



# IP access control

A GLOBAL SOLUTION  
FOR BUILDING SECURITY

**vdip** Evolution  
ACCESS CONTROL OVER IP

This simple to use, modular, scalable and high performance solution VDIP Evolution responds to all issues relating to access control, supervision, intrusion detection, time programming, planning and intercom over IP.

SCHEMATIC  
(SEE PAGE 93)



- Access control for up to 45,000 badges and 250 user profiles per VDU Evo module
- Intrusion detection for up to 10,000 alarm points
- Supervision of alarms and counters (unlimited charts)
- Time programming (lighting, door unlocking, intrusion, etc.)
- Audio video IP intercom (convergence with Maylis, CAP IP and XELLIP ranges)
- Planning and room booking
- Hypervision (CCTV, intrusion detection, industrial automation...)



## Main applications

Tertiary and industrial sites, hospital centres, retirement homes, laboratories, hotels, banks and insurance companies, exhibition centres, office access, car parks, fold-away city terminals, high-rise buildings, public buildings, ports, public authorities, military sites, prisons... , and many other customised applications.

## Main benefits

### A scalable and multi-market solution

Dedicated to many different environments: industrial, tertiary industry, military, institutional, hospital, etc., solution works equally well for environments with several dozen reading points as well as those with more modest requirements.

The wide range of equipment (readers, keypads, intercoms with reader...) associated with a complete software suite allows to meet different needs.

### A multi-station solution

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.

### A user-friendly and open solution

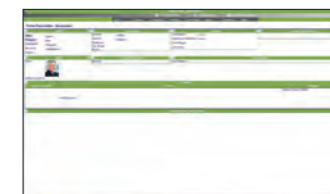
The software is engineered to be compatible with all types of users. The system has a simple and user-friendly interface designed for easy learning and use. It also has a multilingual interface.

As it uses an open and non-proprietary database, the solution allows an interfacing (webservices) and synchronization with your own bases and directories.

### A multi-site and multi-company solution

Based exclusively on an IP network connection, VDIP Evolution allows for inter-site feedback thanks to independent management units on every site.

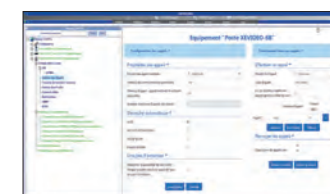
Unlimited reader and point capacity. Different companies can also use the system thanks to access profiles. Finally, as the system is autonomous, it works even if the network is down.



CASTEL Access: high performance access control (up to 1,000 VDU Evo modules (45,000 badges and 250 user profiles per module), 10 time slots per profile, 5 types of public holiday)



CASTEL Supervisor: dynamic alarm supervision (up to 10,000 alarm points and unlimited synoptic diagrams)



CASTEL Server: easy configuration and remote maintenance

IP	Wiegand protocol	Biometric, long distance, radio, multi-technology, LPR, Bluetooth	Maylis, CAP IP and XELLIP intercom compatible	Access Control Software	Multi-site Multi-station
RS 485 RS 232 IP	Proximity readers: 13.56 MHz Mifare, Desfire	Aperio compatible	Secured web architecture	Supervision Software	Planning Hypervision







# IP access control



Mobile access control  
via Bluetooth Smartphone



Castel Vision hypervision software



Planning and booking software

## A multi-technology and high performance solution

VDIP Evolution is an open system and can work with all types of technologies: proximity cards (Mifare® and Desfire® 13.56 MHz, hospital cards, CIMS, Agent cards), long distance, UHF, dual-technology (long distance + proximity), biometric, license plate recognition (LPR), Bluetooth.

For an easier exploitation, a single staff account is supporting different types of ID (physical card, virtual card, access code...).

Moreover, the system is compatible with different standard protocols on the market (Wiegand, RS485, Aperio, etc.).

## A complete access control, planning-booking and hypervision solution

In addition to its access control expertise, Castel offers additional solutions completely integrated into the VDIP Evolution solution.

The Castel Vision hypervision solution was developed together with Prysm and allows a full integration of third-party security systems and building management systems with open architecture: CCTV, intrusion detection, industrial automation...

