





# CONTENTS

ABOUT CASTEL	4-8
· 40 YEAR'S EXPERIENCE AND INNOVATION	4-5
OUR VALUES	6
OUR QUALITY POLICY: CUSTOMER SATISFACTION	7
· CASTEL SERVICES	8
APPLICATIONS	9-13
• THE MEDICAL SECTOR	9
CAR PARKS	9
• TRANSPORTATION	10
• THE BANKING SECTOR	10
• PRISONS - JUSTICE	11
• DEFENCE SECURITY	11
• TERTIARY INDUSTRY BUILDINGS	12
· INDUSTRIAL SITES	12
• EDUCATION - YOUTH	13
• THE HOTEL INDUSTRY - TOURISM	13
RANGES CONVERGENCES:	
AN ANSWER FOR EVERY NEED	14-15
DISABILITY REGULATIONS	16-17
POWERFUL AND FLEXIBLE RANGES	18-71
IP INTERCOM	
FULL IP AUDIO VIDEO INTERCOMMUNICATION XELL P	
FULL IP AUDIO VIDEO ENTRY STATIONS CAP IP	25-29
DIGITAL AND ANALOG INTERCOM	30-39
• PROFESSIONAL INTERCOMMUNICATION maylis • TELEPHONE INTERCOM SYSTEMS	
PROFESSIONAL INTERCOM PC-PCX	
SECURITY INTERCOM	
IP ACCESS CONTROL	
• VDIP EVOLUTION Value to the transfer of the	
· IPESENS IPESENS IPESENS	68-71
TO BRING YOU A GLOBAL SOLUTION	72-73
INDEX	74

# SECURITY AND COMMUNICATION FOR THE DEMANDING ENVIRONMENTS

The tertiary and industrial buildings, the medical sector, banking, the transportation and car parks, the defence sector, prisons, etc.



# ■ A MANUFACTURER OF CUTTING-EDGE TECHNOLOGY, CASTEL IS A FULL LINE MANUFACTURER AND DEVELOPPER OF ALL ITS PRODUCTS

CASTEL designs, develops and controls the manufacture of its products. This unique approach enables us to bring you truly professional solutions, tailored to the demands of your business.

# ■ REACTIVE AND RESOURCEFUL, CASTEL IS SERVICE ORIENTED

Aside from its industrial calling, CASTEL implements services to aid your progress: developing specific products, technical support, assistance with implementation, training, after-sales service, remote support, etc. This offer of continual global improvement is what enables us to move forward together.



# 40 YEARS' EXPERIENCE IN THE VOICE AND SECURITY BUSINESS. CASTEL IS A MAJOR AND INDISPENSABLE KEY PLAYER IN THE FIELD OF INTERCOM AND ACCESS CONTROL SYSTEMS

Since 1970, CASTEL has been developing and marketing communication and access control solutions, together with professional intercommunication and security systems. Armed with this industrial experience, CASTEL uses its expertise on your projects.

## A QUALITY PRODUCTION TOOL

#### > Cutting edge technology in the production department

Our production tool integrates the most advanced technologies, particularly in computer-assisted production management, setting up surface-mounted devices and product testing. Each board is tested on leaving the factory and all components arriving at your site have been inspected for reliability. The quality system is ISO 9001-version 2008 certified.

#### > A major, high performance production site

In order to satisfy your requirements and guarantee better service, CASTEL has a production site of over 2000 m². Located in Saumur, it comprises a production unit, a raw materials warehouse, a finished product warehouse and a service testing and after-sales service warehouse.

#### A STRUCTURED ORGANISATION

#### > A major commercial and technical presence

Through its domestic branches and a worldwide distribution network, CASTEL markets, implements and sets up its installations in France and abroad. CASTEL offers bases for a Marketing and Technical Assistance Force that is close at hand and listens to you.

#### > Qualified men and women

A people-oriented company, CASTEL places the expertise of the men and women that make up its workforce as one of the key elements of its success. In areas as diverse as marketing, technical assistance, sales administration, production and research, the ability, experience and versatility of our teams guarantee optimum results in the honouring of our commitments.

#### > A powerful group

CASTEL joined URMET group in 2010, benefiting from its international influence, and from synergies, including development and innovation, allowing us to bring you ever more efficient, competitive and innovative solutions. URMET group management philosophy, which provides an operating autonomy to its subsidiaries, allows CASTEL to keep its flexibility and reactivity, to be always closer to your needs and ensure your satisfaction.

#### CUTTING EDGE INNOVATION

#### > Research & Development

Our team of multi-skilled analogue and digital electronics and PC software engineers, who are familiar with the Linux and Windows environments, design increasingly high performance intercom and access control systems.

#### > Research Department

An electronics and mechanical research department uses CAD and 3D equipment to produce schematics defined by the R&D department.

#### > Tailor made

In order to fit your needs as closely as possible, CASTEL studies each specific development request. After analysis, standard products are tailored to fit these requests.

# **OUR VALUES**

Since being set up, the CASTEL company has subscribed to an ambitious approach of continual development, respect for people and social awareness hinging on 4 strong business values that bring fortune and create wealth for our contributors and clients.

## EXPERTISE AND QUALITY

Over its 40 years' experience, CASTEL has acquired a recognised level of expertise in the field of professional intercommunication and access control systems.

The quality of our designs, materials and manufacturing is one of the standards that enables us to guarantee the reliability and durability of the solutions offered.

#### CREATIVITY AND THE CULTURE OF PROGRESS

More than a tradition, innovation is second nature at CASTEL. The company is able to congratulate itself on having frequently been a pioneer in its fields of expertise, due to its efforts in Research and Development, its desire to undertake projects and the creativity of its contributors.

Continued research into the most innovative and high performing organisational, technical and humane solutions enables us to create the security and communication solutions of tomorrow.

#### RESPECT AND A SENSE OF TEAMWORK

In order to remain competitive in the long term, we must be open to change, to others and to technological change. We therefore rely on co-operation, respect and teamwork with our various partners, employees, suppliers, sub-contractors and clients.

#### LONG TERM DEVELOPMENT

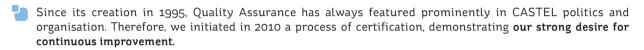
The preservation of nature and the environment is a priority for which CASTEL has developed a programme that looks to reduce the environmental impact of its manufacturing activities whilst increasing the performance of its products.

This programme hinges on three points: the Eco-Conception of products that integrate recyclable and recycled components and low-energy consumption units; choosing partners who adhere to the criteria specified under industry standard ISO 14401; sensitivity to and training of personnel in environmental protection.

The interaction between knowledge, experience, innovation and humane business values, allied with professionalism and the expertise of our employees enables us to guarantee one of our fundamentals: client satisfaction.

# OUR QUALITY POLICY: CUSTOMER SATISFACTION

CASTEL has obtained ISO 9001:2008 certification after an audit realised in 2011, December by LRQA (Lloyd's Register Quality Assurance), leader in value-added management systems certification.



**ISO (International Standards Organisation) 9001** is a worldwide recognised standard that guarantees the highest quality products and services through the application of established and verifiable procedures.

This certification recognises the **Quality Management System (QMS)**, successfully deployed, applying to all of our activities (design, manufacture and sales of solutions for buildings communication and security).

Through this certification, CASTEL demonstrates its ability to provide products and services that meet customer requirements such as statutory requirements, and thus places the customer at the focus for company teams.

Our quality policy is oriented around two poles:

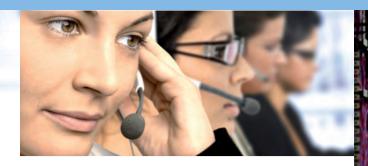
- > The complete customer satisfaction, which is our company's primary objective. It is important to understand its present and future needs and strive to anticipate their expectations.
- > Continuous improvement of our performance to ensure the sustainability of our operations and business.

Naturally, the improvement process does not end with the ISO 9001 certification, but will continue to ensure over time, customer satisfaction and operational excellence.









# **CASTEL SERVICES**

### Proximity, availability and reactivity.

Using dedicated teams, CASTEL is close to its clients and able to guarantee high level service, both before and after sales.



#### CUSTOMER SERVICE

As a partner, we support you in technical specifications analysis, to help you select the product which best suits your needs.

Our Quote Department carries out an accurate estimate of your solution and works out a quotation for your system with you. Each quote can be provided with a configuration and cabling diagram.

#### HOT LINE

A Technical Support team is at your service to answer any questions and help you over the telephone.

#### TAILOR MADE SUPPORT CONTRACTS

CASTEL can provide internet, remote or on site support contracts for its XELLIP, CAP IP, VDIP Evolution and MAYLIS ranges. So, whether remotely or directly on site, CASTEL will diagnose and help you maintain your installations.

#### ENGINEERING - ON SITE SERVICING

If you wish, CASTEL can assist you in part or in full with the programming, testing and ensuring the successful operation of your equipment on site.

We can also pre-program some of your equipment in our factory.

#### AFTER-SALE

An after-sale department in the factory guarantees the durability of your equipment. Our equipment and labour are guaranteed for 1 year. Once this guarantee expires a quotation for a further guarantee is drawn up.

#### TRAINING

On request, we can provide customised training programs for our products (installation, operation, maintenance), either on site or at our premises for installers and users.

And every year, standard training sessions are available. Feel free to contact the Technical Support Department to find out the dates of these training sessions.

CASTEL is a training provider: activity registered under the number 52.49.02686.49 to Pays de Loire Region Prefecture.

# Your Professional Area on the CASTEL website

Providing you with a reactive, increasingly high performance service, CASTEL has added new features on the Professional Area of its website:

- > access to the different technical files for our products and their documentation
- > diagrams and specific technical specifications
- > possibility of requesting return material authorisation number, with online tracking
- > manage your incident tickets via your support contract, etc.

# In hospitals, retirement homes or laboratories, clear,

reliable and fast communication systems as well as systems for personnel, patient and visitor security are of prime importance.

Our solutions, and particularly those for isolation and sterile areas specifically tailored to clean rooms, respond perfectly to these demands.

- Security intercom systems in different rooms, corridors, lifts, car parks (fire alarms, emergency calls)
- •Visitor reception intercom systems, night reception (emergencies, dispensaries)
- Counter intercom systems (admissions, etc.)
- ·Access control management for personnel, car parks and restricted areas
- Remote control door and barrier opening
- •Complete inter-department intercommunication systems (admissions, operating theatres, laboratories, emergency, etc.)
- Listening intercom systems in specialized reception centres
- Fast, easy to use communication systems (hands-free, programmable redial button, conference calling, etc.)
- Advanced solutions that can easily be integrated into existing equipment (information and emergency terminals, etc.)
- IP technology for voice and image transmission, access control and application diagram management in local or remote sites which can be centralised in multi-site complexes
- Water proof and easy clean surface stations tailored for clean rooms (operating theatres, etc.)



#### **REFERENCES:**

trière Hospital, Nantes Hospital Centre, Bayard Clinic in Villeurbanne, Pontarlier Hospital Centre, Cadillac Hospital Centre, the Timone Hospital, Saint Vincent de Paul Clinic in Bourgoin, Pompidou Hospital in Paris, Chateaubriand Medical House, Rochefort Hospital, Vannes Hospital, Nantes Therapeutic Research Institute, Cayenne Hospital, Nantes Blood Transfusion Centre, and many others references through our worldwide network of distributors.



# CAR PARKS

Our powerful, professional intercom solutions enable secure communication, giving your customers a quality of service that promotes loyalty and satisfaction with a feeling of constant support, as well as facilitating communication between those in charge and parking attendants.

#### (entrance/exit terminals, intermediate terminals, pedestrian readers, automatic payment machines, lifts, etc.)

- IP network connection for long range audio, video and data flow
- Stations benefiting from high acoustic quality and optimal robustness
- Complete intercommunication systems in multi-site complexes: fast, efficient communication between several local or remote points
- Efficient teamwork thanks to centralised communication via IP at remote management centres
- Security intercom systems (fire alarms, emergency calls), application diagram and access control management
- •SIP type solutions complying with communication interoperability standards and which can be integrated perfectly in centralised management solutions
- Disability regulations compliant stations











#### **REFERENCES:**



- Information, assistance and emergency intercom systems
- Ease of integration into different equipment: assistance terminals on bus, tram and underground platforms, in stations, airports, pedestrian zones fold-away terminals for vehicle access, motorway toll terminals, emergency call terminals in tunnels, terminals for booking taxis, etc.)
- Application diagram and access control of ancillary areas welcoming public transport users, access to autonomous ports, access to locks on waterways,
- Information distribution (conference calls, general calls, etc.)
- High quality audio enabling perfect comprehension whatever the surrounding
- Long range audio, video and data management via IP
- •Intercommunication and centralised communication available to and from remote management centres
- Fast, easy to use communication systems (hands free, programmable redial buttons conference calls, etc.)
- Robust stations tailored to various requirements (waterproof, vandal proof, disability regulations compliant versions, etc.)

#### **REFERENCES:**











# THE BANKING SECTOR



CASTEL's high performance professional intercom and access control systems respond to the specific needs of the banking industry, offering maximum security for property and personnel, as well as fast and secure independent and remote communication systems.

#### **REFERENCES:**

National Bank of France, Crédit Lyonnais in Lyon, Groupama in Orléans, Inter Paris, the French Stock Exchange in Paris, Deposit and Consignment Office (Paris, Bordeaux, etc.), Caisse d'Epargne Group in Paris, Qatar National Bank in Paris, Crédit Agricole (La Roche-sur-Yon, Nice), Macif in Tours, Fortis in Monaco, the French financial authority (Autorité des Marchés Financiers) Paris, Société Générale in Abidjan, and many others references through our worldwide network of distributors.

- •Reception intercom and security systems for a variety of access requirements (branches, head offices, etc.)
- Remote control door and barrier opening
- Integrated video solutions (reassurance, aided assistance)
- Access control management for personnel, car parks, restricted areas, etc.
- Application diagram of communication, alarm and intruder detection systems
- Time programming (lighting, door unlocking, intrusion, etc.)
- Counter intercom systems
- Double-entrance security door intercom systems
- Help and emergency intercom systems on cash machines
- •Intercommunication, hands-free communication, conferencing, general calls, call transferring, etc.
- IP network connection for long range audio, video and data flow
- Multi-site management by a single system
- Secured communication protocol
- Disability regulations compliant stations











# ▶ PRISONS ▶ JUSTICE

CASTEL has extensive experience and numerous serious testimonials from the prison system, enabling the company to offer high performance solutions for secure prison management and personnel, prisoner and visitor flow.

- Security intercom systems (intercommunication between different units control stations and central control room)
- Centralised communication from remote control stations
- Cell intercom systems (vandal proof stations, lighting control, luminous call marking, noise detection calls, caller identification, etc.)
- Access and contact intercom systems (building, corridor, airlock access, etc.)
- Visiting room intercom systems (with listening and recording options)
- Counter intercom systems (packet/document window, etc.)
- Application diagram of communication, access and alarm systems, video feedback
- Audio, video and access control management (code, badge or biometric) via IP
- Stations specifically adapted to the prison environment, benefiting from optimal acoustic quality and robustness
- Bus or star network connection, or via IP
- Solutions that meet standards of interoperability and which fit perfectly into centralised management solutions





#### **REFERENCES:**

Prison Centres (Le Havre, Mont-de-Marsan, Toulon-La Farlède, etc.), Prisons (Douai, Montauban, Clermont Ferrand, etc.), State Prisons (Arles, Saint-Maur, etc.), Youth Prisons (Marseille, Valenciennes, Lyon, etc.), Partial release wings (Aix-Luynes, Lille, Toulouse-Seysses, etc.), La Gautrèche Closed Education Centre, Detention centres (Guyane, Lesquin, Rennes, etc.), Law Courts (Paris, Bayonne, Rennes, etc.) and many others references through our worldwide network of distributors.





Whether for a military site, fire or police station, CASTEL solutions enable maximum security for people, property, access and installations, which is of paramount importance in these types of establishment.

#### **REFERENCES:**

CODIS Metz, SDIS (Maine et Loire, Pyrénées Atlantiques, Moselle, etc.), Air bases (Cognac, Tours, Evreux, etc.), Military bases (Maisonfort, Valmy, etc.), Brest Arsenal, Saint Nicolas Pyrotechnics, DCNS (Angoulême, Lorient, etc.), Cercottes training camp, Villeurbanne Police Station, Nîmes Municipal Police Station, DIRISI Papeete, Favière Transmissions Centre, and many others references through our worldwide

- Visitor reception intercom systems
- Site security (access control, intrusion)
- Emergency intercom systems
- Application diagram and centralised management of alarm (fire, intrusion), access and communication systems
- Restriction management (sending emails, SMS messages)
- Access control management for personnel, car park and restricted areas etc.
- Time programming (lighting, door unlocking, intrusion, etc.)
- Intercommunication and distribution of information (conference calls, general calls, etc.)
- Stations tailored to different applications (vandal proof, internal, external, waterproof, counter intercom systems, etc.)
- IP network connection for long range audio, video and data flow
- Secured communication protocol



Rochefort CCI, GAN Tower, the Pays de la Loire

Whether for high rise buildings, public buildings, administrative or community offices, commercial centres or office buildings, CASTEL offers optimum solutions in reception, property and personal security, as well as fast, reliable communication.

- Intercom systems for security, centralised fire alarms and emergency
- Visitor reception intercom systems
- Inter-departmental intercommunication
- Access control management for personnel, car parks and restricted areas, etc. (different companies can use the system thanks to access
- Application diagram for communication, alarm and intrusion detection systems
- Time programming (lighting, door unlocking, intrusion, etc.)
- Remote control door and barrier opening
- Multiple function stations (internal, external, refuge call points, car park access bollards, counter intercom systems, etc.)
- Voice, image and data IP management
- Communication and access control for remote buildings (multi-site complexes)
- Disability regulations compliant stations











# INDUSTRIAL SITES



CASTEL offers communication and security solutions of high acoustic quality and optimal robustness. Tailored to the needs of the industrial sector, the wide range of equipment offered by CASTEL enables the demands of the most difficult environments to be met (humidity, forecasting, rises in temperature, ambient noise, etc.).

- Visitor reception intercom systems
- Remote control door and barrier opening
- Access control management for personnel, car parks, deliveries, etc.
- •Inter-departmental intercommunication (production, logistics, administration, etc.)
- Information distribution (conference calls, general calls, etc.)
- Security intercom systems (fire alarms, emergency calls)
- Application diagram of communications, technical alarms, intrusion detection and restriction management (sending emails, SMS)
- IP network connection for long range audio, video and data flow
- High quality and efficient communications (ambient noise reduction, handsfree)
- Stations tailored to difficult environments (vandal proof, internal, external, weatherproof, etc.)

#### **REFERENCES:**

the Servier Laboratories in Gidy, Gates Annonay, Belfort Technology Park, the French Atomic Energy Site in Cadarache, the Hague Nuclear Site, Hersant Group Printing Works, Bouygues Telecom Head Office Challenger, Valéo, the Mérignac, and many others references

# **DEDUCATION - YOUTH**



Our large range of professional intercom systems, access control or intruder detection solutions enable establishments to be more secure (schools, university campuses, crèches, etc.) and offer a reassuring environment to children, pupils, teaching staff and visitors.

