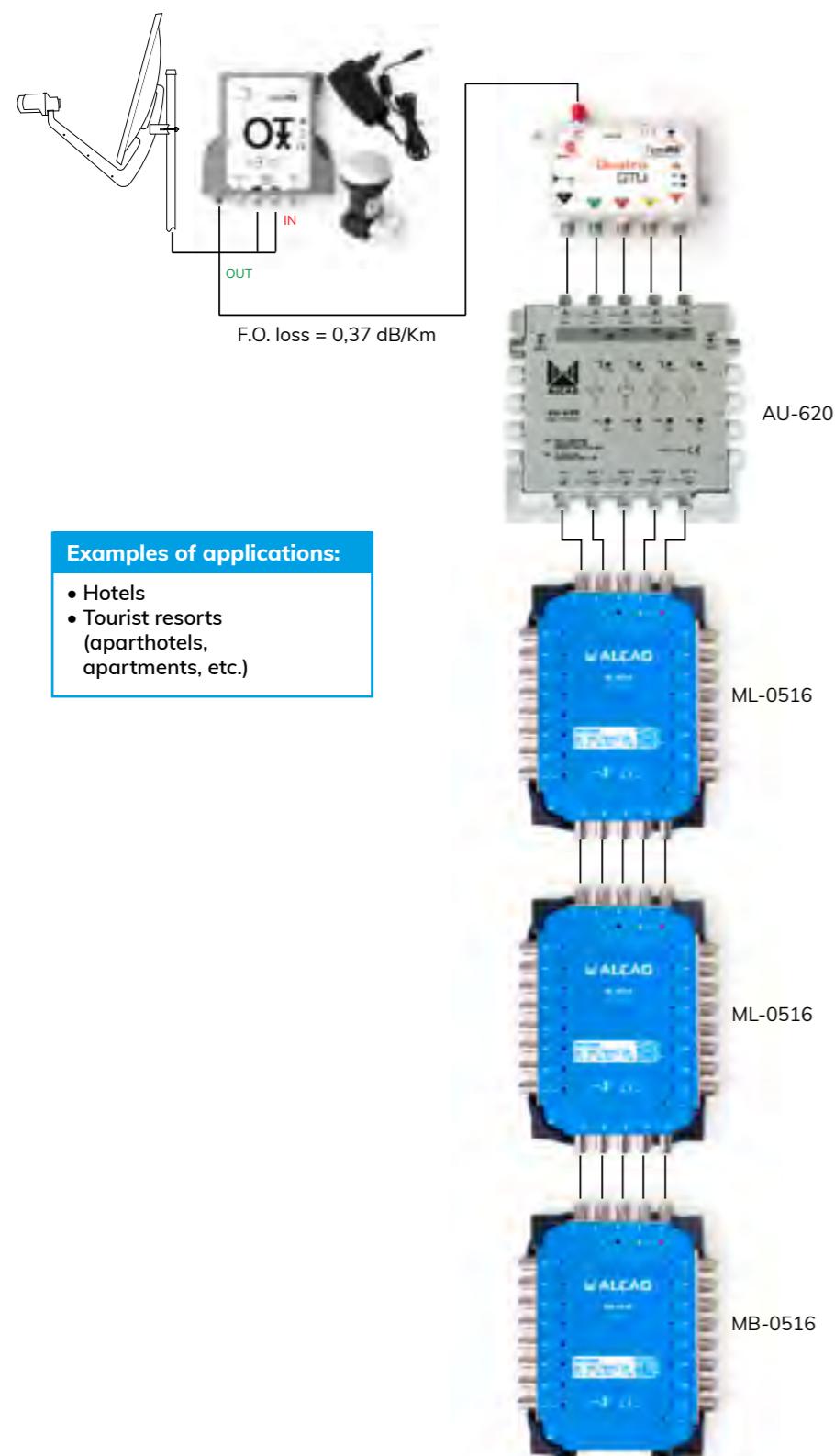
HEADEND WITH
EVEREST SERIES
AMPLIFIER CA-671



Examples of applications:

- Apartment blocks
- Office buildings
- Single-family homes
- B&Bs and small hotels
- Student residences

DTT AND SAT SIGNAL DISTRIBUTION OVER OPTICAL FIBRE, USING TRANSMITTER OT-622 + RECEIVER OR-512



Examples of applications:

- Hotels
- Tourist resorts (aparthotels, apartments, etc.)