Castel also has a partnership with Jesplan, in order to offer new solutions to public authorities, for the management of their sports, administrative, cultural and leisure facilities.

The developments carried out by the R&D teams of both companies allows a native interfacing of VDIP Evolution and Planitech solutions in order to have a full solution for access control, planning and rooms booking.

## ANSSI architecture type 1 compliant solution

Castel and its partner Stid solution, combines a high security reader & decoder that allow confidentiality and integrity of communications between reader and the access control system.

RS485 TR decoder is used to make reader and system communication direct and transparent (compliant to ANSSI architecture n°1).

Security parameters are deported to safe area. Then decoder converts secured communication to Wiegand or Data/Clock format, and transmits clear data to the system device located in a secured room. Reader contains no key and security is guaranteed across the chain.

## 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)
- > Case in ABS
- > H 210 mm x W 145 mm x D 65 mm

### VDUC EVO PLAN

Programmable Logic Controller (PLC) over IP and compatible with Planitech  
REF 130.1000

### 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 readers
- > 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
- > H 210 mm x W 145 mm x D 65 mm

### VD 4LECT PLAN

VDIP device to connect up to 4 readers, 8 dry contacts and 4 relays and compatible with Planitech  
REF 130.1100

### 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 reader
- > Possible installation of keypad in parallel for confirmation code
- > Management of 2 dry contacts
- > Management of 1 relay
- > Power Supply 15 to 30V
- > H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)

### VD LECT PLAN

VDIP device to connect 1 reader, 2 dry contacts and 1 relay and compatible with Planitech  
REF 130.1200



### 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
- > H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)

### VD 8EI PLAN

VDIP device to connect 8 impedance dry contacts and compatible with Planitech  
REF 130.1300



### 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
- > H 108 mm x W 71 mm x D 33 mm (mounting on rail D 45 mm)

### VD 4S PLAN

VDIP device to connect 4 relays and compatible with Planitech  
REF 130.1400







## KEYPAD



### VD DIGIC

Wiegand 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)



### CLAVIER WIEGAND BRAILLE

Wiegand keypad, keys with Braille  
REF **330.0100**

- > Keypad for direct access
- > Large backlit keys with Braille diameter 16 mm (blue)
- > Light signalling and buzzer
- > Stainless steel vandal proof front panel
- > Flush mounted
- > Power supply 12V (through VD4Lect or VDLect devices)
- > H 135 mm x W 100 mm x D 2,5 mm (flush-mounted with flush box D 40 mm)
- > H 140 mm x W 105 mm x D 60 mm (surfacemounted with optional surface box REF 330.0150)



### MI ENROLEUR

USB enrolment device for Castel serial number 13.56 MHz Mifare® proximity cards  
REF **120.9300**

### MIS ENCODER

Sector 13.56 MHz Mifare® enrolment / encoder device with associated software  
REF **120.9400**



### BPM34/C

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

## MIFARE® 13,56 MHZ PROXIMITY READERS



### 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)



### 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 58B MSB

Serial number 58B MSB 13.56 MHz Mifare® proximity reader  
REF **910.0102**

### LP32/C 58B LSB

Serial number 58B LSB 13.56 MHz Mifare® proximity reader  
REF **910.0108**

### VD MIS/C

Sector 13.56 MHz Mifare® proximity reader  
REF **110.7500**

### VD MI/C 58B MSB

Serial number 58B MSB 13.56 MHz Mifare® proximity reader  
REF **110.7600**

### VD MI/C 58B LSB

Serial number 58B LSB 13.56 MHz Mifare® proximity reader  
REF **110.7610**



### 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 (surface-mounted installation)



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

### LP60 MIS/C

Sector 13.56 MHz Mifare® proximity reader  
REF **910.0098**

### LP60 MI/C 58B MSB

Serial number 58B MSB 13.56 MHz Mifare® proximity reader  
REF **910.0104**

### LP60 MI/C 58B LSB

Serial number 58B LSB 13.56 MHz Mifare® proximity reader  
REF **910.0109**

## MIFARE® DESFIRE® 13,56 MHZ PROXIMITY READERS



### VD DES

Mifare® Desfire® 13.56 MHz proximity reader  
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 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)