Reception intercom systems

- Video integrated solutions (reassurance, aided assistance)
- •Access control management for pupils, teachers, personnel, car parks, classrooms, computer, boarding-school and campus areas, etc.
- Application diagram and centralised management of alarm (fire, intrusion), access and communication systems
- Advanced and easily integrated solutions in information or emergency call terminals
- Increased boundary access security
- Lateness management (interfaced with schedule management software)
- •IP technology for voice, video and access control management of remote buildings (multi-site complexes)
- Listening intercom systems in crèches (noise detection)
- Disability regulations compliant stations













#### REFERENCES:

Ivry Technical College, IUT Clermont Ferrand, Chatenay-Malabry Faculty of Pharmacy, IUT Saint Etienne, European Science Foundation Strasbourg, University of Jussieu, Notre-Dame-

# THE HOTEL INDUSTRY



The various network communications and solutions implemented by CASTEL are guaranteed to be easy to use and reliable for communication and premises security, and offer your clients a quality of service that is essential in the tourist industry.

#### **REFERENCES:**

Accor Group Hotels, Hilton Evian Hotel, Méridien Montparnasse Hotel, Lucien Barrière Casino Toulouse, Center Parcs Chamouille, Château des Mesnuls, Tables and many others references through our worldwide network of distributors. Visitor welcome intercom systems (day/night)

- Security intercom systems (fire alarms, emergency calls), application diagram and access control management (personnel, car parks, deliveries, etc.)
- Remote control door and barrier opening
- Time programming (lighting, unlocking, intrusion, etc.)
- IP network connection for long range audio, video and data flow and centralised communication with assistance and remote management centres (night calls, for example)
- Video integrated solutions (reassurance, aided assistance)
- Stations tailored to various applications (internal, external, refuge call points, car park access terminals, counter intercom systems, disability regulations compliant, etc.)



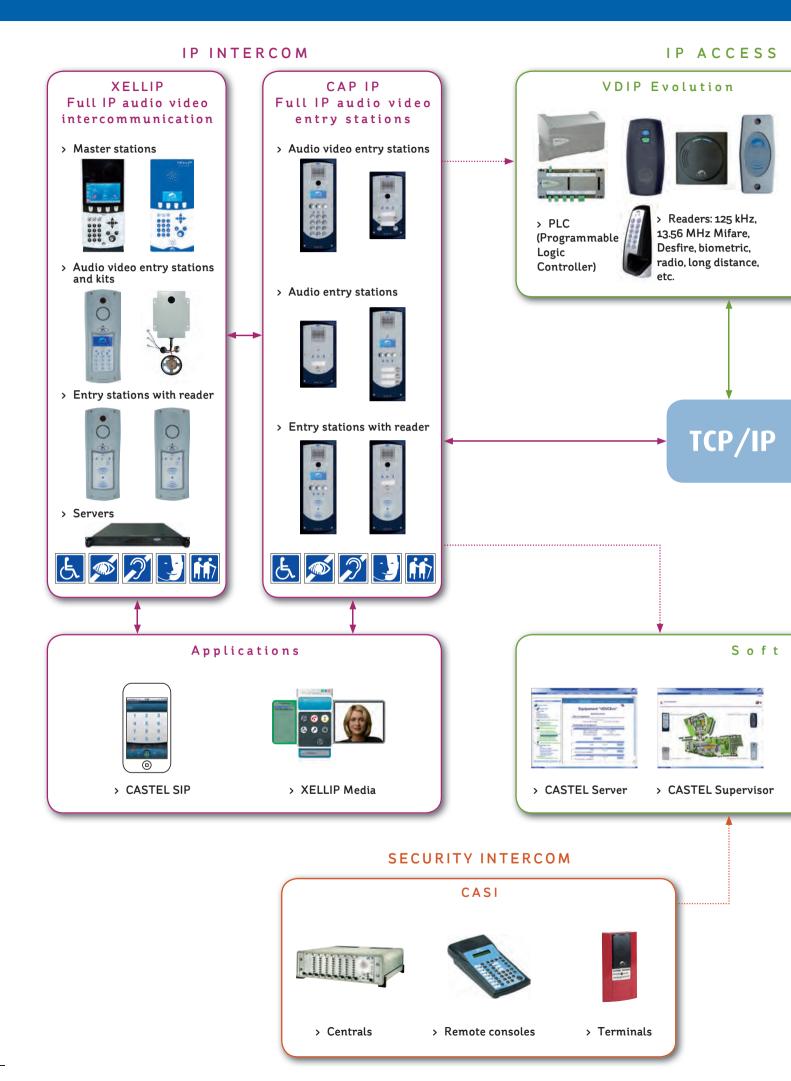




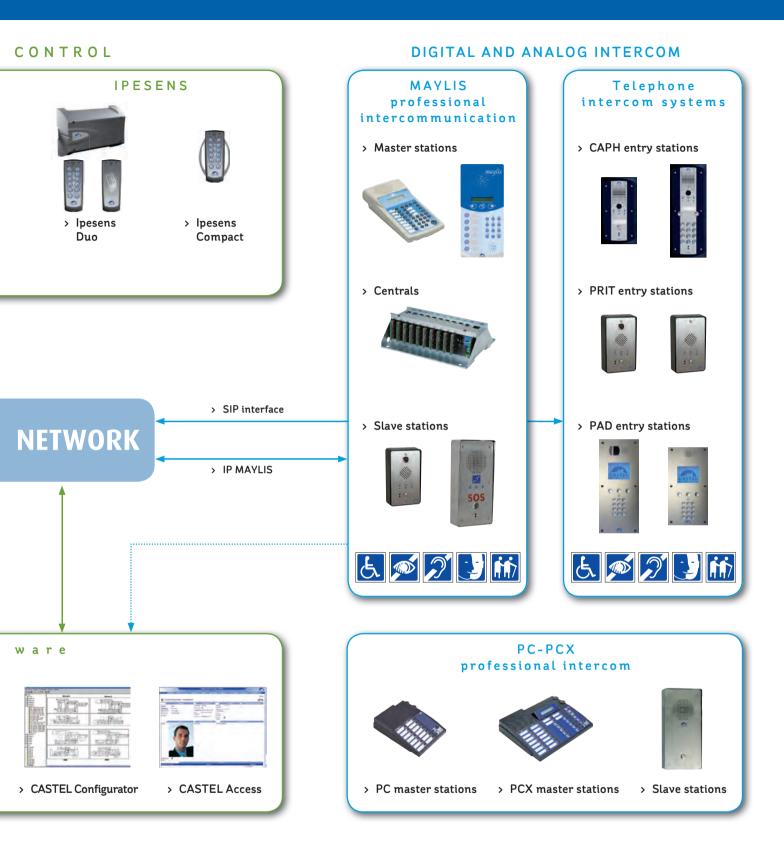




# RANGES CONVERGENCES



# AN ANSWER FOR EVERY NEED





# DISABLED PEOPLE ACCESSIBILITY

CASTEL developed solutions allowing to comply with disabled people accessibility regulations in "establishments servicing the public" (French law), which must be able to welcome, inform and ensure the safety of people with disabilities.

# WHO IS CONCERNED? APPLICATION DATE

#### New "establishments servicing the public"

- The regulation is effective since January 1st, 2007:
  - For "establishments servicing the public" new constructions.
  - For "establishments servicing the public" creations by change of use, with or without works.
- "Establishments servicing the public" must be accessible to disabled people, whatever their disability. Accessibility obligation concerns outside and inside parts of buildings and installations; and also concerns circulation areas, a part of car park, elevators, premises and their equipments.

#### Existing "establishments servicing the public"

- Existing "establishments servicing the public" of categories 1 to 4 (with a building permit dated before the January 1<sup>st</sup>, 2007) should be accessible on January 1<sup>st</sup>, 2015.
- For existing "establishments servicing the public" of category 5, all services must be provided in a part of the building which is accessible for disabled people, before January 1<sup>st</sup>, 2015.

# LAW OBLIGATION (French law) CASTEL ANSWER

Any device to allow or limit access to the building or to alert personnel must be identified, reached and used by disabled people. The use of the device should be as simple as possible.

- If there is an access control system, it must enable deaf, hard of hearing or dumb people to notify their presence and to be informed of their call consideration by building personnel. Particularly in the absence of accesses direct vision by personnel, intercom devices are equipped with a system allowing viewing visitors.
- Intercom entry stations are available in colour video camera version, allowing to visualise disabled people who wish to access the building.
- Any signal related to the access system operation must be audible and visual.
- Intercom entry stations have pictograms viewed with coloured LEDs and/or directly on graphic screen (depending version) to indicate the call, the communication and the door opening.
- These three steps are accompanied by audible messages.
- When there is an electric locking device, it must allow disabled people to reach the door and start the opening operation until the door relocking.
- The door release relay of the entry stations is configurable with a holding time adjustable.

#### CASTEL goes further:

- An induction loop is directly integrated into the CAP IP and CAPH intercom stations (possibility to have a remote induction loop for XELLIP, PRIT and Maylis intercom stations), optimizing communication with people equipped with hearing aids.
- CAP IP, CAPH and PAD intercom stations equipped with numerical keypad, have buttons with Braille.

#### **INSTALLATION RULES**

- Communication systems between public and building personnel, as well as hand-operated devices must meet the following requirements:
- be located more than 0.40 m from a wall re-entrant angle or from any other obstacle to a wheelchair approach;
- be located at a height between 0.90 m and 1.30 m.
- Doors opening systems must be used by both someone sitting in a wheelchair and by someone standing.

#### Regulations (French law):

# 













#### Find all CASTEL "disability regulations" compliant intercom stations











@ @ @

000

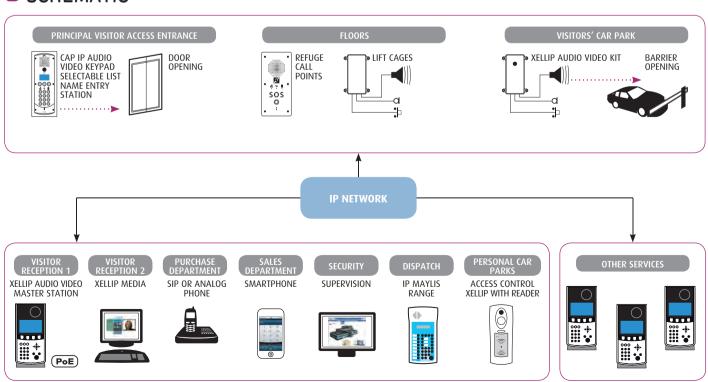
# A GLOBAL FULL IP / SIP ACCESS INTERCOM AND AUDIO VIDEO INTERCOMMUNICATION SOLUTION

These solutions benefit from CASTEL's latest developments in IP professional intercom, the result of its constant innovation.



- IP audio video access intercom compliant with disability regulations
- Audio video intercommunication (various IP communications networks)
- Remote control release
- Audio conferencing, group calls, general calls
- Call overflow, call forwarding, call transfer, voice messaging, answerphone, automatic hang-up, privacy mode, do not disturb, call waiting, priority call, presence detection functions, etc. are available
- Time programming by profile (call and directory)
- Audio video backup
- PoE power supply
- Optional: WiFi







#### MAIN BENEFITS

## A native IP system for direct connection over IP

A single network cable for managing audio, video, data and station power supply (PoE).

User-friendly software for incoming calls.

#### Acoustic and visual quality

with Full Duplex audio communications including noise and echo cancelling system and colour digital video camera.

#### SIP technology and interoperability

The use of SIP protocol (RFC3261 standard) and the most common audio and video codec (G711, G722, GSM, H263, H263+, H264) ensure our openness to other systems: IP telephone systems, mobility, supervision, video surveillance, etc.

#### Total intercommunication

between the different stations over an IP network using the SIP protocol (via a direct SIP link - Stand Alone - or through an SIP Castel server or an IPBX).

#### A wide range adapted to different environments

Office station with colour video touch screen, selectable list name audio-video entry station, vandal-proof entry station, washable station with easy clean surface, audio-video integration kit, entry stations with access control reader, etc.

#### Easy and user-friendly web interface

for remote configuration of the stations and the servers.

#### Multi-support call reception

on audio or audio video master stations, on smartphones and tablets with Castel SIP application, on computers with audio video reception software, on SIP phones, on GSM, DECT, analog phones.

#### A solution compliant with disability regulations

with stations and kits fitted with colour video cameras, three pictograms viewed with coloured LEDs (and / or directly on graphic screen), and audible messages. CASTEL goes further with CAP IP range: an induction loop is directly integrated into the intercom stations (possibility to have a remote induction loop for XELLIP range stations) and keypads have buttons with Braille.

















Supervision software: communications, access control, technical alarms, etc.



Large built-in colour video touch screen on the master station



Castel SIP application for smartphones and tablets



# MAIN APPLICATIONS

Tertiary industry and industrial buildings sites, hospital centres, car parks, motorway toll booths, harbour zones, HGV access points for logistics sites, office access, day/night calls (hotel chains, chemists, emergency services, etc.), information terminals (pedestrian zones/ vehicle access), retirement homes, laboratories, etc., and numerous other customised applications.







# FULL IP AUDIO VIDEO INTERCOMMUNICATION XELLIP



## MASTER STATIONS



#### **XE DESK-SCREEN V-P**

Audio video Full IP/SIP master station REF 500.2600

- 4.3 inch TFT touch screen
- Built-in colour video camera
- Numerical keypad and functions keys
- 4 programmable function keys
- ABS case, wall-mounted or desktop base (zamac)
- IP40 rating
- PoE power supply (or optional external power supply: see p24)
  H 255 mm x W 127 mm x D 47 mm (with desktop base H 255 mm x W 127 mm x D 155 mm)

XE DESK-SCREEN V-W Wi Fi version REF 500.1600



XE DESK-GRAPH-P Audio Full IP/SIP master station REF 500.2000

- Graphic display 128x64 backlighting
- Numerical keypad and functions keys
- 4 programmable function keys
- ABS case, wall-mounted or desktop base (zamac)
- IP40 rating
- PoE power supply (or optional external power supply: see p24)
- H 255 mm x W 127 mm x D 47 mm (with desktop base H 255 mm x W 127 mm x D 155 mm)

#### XE DESK-GRAPH-W Wi Fi version REF 500.1000



#### **XE MED-P**

Audio Full IP/SIP master station waterproof with washable surface REF 540.4000

- Graphic display 128x64 backlighting
- Numerical keypad and functions keys
- 4 programmable function keys
- Polyester washable surface
- IP64 rating
- PoE power supply (or optional external power supply: see p24)
  H 280 mm x W 130 mm x D 4 mm (flush-mounted with flush box D 47 mm)
  H 282,5 mm x W 132,5 mm x D 65 mm (surface-mounted with optional XEKMED surface box; see p24) surface box: see p24)

**XE MED-W** Wi Fi version REF 540.4100

## 🔁 AUDIO VIDEO ENTRY STATIONS



#### XE D-V1B-P

Audio video Full IP/SIP entry station with 1 call button REF **520.2500** 

- Vandal proof conception
- Built-in colour video camera
- Zamac front panel
- 1 call button
- IP65 rating

PoE power supply (or optional external power supply: see p24)

 H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE D-V1B-W Wi Fi version REF **520.1500** 



#### XE D-V3B-P

Audio video Full IP/SIP entry station with 3 call buttons REF 510.2600

- Vandal proof conception
- Built-in colour video camera
- Zamac front panel
- 3 call buttons and labels
- 3 leds for disability regulations
- IP65 rating
- PoE power supply (or optional external power
- H 282 mm x W 110 mm x D 21 mm
   (flush-mounted with flush box D 47 mm)
   H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE D-V3B-W Wi Fi version REF 510.1600



#### **XE SEL-V3B-P**

Audio video Full IP/SIP entry station with selectable list name and 3 call buttons REF **510.2700** 

- Vandal proof conception
- Built-in colour video camera
- Zamac front panel
- . 3 call buttons and labels
- 3 leds for disability regulations
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- IP 65 rating

PoE power supply (or optional external power supply: see p24)

 H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE SEL-V3B-W Wi Fi version REF 510.1700

IP	SIP protocol (RFC 3261)	PoE (IEEE 802.3af)	Full Duplex	Audio codec: G711 Ulaw/Alaw, GSM, G722	Ethernet connection security with 802.1X protocol	Stations compliant with disability regulations
Wiring: RJ45	DTMF: RFC 2833 SIP INFO	WiFi (IEEE 802.11b/g)	DSP technology	Video codec: format CIF/QCIF, H263, H263+, H264	SNMP V1 and V2c Static IP or DHCP	Stations with integrated web interface

## **DAUDIO ENTRY STATIONS**



**XE CLAV-V-P**Audio video Full IP/SIP entry station with selectable list name and keypad REF 510.2900

- Vandal proof conception
- Built-in colour video camera
- Zamac front panel
- Numerical keypad for direct dial or access code
- 3 leds for disability regulations
- 3 keys for selectable list nameGraphic display 128x64 backlighting
- IP65 rating
- PoE power supply (or optional external power supply: see p24)
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

**XE CLAV-V-W** Wi Fi version REF 510.1900



#### XE D-1B-P

Audio Full IP/SIP entry station with 1 call button REF **520.2000** 

- Vandal proof conception
- Zamac front panel
- 1 call button
- IP65 rating
- PoE power supply (or optional external power supply: see p24)
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE D-1B-W Wi Fi version REF **520.1000** 



**XE D-3B-P**Audio Full IP/SIP entry station with 3 call buttons REF 510.2100

- Vandal proof conception
- Zamac front panel
- 3 call buttons and labels
- 3 leds for disability regulations
- IP65 rating
- PoE power supply (or optional external power supply: see p24)
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE D-3B-W Wi Fi version REF 510.1100



#### XE SEL-3B-P

Audio Full IP/SIP entry station with selectable list name and 3 call buttons REF **510.2200** 

- Vandal proof conception
- Zamac front panel
- 3 call buttons and labels
- 3 leds for disability regulations
- 3 keys for selectable list name
- · Graphic display 128x64 backlighting
- IP65 rating
- PoE power supply (or optional external power
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

XE SEL-3B-W Wi Fi version REF **510.1200** 



**XE CLAV-P**Audio Full IP/SIP entry stations with selectable list name and keypad REF 510.2500

- Vandal proof conception
- Zamac front panel
- Numerical keypad for direct dial or access
- 3 leds for disability regulations
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- IP65 rating
- PoE power supply (or optional external power supply: see p24)
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

**XE CLAV-W** Wi Fi version REF 510.1500



#### XE P-1B-P

Audio Full IP/SIP entry station with 1 call button

#### REF 530.2000

- Vandal proof conception
- Stainless steel front panel
- 1 call button
- IP54 IK09 rating
- PoE power supply (or optional external power supply: see p24)
- H 176,5 x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)

XE P-1B-W Wi Fi version REF **530.1000** 



# ENTRY STATIONS WITH **ACCESS CONTROL READER**



XE D-V1B-PROX/C Audio video Full IP/SIP entry station with 1 call button and proximity reader 125 kHz REF 510 3500

- Vandal proof conception
- Reader 125 kHz and 2 leds (green: authorised access, red: refused access)
- Built-in colour video camera
- Zamac front panel
- 1 call button and 3 leds for disability regulations
- ĪP65 rating
- PoE power supply

(or optional external power supply: see p24)

• H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

#### XE D-V1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 510.3600

#### XE D-V1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 510.3700

#### XF D-V1B-DFS

Version with reader 13.56 MHz Mifare® REF 510.3800

XE D-1B-PROX/C Audio Full IP/SIP entry station with 1 call button and proximity reader 125 kHz REF 510 3000

- Vandal proof conception
- Reader 125 kHz and 2 leds (green: authorised access, red: refused access)
- Zamac front panel
- 1 call button and 3 leds for disability regulations
- IP65 rating
- PoE power supply (or optional external power supply: see p24)
- H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

#### XE D-1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 510.3100

#### XE D-1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 510.3200

#### XE D-1B-DES

Version with reader 13.56 MHz Mifare® Desfire® REF 510.3300

**KITS** 



#### XE K-V1B-P

Audio video Full IP/SIP intercom kit REF 540.5700

- Kit with board integrated in a steel case
- · Built-in colour video camera
- Remote microphone, loudspeaker and call button
- 3 leds for disability regulations
- IP40 rating
- PoE power supply (or optional external power supply: see p24)
- H 137 mm x W 105 mm x D 44 mm

XE K-V1B-W Wi Fi Version REF 540.5600



#### XE K-1B-P

Audio Full IP/SIP intercom kit REF **540.5200** 

- Kit with board integrated in a steel case
- Remote microphone, loudspeaker and call
- IP40 rating
- PoE power supply

(or optional external power supply: see p24)

• H 137 mm x W 105 mm x D 33 mm

XF K-1B-W Wi Fi Version REF 540.5100

# INTERCOM SYSTEMS FOR CALL POINTS (TRANSPORTATION, CAR PARK ...) / REFUGE CALL POINTS



#### **XE P-2B-HELP**

Audio Full IP/SIP entry station with 2 call buttons and induction loop REF 101.276

- Vandal proof conception
- Stainless steel front panel
- 2 call buttons with Braille inscription
- 2 leds for disability regulations
- Integrated induction loop
- IP65 IK07 rating
- PoE power supply

(or optional external power supply: see p24)

• H 400 x W 130 mm x D 2 mm

(flush mounted)



#### **XE P-1B-HELP**

Audio Full IP/SIP entry station with 1 call button and induction loop **REF 101.277** 

- Vandal proof conception
- Stainless steel front panel
- 1 call button illuminated
- SOS inscription
- 3 leds for disability regulations
- Integrated induction loop
- IP66 rating
- PoE power supply (or optional external power supply: see p24)
- H 280 mm x W 130 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282,5 mm x W 132,5 mm x D 65 mm (surface-mounted with surface box)

CASTEL has many intercom stations references for call points and can also make specific developments in order to fit your needs as closely as possible.