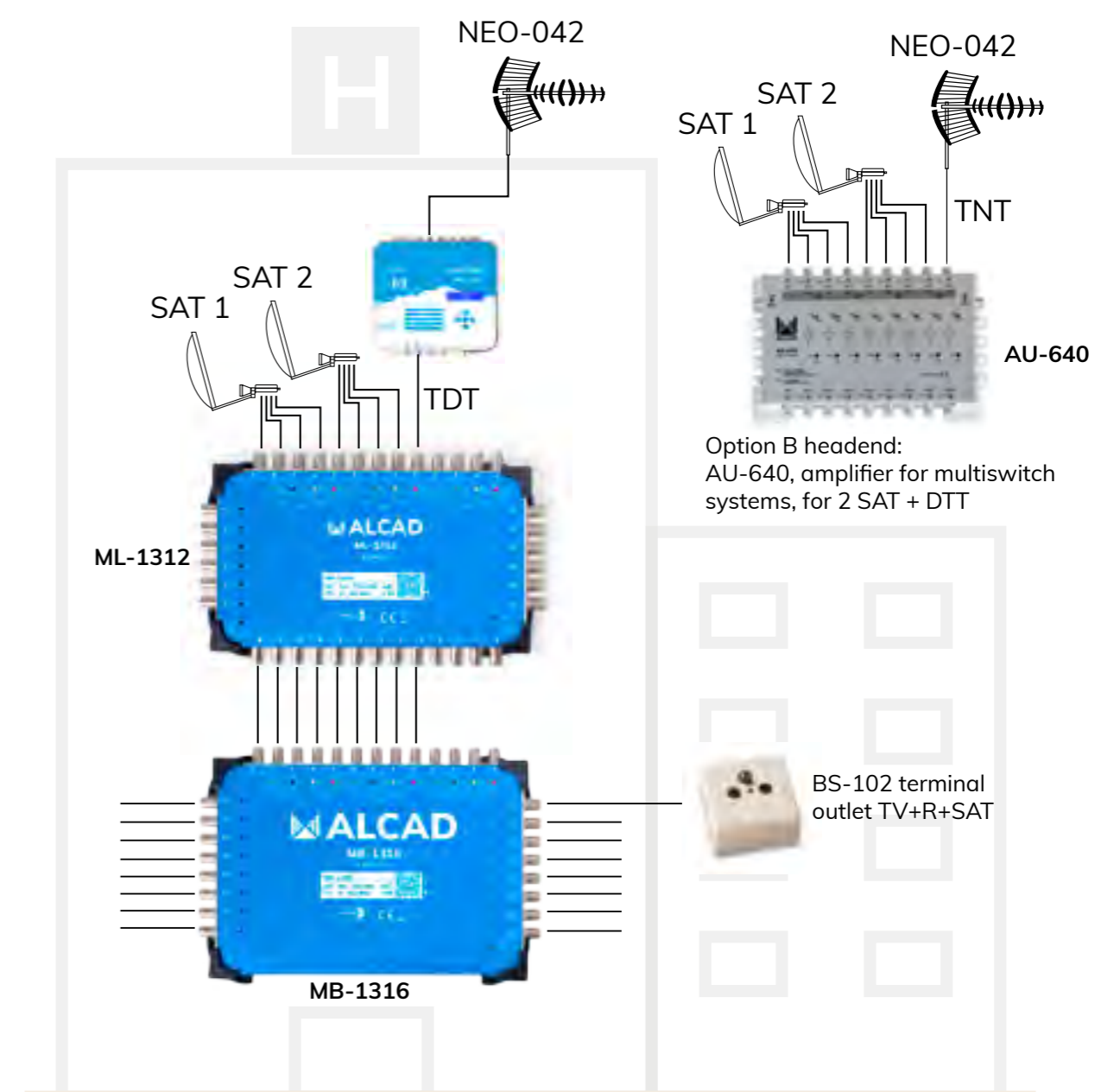
TDT AND SAT DISTRIBUTION WITH MB/ML MULTISWITCH CASCADE

Examples of applications:

- Hotels
- Tourist resorts (aparthotels, apartments, etc.)