### LP32 DES

Mifare® Desfire® 13.56 MHz proximity reader  
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

Mifare® Desfire® 13.56 MHz proximity reader  
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 (surfacemounted installation, developed for integration inside housing case diameter 60 mm)



### DES ENCODER

Mifare® Desfire® Encoder with associated software  
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



### BP34 DES

Mifare® Desfire® key-ring for LP32 DES, VD DES, LP60 DES readers  
REF **910.0092**



### BP32 DES

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



# IP access control

## 13,56 MHZ EVOLVING PROXIMITY READERS (MIFARE® SERIAL NUMBER, MIFARE® SECTOR AND MIFARE® DESFIRE®)



### LP ARC ONE EVO

13,56 MHz ARC ONE evolving and programmable reader (Mifare® serial number, Mifare® sector and Mifare® Desfire®)

REF 910.0145

- > 13,56 MHz compact proximity card reader specially designed for rooms requiring small footprint
- > Evolutive : Mifare® serial number, Mifare® sector & Mifare® Desfire®
- > Upgradable with the programming kit
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer
- > IP65 - IK10 rating
- > External power supply 10 to 15 V
- > H 110 mm x W 42 mm x D 22 mm
- > H 110 mm x L 42 mm x P 22 mm



### LP ARC EVO

13,56 MHz ARC evolving and programmable reader (Mifare® serial number, Mifare® sector and Mifare® Desfire®)

REF 910.0146

- > 13,56 MHz proximity card reader
- > Evolutive : Mifare® serial number, Mifare® sector & Mifare® Desfire®
- > Upgradable with the programming kit
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer
- > IP65 - IK10 rating
- > External power supply 7 to 28 V
- > H 107 mm x W 80 mm x D 26 mm



### LP ARC EVO CLAV

13,56 MHz ARC evolving and programmable reader with keypad (Mifare® serial number, Mifare® sector and Mifare® Desfire®)

REF 910.0147

- > 13,56 MHz proximity card reader
- > Sensitive keypad
- > Evolutive : Mifare® serial number, Mifare® sector & Mifare® Desfire®
- > Upgradable with the programming kit
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer
- > IP65 - IK08 rating
- > External power supply 7 to 28 V
- > H 107 mm x W 80 mm x D 26 mm

## MIFARE® 13,56 MHZ AND BLUETOOTH READERS



### LPBT 23

Mifare® 13,56 MHz and Bluetooth reader

REF 910.0133

- > 13,56 MHz proximity cards & Bluetooth reader (virtual card on smartphone)
- > 5 authentication modes (card, remote, slide, hands-free, tap tap)
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer
- > IP65 - IK10 rating
- > External power supply 7 to 28 V
- > H 107 mm x W 80 mm x D 26 mm



### LPBT 23 CLAV

Mifare® 13,56 MHz and Bluetooth reader

REF 910.0148

- > 13,56 MHz proximity cards & Bluetooth reader (virtual card on smartphone)
- > 5 authentication modes (card, remote, slide, hands-free, tap tap)
- > Sensitive keypad
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer
- > IP65 - IK08 rating
- > External power supply 7 to 28 V
- > H 107 mm x W 80 mm x D 26 mm



### KIT DE PROGRAMMATION BLUETOOTH

Configuration kit (including software) for Bluetooth readers

REF 910.0205

- > Users badge management (13,56 MHz proximity cards & virtual cards)
- > Reader configuration cards creation
- > Security keys and configuration management
- > Smart and ergonomic software interface
- > Local and offline programming