## INTERCOM SYSTEMS FOR PRISONS



XE P-1B-CELL1 Audio Full IP/SIP intercom stations - cell /corridor

REF 101.270

- Composed by one cell station and one corridor station
- Vandal proof conception, stainless steel front panel
- 1 call button with signalisation led, 2 light buttons (cell and shower) on the cell station
- 1 acknowledgement button and 1 light button (night-light) on the corridor station
- IK09 rating
- PoE power supply (or optional external power supply: see p24)
- H 220 mm x W 120 mm x D 2 mm (flush mounted - flush mounting D: cell station 45 mm - corridor station 60 mm)



XE P-1B-CELL2 Audio Full IP/SIP intercom stations - cell /corridor

REF 101.271

- Composed by one cell station and one corridor station
- Vandal proof conception, stainless steel front panel
- 1 call button with signalisation led, 1 light button on the cell station
- 1 acknowledgement button and 1 light button on the corridor station
- IK09 rating
- PoE power supply (or optional external power supply: see p24)
- H 210 mm x W 110 mm x D 2 mm (flush mounted - flush mounting D: cell station 70 mm - corridor station 35 mm)



XE P-1B-CELL3
Audio Full IP/SIP intercom stations - cell /corridor

REF 101.272 AND 101.273

- Composed by one cell station and one corridor station
- Vandal proof conception, stainless steel front panel
- 1 call button with signalisation led on the cell station 1 acknowledgement lock and 1 light button
- (night-light) on the corridor station
- IK09 rating
- PoE power supply (or optional external power supply: see p24)
- H 190 mm x W 70 mm x D 2 mm (flushed mounted - flush mounting D: cell station 128 mm - corridor station 40 mm)



#### XE K-1B-CELL

Audio Full IP/SIP intercom kit - cell / corridor

REF 101.274

- Kit with board on steel plate
- 1 call button with signalisation led, 1 acknowledgement remote button on the corridor side
- Light buttons holes (cell and corridor sides)
- PoE power supply (or optional external power supply: see p24)
- H 200 mm x W 96 mm x D 56 mm



XE P-1B LIAISON
Audio Full IP/SIP intercom system for access intercom (corridor grids) REF 101.275

- Vandal proof conception, stainless steel front panel
- 1 call button with signalisation led
- IP54 IK09 rating
- PoE power supply

(or optional external power supply: see p24)

• H 176,5 x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)

CASTEL developed around fifty intercom stations and door frame intercom kits, to answer all the prisons needs (cell, security and access intercom, counter intercom, visiting rooms intercom, etc.).





#### **XELLIP SERVEUR MAX** Multifunction intercom server

REF 540.0100

- Allows to manage up to 1000 SIP extensions
- Advanced functions (call groups, call zones, paging groups, conference, etc.)
- Audio and video backup
- SIP Trunk (interconnection of 2 SIP systems)
- Castel technical support contract available for 2 years to the final client (free the first year - material warranty - and service fee the second year)
- H 43 mm x W 426 mm x D 356 mm (rackable 1U black metallic case)



#### **XELLIP ROUTEUR**

20 stations router server REF 540.0000

- Allows to manage up to 20 SIP stations (configuration, visualisation)
- Management of audio et video calls
- Advanced functions (call groups, call zones, paging groups, overflowing)
- SIP Trunk (interconnection of 2 SIP systems)
- PoE power supply (or optional external power supply: see p24)
- H 137 mm x W 105 mm x D 33 mm



# SOFTWARE AND INTERFACES

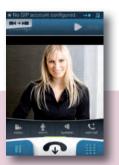


**XELLIP MEDIA**SIP audio video reception interface REF **540.1000** 

- This Softphone transforms your PC into a complete SIP station
- Audio video communication with XELLIP or CAP IP range stations, or any other intercom
- system supporting the SIP protocol

   Recording on a SIP server or working in Stand-Alone
- · Advanced functions (call transfer, call forwarding, automatic hang-up, management of a SIP contact directory, possibility to manage a webcam, remote control release)







**CASTEL SIP APPLICATION**SIP intercom Softphone for smartphones and tablets (iPhone®, iPad® and Android®)

- Enables to give and receive audio and video calls on your smartphone or tablet from XELLIP or CAP IP stations
- Working in Stand-Alone or with any SIP server over Wi-Fi and 3G
- Advanced functions (multi-calls, audio conferencing, management of a SIP contact directory, remote control release linked to an entry station with your smartphone or tablet, etc.)



#### **CASTEL SUPERVISOR**

Supervision software REF 110.8300

- · Visualise and archive events as communication, incoming /outgoing call, call waiting, relay state, forwarding state
- Visualisation towards synoptic and/or continuous feed
- Call forwarding regarding time slots
- Compatibility with Windows XP, 7, Server 2003, Server 2008
- Compatibility with Oracle et SQL Server database
- Multiuser software (no station licence) on a fully secured internet connection



**XELLIP TRANSFER**IP interface to analog telephone REF **540.2000** 

#### **CASTEL VIDEO TOOLS**

Software, converters and development kit for distribution of H264 video towards compatibles applications RTSP/RTP, video surveillance REF 540.1500

## INDUCTION LOOP



INDUCTION LOOP
Remote induction loop (integrated in ABS case and stainless steel front panel).
Power supply 24V (see below)
REF 540.3100

## ACCESSOIRIES AND POWER SUPPLIES



**XEKMED** Surface mounted kit for XE MED station REF 540.4400



A24V-0A7-F Power supply 24VDC 1A wire plug REF **110.9000** 



A24V-0A7-J Power supply 24VDC 1A Jack plug REF **540.6000** 



A24V-2A Cutting power supply on din track 24VDC 2A REF 110.9100



**A24V-3A-S** 24VDC 3A saved power supply - battery 2.1 Ah REF **440.4900-1** 



#### AUDIO VIDEO ENTRY STATIONS



#### CAP IP-V1B-P

Audio video Full IP/SIP entry station with 1 call button compliant with disability regulations REF 560.2000

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 1 call button and label
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
  H 250 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm)
  H 250 mm x W 135 mm x D 54,5 mm (surface mounted)

CAP IP-V1B-W Wi Fi version RFF 560.3000



Audio video Full IP/SIP entry station with 2 call buttons compliant with disability regulations REF **560.2100** 

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 2 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
- H 250 mm x W 135 mm x D 14,5 mm (flushmounted with flush box D 40 mm) - H 250 mm x W 135 mm x D 54,5 mm (surface mounted)

CAP IP-V2B-W Wi Fi version REF 560.3100



#### CAP IP-V4B-P

Audio video Full IP/SIP entry station with 4 call buttons compliant with disability regulations

#### REF 560.2300

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 4 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
- H 250 mm x W 135 mm x D 14,5 mm (flushmounted with flush box D 40 mm) - H 250 mm x W 135 mm x D 54,5 mm (surface mounted)

CAP IP-V4B-W Wi Fi version REF 560.3300

#### **CAP IP-V6B-P**

Audio video Full IP/SIP entry station with 6 call buttons compliant with disability regulations **REF 560.2400** 

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- . 6 call buttons and labels
- . 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flushmounted with flush box D 40 mm) - H 350 mm x W 135 mm x D 54,5 mm (surface mounted)

CAP IP-V6B-W Wi Fi version

REF 560.3400



#### CAP IP-V3B-P

Audio video Full IP/SIP entry station with 3 call buttons compliant with disability regulations

#### REF **560.2200**

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 3 call buttons and labels
- . 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external
- H 250 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 34,5 mm (surface mounted)

CAP IP-V3B-W Wi Fi version REF 560.3200



**CAP IP-V10B-P**Audio video Full IP/SIP entry station with 10 call buttons compliant with disability

#### **REF 560.2500**

- . Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 10 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
   H 350 mm x W 135 mm x D 14,5 mm (flush-
- mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface mounted)

CAP IP-V10B-W Wi Fi version REF 560.3500

IP	SIP protocol (RFC 3261)	PoE (IEEE 802.3af)	Full Duplex	Audio Codec: G711 Ulaw/Alaw, GSM, G722	Ethernet connection security with 802.1X protocol	Stations compliant with disability regulations
Wiring: RJ45	DTMF: RFC 2833 SIP INFO	Wifi (IEEE 802.11b/g)	DSP technology	Video Codec: format CIF/QCIF, H263, H263+, H264	SNMP V1 and V2c Static IP or DHCP	Stations with integrated web interface







PAD IP VIDEO-1B-P Audio video Full IP/SIP entry station with selectable list name and 1 call button compliant with disability regulations REF 560.5000

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 1 call button and label
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
  H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm)
  H 350 mm x W 135 mm x D 54,5 mm (surface mounted with surface hox) (surface-mounted with surface box)

PAD IP VIDEO-1B-W Wi Fi version REF 560.5500



PAD IP VIDEO-3B-P Audio video Full IP/SIP entry station with selectable list name and 3 call buttons compliant with disability regulations REF 560.5100

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 3 call buttons and labels
- . 3 keys for selectable list name
- . Graphic display 128x64 backlighting
- . 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

PAD IP VIDEO-3B-W Wi Fi version REF **560.5600** 



PAD IP VIDEO-CLAV-P Audio video Full IP/SIP entry station with selectable list name and keypad compliant with disability regulations REF 560.5200

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- Numerical keypad for direct dial and access code, buttons with Braille
- . 3 keys for selectable list name
- Graphic display 128x64 backlighting
- 3 leds for disability regulations (or visualisation on graphic screen)
  Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
  H 350 mm x W 135 mm x D 14,5 mm
- (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

PAD IP VIDEO-CLAV-W Wi Fi version REF 560.5700

# AUDIO ENTRY STATIONS



#### CAP IP-1B-P

Audio Full IP/SIP entry station with 1 call button compliant with disability regulations REF 560.0000

- . Stainless steel 316 L vandal proof front panel
- 1 call button and label
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- . PoE power supply (or optional external
- or to power supply: see p29)

  H 250 mm x W 135 mm x D 14,5 mm
  (flush-mounted with flush box D 40 mm)
  H 250 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-1B-W Wi Fi version REF 560.1000



#### CAP IP-2B-P

Audio Full IP/SIP entry station with 2 call buttons compliant with disability regulations REF **560.0100** 

- Stainless steel 316 L vandal proof front panel
- 2 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power
- supply: see p29) H 250 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-2B-W Wi Fi version REF 560.1100



#### CAP IP-3B-P

Audio Full IP/SIP entry station with 3 call buttons compliant with disability regulations

- Stainless steel 316 L vandal proof front panel
- 3 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
- H 250 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-3B-W Wi Fi version REF **560.1200** 





#### CAP IP-4B-P

Audio Full IP/SIP entry station with 4 call buttons compliant with disability regulations REF **560.0300** 

- Stainless steel 316 L vandal proof front panel
- 4 call buttons and labels
- 3 leds for disability regulations
   Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
   H 250 mm x W 135 mm x D 14,5 mm
- (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-4B-W Wi Fi version REF 560.1300



#### CAP IP-6B-P

Audio Full IP/SIP entry station with 6 call buttons compliant with disability regulations REF **560.0400** 

- Stainless steel 316 L vandal proof front panel
- 6 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-6B-W Wi Fi version REF 560.1400



CAP IP-10B-P Audio Full IP/SIP entry station with 10 call buttons compliant with disability regulations REF **560.0500** 

- Stainless steel 316 L vandal proof front panel
- 10 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- PoE power supply (or optional external power supply: see p29)
  H 350 mm x W 135 mm x D 14,5 mm
- (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

CAP IP-10B-W Wi Fi version REF 560.1500



PAD IP AUDIO-1B-P Audio Full IP/SIP entry station with selectable list name and 1 call button compliant with disability regulations REF 560.4000

- Stainless steel 316 L vandal proof front panel
- 1 call button and label
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
  H 350 mm x W 135 mm x D 14,5 mm
- (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

PAD IP AUDIO-1B-W Wi Fi version REF 560.4500



PAD IP AUDIO-3B-P Audio Full IP/SIP entry station with selectable list name and 3 call buttons compliant with disability regulations REF 560 4100

- Stainless steel 316 L vandal proof front panel
- 3 call buttons and labels
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- . 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

PAD IP AUDIO-3B-W Wi Fi version REF 560.4600



PAD IP AUDIO-CLAV-P Audio Full IP/SIP entry station with selectable list name and keypad compliant with disability regulations REF 560 4200

- Stainless steel 316 L vandal proof front panel
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
   3 leds for disability regulations
  (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

PAD IP AUDIO-CLAV-W Wi Fi version REF 560.4700



# ENTRY STATIONS WITH ACCESS CONTROL READER



CAP IP-V1B-PROX/C
Audio video Full IP/SIP entry station with 1 call button compliant with disability regulations with reader proximity 125 kHz REF 560.6500

- Stainless steel 316 L vandal proof front panel
- Reader 125 kHz and 2 leds (green:
- authorised access, red: refused access)
- Built-in colour video camera
- 1 call button and label
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
  H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm)
  H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

#### CAP IP-V1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 560.6600

#### CAP IP-V1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 560.6700

#### CAP IP-V1B-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF 560.6800



#### CAP IP-1B-PROXIC

Audio Full IP/SIP entry station with 1 call button compliant with disability regula-tions with reader proximity 125 kHz

- Stainless steel 316 L vandal proof front panel
- Reader 125 kHz and 2 leds (green:
- authorised access, red: refused access)
- 1 call button and label
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box)

#### CAP IP-1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 560.6100

#### CAP IP-1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 560.6200

#### CAP IP-1B-DES

Version with reader 13.56 MHz Mifare® Desfire® REF **560.6300** 



PAD IP VIDEO-PROXIC
Audio video Full IP/SIP entry station
with selectable list name compliant with
disability regulations and proximity
reader 125 kHz REF **560.7500** 

- Stainless steel 316 L vandal proof front panel
- Reader 125 kHz and 2 leds (green: authorised access, red: refused access)
- . Built-in colour video camera
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- . 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
   H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm)
  H 350 mm x W 135 mm x D 54,5 mm
  (or fore power flush) (surface-mounted with surface box)

#### PAD IP VIDEO-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 560.7600

#### PAD IP VIDEO-MIS/C

Version with reader 13.56 MHz Mifare®

REF 560.7700

#### PAD IP VIDEO-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF **560.7800** 



 $\begin{tabular}{ll} PAD IP AUDIO-PROX/C \\ Audio Full IP/SIP entry station with selectable list name compliant with disability regulations and proximity reader 125 kHz \\ \end{tabular}$ REF 560.7000

- Stainless steel 316 L vandal proof front panel
- Reader 125 kHz and 2 leds (green: authorised access, red: refused access)
- 3 keys for selectable list name
- Graphic display 128x64 backlighting
- 3 leds for disability regulations (or visualisation on graphic screen)
- Integrated induction loop
- IP64 IK07 rating
- PoE power supply (or optional external power supply: see p29)
   H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted with surface box

#### PAD IP AUDIO-MI/C

Version with reader 13.56 MHz Mifare® sector REF **560.7100** 

#### PAD IP AUDIO-MIS/C

Version with reader 13.56 MHz Mifare® sector REF 560.7200

#### PAD IP AUDIO-DES

Version with reader 13.56 MHz Mifare® Desfire® REF 560.7300

## **SOFTWARE AND INTERFACES**







#### **CASTEL SUPERVISOR**

Supervision software REF 110.8300

- Visualise and archive events as communication, incoming /outgoing call, call waiting, relay state, forwarding state
- Visualisation towards synoptic and/or continuous feed
- Call forwarding regarding time slots
- Compatibility with Windows XP, 7, Server 2003, Server 2008
- Compatibility with Oracle et SQL Server database
- Multiuser software (no station licence) on a fully secured internet connection







CASTEL SIP APPLICATION
SIP intercom Softphone for smartphones and tablets (iPhone®, iPad® and Android®)
REF 510.3000

- Enables to give and receive audio and video calls on your smartphone or tablet from XELLIP or CAP IP stations
- Working in Stand-Alone or with any SIP server over Wi-Fi and 3G
- Advanced functions (multi-calls, audio conferencing, management of a SIP contact directory, remote control release linked to an entry station with your smartphone or tablet, etc.)

CAP IP entry stations are compatibles with all XELLIP range entry stations (audio and audio video master stations, XELLIP Media ...).

# **POWER SUPPLIES**



**A24V-0A7-F**Power supply 24VDC 1A wire plug
REF 110.9000



A24V-2A Cutting power supply on din track 24VDC 2A REF 110.9100



**A24V-3A-S** 24VDC 3A saved Power supply battery 2.1 Ah REF 440.4900-1



# DIGITAL AND ANALOG INTERCOM

# maylis

# INTERCOMMUNICATION FLEXIBILITY COMBINED WITH MULTI-NETWORK STRENGTH

Maylis is a complete bus/star network connection intercommunication system which uses the latest digital techniques that are the result of CASTEL's 40 years' experience to respond to the most diverse requirements.