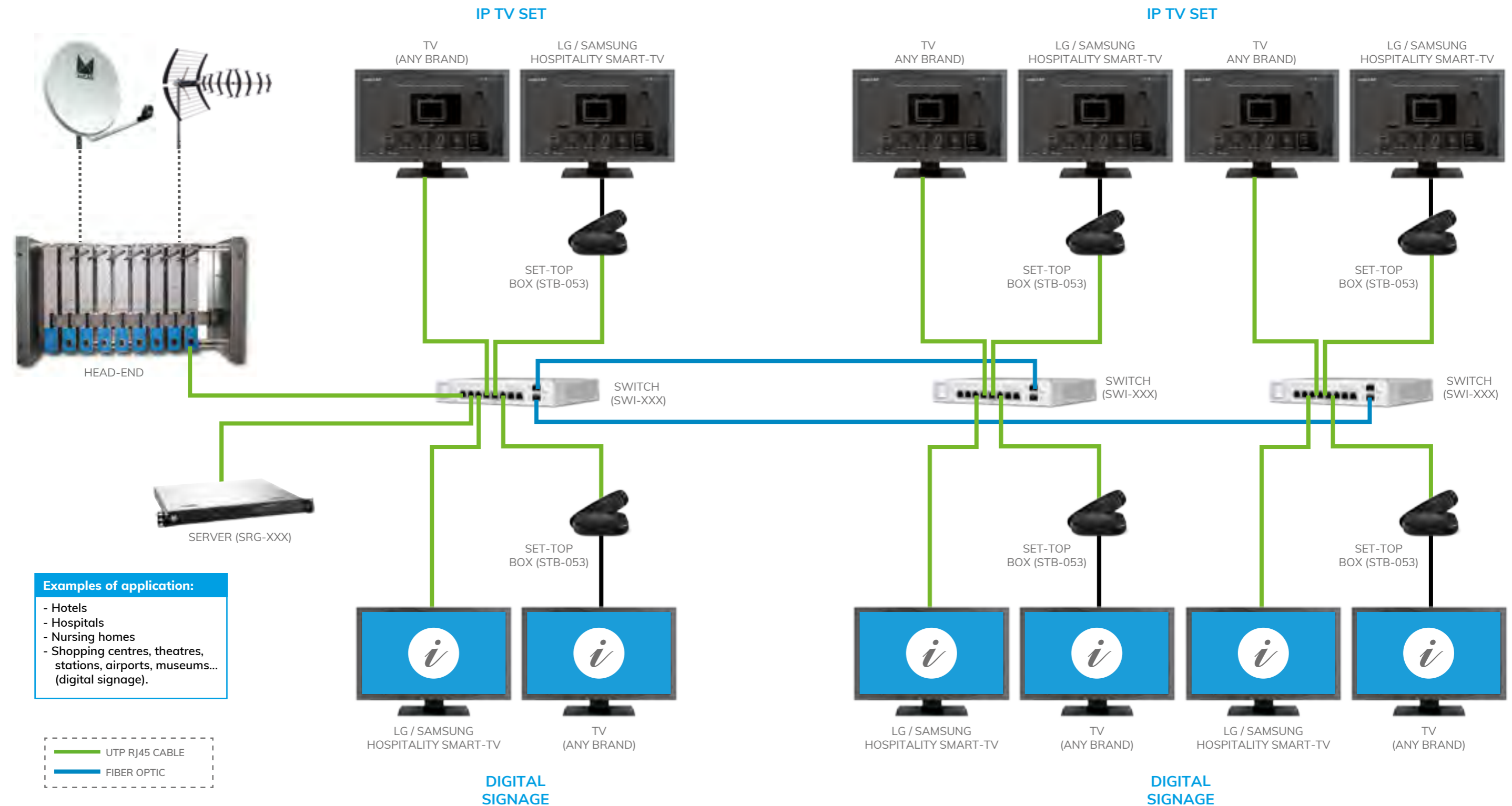
New!