### ENROLEUR USB BLUETOOTH

USB enrolment device for 13.56 MHz Mifare® proximity cards and Bluetooth

REF 120.9500

### CREDIT BLUE

STID Mobil ID virtual cards for offline use

REF 910.0206

### CREDIT BLUE ONL

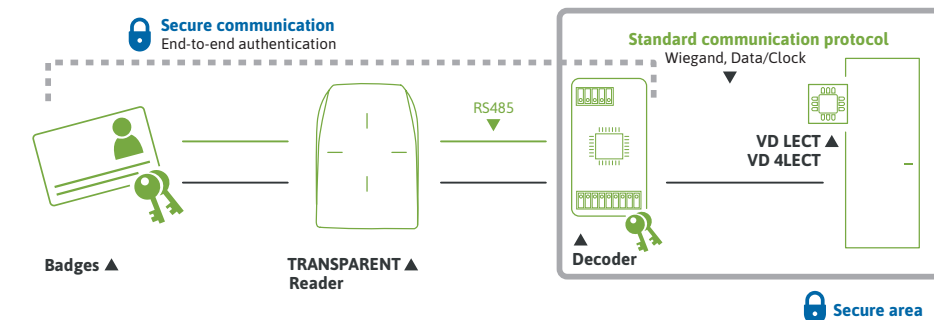
STID Mobil ID virtual cards for online use

REF 910.0207

## 13,56 MHZ MIFARE® DESFIRE® HIGH SECURITY PROXIMITY READERS ANSSI ARCHITECTURE 1 COMPLIANT

High security reader & decoder pack allows confidentiality and integrity of communications between reader and the access control system.

RS485 TR decoder is used to make reader and system communication direct and transparent (compliant to ANSSI architecture n°1). Security parameters are deported to safe area. Then decoder converts secured communication to Wiegand or Data/Clock format, and transmits clear data to the system device located in a secured room. Reader contains no keys and security is guaranteed across the chain.



### LP26 TR

13,56 MHz Mifare® Desfire® EV1 transparent reader - ANSSI compliant

REF 910.0125

- > Transparent connection using RS485 protocol
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer with possibility to delete security keys
- > IP65 - IK10 rating
- > Powered via decoder module
- > H 107 mm x W 80 mm x D 26 mm



### LP27 TR

13,56 MHz Mifare® Desfire® EV1 transparent reader with keypad - ANSSI compliant

REF 910.0126

- > Transparent connection using RS485 protocol
- > Sensitive keypad
- > Light signal (2 programmable leds)
- > Audio signal (built in buzzer)
- > Pulling out detection using accelerometer with possibility to delete security keys
- > IP65 - IK08 rating
- > Powered via decoder module
- > H 107 mm x W 80 mm x D 26 mm



### DÉCODEUR RS485 TR HAUTE SÉCURITÉ

RS485 Wiegand mode transparent decoder

REF 910.0204

- > Connects to RS485 transparent reader
- > Secured keys storage with AES 128-bit encryption
- > SAM software (same as CSPN certified reader)
- > Supports standard and specific diversification methods (AGENT, CIMS cards...)
- > External power supply 7 to 28 V
- > Compatible with LP26 TR and LP27 TR readers
- > H 93 mm x W 45 mm (PCB only)
- > H 97 mm x W 49 mm x D 34 mm (PCB with mounting kit)



### KIT DE PROGRAMMATION

Configuration kit (including software) for transparent reader

REF 910.0205

- > Users tags and cards management
- > Reader configuration cards creation
- > Security keys and configuration management
- > Smart and ergonomic software interface
- > 100% local sandboxed programming

### KIT LP26 DEC TR

LP26 TR reader + RS485 Wiegand transparent mode decoder kit

REF 910.0127

### KIT LP27 DEC TR

LP27 TR reader + RS485 Wiegand transparent mode decoder kit

REF 910.0128







# IP access control

## BIOMETRIC AND MIFARE® 13,56 MHZ READERS



### LB32/C

Fingerprints biometric reader

REF 910.0093

- > Fingerprints optical scanner
- > Features 13.56 MHz proximity card reader
- > Authentication mode (biometric data stored in the card)
- > Visitors management (card only)
- > Light signalling (blue, red, green leds)
- > 24V power supply
- > H 190 mm x W 70 mm x D 45 mm (surface-mounted installation)



### ENCODEUR BIO USB

USB biometric encoder for LB32/C reader

REF 910.0200

- > Management of fingerprint templates encoding on the card
- > Acquisition and registration on the card made during the same process (no database: Data Privacy Authority compliant)
- > PC connection (via USB): with CASTEL ACCESS, management of fingerprints acquisition, cards management...
- > USB power supply
- > H 174 mm x W 100 mm x D 147 mm (with desktop base)