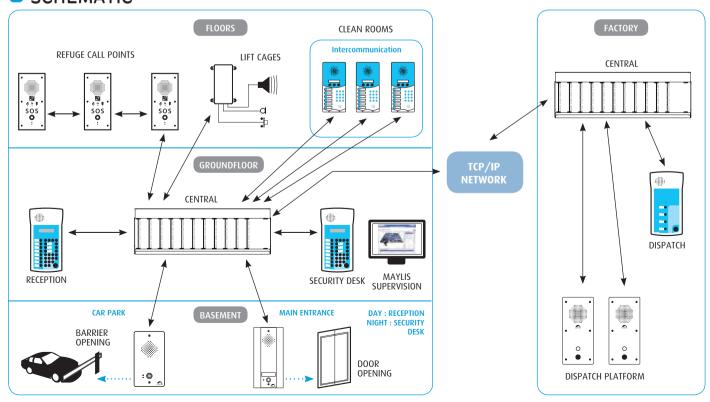


- Complete intercommunication between stations using simplex, half-duplex and full duplex formats
- Programmed touch or keypad calling
- Call multi-functions: group calls, general calls, call privacy, priority management, call waiting, forwarding, automatic redial, busy over-ride, «do not disturb», «follow me», conferencing, transfers, etc.
- Local or remote control (barriers, release, etc.)
- Level adjustment (phone and ring tone)
- Line monitoring
- PC application diagrams and configuration
- Centrals network connection
- Selectable list name index with alphanumerical display and direct dialling
- IP Maylis: remote site IP interfacing, SIP telephone network connection,

VDIP Evolution range and XELLIP, CAP IP entry stations compatible

• Optional: telephone forwarding, messaging service, sound diffusion (music, alarms, etc.), ambient noise detection, etc.

# SCHEMATIC



# Floring Total School Conference C

Configuration software



CASTEL Supervisor

#### MAIN BENEFITS

# CASTEL's bus-star authorised network connections, expertise and intercom strong points

Strength communication, flexible, easy to install, use and update, large range of peripherals (office stations, entry stations, industrial stations, water proof, easy to clean, disability regulations compliant stations, etc.).

#### Digital technology

#### System resources

Total intercommunication (more than 1,000 stations), 20 simultaneous communication networks, remote station supply.

#### Tailor made maintenance

A rack with standard cards, detection and line fault signalling, programming and installation monitoring on a computer.

#### Multi-network

Coupling, optical links, IP centrals interfacing with video multiplexer, people seeking, options for creating communication sub-networks with priority call management.

#### Intra-departmental communication security

#### System opening

With its multi-protocol IP/SIP management, Maylis can interface with SIP telephones, as well as with stations in the XELLIP, CAP IP and VDIP Evolution ranges.

#### Software and configuration

This is developed entirely around Microsoft's latest technologies. Works with Windows 98/Me/2000/XP/Vista/Seven.

- > Software functionality:
  - configured to various network units (central, card, station, etc.)
  - station configuration
  - station testing
  - impact of station and network connection configuration
  - history functions
  - station emulation
  - network connection backup
  - shared access network connection

#### IPISIP interface

- > Audio compression for a band width of between 70 to 180 Kbits
- > Web browsers used: Internet Explorer, Firefox, Chrome, etc.
- > Roaming stainless steel box with Ethernet compatible LED connection, an audio network, a RS 485 connection to Maylis intercom units
- > Remote downloading for updating software
- > Secure IP links (HTTPS)
- > Wall mounted or on DIN track
- > IP interface runs on DHCP or fixed IP

# MAIN APPLICATIONS

Access, security and service intercom (intercommunication): tertiary industry and industrial sites, hospital centres, retirement homes, laboratories, industrial kitchens, high-rise buildings, public buildings, car parks, motorway toll booths, ports, theatres, lifts, fold-away city terminals, military sites, prisons, etc., and numerous other customised applications.



# **DIGITAL AND ANALOG INTERCOM**



# PROFESSIONAL INTERCOMMUNICATION maylis

## MASTER STATIONS



MP Maylis master station REF 440.2000-1

- Desktop or wall mount station
- LCD display (2 lines x 16 characters)
   Numeric keypad and functions keys
- 11 keys and 1 programmable relay
- ABS case
- IP40 rating
- 15V to 30V power supply

(through central or external: see p39)

• H 265 mm x W 138 mm x D 70 mm



MPP
Maylis master station build-in version

- Flush or surface mounted
- LCD display (2 lines x 16 characters)
   Numeric keypad and functions keys
- 11 keys and 1 programmable relay
- Anodized aluminium front panel
- IP40 rating

  15V to 30V power supply

(through central or external: see p39)

• H 280 mm x W 170 mm x D 2 mm
(flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted with optional MKSP surface box: see p38)



MPE
Maylis master station waterproof version REF 440.2200-1

- Flush or surface mounted
- LCD display (2 lines x 16 characters)
   Numeric keypad and functions keys
- 11 keys and 1 programmable relay
   Stainless steel polished front panel

- IP66 rating 15V to 30V power supply
- (through central or external: see p39)

  H 280 mm x W 170 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted with surface box)



Waterproof Disinfectant-resistant Maylis master station REF 440.2300-1

- Flush or surface mounted
- LCD display (2 lines x 16 characters)
- Numeric keypad and functions keys
- 6 keys and 1 programmable relay
   Disinfectant-resistant polyester front panel
- IP64 rating15V to 30V power supply (through central or

external: see p39) H 280 mm x W 130 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 132.5 mm x D 65 mm (surface-mounted with optional MKMED surface box: see p38)



MAI
Waterproof scrolling name Maylis station REF 440.2700

- Flush or surface mounted
- LCD display (2 lines x 16 characters)
- Numeric keyboard
- 1 programmable relay
- Stainless steel polished front panel
- IP64 rating
- 15V to 30V power supply

(through central or external: see p39) • H 280 mm x W 130 mm x D 2 mm

(flush-mounted with flush box D 48 mm) H 282.5 mm x W 132.5 mm x D 60 mm (surface-mounted with surface box)

Digital	Bus and/or star wiring	Intern or distant remote control (bar- rier, door release)		IP interface (IP Maylis)	XELLIP, CAP IP, VDIP Evolution compatible	Stations compliant with disability regulations
Wiring: 3 pairs 9/10	Full intercommunication between all stations	Lines monitoring	DSP technology	SIP compatible	Configuration software	Supervision software

## **SLAVE STATIONS**



MSB4 4 keys Maylis slave station REF 440.2400-1

- Desktop or wall mount station
- Numeric keypad and functions keys
   4 programmable keys
- 1 programmable relayABS case

- IP40 rating

  15V to 30V power supply

(through central or external: see p39)

• H 265 mm x W 138 mm x D 70 mm



MSP4 4 keys Maylis build-in slave station REF 440.2500-1

- Flush or surface mounted
- Numeric keypad and functions keys
  4 programmable keys

- 1 programmable relay
   Anodized aluminium front panel
- IP40 rating
   15V to 30V power supply (through central or external: see p39)
- H 280 mm x W 170 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted with optional MKSP surface box: see p38)



MSE1 1 call button waterproof Maylis slave

#### REF 440.1900-1

- Flush or surface mounted
- 1 call button
- 1 programmable relay
- 8 Watts HP power
- Stainless steel polished front panel
- IP66 rating15V to 30V power supply

(through central or external: see p39)

 H 280 mm x W 130 mm x P D mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 132.5 mm x D 65 mm (surface-mounted with surface box)



4 keys waterproof Maylis slave station REF **440.2600-1** 

- Flush or surface mounted
- 4 programmable keys
- 1 programmable relay
- Stainless steel polished front panel
- IP66 rating
- 15V to 30V power supply

(through central or external: see p39)

 H 280 mm x W 170 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted with surface box)



#### MSPI1

1 call button Maylis slave station

- Flush or surface mounted
- 1 call button and label
- 1 programmable relay
- Aluminium front panel
- IP54 rating
- 15V to 30V power supply

(through central or external: see p39)

• H 157 mm x W 98 mm x D 2 mm (flush-mounted with flush box D 35 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box)



#### MSPI1 AV

1 call button vandal resistant Maylis slave

#### REF 440.0600

- Vandal resistant designed
- Flush or surface mounted
- 1 call button
- 1 programmable relay
- Stainless steel front panel
- IP54 rating
- 15V to 30V power supply

(through central or external: see p39)

• H 157 mm x W 98 mm x D 2 mm (flush-mounted with flush box D 35 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box)

# **DIGITAL AND ANALOG INTERCOM**



## SLAVE STATIONS (continued)



#### **MSPI1H AV**

Vandal resistant slave station 1 call button with handicap logo REF 440.0700

- Vandal resistant designed
- Flush or surface mounted
- 1 call button
- 1 programmable relay
- Stainless steel front panel with handicap logo
- IP54 rating
- 15V to 30V power supply

(through central or external: see p39)

 H 157 mm x W 98 mm x D 2 mm (flush-mounted with flush box D 35 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box)



MSPI1 AVNH 1 call button Maylis slave station disability regulation compliant REF 440.1250

- Vandal resistant designed, stainless steel front panel
- Flush or surface mounted
- 1 call button
- 1 programmable relay
- 3 leds for disability regulations
- IP54 rating IK09
  15V to 30V power supply (through central or external: see p39)
- H 176,5 mm x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)



MSPI1 AVNH V
1 call button Maylis video slave station disability regulation compliant REF 440.1200

- Vandal resistant designed, stainless steel front panel
- Flush or surface mounted
- 1 call button and 1 programmable relay
- 3 leds for disability regulations
- Integrated colour video camera
- IP54 rating IK09
  15V to 30V power supply (through central or external: see p39)
- H 176,5 mm x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)



#### MSPID1

1 call button Maylis design slave station REF 440.1500-

- Flush or surface mounted
- 1 call button and label
- 1 programmable relay
- Aluminium front panel IP54 rating
- 15V to 30V power supply

(through central or external: see p39) • H 250 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 250 mm x W 120 mm x D 41.5 mm (surface-mounted)

MSPID1 AV Vandal resistant version REF 100.252



#### MSPID2

2 call buttons Maylis design slave station REF 440.1600-1

- Flush or surface mounted
- 2 call buttons and label
- 1 programmable relay
- Aluminium front panel
- IP54 rating
- 15V to 30V power supply

(through central or external: see p39) H 250 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 250 mm x W 120 mm x D 41.5 mm

(surface-mounted) MSPID2 AV Vandal resistant version REF 100.218



#### MSPID4

4 call buttons Maylis design slave station REF 440.1700-

- Flush or surface mounted
- 4 call buttons and labels
- 1 programmable relay
- Aluminium front panel
- IP54 rating
- 15V to 30V power supply (through central or external: see p39) • H 300 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 300 mm x W 120 mm x D 41.5 mm (surface-mounted)

MSPID4 AV Vandal resistant version REF 100.241



MSPID1 VIDEO C 1 call button Maylis video colour design slave station REF 440.6500-1

- . Flush or surface mounted
- 1 call button and label
- 1 programmable relay
- Integrated colour video camera
- Aluminium front panel
- IP54 rating
  15V to 30V power supply

(through central or external; see p39)

• H 350 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 350 mm x W 120 mm x D 41.5 mm (surface-mounted)



MSPID2 VIDEO C 2 call buttons Maylis video colour design slave station

REF 440.6600-1

- Flush or surface mounted
- 2 call buttons and label
- 1 programmable relay
- Integrated colour video camera
- Aluminium front panel
- IP54 rating
  15V to 30V power supply

(through central or external; see p39)

• H 350 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 350 mm x W 120 mm x D 41.5 mm (surface-mounted)



MSPID4 VIDEO C 4 call buttons Maylis video colour design slave station REF 440.6700-1

- Flush or surface mounted
- 4 call buttons and labels
- 1 programmable relay
- Integrated colour video camera
- Aluminium front panel
- IP54 rating
  15V to 30V power supply

(through central or external: see p39)

• H 400 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 25.8 mm) H 400 mm x W 120 mm x D 41.5 mm (surface-mounted)



Handset Maylis slave station REF 440.3000

- One interface box + one handset
- Handset surface mounting
- · Call when picking up the handset
- ABS interface box surface mounting ABS anthracite handset wall mount
- Handset IP54 rating interface IP40 rating
- 15V to 30V power supply

(through central or external: see p39)

• H 154 mm x W 73 mm x D 43 mm (interface box)

H 235 mm x W 74 mm x D 78 mm (surface-mounted handset)



MSC GACHE
Handset Maylis slave station with door release function

- One interface box + one handset
- Handset surface mounting
- Call when picking up + door release push
- ABS interface box surface mounting
- ABS anthracite handset wall mount
- Handset IP54 rating interface IP40 rating
- 15V to 30V power supply

(through central or external: see p39)

• H 154 mm x W 73 mm x D 43 mm (interface box)

H 235 mm x W 74 mm x D 78 mm (surface-mounted handset)



#### **MBGPH**

Break glasses Maylis slave station REF 440.5600

- Surface mounting
- Call generate when glass is broken
- 1 programmable relay
- Frame in red steel RAL3002 colour
- IP40 rating15V to 30V power supply

(through central or external: see p39) • H 230 mm x W 135 mm x D 51 mm (surface-mounted)

# **DIGITAL AND ANALOG INTERCOM**



# INTERCOM SYSTEMS FOR CALL POINTS (TRANSPORTATION, CAR PARK ...) / REFUGE CALL POINTS



#### **MSPI2 AV-HELP**

Vandal resistant slave station 2 call buttons with induction loop

- Vandal resistant designed
- Stainless steel front panel
- 2 call buttons with Braille inscription
- 2 leds for disability regulations
- Integrated induction loop
- IP65 IK07 rating
- 15V to 30V power supply

(through central or external: see p39) • H 400 x W 130 mm x D 2 mm

(flush mounted)



#### **MSPI1 AV-HELP**

Vandal resistant slave station 1 call buttons with induction loop

- Vandal resistant designed
- Stainless steel front panel
- 1 call button illuminated
- SOS inscription
- 3 leds for disability regulations
- Integrated induction loop
- IP66 rating
- 15V to 30V power supply
- (through central or external: see p39) • H 280 mm x W 130 mm x D 2 mm
- (flush-mounted with flush box D 47 mm) H 282,5 mm x W 132,5 mm x D 65 mm (surface-mounted with surface box)

CASTEL has many intercom stations references for call points and can also make specific developments in order to fit your needs as closely as possible.

#### TO KIT



#### MSK1 Maylis slave station kit REF 440 3300-1

- Kit with ABS box
- Separate microphone, loud speaker and call button
- 1 programmable relay
- IP40 rating
- 15V to 30V power supply
- (through central or external: see p39)
- H 154 mm x W 73 mm x D 43 mm

# INTERCOM SYSTEMS **FOR PRISONS**



#### **MSPI1 AV-CELL1**

Maylis vandal resistant slave stations cell/corridor REF 100.346

- · Composed by one cell station and one corridor station
- · Vandal proof conception, stainless steel front
- 1 call button with signalisation led, 2 light buttons (cell and shower) on the cell station
- 1 acknowledgement button and 1 light button (night-light) on the corridor station
- IK09 rating
- 15V to 30V power supply (through central or external: see p39)
- H 220 mm x W 120 mm x D 2 mm (flush mounted - flush mounting D: cell station 45 mm - corridor station 60 mm)



MSPI1 AV-CELL2
Maylis vandal resistant slave stations cell /corridor REF 101.166

- · Composed by one cell station and one corridor station
- · Vandal proof conception, stainless steel front
- 1 call button with signalisation led, 1 light button on the cell station
- 1 acknowledgement button and 1 light button on the corridor station
- IK09 rating
- 15V to 30V power supply (through central or external: see p39)
- H 210 mm x W 110 mm x D 2 mm (flush mounted - flush mounting D: cell station 70 mm - corridor station 35 mm)



#### **MSPI1 AV-CELL3**

Maylis vandal resistant slave stations cell/corridor

REF 101.257 AND 101.263

- Composed by one cell station and one corridor station
- Vandal proof conception, stainless steel front
- 1 call button with signalisation led on the cell
- 1 acknowledgement lock and 1 light button (night-light) on the corridor station
- IK09 rating
- 15V to 30V power supply
- (through central or external: see p39)
- H 190 mm x W 70 mm x D 2 mm (flushed mounted - flush mounting D: cell station 128 mm - corridor station 40 mm)



### **MSK1 AV-CELL**

Maylis slave station kit - cell /corridor **REF 100.366** 

- . Kit with board on steel plate
- 1 call button with signalisation led, 1 acknowledgement remote button on the corridor side
- Light buttons holes (cell and corridor sides)
- 15V to 30V power supply (through central or external: see p39)
- H 200 mm x W 96 mm x D 56 mm



### **MSPI1 AV-LIAISON**

Maylis vandal resistant slave station for access intercom (corridor grids) RFF 100.349

- Vandal proof conception, stainless steel front panel
- 1 call button with signalisation led
- IP54 IK09 rating
- 15V to 30V power supply (through central or external: see p39)
- H 157mm x W 98 mm x D 2 mm (flush-mounted with flush box D 55 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box) optional mounting kit REF 100.144

CASTEL developed around fifty intercom stations and door frame intercom kits, to answer all the prisons needs (cell, security and access intercom, counter intercom, visiting rooms intercom, etc.).

# **CENTRALISATION**



## MCB

Main 40 lines central REF 440.3500

- Wall mounted
- Equipped with 8 lines
- Main central upgradable to 40 lines
   Expandable to 400 lines with 9 extension central

  Proceedings

  P
- Bus and/or star wiring
- Software and setup module provided
- Metal housing with wall mounted hooks
- 230V power supply (through connectors) or 24V (see p39)
- H 450 mm x W 380 mm x D 150 mm

Main 40 lines central - rackable version (3U) REF 440.4400



Extension 40 lines central REF 440.3700

- Wall mounted
- Equipped with 8 lines
- Expendable to 40 lines
- Bus and/or star wiringMetal housing with wall mounted hooks
- 230V power supply (through connectors) or 24V (see p39)
- H 450 mm x W 380 mm x D 150 mm

Extension 40 lines central rackable version (3U)
REF 440.5400



MCB8 8 lines main central REF 440.0900

- Wall mounted
- 8 lines equipped
- Bus and/or star wiring
- Software and setup module provided
   ABS housing with wall mounted hooks
- 24V power supply unit (provided. ref A24V-2A)
- H 210 mm x W 160 mm x D 80 mm

# OPTIONS



4 lines extension card for Maylis central REF 440.3600



# MT4E4

4 inputs 4 outputs card for Maylis central REF 440.4800



# MREP OdB

odB expender to maximise the Maylis bus length REF 440.5500

# **DIGITAL AND ANALOG INTERCOM**



# OPTIONS (continued)



MT2 2 additional remote control module REF 440.5200



MIRFO
Linking interface between a Maylis central and two other Maylis networks through an optic fiber
REF 440.3800



MIRFOL Linking interface for a single Maylis station through an optic fiber REF 440.3900



MKSP Surface mounting kit for Maylis build-in master station REF 440.2800



MKMED Surface mounting kit for Maylis MED REF 440.3100



MDIRD Electret gooseneck microphone option for Maylis range REF 490.0000



MOC Maylis handset option REF 440.5100-1



MSM External audio source Maylis interface REF 440.4300



MDS Sound diffusion Maylis interface REF 440.4000



ML Software and setup module for Maylis system REF 440.4500

# INDUCTION LOOP



INDUCTION LOOP
Remote induction loop (integrated in ABS case and stainless steel front panel).
Power supply 24V (see p39)
REF 540.3100

# **POWER SUPPLIES**



A15V-0A4-J Power supply 15VDC 400mA - Jack plug REF 440.7100



Cutting power supply on din track 24VDC 2A REF 110.9100



**A24V-3A-S** 24VDC 3A saved power supply battery 2.1 Ah REF 440.4900-1

# INTERFACES



# IP MAYLIS TCP/IP Maylis interface REF 440.5700

- Wall mounted or DIN rail
- Maylis interface through IP network
- SIP interface
- Web server for setup and management
- Stainless steel housing
- 15V to 30V power supply (through central or external)
   H 108 mm x W 141 mm x D 33 mm



Telephone forward Maylis interface REF 440.1800

- Wall mounted
- Interface to PSTN
- Calling from Maylis stations to telephones
- Calling from telephones to Maylis station
- Setup and management through software
- ABS housing
- 15V to 30V power supply (through central or external)
- H 210 mm x W 160 mm x D 80 mm

# SOFTWARES AND SERVERS



### **CASTEL SUPERVISOR** Supervision software

- Visualise and archive events as communication, incoming /outgoing call, call waiting, relay state, forwarding state
- Visualisation towards synoptic and/or continuous feed
- Call forwarding regarding time slots
- Compatibility with Windows XP, 7, Server 2003, Server 2008
   Compatibility with Oracle et SQL Server database
- . Multiuser software (no station licence) on a fully secured internet connection



# **MAYLIS SERVER**

Computer server hosting Maylis system for configuration and exploitation

REF 440.7000

- Computer server hosting applications Castel Pilot and Castel Supervisor
- Material support on server at D+1 included
- Castel technical support contract available for 2 years to the final client (free the first year - material warranty - and service fee the second year) • H 42,4 mm x W 434 mm x D 394 mm (rackable 1U black metallic case)



# DIGITAL AND ANALOG INTERCOM

# TELEPHONE ACCESS CONTROL ENTRY STATIONS

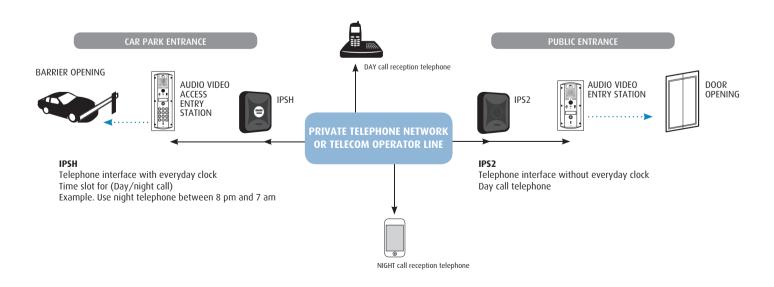
CASTEL's telephone intercom systems make it easy to set up communication between a street entry station and a telephone station. Thanks to this high performance equipment, doors can be operated remotely to enable or prevent access into your building.