ML & MB-05/09/13/17xx
Cascade and terminal multiswitches
From 8 to 50 outputs (1 to 4 satellites)



Option B headend:
AU-640, amplifier for multiswitch
systems, for 2 SAT + DTT

IPTV SCHEME
WITH 6 ROOMS AND
DIGITAL SIGNAGE



FAQs

What is the minimum level that must be present in the socket for the individual receiver to work?

In QPSK, from 47 to 77 dBμV; in QAM, from 45 to 70 dBμV and in analogue satellite, from 47 to 77 dBμV.

I have a single-channel headend installed in an enclosure, and when the door is closed, the TV visual feed becomes distorted to the point where it is no longer visible.

Due to a lack of shielding in the connectors, feedback is occurring in the amplifier. That means that the signal emitted from the amplifier is radiated by the connector in such a way that some of that signal re-enters and merges with the signal from the antenna, with the effect that at a certain point the amplifier becomes saturated.

To avoid this problem, all connectors to the headend should be replaced with shielded CM-004 connectors.

When is a universal LNB used and when is a quattro LNB used?

The universal LNB with one switchable output is used in individual installations. The four-output LNB, on the other hand, is used in collective installations.

What is the DiSEqC protocol for?

This protocol is used by individual QPSK receivers to receive the signal from two satellites (8 polarities) in multi-switched installations.

What is the difference between a CAD-824 and a CAD-834?

The main difference between these programmable control panels is the number of inputs and outputs they have, as well as the signals they are capable of handling.

The CAD-824 has 5 inputs and one output and is capable of handling UHF/BIII, BI/FM signals.

The CAD-834 has 6 inputs and the option to enable 1 or 2 outputs, and in addition to being able to process the same signals as the CAD-824, it is also capable of receiving SAT signals.

What is the difference between a TMS-204 and a TMS-214?

The only difference between these two transmodulators is the possibility of using (or not using) a CAM (conditional access module).

The TMS-204 does not have the capability to connect a CAM, while the TMS-214 is CAM-enabled.

Apart from the CAM capability, they are identical, with the same number of inputs and outputs.

How can I distribute satellite TV and terrestrial TV signals over a single cable?

Using the MM-213 mixer, you may mix the terrestrial TV signal with the signal coming from a satellite, distributing both signals through a single cable, and use an ME-213 mixer/unmixer to separate both signals when they arrive at the socket.

How are TMS-2x4s programmed?

All programming of these devices is done online by connecting a TMS-2x4 to a computer via a network cable.

Once the network cable is connected between the TMS-2x4 and the computer, the IP address 192.168.10.1 is accessed online (your computer must be at 192.168.10.200).

This address will take you to an environment that will allow you to make the necessary modifications to the equipment to ensure its correct operation.

Can the ML-xxx be powered directly?

The ML-xxx can be powered directly by the FU-162 power supply. This provides power to both the top and bottom connectors.

To configure the TMS-xxx, which RJ45 port of the TMS do I connect to?

The upper RJ45 port.

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* Reference subject to minimum order quantity. Request conditions

2026 GENERAL CATALOGUE

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* Reference subject to minimum order quantity. Request conditions

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* Reference subject to minimum order quantity. Request conditions

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9720169	KVS-55121	1	84
9720170	KVS-55321	1	85
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9730008	ABR-014	1	83, 84, 85, 86, 110, 114, 118, 121, 134, 143
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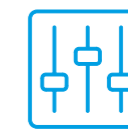
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