## BIOMETRIC AND MIFARE® DESFIRE® 13,56 MHZ READERS



### LECT BIO DES

Fingerprints biometric 13,56 MHz Mifare® Desfire® EV1 reader

REF 910.0170

- > 13,56 MHz proximity cards reader
- > Authentication mode (biometric data stored in cards)
- > Pulling out detection using accelerometer
- > IP65 rating
- > 12V power supply (from VD4Lect or VDLect devices)
- > H 156 mm x W 80 mm x D 60 mm

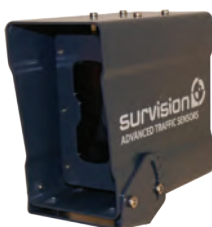
### KIT DE PROGRAMMATION BIO

Configuration kit (including software) for high security cards and fingertips USB reader

REF 910.0180

- > Users tag and cards management
- > Reader configuration cards creation
- > Biometric reading
- > Smart and ergonomic software interface

## LICENSE PLATE RECOGNITION (LPR)



### LECT LAPI ESSENTIA

License plate automated recognition system - French license plate only

REF 910.0320

- > LPR camera included
- > French license plate only
- > Using Wiegand protocol
- > IP67 rating aluminium casing
- > Up to 15m reading range
- > IR lighting system
- > 24V power supply (3 m cable), support and mounting kit included
- > H 130 mm x W 70 mm x D 115 mm



### LECT LAPI PLUS

License plate automated recognition system - All type of license plate

REF 910.0330

- > LPR camera included
- > All type of license plate
- > Using Wiegand protocol
- > IP67 rating aluminium casing
- > Up to 15m reading range
- > IR lighting system
- > 24V power supply (3 m cable), support and mounting kit included
- > H 130 mm x W 70 mm x D 115 mm

## BADGE-INSERTION READERS



### LECTEUR AVALEUR MI/C

13,56 MHz Mifare® serial number badge-insertion reader

REF 910.0114

- > Using Wiegand protocol
- > Anti-vandal design
- > Light signals (blue: power, green: access granted, red: access refused)
- > 2 commands for engines: front / rear ejection
- > 24V power supply
- > H 250mm x W 150mm x D 250mm

### LECTEUR AVALEUR MIS/C

13,56 MHz Mifare® sector badge-insertion reader

REF 910.0115

### LECTEUR AVALEUR DES

13,56 MHz Mifare® Desfire badge-insertion reader

REF 910.0116

## 868 MHZ RADIO LONG DISTANCE READER



### LR01/C

868 MHz radio card reader

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



### BR01/C

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

### BR01/DES

Mifare® Desfire® and 868 MHz bi-technology radio remote

REF 910.0124

### ANTENNE LR01/C

Antenna for LR01/C

REF 910.0117

## UHF 868 MHZ LONG DISTANCE READERS



### LECTEUR UHF SPECTRE

UHF long range reader

REF 910.0149

- > Ranged and automated vehicles identification
- > Controls up to 4 lines simultaneously
- > Reader supports up to 4 antenna
- > Max reading range 13 m
- > Antenna made of ABS and polycarbonate / aluminium casing reader
- > Mounting kit included
- > IP66 - IK10 rating
- > 12V power supply
- > H 348,7 mm x W 279,2 mm x D 45,1 / 83,6 mm



### BADGE UHF TELETAG

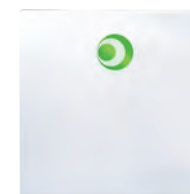
UHF Teletag passive batteryless badge for vehicles

REF 910.0131

### ETIQUETTE UHF

UHF stickers for vehicles (96.5 mm x 22.2 mm x 0.36 mm)

REF 910.0134



### LECTEUR UHF GAT NANO

UHF long range reader

REF 910.0135

- > hands-free access control reader
- > Max reading distance up to 3 m
- > Anti-vandal white PVC reader
- > surface mounting kit included
- > IP65 rating
- > 12V or 24V 1A power supply
- > H 208,2 mm x W 218,7 mm x D 35,7 mm

### BADGE UHF MIFARE

UHF + Mifare® 1k badge

REF 910.0123



## INTERCOMS WITH ACCESS CONTROL BLUETOOTH READER XELLIP RANGE

CASTEL has developed intercoms with built in readers associating the latest Mifare® contactless chip technology and a Bluetooth authentication using smartphones.