- Speech access control (call a telephone number by pressing a call button, tapping out a number on the keypad or using the selectable list)
- Remote control release
- Automatic transfer if no response or line busy
- Ambient noise reduction function
- Independent release function
- 7 voice-synthesized messages may be recorded
- Loud-speaker and microphone volume adjustment
- Time delay adjustment for contact only release control
- Time programming for day/night calls
- Optional: additional remote controls, compatible with SIP telephone systems, 8 lines interface, etc.



# **SCHEMATIC**





PAD new range



CAPH new range















# The interface with its own 230V supply connected to the entry system enables

- > Communication power supply of over 1 watt
- > Duplex hands-free conversation
- > Increased security (release control relay removed)

# A pack always has an interface (IPS2) with 1 or 2 entry stations

- > Compatible with standard telephone networks
- > Compatible with all standard Telecom operators automatic exchanges

# All functions can be fully programmed from a telephone station

### (easy and flexible to use and programme)

- > Automatic hang-up
- > Conversation length timing facility
- > Multi-functional keypad (direct dial or keypad)
- > Automatic call transfer on each entry station
- > Direct release control relay from the telephone station
- > Advanced system

# A solution compliant with disability regulations

- > With telephone intercom stations fitted with colour video cameras, three pictograms viewed with coloured LEDs (or on graphic screen for PAD range), and audible messages
- > CASTEL goes further with CAPH new range: an induction loop is directly integrated into the intercom stations (possibility to have a remote induction loop for PRIT range stations) and keypads have buttons with Braille (also for PAD range)

# MAIN APPLICATIONS

Tertiary industry and industrial buildings access, car park access, HGV access for logistics sites, day/night calls (hotel chains, chemists, emergency services, etc.), information terminals (pedestrian zones/ vehicle access), small residential buildings (caretaker calls, etc.), and many other customised applications available.



# **DIGITAL AND ANALOG INTERCOM**



# TELEPHONE INTERCOM SYSTEMS

# AUDIO VIDEO ENTRY STATIONS - CAPH series



Audio video entry station with 1 call button compliant with disability regulations

### REF 660.6000

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 1 call button and label
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



### **CAPH V2B**

Audio video entry station with 2 call buttons compliant with disability regulations

### REF 660.6100

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 2 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



### CAPH V3B

Audio video entry station with 3 call buttons compliant with disability regulations

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 3 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



**CAPH V4B**Audio video entry station with 4 call buttons compliant with disability regulations

### REF 660.6300

- . Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 4 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



**CAPH V6B**Audio video entry station with 6 call buttons compliant with disability regulations

## REF 660.6400

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 6 call buttons and labels
- . 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface mounted)



**CAPH V10B**Audio video entry station with 10 call buttons compliant with disability regulations

### **REF 660.6500**

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 10 call buttons and labels
- . 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface mounted)

Analog	Interface for 1 or 2 entry stations	Compatible with standard phone networks	Duplex hands-free conversation	Configuration from a telephone	
Wiring: 2 twisted pairs	Release control relay remoted in the interface	Power supply by interface	Audio power over 1 watt	Time programming for day/night calls	



CAPH V1B CLAV
Audio video entry station with
1 call button and keypad compliant with disability regulations REF 660.6600

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 1 call button and label
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK08 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface-mounted with surface box)

AUDIO ENTRY STATIONS - CAPH series

CAPH 1B

REF 660.0000

• 1 call button and label

Powered by interface

IP64 - IK09 rating

(surface mounted)

Integrated induction loop

3 leds for disability regulations



CAPH V2B CLAV Audio video entry station with 2 call buttons and keypad compliant with disability regulations RFF 660.6700

- Stainless steel 316 L vandal proof front panel
- Built-in colour video camera
- 2 call buttons and labels
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK08 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface-mounted with surface box)



**CAPH 2B**Audio entry station with 2 call buttons compliant with disability regulations REF 660.0100

- Stainless steel 316 L vandal proof front panel
- 2 call buttons and labels
- . 3 leds for disability regulations Integrated induction loop
- IP64 IK09 rating
- Powered by interface
  H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



## CAPH 3B

Audio entry station with 3 call buttons compliant with disability regulations REF 660.0200

Audio entry station with 1 call button compliant with disability regulations

• H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm)

H 250 mm x W 135 mm x D 54.5 mm

• Stainless steel 316 L vandal proof front panel

- Stainless steel 316 L vandal proof front panel
- 3 call buttons and labels
  3 leds for disability regulations
  Integrated induction loop
- IP64 IK09 rating Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



## CAPH 4B

Audio entry station with 4 call buttons compliant with disability regulations REF 660.0300

- Stainless steel 316 L vandal proof front panel 4 call buttons and labels3 leds for disability regulations

- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 250 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 250 mm x W 135 mm x D 54.5 mm (surface mounted)



# AUDIO ENTRY STATIONS - CAPH series (continued)



### CAPH 6B

Audio entry station with 6 call buttons compliant with disability regulations RFF 660.0400

- Stainless steel 316 L vandal proof front panel
- 6 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface mounted)



# **CAPH 2B CLAV**

Audio entry station with 2 call buttons and keypad compliant with disability REF 660.0700

- Stainless steel 316 L vandal proof front panel
- 2 call buttons and labels
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK08 rating
- Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface-mounted with surface box)



### CAPH 10B

Audio entry station with 10 call buttons compliant with disability regulations RFF 660.0500

- Stainless steel 316 L vandal proof front panel
- 10 call buttons and labels
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK09 rating
- Powered by interface

H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface mounted)



# CAPH REP

Index box 32 names capacity REF 660.9000

- Stainless steel 316 L vandal proof front panel
- IP64 IK09 rating
   H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface-mounted with surface box)



### **CAPH 1B CLAV**

Audio entry station with 1 call button and keypad compliant with disability regulations REF 660.0600

- Stainless steel 316 L vandal proof front panel
- 1 call button and label
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 leds for disability regulations
- Integrated induction loop
- IP64 IK08 rating Powered by interface
- H 350 mm x W 135 mm x D 14.5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54.5 mm (surface-mounted with surface box)

# **ENTRY STATIONS - PRIT series**



Audio entry station with 1 call button REF 650.4000

- Aluminium front panel
- 1 call button and label
- IP54 rating
- Powered by interface
- H 157 mm x W 98 mm x D 2 mm (flush-mounted with flush box D 35 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box)



**PRIT AV**Vandal-resistant audio entry station with 1 call button REF 650.4100

- Stainless steel front panel
- 1 call button
- IP54-IK09 rating
- Powered by interface
- H 157 mm x W 98 mm x D 2 mm (flush-mounted with flush box D 35 mm) H 160 mm x W 100 mm x D 47 mm (surface-mounted with surface box)



**PRIT AVNH**Vandal-resistant audio entry station with 1 call button compliant with disability regulations REF 650.4200

- Stainless steel front panel
- 1 call button
- . 3 leds for disability regulations
- IP54-IK09 rating
- Powered by interface
- H 176.5 mm x W 97.5 mm x D 2 mm

(flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)



PRIT AVNH V Vandal-resistant audio video entry station with 1 call button compliant with disability regulations REF 650.4600

- Stainless steel front panel
- 1 call button
- 3 leds for disability regulations
- Integrated colour video camera
- IP54-IK09 rating
- Powered by interface
- H 176.5 mm x W 97.5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)

# INDUCTION LOOP



INDUCTION LOOP
Remote induction loop (integrated in ABS case and stainless steel front panel). It can be used with PRIT AVNH and PRIT AVNH V entry stations. Power supply 24V not included (ref. A24V-0A7-F) REF 540.3100

# **DIGITAL AND ANALOG INTERCOM**



# INTERFACES (for CAPH and PRIT series entry stations)



Interface for PS-PABX connection

- Manage 1 or 2 entry stations
- Opening lock by the phone
- Direct call or call forwarding
- 7 customisable voice messages
- Compatible SIP via interface (ref. XELLIP TRANSFER)
- Ambient noise reduction function
- Power supply 28V included
  H 210 mm x W 160 mm x D 80 mm



Interface for PS-PABX connexion with clock for 1 entry station

REF 650.1200



**IPS2 T** Interface for PS-PABX connection with 8 remote controls option REF 650.1300



IPS 8L\* Interface for PS-PABX connection with 8 lines (different PABX) REF 650.1400



**IPS2 8T8L\*** Interface for PS-PABX connection with 8 remote controls and 8 lines option REF 650.1500

# \*Works only with PRIT and PRIT AV entry stations

# ENTRY STATIONS - PAD series



### **PAD AUDIO**

Audio entry station with selectable list name and keypad compliant with disability regulations

- Vandal-resistant designed, stainless steel front panel
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 keys for selectable list name
- Graphic display
- Disability regulations pictograms on graphic display
- Configuration by PC software included (via modem)
- Power supply 24V included (ref. A24V-2A)
- H 360 mm x W 175 mm x D 2.5 mm

(flush-mounted with flush box D 60 mm) optional surface-mounting kit



## **PAD VIDEO**

Audio video entry station with selectable list name and keypad compliant with disability regulations REF 650.2900

- Vandal-resistant designed, stainless steel front panel
- Integrated colour video camera
- Numerical keypad for direct dial and access code, buttons with Braille
- 3 keys for selectable list name
- Graphic display
- Disability regulations pictograms on graphic display
- Configuration by PC software included (via modem)
- IP54 rating
- Power supply 24V included (ref. A24V-2A)
- H 430 mm x W 175 mm x D 2.5 mm

(flush-mounted with flush box D 60 mm) optional surface-mounting kit

# TORMER RANGE OF ENTRY STATIONS - CAP series

In order to always bring you an optimal service, CASTEL will continue to provide after sales Service on the former range of CAP series entry stations.



CAP 1B
Audio entry station 1 call button
REF 650.0000



CAP 2B Audio entry station 2 call buttons REF 650.0100



CAP 4B Audio entry station 4 call buttons REF 650.0200



CAP 6B Audio entry station 6 call buttons REF 650.0300



**CAP 10B**Audio entry station 10 call buttons
REF 650.0400



CAP 1B CLAV
Audio entry station 1 call button with keypad
REF 650.0600



CAP 4B CLAV Audio entry station 4 call buttons with keypad REF 650.0700



VIDEO MODULE
Optional video module for CAP entry stations



CAP REP2 Design index, capacity 32 names REF 650.9100



# DIGITAL AND ANALOG INTERCOM

# PC-PCX: CENTRALISED INTERCOM STATIONS

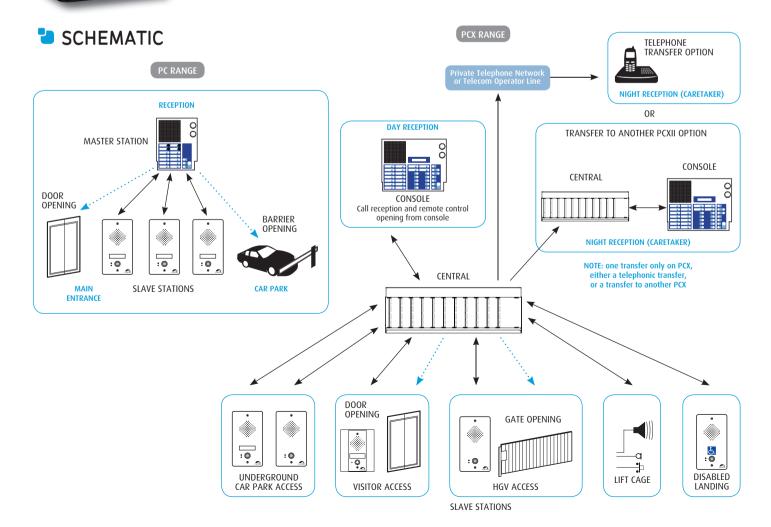
FOR FAST COMMUNICATION

CASTEL's high performing professional intercom solutions enable centralised star network secured communication up to 1,000 directions with posting to Dect type telephone or mobile stations.





- Master stations for call centralisation
- Intercommunication between master stations
- General calls/Group calls
- Simplex/Duplex Communications
- Luminous call signalling (PC range)
- Visual call display, call storage, call waiting management, priority calls, 10 pre-programmed buttons (PCXII)
- Optional: remote control release, telephonic transferring, privacy button, gooseneck microphone, plate integrated version for entire range, etc.





Build-in master station



Industrial waterproof slave station

# MAIN BENEFITS

# Security, strength and robustness

# Fast and efficient direct communication

between specific points (slave stations) and one (or several) central stations (master stations).

# Very easy to use

1 or more direct call push buttons for slave stations.

## Centralised electronics

increased reliability.

# Adjustable transmission and reception levels

enabling communication between premises with different ring levels.

# No programming

# Extent

up to 1,000 directions and numerous options for the PCXII range.  $% \label{eq:proposition}%$ 

# A large range enables the installation of the most suitable system for the surroundings

handset, office station, flush or surface mounted plate, water proof station, window station, vandal proof versions, internal, external, industrial and video, lift kits.



Hospital centres, lifts, underground/overhead car parks, tertiary industry and industrial complexes, motorway and car park toll booths, supermarket checkouts, retirement homes, prisons, military sites, ports, etc., and numerous other customised applications.



# **DIGITAL AND ANALOG INTERCOM**



# PC/PCX PROFESSIONAL INTERCOM

# DESKTOP AND BUILD-IN MASTER STATIONS FROM 1 UP TO 20 DIRECTIONS - PC RANGE



### PC2002 DX

Desktop master station with 2 call directions 15V power supply included

- Desktop or wall mount station
- 2 call buttons to slave stations
- Duplex or simplex communication
- ABS housing
- IP40 rating
- 15V power supply unit (provided)
- H 240 mm x W 120 mm x D 62 mm

### PC2002 P DX Build-in version RFF 470 6100



# **PC2005 SX/DC**

Desktop master station with 5 call directions - 15V power supply not REF 470.2000

- Desktop or wall mount station with one distribution box
- 5 call buttons to slave stations or master stations
- Intercommunication possible between
- 2 master stations
- Simplex conversation
- ABS housing
- IP40 rating
- 15V power supply (not included: see p53)
- H 240 mm x W 1187 mm x D 62 mm (distribution box: H 205 mm x W 140 mm x D

# PC2005 P SX/DC

Build-in version REF 470.3000

### PC2005 SXIAC

Desktop master station with 5 call directions 15V power supply included REF 470.0000

### PC2005 AX

Desktop master station with 5 call directions with general calls and 230V



# **PC2015 AX**

Desktop master station with 15 call directions with general calls and 230V plug REF 470.0400

- Desktop or wall mount station with
- 2 derivation box
- 15 call buttons to slave stations or master stations
- Intercommunication possible between
- 2 master stations
- Simplex conversation
- ABS housing
- IP40 rating
- 230V power supply (power cord provided) H 240 mm x W 297 mm x D 62 mm (deriva-
- tion box: H 205 mm x W 140 mm x D 65 mm)

# PC2015 P AX Build-in version

REF 470.1400

# **PC2020 AX**

Desktop master station with 20 call directions with general calls and 230V plug REF 470.0500

- Desktop or wall mount station with
- 2 derivation box
- 20 call buttons to slave stations or master stations
- Intercommunication possible between
- 2 master stations
- Simplex conversation
- ABS housing
- IP40 rating
- 230V power supply (power cord provided)
- H 240 mm x W 297 mm x D 62 mm (derivation box: H 205 mm x W 140 mm x D 65 mm)

# **PC2020 P AX**

Build-in version REF 470.1500



# PC2010 SX/DC

Desktop master station with 10 call directions - 15V power supply not REF 470.2200

- Desktop or wall mount station with one distribution box
- 10 call buttons to slave stations or master stations
- Intercommunication possible between
- 2 master stations
- Simplex conversation
- ABS housing
- IP40 rating
- 15V power supply (not included: see p53) • H 240 mm x W 187 mm x D 62 mm

(derivation box: H 205 mm x W 140 mm x D 65 mm)

# PC2010 P SX/DC

Build-in version REF 470.3200

# PC2010 SX/AC

Desktop master station with 10 call directions 15V power supply included REF 470.0200

### PC2010 AX

Desktop station with 10 call directions with general calls and 230V plug REF 470.0300



# PC2001 1PH/1G

Desktop master station 1 direction and 1 door release remote control with 15V power supply REF 470.7000

- Desktop or wall mount station
- 1 call button to 1 slave station
- 1 door release remote control button
- Duplex or simplex communication
- ABS housing
- IP40 rating
- 15V power supply unit (provided)
  H 240 mm x W 120 mm x D 62 mm

Analog	Star wiring	Integrate or remote relay control	Duplex Simplex	
Wiring: 1 Pair 9/10	Up to 999 directions	Intercommunication between master stations	With or without central	



PC2005 3PH/2G
Desktop master station 3 directions and 2 door release remote controls with 15V power supply unit REF 470.7100

- Desktop or wall mount station with one distribution box
- 3 call buttons to slave stations or master
- 2 door release remote control buttons
- Simplex conversation
- ABS housing
- IP40 rating
- 15V power supply unit(provided)
- H 240 mm x W 187 mm x D 62 mm (derivation box: H 90 mm x W 170 mm x D 25 mm)



PC2010 5PH/5G
Desktop master station 5 directions and 5 door release remote controls with 230V plug REF 470.7200

- Desktop or wall mount station with one distribution box
- . 5 call buttons to slave stations or master stations
- 5 door release remote control buttons
- Simplex conversation
- ABS housing IP40 rating
- 230V power supply (power cord provided)
- H 240 mm x W 187 mm x D 62 mm (derivation box: H 205 mm x W 140 mm x P 65 mm)



# PC2020 10PH/10G

Desktop master station 10 directions and 10 door release remote controls with 230V plug REF 470.7300

- Desktop or wall mount station with
- 2 derivations box
- . 10 call buttons to slave stations or master
- 10 door release remote control buttons
- Simplex conversation
- ABS housing
- IP40 rating
- 230V power supply (power cord provided)
- H 240 mm x W 297 mm x D 62 mm (derivation box: H 205 mm x W 140 mm x D 65 mm)



# PCX 10D AX

Central and simplex master station up to 10 directions

REF 475.5000

- Desktop or wall mount station with central
- . 10 call buttons to slave stations or master stations
- Pre installed central with 10 directions
- Simplex conversation
- Compatible with PCX options (see p52)
- ABS housing, desktop station IP40 rating
- 230V power supply (power cord not provided)
- H 240 mm x W 187 mm x D 62 mm (central: H 238 mm x W 380 mm x D 150 mm)

### PCX 10D P AX Build-in version

REF 475.6000

PCX 10D DX Central and duplex master station up to 10 directions REF 475.5500

PCX 10D P DX

Build-in version REF 475.6500

# COUNTER INTERCOM



## **IG 2000** Counter intercom REF 470.9000

- Made with a staff station and a customer
- Full duplex communication
- ABS housing
- IP40 rating
- 15V power supply unit (provided)
- H 240 mm x W 120 mm x P 62 mm (staff station and customer station)

# PC RANGE OPTIONS





COMBS Handset option for simplex unit master station REF 490.3000



# DESKTOP AND BUILD-IN MASTER STATIONS FROM 1 UP TO 999 DIRECTIONS - PCX RANGE



PCX II AX
Central and simplex master station up to 50 directions
REF 475.0100

- Desktop or wall mount station with wall mounted central
- 2x12 characters display, numeric keyboard, group call and remote control programmable button
- Pre installed central with 10 directions
- Simplex conversation
- ABS housing, desktop station IP40 rating
- 230V power supply (power cord not provided)
- H 240 mm x W 297 mm x D 62 mm (central: H 450 mm x W 380 mm x D 150 mm)

### PCX II P AX

Central and simplex master station (build-in version) up to 50 directions REF 475.1100



Central and duplex master station up to 50 directions
REF 475.0600

- Desktop or wall mount station with wall mounted central
- 2x12 characters display, numeric keyboard, group call and remote control programmable buttons
- Pre installed central with 10 directions
- Duplex communication
- ABS housing, desktop station IP40 rating
- 230V power supply (power cord not provided)
- H 240 mm x W 297 mm x D 62 mm (central: H 450 mm x W 380 mm x D 150 mm)

### **PCX II P DX**

Central and duplex master station (build-in version) up to 50 directions REF 475.1600



### EXT PCX II Extension central PCXII REF 475.2100

- Wall mount extension central
- Pre installed central with 10 directions
- 50 directions capacity
- Simplex or duplex conversation (according to main central configuration)
- 230V power supply (power cord not provided)
- H 450 mm x W 380 mm x D 150 mm

# **PCX RANGE OPTIONS**



MC5D Additional 5 directions card to install into a central available slot REF 475.2600



MC5T 5 remote controls card to install into a central available slot REF 490.0900



TELPCX
Telephone forward card
(2 cards to install into the central)
REF 490.1700



R2PCX
Forward option from PCXII
to PCXII (1 card to install
into the central)
RFF 490.0400





COMBD Handset option for PCXII master station REF 490.3100



HP10
10 Watts waterproof loudspeaker option
REF 396.3000



M 025 25 Watts loudspeaker option REF 396.0000



MA20W 20 Watts amplification module option REF 440.5300



LOG PCX Software and parameter module option REF 490.0100

# 🖶 SLAVE STATIONS - PC/PCX RANGE



### **PSD 2000**

1 call button slave station desktop or wall mount version

- Desktop station or wall mount slave station
- 1 call button
- HP reverse communication
- ABS housing
- IP40 rating
- Auto power supply
- H 240 mm x W 120 mm x D 62 mm

### **PSD 2000 S**

1 call button slave station desktop or wall mount version with secrecy function REF 460.0100



### **PSD 2003**

3 call buttons slave station desktop or wall mount version REF 460.1000

- Desktop station or wall mount slave station
- 3 call buttons
- HP reverse communication
- ABS housing
- IP40 rating
- 15V power supply unit
- (not included: see p53)

  H 240 mm x W 120 mm x D 62 mm



**COMBINE PS** Handset slave station

- Desktop or wall mount slave station
  - Call when picking up the handset
- HP reverse communication
- ABS housing
- Battery power supply
- H 235 mm x W 174 mm x D 78 mm



Waterproof 1 call button slave station

- Waterproof 1 call button and label
- HP reverse communication
- Aluminium front panel
- IP54 rating
- Auto power supply

• H 176,5 mm x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)

Vandal resistant slave station 1 call button REF 460.2500

# PI 1BP 3A

1 call button slave station to 3 directions (power supply unit not provided: see p53) REF 460.1900

# PI 1BP 3A AV

1 call button vandal resistant slave station to 3 directions (power supply unit not provided: see p53) REF 460.2700



Vandal resistant slave station 1 call button with handicap logo RFF 460.2800

- 1 call button
- HP reverse communication
- Stainless steel front panel
- IP54 rating IK09
- Auto power supply
- H 176,5 mm x W 97,5 mm x D 2 mm (flush-mounted with flush box D 45 mm) H 196 mm x W 109 mm x D 55 mm (surface-mounted with surface box)



Waterproof slave station 1 call button REF 460.5000

- HP reverse communication
- Stainless steel front panel
- IP65 rating
- Auto power supply

• H 280 mm x W 130 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 132.5 mm x D 65 mm (surface-mounted with surface box)



# PI-D

Design slave station with 1 waterproof call button REF 460.4000

- Waterproof 1 call button and label
- HP reverse communication
- Aluminium front panel
- IP54 rating
- Auto power supply
- H 150 mm x W 120 mm x D 15.7 mm (flush-mounted with flush box D 28.5 mm) H 150 mm x W 120 mm x D 41.5 mm (surface-mounted)

# PI-D AV

Design vandal resistant slave station with 1 call button RFF 100.509

# PI-D VIDEO C

Design vandal resistant slave station with 1 call button and colour video REF 460.4500

### PI-D 1BP 3A

1 call button slave station to 3 directions (power supply not provided: see p53) REF 460.4100

### PI-D 1BP 3A AV

Vandal resistant slave station 1 call button to 3 directions REF 101.287



# POWER SUPPLY

A15V-0A4-F Power supply 15VDC 400mA - wire plug REF 496.1100





# SECURITY INTERCOM

# CASI: CENTRAL ALARM AND SECURITY INTERCOM SYSTEMS

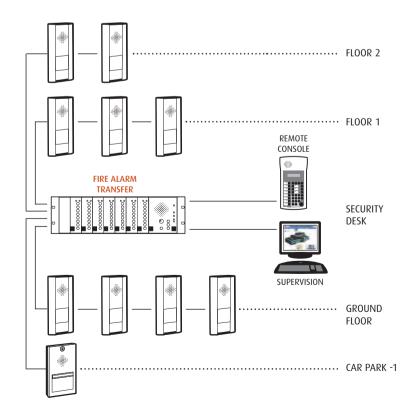
A security system aimed at centralising and localising emergency calls coming from voice-activated «glass broken» terminals.



- Alarm and communication centralisation
- Alarm activation by glass broken device or handset call
- Central buzzer for signalling alarms
- Car park audio device
- Emission of industry standard NFS 32001 emergency evacuation signal
- Repeater OdB module available for direct link to an evacuation
- or alarm bell system



# **SCHEMATIC**





Remote console build-in version



CASTEL Supervisor

# MAIN BENEFITS

# CASI meets the criteria defined in industry standard EN 61950 and in accordance with technical instruction IT 248

It also conforms with industry standard EN 60950 for security use. It complies with article GH50 of the high rise buildings regulations.

# CASI is secure

It detects and indicates all anomalies that might occur in the various connecting cables (line opening, short circuits, etc.).

# It can detect from 7 to 980 directional identities by address line

(for multiple terminals per line, please ask).

# Call localisation performance

Front panel display direct to CASI.

# Comfortable operating

Emergency calls can be received on a remote console with display.

## Supervised system

Supervision software allows you to visualize on graphical views, calls, line faults, to pick up-hang up, as well as getting all events history.

# New IP interface



High rise buildings, car parks, public buildings, nuclear power plants, airports, etc., and numerous other customised applications.



# SECURITY INTERCOM



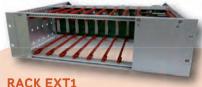
# 🔁 ALARM CENTRAL



Intercom security and alarm central RFF 220.0000

- 49 lines base rack (7 zones module not included)
- Communications can be managed on the front panel
- Audio simplex, with 3 watts power
- Supply power rescued by battery
- Complies with NFS 32001, NFS 61950 and NFS 60950 standards
- Power supply 220V AC (cable included)
- H 132.5 mm x W 482.6 mm x D 431 mm (rack-mountable 3U format)

COFR 3U 3U housing option REF 220.1300



# RACK EXT1 CASI extension rack 1 RFF 220.0900

- 3U extension rack 1 for 49 directions (7 zones module not included)
- Associated with the previous rack
   Complies with NFS 32001, NFS 61950 and NFS 60950 standards
- Power supply by previous central (cable included)
- H 132.5 mm x W 482.6 mm x D 351 mm (rack-mountable 3U format)



# RACK EXT2 CASI extension rack 2 RFF 220.1100

- 3U extension rack 2 for 49 directions with power supply (7 zones module not included)
- Associated with the previous rack
   Complies with NFS 32001, NFS 61950 and NFS 60950 standards
- Supply power rescued by battery
- Power supply 220V AC (cable included)
- H 132.5 mm x W 482.6 mm x D 431 mm (rack-mountable 3U format)



# MOD7Z 7 zones module REF **220.1900**

- Manages 7 zones of security terminals 7 buttons with lighting for call and 1 button for test
- 1 light for contact circuit fault and 1 light for cut
- Power supply by central
- Module to be inserted in the central



## REPORT

Dry contact report module REF 220.1400

- Manages 7 dry contacts associated with 7 directions (1 module 7 zones)
   Dry contacts in NO or NC position
- Engagement by upwelling event: call, contact circuit fault, or cut circuit fault
- Power supply by central
- Module to be inserted in the central





### MP CASI Remote console for CASI RFF 250.0000

- Desktop or wall mount station
- LCD display (2 lines x 16 characters)
- Numeric keypad and functions keys • 11 keys and 1 programmable relay
- ABS case
- IP40 rating
- 15V to 30V power supply

(through central or external: see p57)

H 265 mm x W 138 mm x D 70 mm



# MPP CASI

Remote console build-in version for CASI RFF 250.0100

- Flush or surface mounted
- LCD display (2 lines x 16 characters) Numeric keypad and functions keys
- 11 keys and 1 programmable relay
- Anodized aluminium front panel
- IP40 rating15V to 30V power supply

(through central or external: see p57)

• H 280 mm x W 170 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted with optional MKSP surface box: see p57)





# **CASTEL SUPERVISOR** Supervision software

 Visualiser et historiser des événements de type communication, appel entrant/sortant,

- attente, état d'un relais, état de renvoi Visualisation sous forme de synoptique et/ou
- de fil de l'eau Mise en renvoi sur plage horaire
- Compatible windows XP, 7, serveur 2003, serveur 2008
- Compatible base de données Oracle et SQL
- Logiciel multiutilisateur (pas de licence poste) sur une architecture full web sécurisée

Analog Stars/bus wiring		Simplex	Configuration by PC		
Wiring: 1 pair 9/10	Central with IP interface	Lines monitoring	Supervision software		

# SECURITY TERMINALS



### **BGPH**

Audio glass broken device surface mounting REF 210.0100

- Dedicated terminal for central CASI
- Call initiated by glass broken
- Terminal is connected to one of the 7 lines of the 7 zones module
- No power supply needed (powered by the
- H 230 mm x W 135 mm x D 51 mm (surface-mounted)

### **BGPH ENCASTRE**

Audio glass broken device flush mounting REF 210.0000



# **BGPH DM**

Flexible cell audio glass broken device

- Dedicated terminal for central CASI
- Call initiated by flexible cell (deformable membrane)
- . Terminal is connected to one of the 7 lines of the 7 zones module
- No power supply needed (powered by the central)
- H 205 mm x W 120 mm x D 22 mm (flush-mounted with flush box D 20 mm) H 205 mm x W 120 mm x D 42 mm (surface-mounted)



### **BGPH D**

Design audio glass broken device REF 230.0000

- Dedicated terminal for central CASI
- Call initiated by glass broken
- Terminal is connected to one of the 7 lines of the 7 zones module
- No power supply needed (powered by the central)
- H 205 mm x W 120 mm x D 22 mm (flush-mounted with flush box D 20 mm) H 205 mm x W 120 mm x D 42 mm (surface-mounted)



**BGPH E** 

Waterproof audio glass broken device REF 210.0200

- Dedicated waterproof terminal for central CASI
- Call initiated by glass broken
   Terminal is connected to one of the 7 lines of the 7 zones module
- IP66 rating
- No power supply needed (powered by the central)

H 280 mm x W 170 mm x D 2 mm (flush-mounted with flush box D 47 mm) H 282.5 mm x W 172.5 mm x D 65 mm (surface-mounted)



Red security handset

- Dedicated intercom handset for central CASI
- . Call when picking up the handset
- . Terminal is connected to one of the 7 lines of the 7 zones module
- ABS case with wall mounting
- No power supply needed (powered by the
- H 235 mm x W 74 mm x D 78 mm



**CPPH** 

Audio device with mushroom button

- Dedicated terminal for central CASI
- Call is initiated by mushroom button
- Terminal is connected to one of the 7 lines of the 7 zones module
- No power supply needed (powered by the central)
- H 230 mm x W 135 mm x D 51 mm (surface-mounted)



BRISER LA GLACE EN CAS DE NECESSITÉ

10 glasses pack for BGPH (dimensions 130 x 75 mm) REF 240.0000



A15V-0A4-J

Power supply 15VDC 400mA Jack plug REF **440.7100** 

ALARME INCENDIE BRISER LA GLACE EN CAS DE NECESSITÉ

10 glasses pack for BGPH D (dimensions 63 x 60 mm) REF 240.0100



**A24V-2A** 

Cutting power supply on din track 24VDC 2A REF 110.9100



MKSP

Surface mounting kit for remote console build-in version for CASI REF 440.2800



**A24V-3A-S** 24VDC 3A saved power supply battery 2.1 Ah REF 440.4900-1





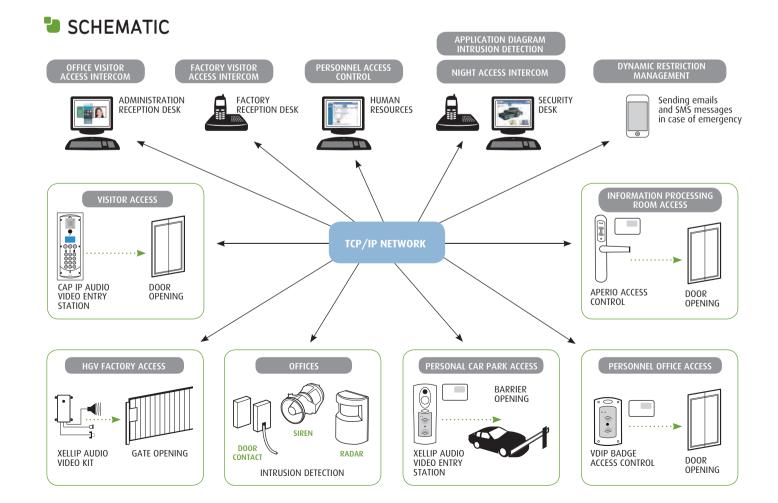
# A GLOBAL SOLUTION FOR BUILDING SECURITY

This simple to use, modular, evolutionary and high performance VDIP Evolution responds to all issues relating to access control, application diagrams, intrusion detection, time programming and intercom over IP.



- Access control for up to 45,000 badges and 200 user profiles per VDUC Evo module
- Intrusion detection for up to 10,000 alarm points
- Application diagram of alarms and counters (unlimited charts)
- Time programming (lighting, door unlocking, intrusion, etc.)
- Audio video IP intercom (convergence with Maylis, XELLIP and CAP IP ranges)







### CASTEL Access: high performance access control

(up to 1,000 VDUC Evo modules (45,000 badges and 200 user profiles per module), 10 time slots per profile, 5 types of public holiday)

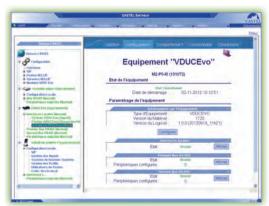
- Prioritised rights management
- Visitor pre-registration (visit notice)
- Car park, lift, restaurant and double-entrance security management
- Unique passer-by system: pass-back proof, time-back proof
- Motion monitoring by zone
- Security functions: black list, red list, duress code, lost badge, etc.
- Synchronised with directories (LDAP)
- Simultaneous French, English, German versions on client stations



### CASTEL Supervisor: dynamic alarm supervision

(up to 10,000 alarm points and unlimited synoptic diagrams)

- $\bullet$  Rebuilding, discharging, recording and archiving of technical and intrusion alarms
- Continuous feed
- Event display
- Audio and visual signalling
   First and SMS researchers.
- Email and SMS messaging restriction
- Video, door and double-entrance security control



### CASTEL Server: easy configuration and remote maintenance

- On site or pre-programmed configuration
- Advanced and user-friendly Internet interface
- Module configuration option
- General configuration display

# MAIN BENEFITS

# Multi-market

Aimed at a variety of different environments: industrial, tertiary industry, military, institutional, hospital, etc., they work equally well for environments with several dozen reading points as well as those with more modest requirements.

# Multi-station

The software is based on a fully secured internet connection, compatible with the vast majority of web browsers. It creates an economic multi-user system (no station licence) and is secured with customised menus for easy rights management and use. It also has a multilingual interface. The software is engineered to be compatible with all types of users.

# Multi-site

Based exclusively on an IP network connection, VDIP Evolution allows for inter-site feedback thanks to independent management units on every site. Unlimited reader and point capacity. Different companies can also use the system thanks to access profiles. Finally, as the system is autonomous, it functions even if the network is down.

# Multi-technology

VDIP Evolution is an open system and can deal freely with all types of technologies: magnetic badge, proximity (125 kHz, Mifare and Desfire 13.56 MHz), long distance, radio, dual-technology (long distance + proximity). To facilitate use, a single personnel connection is sufficient for pooling different types of badge. Moreover, the system is compatible with different standard protocols on the market (Wiegand, RS485, Aperio, etc.).



The tertiary industry and industrial sites, hospitals, the hotel industry, exhibition centres, office access, car parks, fold-away terminals, etc., and numerous other customised applications.