This solution integrates virtual access cards in smartphones, improving the access control security as well as feeling more instinctive.

Your smartphone becomes the access key, giving up the traditional access control constraints.

Starting up is fairly simple, swiping one of the three included configuration cards in front of the reader. Those three configuration cards allow you to select one of the three different modes according to your needs.



### CARD MODE:

By placing your smartphone in front of the reader.



### TAP TAP MODE:

By tapping your smartphone twice in your pocket for near or remote opening.



### HANDS-FREE MODE:

By simply passing in front of the reader.



### XE VIDEO 1B BLE

Audio video Full IP/SIP entry station with 1 call button and Bluetooth reader DDA compliant  
REF **590.6900**

- > Stainless steel 316 L vandal proof front panel
- > Bluetooth reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 1 call button and backlighting label
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

### XE AUDIO 1B BLE

Audio 1 call button and Bluetooth reader version  
REF **590.6400**



### XE VIDEO 2B BLE

Audio video Full IP/SIP entry station with 2 call buttons and Bluetooth reader DDA compliant  
REF **590.6000**

- > Stainless steel 316 L vandal proof front panel
- > Bluetooth reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 2 call buttons and backlighting labels
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

### XE AUDIO 2B BLE

Audio 2 call buttons and Bluetooth reader version  
REF **590.5500**



### XE PAD VIDEO BLE

Audio video Full IP/SIP entry station with names scrolling and Bluetooth reader DDA compliant  
REF **590.7900**

- > Stainless steel 316 L vandal proof front panel
- > Bluetooth reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 3 keys for names scrolling
- > 2,8 inch TFT 240x320 colour screen
- > 3 pictograms for DDA compliance displayed on screen
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

### XE PAD AUDIO BLE

Audio with names scrolling and Bluetooth reader version  
REF **590.7400**

## INTERCOMS WITH BUILT IN ACCESS CONTROL READER XELLIP RANGE



### XE VIDEO 1B MI/C

Audio video Full IP/SIP entry station with 1 call button and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.6600**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 1 call button and backlighting label
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

### XE VIDEO 1B MIS/C

13.56 MHz Mifare® sector reader version  
REF **590.6700**

### XE VIDEO 1B DES

13.56 MHz Mifare® Desfire® reader version  
REF **590.6800**



### XE AUDIO 1B MI/C

Audio Full IP/SIP entry station with 1 call button and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.6100**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > Full Duplex 10 W communications
- > 1 call button and backlighting label
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

### XE AUDIO 1B MIS/C

13.56 MHz Mifare® sector reader version  
REF **590.6200**

### XE AUDIO 1B DES

13.56 MHz Mifare® Desfire® reader version  
REF **590.6300**



### XE VIDEO 2B MI/C

Audio video Full IP/SIP entry station with 2 call buttons and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.5900**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 2 call buttons and backlighting labels
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)



### XE AUDIO 2B MI/C

Audio Full IP/SIP entry station with 2 call buttons and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.5400**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > Full Duplex 10 W communications
- > 2 call buttons and backlighting labels
- > 3 leds DDA compliant
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)





## INTERCOMS WITH BUILT IN ACCESS CONTROL READER

### XELLIP RANGE



#### XE PAD VIDEO MI/C

Audio video Full IP/SIP entry station with names scrolling and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.7600**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > HD colour video camera - Wide angle 170° (ONVIF)
- > Full Duplex 10 W communications
- > 3 keys for names scrolling
- > 2,8 inch TFT 240x320 colour screen
- > 3 pictograms for DDA compliance displayed on screen
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