# SYSTEM (PLC - PERIPHERAL DEVICES)





# **VDUC EVO** Programmable Logic Controller (PLC) over IP REF 130.0000

- Interface between IP network and RS485 equipments
- Integration of 2 RS485 field bus to manage up to 120 readers via the VDIP protocol and Aperio protocol to manage up to 15 Aperio locks per bus
- RS232 connector to communicate with an external equipment
- Second RJ45 plug to provide switch function
- Radius Authentication (802.1X) and SNMP protocol
- Open case switch
- PoE power supply (or optional external power supply: see p64)
- Case in ABS
- H 210 mm x W 145 mm x D 65 mm





VD 4LECT VDIP device to connect up to 4 readers, 8 dry contacts and 4 relays REF 130.0100

- Can be mounted on Din rail
- Management of up to 4 keypads and/or
- Possible installation of keypad in parallel for confirmation code on each drive
- Management of 2 dry contacts by reader
- . Management of 1 relay by reader
- Open case switch
- Power Supply 15 to 30V (see p64)
- H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)



VD LECT VDIP device to connect 1 reader, 2 dry contacts and 1 relay REF 110.1200

- Can be mounted on Din rail
- Management of one keypad or readerPossible installation of keypad in parallel for confirmation code
- Management of 2 dry contacts

- Management of 1 relay
  Power Supply 15 to 30V (see p64)
  H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)



**VD 8EI**VDIP device to connect 8 impedance dry contacts

# REF 110.1100

- Can be mounted on Din rail
- Management of 8 impedance dry contacts protected and filtered
- Power Supply 15 to 30V (see p64)
  H 108 mm x W 71 mm x D 33 mm
- (mounting on rail D 45 mm)



# VD 4S VDIP device to connect 4 relays REF 110.1000

- Can be mounted on Din rail
- Management of 4 single pole relays
- Power Supply 15 to 30V (see p64)
- H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)

IP	Wiegand protocol	Biometric, long distance, radio, dual-technology	Maylis, XELLIP and CAP IP intercom compatible	Access Control Software	Multi-site	
RS 485 RS 232	Proximity readers: 125 kHz, 13.56 MHz Mifare, Doefire	Aperio compatible	Secured web architecture	Graphical Overview Software	Multi-station	

# **KEYPAD**



# **VD DIGIC**

Keypad REF **110.7000** 

- Keypad for direct access or code confirmation
- Light signalling (red if access is refused and green if authorised)
- Zamak front
- IP54 rating
- Power supply 12V (through VD4Lect or VDLect devices)
   H 183 mm x W 102 mm x D 17 mm (flush-mounted with flush box D 35 mm)
   H 183 mm x W 102 mm x D 52 mm (surface-mounted installation)

# PROXIMITY READERS 125 kHz



### **VD PROXIC**

125 kHz proximity card Reader REF 110.7400

- Dialog using Wiegand protocol
- . Light signalling (red if access is refused and green if authorised)
- Zamak front
- IP54 rating
- Power supply 12V (through VD4Lect or VDLect devices)
- H 183 mm x W 102 mm x D 17 mm (flush-mounted with flush box D 35 mm) H 183 mm x W 102 mm x D 52 mm (surface-mounted installation)



**LP31/C** 

125 kHz proximity card reader REF 910.0080

- Dialog using Wiegand protocol
  - . Light signalling (blue if powered up, red if
  - access refused and green if access authorised) Audible signal when reading a card and
- through a dry contact Digital output (open collector) reports reader
- being torn from the wall Power supply 12V (through VD4Lect or
- VDLect devices) H 99 mm x W 49,5 mm x D 22 mm (surface-mounted installation)



LP31/C AV

Vandal proof 125 kHz proximity card reader

REF 910.0081

- Dialog using Wiegand protocolVandal proof design
- Vandal proof design
   Light signalling (red if access refused and green if access authorised)
   Power supply 12V (through VD4Lect or
- VDLect devices)
- H 100 mm x W 45 mm x D 16 mm (surface-mounted installation)



# LP60 PROXIC

125 kHz proximity card reader REF 910.0096

- Dialog using Wiegand protocol
- Light signalling (blue if powered up, red if access refused and green if access authorised)
- Audible signal when reading a card and through a dry contact
- Digital output (open collector) reports reader being torn from the wall
- Power supply 12V (through VD4Lect or VDLect devices)
- H 80 mm x W 80 mm x D 19 mm (surfacemounted installation, developed for integration inside housing case diameter 60 mm)



BPC31/C

125 kHz proximity key-ring for LP31/C, LP31/C AV, VD PROX/C, LP60 PROX/C readers REF 910.0083



# **BP34/C**

125 kHz proximity ISO format card for LP31/C, LP31/C AV, VD PROX/C, LP60 PROX/C readers REF 910.0082



# MIFARE® PROXIMITY READERS 13.56 MHz



# VD MI/C

Serial number 13.56 MHz Mifare® proximity reader REF 110.7300

- Dialog using Wiegand protocol
- CPS3 compatible
- . Light signalling (red if access is refused and green if authorised)
- Zamak front
- IP54 rating
- Power supply 12V (through VD4Lect or VDLect devices)
- H 183 mm x W 102 mm x D 17 mm (flush-mounted with flush box D 35 mm) H 183 mm x W 102 mm x D 52 mm (surface-mounted installation)

### VD MIS/C

Sector 13.56 MHz Mifare® proximity reader

REF 110.7500



### LP32/C

Serial number 13.56 MHz Mifare® proximity reader REF 910.0084

- Dialog using Wiegand protocol
- CPS3 compatible
- Light signalling (blue if powered up, red if access refused and green if access authorised)
- Audible signal when reading a card and through a dry contact
- Digital output (open collector) reports reader being torn from the wall
- Power supply 12V (through VD4Lect or VDLect devices)
- H 99 mm x W 49.5 mm x D 22 mm (surface-mounted installation)

**LP32 MIS/C**Sector 13.56 MHz Mifare® proximity reader

REF 910.0095



### LP32/C AV

Vandal proof serial number 13.56 MHz Mifare® proximity reader REF 910.0085

- Dialog using Wiegand protocol
- CPS3 compatible
- Vandal proof design
- . Light signalling (red if access refused and green if access authorised)
- Power supply 12V (through VD4Lect or VDLect devices)
- H 100 mm x W 45 mm x D 16 mm (surfacemounted installation)

### LP32 MIS/C AV

Vandal proof sector 13.56 MHz Mifare® proximity reader REF 910.0100



### LP60 MI/C Serial number 13.56 MHz Mifare® proximity reader REF 910.0097

- Dialog using Wiegand Protocol
- CPS3 compatible
- · Light signalling (blue if powered up, red if access refused and green if access authorised)
- · Audible signal when reading a card and through a dry contact
- · Digital output (open collector) reports reader being torn from the wall
- Power supply 12V (through VD4Lect or VDLect devices)
- H 80 mm x W 80 mm x D 19 mm (surfacemounted installation, developed for integration inside housing case diameter 60 mm)

**LP60 MIS/C**Sector 13.56 MHz Mifare® proximity reader

REF 910.0098



**BPM34/C** Mifare® key-ring for LP32/C, LP32/C AV, VD MI/C, LP60 MI/C readers REF 910.0079



**BPM32/C**Mifare® card for LP32/C, LP32/C AV, VD
MI/C, LP60 MI/C readers REF 910.0086

# DESFIRE® 13.56 MHz MIFARE® PROXIMITY READERS



VD DES Desfire® 13.56 MHz Mifare® proximity REF 120.7000

- Wiegand protocol
- Integrates AES (Advanced Encryption Standard) encoding algorithm to secure the data transfer
- . Light signalling (Red if access is refused and green if authorised)
- Zamak frontIP54 rating
- Power supply 12V (through VD4Lect or VDLect devices)
- H 183 mm x W 102 mm x D 17 mm (flush-mounted with flush box D 35 mm) H 183 mm x W 102 mm x D 52 mm (surface-mounted installation)



**LP32 DES**Desfire® 13.56 MHz Mifare® proximity REF 910.0089

- Wiegand protocol
- Integrates AES (Advanced Encryption Standard) encoding algorithm to secure the data transfer
- . Light signalling (blue if powered up, red if access refused and green if access authorised)
- Audible signal when reading a card and through a dry contact
- Digital output (open collector) reports reader being torn from the wall
- Power supply 12V (through VD4Lect or VDLect devices)
- H 99 mm x W 49,5 mm x D 22 mm (surface-mounted installation)



**LP60 DES**Desfire® 13.56 MHz Mifare® proximity REF 910.0099

- Dialog using Wiegand protocol
- Integrates AES (Advanced Encryption) Standard) encoding algorithm to secure the data transfer
- . Light signalling (blue if powered up, red if access refused and green if access authorised)
- Audible signal when reading a card and through a dry contact
- Digital output (open collector) reports reader being torn from the wall
- Power supply 12V (through VD4Lect or VDLect devices)
- H 80 mm x W 80 mm x D 19 mm (surface-mounted installation, developed for integration inside housing case diameter 60 mm)



**DES ENCODER**Desfire® Mifare® Encoder with associated

# REF 120.9100

- Desfire® Personal cards and readers management software
- USB Encoder (USB cable provided)
- Software to manage transport keys, access keys and cards
- Software event log visualisation



### **BP32 DES**

Desfire® Mifare® card for LP32 DES, VD DES, LP60 DES readers REF 910.0087

# IP ACCESS CONTROL



# **BIOMETRIC READER**



**LB32/C** Fingerprints biometric reader REF 910.0093

- Fingerprints optical scanner
- Features 13.56 MHz proximity card reader and keypad
   Identification mode (biometric data stored in the reader)
- Authentication mode (biometric data stored in the card)
- Dual mode (authentication + code)
- Visitors management (card only)
   PC software (USB connection) for reader configuration, fingerprints acquisition, cards management...)
- Light signalling (blue, red, green LEDs)
- Digital output (open collector) reports reader being torn from the wall
- H 190 mm x W 70 mm x D 45 mm (surface-mounted installation)



Card for LB32/C REF 910.0094

# **3** 868 MHz RADIO LONG DISTANCE READER

In addition to the different reader technologies described here (125 kHz, Mifare® 13.56 MHz, Desfire®, biometric and 868 MHz radio long distance), CASTEL can also propose alternative solutions such as 2.45 GHz long distance technology to match any situation.



REF 910.0090

- Wiegand protocol
- ABS case
- Power supply 12V (through VD4Lect or VDLect devices)
- H 72 mm x W 61 mm x D 18 mm



Dual-technology remote control Mifare® and 868 MHz radio REF 910.0091

- 4 buttons remote control
- Transmit button codes to LR01/C reader
- Remote control equipped with 13.56 MHz Mifare® microchip
- Fireproof ABS VO case
- Lithium 3V battery
- H 72,2 mm x W 40 mm x D 14 mm

# **POWER SUPPLIES**



A24V-0A7-F 24VDC 1A power supply with output wire REF 110.9000



24VDC 2A power supply for Din rail (switch-mode) REF 110.9100



**A24V-3A-S**24VDC 3A power supply (uninterruptable using 2,1Ah battery) REF 440.4900-1

# **■** ENTRY STATIONS WITH ACCESS CONTROL READER

The IP convergence of the CASTEL product ranges provides a way to mix VDIP Evolution access control with the intercom product ranges (XELLIP and CAP IP) to offer a global integrated solution.



**XE D-V1B-PROXIC**Full IP/SIP audio video entry station with 1 call button and proximity reader 125 kHz RFF 510.3500

- Vandal proof conceptionReader 125 kHz and 2 leds
- (green: authorized access, red: refused access)

- Built-in colour video camera
   Zamac front panel
   1 call button and 3 leds for disability regulations
- IP65 rating
- PoE power supply (or optional external power supply: see p64) • H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

### XE D-V1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 510.3600

XE D-V1B-MIS/C Version with reader 13.56 MHz Mifare® sector

### REF 510.3700

## XE D-V1B-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF 510.3800



**XE D-1B-PROX/C**Full IP/SIP audio entry station with 1 call button and proximity reader 125 kHz RFF 510.3000

- Vandal proof conception
- Reader 125 kHz and 2 leds
- (green: authorized access, red: refused access) Zamac front panel
  1 call button and 3 leds for disability regulations

- IP65 rating

 PoE power supply
 (or optional external power supply: see p64)
 H 282 mm x W 110 mm x D 21 mm (flush-mounted with flush box D 47 mm) H 299 mm x W 118 mm x D 63,5 mm (surface-mounted with surface box)

### XF D-1B-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 510.3100

### XE D-1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 510.3200

### XE D-1B-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF **510.3300** 



## CAP IP-1B-PROX/C

Full IP/SIP audio entry station with 1 call button and 125 kHz proximity reader (disability regulations compliant) REF 560.6000

- Stainless steel 316 L vandal proof front
- 125 kHz reader with 2 LEDs
- (green: access authorised, red: access refused)
   1 call button with label
   3 LEDs (disability regulations)
   Integrated induction loop
   IP64 IK07 rating

PoE power supply
(or optional external power supply: see p64)
H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted installation)

## CAP IP-1B-MI/C

Version with reader 13.56 MHz Mifare® serial number

## CAP IP-1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

RFF 560.6200

### CAP IP-1B-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF 560.6300

## PAD IP VIDEO-PROXIC

Full IP/SIP audio video entry station with selectable list name and 125 kHz proximity reader (disability regulations compliant)
REF 560.7500

Stainless steel 316 L vandal proof front
 125 kHz reader with 2 LEDs
(green: access authorised, red: access refused)

- Built-in colour video camera
- 3 buttons to navigate the call numbers
   Graphic screen 128x64 with backlight
   3 LEDs (disability regulations) or display on screen
   Integrated induction loop
- IP64 IK07 rating

PoE power supply
(or optional external power supply: see p64)
H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted installation)

# PAD IP VIDEO-MI/C

Version with reader 13.56 MHz Mifare® serial number REF 560.7600

# PAD IP VIDEO-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 560.7700

# PAD IP VIDEO-DES

Version with reader 13.56 MHz Mifare® Desfire® REF 560.7800



## CAP IP-V1B-PROXIC

Full IP/SIP audio video entry station with 1 call button and 125 kHz proximity reader (disability regulations compliant) REF 560.6500

- Stainless steel 316 L vandal proof front
   125 kHz reader with 2 LEDs (green: access authorised, red: access refused)
- Built-in colour video camera
- 1 call button with label
- 3 LEDs (disability regulations)
   Integrated induction loop
   IP64 IK07 rating

- PoE power supply

(or optional external power supply: see p64)

• H 350 mm x W 135 mm x D 14,5 mm
(flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted installation)

CAP IP-V1B-MI/C Version with reader 13.56 MHz Mifare® serial number REF 560.6600

# CAP IP-V1B-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF 560.6700

### CAP IP-V1B-DES

Version with reader 13.56 MHz Mifare® Desfire®



PAD IP AUDIO-PROX/C
Full IP/SIP audio entry station with selectable list name and 125 kHz proximity reader (disability regulations compliant) REF **560.7000** 

- Stainless steel 316 L vandal proof front
- 125 kHz reader with 2 LEDs (green : access authorised, red: access refused)
- 3 buttons to navigate the call numbers
   Graphic screen 128x64 with backlight
- 3 LEDs (disability regulations) or display on screen
- Integrated induction loop
- IP64 IK07 rating
   PoE power supply (or optional external power supply : see p64)
- H 350 mm x W 135 mm x D 14,5 mm (flush-mounted with flush box D 40 mm) H 350 mm x W 135 mm x D 54,5 mm (surface-mounted installation)

# PAD IP AUDIO-MI/C

Version with reader 13.56 MHz Mifare® serial number REF **560.7100** 

# PAD IP AUDIO-MIS/C

Version with reader 13.56 MHz Mifare® sector

REF **560.7200** 

# PAD IP AUDIO-DES

Version with reader 13.56 MHz Mifare® Desfire®

REF 560.7300

# IP ACCESS CONTROL



# **→** APERIO®





Access control solution VDIP Evolution is compatible with Aperio® locking cylinders and door handles (Aperio® is a registered trademark of Assa Abloy group).

Aperio® is a new technology combining a Mifare® reader with an electric lock mechanism.

Wireless, the lock is connected to the VDUC Evo through a radio transmitter.

Easy to install, Aperio® provides additional ways to manage access doors with VDIP Evolution.

# **SERVERS**



# **VDIP SERVER**

Computer server hosting VDIP Evolution system for configuration and exploitation  $\ensuremath{\mathsf{REF}}\xspace$  110.0500

- Computer server hosting applications Castel Access, Castel Supervisor and Castel Configurator
- Material support on server at D+1 included
- Castel technical support contract available for 2 years to the final client (free the first year material warranty and service fee the second year)
- H 42,4 mm x W 434 mm x D 394 mm (rackable 1U black metallic case)



### VDIP CLIENT PC VDIP Evolution system operation PC REF 110.0600

- Client PC with preconfigured link to the VDIP Evolution Server and installed security strategy
- Material support on server at D+1 included
- Castel technical support contract available for 2 years to the final client (free the first year material warranty and service fee the second year)

# **SOFTWARES**



CASTEL ACCESS
Multi-client access control software
REF 110.8200

- Management of up to 1,000 VDUC Evo (45,000 cards and 200 access profiles per VDUC Evo)
- Hierarchical rights management
   Visitors management (visit notifications)
- Upload and download of card files or synchronisation with LDAP directories
- Entry lock, anti-pass back areas, anti-time back areas management
- Security features: black list, red list, constraint code, lost card, blocked card
- . List access entries by area with multi-criteria search



**CASTEL SUPERVISOR**Multi-client graphical monitoring software REF 110.8300

- Management of up to 10,000 alarm points with unlimited number of graphical views

- of graphical views

   Management of events, acknowledgements and alarm handling

   Type of alarms: communication, card blocked or lost, technical problem

   Alarms follow up through chronological event lists or using multi criteria search requests

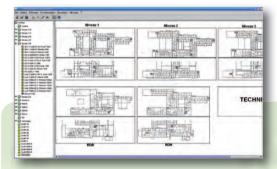
   Visible and audible signalisation

   Control of cameras, doors, entry locks or communications

   Display of live video stream inside the application using RTSP protocol on any kind of event

- on any kind of event

   Alarms handling by sending emails or SMS



CASTEL CONFIGURATOR
CASTEL Supervisor configuration software REF 110.8400

# IP ACCESS CONTROL



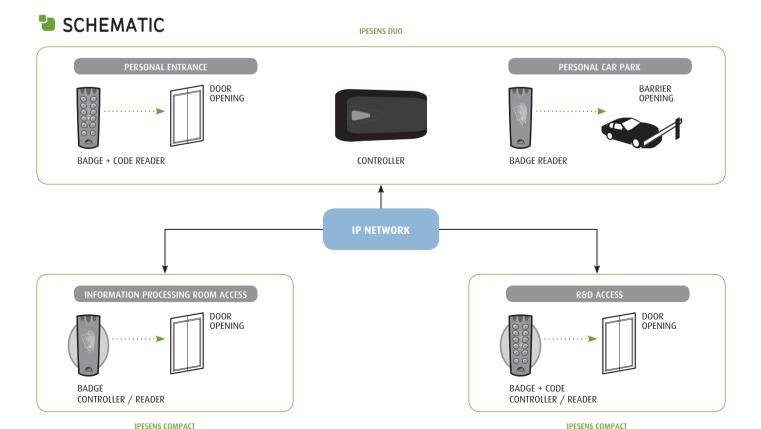
# ACCESS CONTROL SOLUTIONS PERFECTLY ADAPTED TO SMALL AND MID-SIZED COMPANIES

Thanks to these IP access control solutions, you can manage either 2 doors (IPESENS Duo) or 1 door (IPESENS Compact). They are very easy to use, reliable and offer a wide range of possible configurations.





- 5,000 badges / 100 groups / 5 administrator accounts / 20 timeslots / 20 bank holidays / 16 voice messages
- 2 entrance doors or 1 entrance/exit door
- Unlimited number of controllers
- 4 digital inputs (e.g.: 2 PB + 2 door contacts) 4 relays (2 door relays
- + 2 modular relays in option e.g.: broken door alarm, badge refused, lack of dialogue, etc.)
- Mail server (automatic dispatch of an alarm email after an event or for a pre-programmed report)
- PoE power supply





# A user-friendly web embedded server

No software to install, multi-user and simplified ergonomics. Database updates are easy via IP.

It allows remote control opening and real-time modification.

# A cost-saving solution

Uses existing IP network.

Less cabling: the intelligence is next to the door; near to the exit button, the door contact and the lock.

Events consultation and management, maintenance and checking of the equipment condition are all possible remotely.

# Higher security

IPESENS solution allows to authorise access by badge, code or badge + code (secure mode). It also allows duress code management and real-time badge cancellation.

# Disabled people accessibility

Both solutions, IPESENS Duo or IPESENS Compact controller, allow easier access for people with disabilities through signalling LEDs and voice messages.

# Range of readers

Proximity 13.56 MHz readers with or without keypad and voice messages.

# IPESENS Compact: an all-in-one IP solution

In one product it has all the functions of a controller and a reader managing access control.

- > Performance and easy to use:
- Capacity: 5,000 badges and/or 5,000 keypad codes / 100 groups
- 1 door contact
- Multi-user, administration via html page, timeslot / bank holiday management
- Badge and event back-up in case of power cut
- Remote event consultation



Web embedded server - readers management



Web embedded server - event management



Small and mid-sized companies, professionals, businesses, distribution chains, the hotel industry, office access, etc., and numerous other customised applications.



# FULL IP ACCESS **CONTROLLER**





### **IPESENS DUO**

2 doors access controller REF 150.0100

- Management of 2 badge readers
- Up to 5000 badges / 100 groups / 20 timeslots
- 2 relays to open doors
- 4 dry contacts (2 PB + 2 door contacts)
- Configuration through embedded web server (no software to install)
- Embedded mail client (to automatically dispatch alarm emails or report emails)
- PoE power supply (or optional external power supply: see p71)
- H 210 mm x W 145 mm x D 65 mm

### **OPTION 2EI2S**

2 relays and 2 dry contacts option REF 150.1000

- To connect to IPESENS DUO controller
- Management of 2 additional high impedance dry contacts
- Management of 2 configurable relays

# READERS



**L PROX DUO** 13.56 MHz proximity readers REF **150.7000** 

- Reader connected to IPSENS DUO controller
- Cabling with 2 polarised cables
   Up to 100 m maximum between the reader and the controller
- Power supply 12VDC (powered by the controller)
   H 176 mm x W 51 mm x D 25 mm
- (surface-mounted installation, developed for integration inside housing case diameter 60 mm)

PROX DUO AUDIO Exists with voice messages REF 150.7100



# L PROX DUO AUDIO CLAV 13.56 MHz proximity reader with keypad

and voice messages

REF 150.7200

- Reader connected to IPSENS DUO controller
- Handling of access badges and access codes
- . Cabling with 2 polarised cables
- Up to 100 m maximum between the reader and the controller
- Power supply 12VDC (powered by the controller)
- . H 176 mm x W 51 mm x D 25 mm (surface-mounted installation, developed for integration inside housing case diameter 60 mm)

# **PACK**







PACK IPESENS DUO
Access controller with 2 proximity readers REF 150.0500

- IPESENS DUO controller
- 2 13.56 MHz proximity readers
  50 13.56 MHz Mifare® badges
- PoE power supply

(or optional external power supply: see p71)

• H 210 mm x W 145 mm x D 65 mm

IP	Management of 1 or 2 doors	Embedded web server	Multi-profile	
Central wiring: RJ45 Reader wiring: 1 Pair 9/10	PoE (IEEE 802.3af)	Unlimited number of controllers	Multi-user	

# **□** FULL IP AUTONOMOUS ACCESS CONTROLLER



IPESENS COMPACT
IP Autonomous access controller / 13.56 MHz proximity reader REF 150.7500

- Management of 1 badge reader
- Up to de 5000 badges / 100 groups / 20 timeslots
- 1 relay to open the door
- . 2 dry contacts (1 inside button to release the door
- + 1 door status indicator)
- Configuration through embedded web server (No software to install)
- Embedded mail client (to automatically dispatch alarm emails or report emails)
- RJ45 connector
- 12-24V AC/DC power supply (see p71)
- H 176 mm x W 51 mm x D 25 mm

(surface-mounted installation, developed for integration inside housing case diameter 60 mm)

IPESENS COMPACT AUDIO
Exists with 13.56 MHz proximity reader and voice messages REF **150.7600** 



IPESENS COMPACT AUDIO CLAV
IP Autonomous access controller / 13.56 MHz proximity reader with keypad REF 150.7700

- Management of 1 badge reader with keypad
- Up to de 5000 badges / 100 groups / 20 timeslots
- 1 relay to open the door
- . 2 dry contacts (1 inside button to release the door
- + 1 door status indicator)
- Configuration through embedded web server (No software to install)
- Embedded mail client (to automatically dispatch) alarm emails or report emails)
- RJ45 connector
- 12-24V AC/DC power supply (see p71)
- H 176 mm x W 51 mm x D 25 mm

(surface-mounted installation, developed for integration inside housing case diameter 60 mm)

# **ACCESSORIES**



**IPESENS CLE** Mifare® key-ring for all IPESENS products REF 150.6100



# **IPESENS BADGE**

Mifare® badge for all IPESENS products REF 150.6000

# POWER SUPPLIES



**A24V-2A** 24VDC 2A power supply compatible with Din rail (switch-mode) REF 110.9100



**A24V-3A-S** 24VDC 3A power supply (uninterruptable using 2,1Ah battery) REF 440.4900-1

# **ACCESSORIES**



# **BRING YOU A GLOBAL SOLUTION**

Our main aim is to answer all specific requirements of your installation by bringing you a global solution. CASTEL can offer you multiple complementary accessories of its intercom and access control systems ranges.

### ACCESS CONTROL

- Push buttons
- Electromagnetic locks
- Electric door-opener
- Autonomous keypads
- Cameras for mineralogical plates
- Printers and software for badges personalisation
- Etc.

### INTRUSION

- Opening detectors
- Volumetric detectors
- Etc.

# VIDEO

- Monitors
- IP cameras
- Etc.

# AUDIO

- Digital audio recorders
- Headsets, microphones, loudspeakers
- Headsets for induction loop test
- Etc.

# TELEPHONY

- GSM to analog interface
- GSM to VOIP interface
- Etc.

# OTHERS

- Columns for call points
- Etc

Don't hesitate to consult us for more information about accessories.



# **INDEX**



DESIGNATION	REFERENCE	PAGE	DESIGNATION	REFERENCE	PAGE	DESIGNATION	REFERENCE	PAGE
A15V-0A4-F	496.1100	53	LP32/C AV	910.0085	62	PC2005 SX/AC	470.0000	50
A15V-0A4-J	440.7100	39-57	LP32 DES	910.0089	63	PC2005 SX/DC	470.2000	50
A24V-0A7-F A24V-0A7-J	110.9000	24-29-64 24	LP32 MIS/C LP32 MIS/C AV	910.0095	62 62	PC2010 5PH/5G PC2010 AX	470.7200	51
A24V-0A7-3 A24V-2A	540.6000 110.9100	24-29-39-57-64-71	LP60 DES	910.0100 910.0099	63	PC2010 AX	470.0300 470.3200	50 50
A24V-3A-S	440.4900-1	24-29-39-57-64-71	LP60 MI/C	910.0097	62	PC2010 SX/AC	470.0200	50
BGPH	210.0100	57	LP60 MIS/C	910.0098	62	PC2010 SX/DC	470.2200	50
BGPH D BGPH DM	230.0000 210.2000	57 57	LP60 PROX/C L PROX DUO	910.0096 150.7000	61 70	PC2015 AX PC2015 P AX	470.0400 470.1400	50 50
BGPH E	210.0200	57	L PROX DUO AUDIO	150.7100	70	PC2020 10PH/10G	470.7300	51
BGPH ENCASTRE	210.0000	57	L PROX DUO AUDIO CLAV		70	PC2020 AX	470.0500	50
BP32 DES BP34/C	910.0087 910.0082	63 61	LR01/C MA20W	910.0090 440.5300	64 52	PC2020 P AX PCX 10D AX	470.1500 475.5000	50 51
BPC31/C	910.0083	61	MAI	440.2700	32	PCX 10D DX	475.5500	51
BPM32/C	910.0086	62	MAYLIS SERVER	440.7000	39	PCX 10D P AX	475.6000	51
BPM34/C BPM35/C	910.0079 910.0094	62 64	MBGPH MC4L	440.5600 440.3600	35 37	PCX 10D P DX PCX II AX	475.6500 475.0100	51 52
BR01/C	910.0091	64	MC5D	475.2600	52	PCX II DX	475.0600	52
CAP IP-1B-P	560.0000	26	MC5T	490.0900	52	PCX II P AX	475.1100	52 52
CAP IP-1B-W CAP IP-1B-DES	560.1000 560.6300	26 28-65	MCB MCB8	440.3500 440.0900	37 37	PCX II P DX PI	475.1600 460.2000	52 52
CAP IP-1B-MI/C	560.6100	28-65	MCB-R	440.4400	37	PI 1BP 3A	460.1900	53 53
CAP IP-1B-MIS/C	560.6200	28-65	MCE	440.3700	37	PI 1BP 3A AV	460.2700	53
CAP IP-1B-PROX/C CAP IP-2B-P	560.6000 560.0100	28-65 26	MCE-R MDIRD	440.5400 490.0000	37 38-52	PI AV PI-D	460.2500 460.4000	53 53
CAP IP-2B-W	560.1100	26	MDIRS	490.0800	51	PI-D 1BP 3A	460.4100	53
CAP IP-3B-P	560.0200	26	MDS	440.4000	38	PI-D 1BP 3A AV	101.287	53 53
CAP IP-3B-W CAP IP-4B-P	560.1200 560.0300	26 27	MED MIRFO	440.2300-1 440.3800	32 38	PI-D AV PI-D VIDEO C	100.509	53 53
CAP IP-4B-W	560.1300	27	MIRFOL	440.3900	38	PIH AV	460.4500 460.2800	53
CAP IP-6B-P	560.0400	27	MKMED	440.3100	38	PRIT	650.4000	53 45
CAP IP-6B-W	560.1400	27	MKSP	440.2800	38-57	PRIT AVAIL	650.4100	45
CAP IP-10B-P CAP IP-10B-W	560.0500 560.1500	27 27	ML M025	440.4500 396.0000	38 52	PRIT AVNH PRIT AVNH V	650.4200 650.4600	45 45
CAP IP-V1B-P	560.2000	25	MOC	440.5100-1	38	PSD 2000	460.0000	53
CAP IP-V1B-W	560.3000	25	MOD 7 Z	220.1900	56	PSD 2000 S	460.0100	53 53
CAP IP-V1B-DES CAP IP-V1B-MI/C	560.6800 560.6600	28-65 28-65	MP MP CASI	440.2000-1 250.0000	32 56	PSD 2003 R2PCX	460.1000 490.0400	53 52
CAP IP-V1B-MIS/C	560.6700	28-65	MPE	440.2200-1	32	RACK EXT1	220.0900	56
CAP IP-V1B-PROX/C	560.6500	28-65	MPP	440.2100-1	32	RACK EXT2	220.1100	56
CAP IP-V2B-P CAP IP-V2B-W	560.2100 560.3100	25 25	MPP CASI MREP 0dB	250.0100 440.5500	56 37	REPORT TELPCX	220.1400 490.1700	56 52
CAP IP-V3B-P	560.2200	25	MRT	440.1800	39	TSI	210.3000	57
CAP IP-V3B-W	560.3200	25	MSB4	440.2400-1	33	VD 4LECT	130.0100	60
CAP IP-V4B-P CAP IP-V4B-W	560.2300 560.3300	25 25	MSC MSC GACHE	440.3000 100.117	35 35	VD 4S VD 8EI	110.1000 110.1100	60 60
CAP IP-V6B-P	560.2400	25	MSE1	440.1900-1	33	VD DES	120.7000	63
CAP IP-V6B-W	560.3400	25	MSE4	440.2600-1	33	VD DIGIC	110.7000	61
CAP IP-V10B-P CAP IP-V10B-W	560.2500 560.3500	25 25	MSK1 MSK1 AV-CELL	440.3300-1 100.366	36 37	VDIP CLIENT PC VDIP SERVER	110.0600 110.0500	66 66
CAPH 1B	660.0000	43	MSM	440.4300	38	VD LECT	110.1200	60
CAPH 1B CLAV	660.0600	44	MSP4	440.2500-1	33	VD MI/C	110.7300	62
CAPH 2B CAPH 2B CLAV	660.0100 660.0700	43 44	MSPI1 MSPI1 AV	440.0500 440.0600	33 33	VD MIS/C VD PROX/C	110.7500 110.7400	62 61
CAPH 3B	660.0200	43	MSPI1 AV-CELL1	100.346	36	VDUC Evo	130.0000	60
CAPH 4B	660.0300	43	MSPI1 AV-CELL2	101.166	36	XE CLAV-P	510.2500	21
CAPH 6B CAPH 10B	660.0400 660.0500	44 44	MSPI1 AV-CELL3 MSPI1 AV-HELP	101.257 and 101.263 101.284	36 36	XE CLAV-W XE CLAV-V-P	510.1500 510.2900	21 21
CAPH REP	660.9000	44	MSPI1 AV-LIAISON	100.349	37	XE CLAV-V-W	510.1900	21
CAPH V1B	660.6000	42	MSPI1 AVNH	440.1250	34	XE D-1B-P	520.2000	21
CAPH V1B CLAV CAPH V2B	660.6600 660.6100	43 42	MSPI1 AVNH V MSPI1H AV	440.1200 440.0700	34 34	XE D-1B-W XE D-1B-DES	520.1000 510.3300	21 22-65
CAPH V2B CLAV	660.6700	43	MSPI2 AV-HELP	101.278	36	XE D-1B-MI/C	510.3100	22-65
CAPH V3B	660.6200	42	MSPID1	440.1500-1	34	XE D-1B-MIS/C	510.3200	22-65
CAPH V4B CAPH V6B	660.6300 660.6400	42 42	MSPID1 AV MSPID1 VIDEO C	100.252 440.6500-1	34 35	XE D-1B-PROX/C XE D-3B-P	510.3000 510.2100	22-65 21
CAPH V10B	660.6500	42	MSPID2	440.1600-1	34	XE D-3B-W	510.1100	21
CASI	220.0000	56	MSPID2 AV	100.218	34	XE DESK-GRAPH-P	500.2000	20
CASTEL ACCESS CASTEL CONFIGURATOR	110.8200 R 110.8400	67 67	MSPID2 VIDEO C MSPID4	440.6600-1 440.1700-1	35 34	XE DESK-GRAPH-W XE DESK-SCREEN V-P	500.1000 500.2600	20 20
CASTEL SIP APPLICATION	N	24-29	MSPID4 AV	100.241	34	XE DESK-SCREEN V-W	500.1600	20
CASTEL SUPERVISOR	110.8300	24-29-39-56-67	MSPID4 VIDEO C	440.6700-1	35	XE D-V1B-P	520.2500	20
CASTEL VIDEO TOOLS COFR 3U	540.1500 220.1300	24 56	MT2 MT4E4	440.5200 440.4800	38 37	XE D-V1B-W XE D-V1B-DES	520.1500 510.3800	20 22-65
COMBD	490.3100	52	OPTION 2E/2S	150.1000	70	XE D-V1B-MI/C	510.3600	22-65
COMBINE PS COMBS	460.1500 490.3000	53 51	PACK IPESENS DUO PAD AUDIO	150.0500 650.2700	70 46	XE D-V1B-MIS/C XE D-V1B-PROX/C	510.3700 510.3500	22-65 22-65
CPPH	210.1000	57	PAD IP AUDIO-1B-P	560.4000	27	XE D-V3B-P	510.2600	20
DES ENCODER	120.9100	63	PAD IP AUDIO-1B-W	560.4500	27	XE D-V3B-W	510.1600	20
EXT PCX II	475.2100	52 57	PAD IP AUDIO-3B-P	560.4100	27 27	XE K-1B-CELL	101.274	23 22
GLA GLAD	240.0000 240.0100	57 57	PAD IP AUDIO-3B-W PAD IP AUDIO-CLAV-P	560.4600 560.4200	27	XE K-1B-P XE K-1B-W	540.5200 540.5100	22
HP10	396.3000	52	PAD IP AUDIO-CLAV-W	560.4700	27	XE K-V1B-P	540.5700	22
IE1A	460.5000	53 51	PAD IP AUDIO-DES	560.7300	28-65	XE K-V1B-W	540.5600	22
IG 2000 INDUCTION LOOP	470.9000 540.3100	51 24-38-45	PAD IP AUDIO-MI/C PAD IP AUDIO-MIS/C	560.7100 560.7200	28-65 28-65	XE MED-P XE MED-W	540.4000 540.4100	20 20
IP MAYLIS	440.5700	39	PAD IP AUDIO-PROX/C	560.7000	28-65	XE P-1B-CELL1	101.270	23
IPESENS BADGE	150.6000	71 71	PAD IP VIDEO-1B-P	560.5000 560.5500	26 26	XE P-1B-CELL2 XE P-1B-CELL3	101.271	23 23
IPESENS CLE IPESENS COMPACT	150.6100 150.7500	71 71	PAD IP VIDEO-1B-W PAD IP VIDEO-3B-P	560.5100	26 26	XE P-1B-UELL3	101.272 and 101.273 101.277	23 22
IPESENS COMPACT AUDIO	150.7600	71	PAD IP VIDEO-3B-W	560.5600	26	XE P-1B LIAISON	101.275	23
IPESENS COMPACT AUDIO CL		71 70	PAD IP VIDEO-CLAV-P	560.5200 560.5700	26 26	XE P-1B-P	530.2000	21
IPESENS DUO IPS2	150.0100 650.1000	70 46	PAD IP VIDEO-CLAV-W PAD IP VIDEO-DES	560.5700 560.7800	26 28-65	XE P-1B-W XE P-2B-HELP	530.1000 101.276	21 22
IPS2 8T8L	650.1500	46	PAD IP VIDEO-MI/C	560.7600	28-65	XE SEL-3B-P	510.2200	21
IPS2 T IPS 8L	650.1300 650.1400	46 46	PAD IP VIDEO-MIS/C PAD IP VIDEO-PROX/C	560.7700 560.7500	28-65 28-65	XE SEL-3B-W XE SEL-V3B-P	510.1200 510.2700	21 20
IPS 8L IPS H	650.1200	46 46	PAD IP VIDEO-PROX/C	650.2900	28-65 46	XE SEL-V3B-W	510.2700	20 20
LB32/C	910.0093	64	PC2001 1PH/1G	470.7000	50	XEKMED	540.4400	24
LOG PCX LOCKS - APERIO	490.0100	52 66	PC2002 DX PC2002 P DX	470.5100 470.6100	50 50	XELLIP MEDIA XELLIP ROUTEUR	540.1000 540.0000	24 23
LP31/C	910.0080	61	PC2002 P DX PC2005 3PH/2G	470.7100	50 51	XELLIP ROUTEUR XELLIP SERVEUR MAX	540.0100	23
LP31/C AV	910.0081	61	PC2005 AX	470.0100	50	XELLIP TRANSFER	540.2000	24
LP32/C	910.0084	62	PC2005 P SX/DC	470.3000	50	I		











COMMUNICATION AND SECURITY

Z.I. SAINT-LAMBERT-DES-LEVÉES 49412 SAUMUR CEDEX - FRANCE Tel. +33 2 41 40 41 40 - Fax. +33 2 41 40 41 49 www.castel.fr