#### XE PAD VIDEO MIS/C

13.56 MHz Mifare® sector reader version  
REF **590.7700**

#### XE PAD VIDEO DES

13.56 MHz Mifare® Desfire® reader version  
REF **590.7800**



#### XE PAD AUDIO MI/C

Audio Full IP/SIP entry station with names scrolling and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **590.7100**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > Full Duplex 10 W communications
- > 3 keys for names scrolling
- > 2,8 inch TFT 240x320 colour screen
- > 3 pictograms for DDA compliance displayed on screen
- > Integrated induction loop
- > IP65 - IK08 rating
- > 2 RJ45 (switch function), USB port, RS485 bus, 2 inputs, 2 relays
- > PoE power supply (or optional external power supply)
- > H 375 mm x W 145 mm x D 2 mm (flush-mounted with flush box D 61 mm)
- > H 375 mm x W 145 mm x D 63 mm (surface-mounted)

#### XE PAD AUDIO MIS/C

13.56 MHz Mifare® sector reader version  
REF **590.7200**

#### XE PAD AUDIO DES

13.56 MHz Mifare® Desfire® reader version  
REF **590.7300**

## INTERCOMS WITH BUILT IN KEYPAD AND ACCESS CONTROL READER PAD IP RANGE



#### PAD IP VIDEO-CLAV-MI/C

Audio video Full IP/SIP entry station with names scrolling, keypad and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **560.7610**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > Numerical keypad for direct dial and access code buttons with Braille
- > Built-in colour video camera
- > 3 keys for names scrolling
- > Graphic display 128x64 backlighting
- > 3 leds for DDA compliance (or displayed on screen)
- > Integrated induction loop
- > IP64 - IK07 rating
- > PoE power supply (or optional external power supply)
- > H 432 mm x W 140 mm x D 2 mm (in wall mounting with backing D 54,5 mm)
- > H 432 mm x W 140 mm x D 54,5 mm (surface mounting)

#### PAD IP VIDEO-CLAV-MIS/C

13.56 MHz Mifare® sector reader version  
REF **560.7710**

#### PAD IP VIDEO-CLAV-DES

13.56 MHz Mifare® Desfire® reader version  
REF **560.7810**



#### PAD IP AUDIO-CLAV-MI/C

Audio Full IP/SIP entry station with names scrolling, keypad and 13.56 MHz Mifare® serial number reader DDA compliant  
REF **560.7110**

- > Stainless steel 316 L vandal proof front panel
- > 13.56 MHz Mifare® serial number reader and 2 leds (green : access granted, red : access refused)
- > Numerical keypad for direct dial and access code buttons with Braille
- > 3 keys for names scrolling
- > Graphic display 128x64 backlighting
- > 3 leds for DDA compliance (or displayed on screen)
- > Integrated induction loop
- > IP64 - IK07 rating
- > PoE power supply (or optional external power supply)
- > H 432 mm x W 140 mm x D 2 mm (in wall mounting with backing D 54,5 mm)
- > H 432 mm x W 140 mm x D 54,5 mm (surface mounting)

#### PAD IP AUDIO-CLAV-MIS/C

13.56 MHz Mifare® sector reader version  
REF **560.7210**

#### PAD IP AUDIO-CLAV-DES

13.56 MHz Mifare® Desfire® reader version  
REF **560.7310**

## 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.



#### APERIO H100 DROITE

H100 Aperio® on rose electronic handle with Mifare® reader (right opening)  
REF **180.1170**

#### APERIO H100 GAUCHE

H100 Aperio® on rose electronic handle with Mifare® reader (left opening)  
REF **180.1171**



#### APERIO BEQ SANS HUB

Aperio® online door handle: electrical lock system with Mifare® reader - Standard door handle French Euro profile E100 with door thickness 40/50  
REF **180.9100**



#### APERIO BEQ CODE SANS HUB

Aperio® online door handle: electrical lock system with Mifare® reader + keypad - Standard door handle French Euro profile E100 with door thickness 40/50  
REF **180.9102**



#### APERIO SER SANS HUB

Aperio® electromechanical lock with door handle and Mifare® reader - European profile L100 with door thickness 40/50  
REF **180.9400**



#### APERIO CYL SANS HUB

Aperio® online cylinder: electrical lock system with Mifare® reader - Stainless steel double knob cylinder C100 length 30/30  
REF **180.9200**



#### HUB 1/8

Aperio® 1/8 HUB  
REF **180.9801**



#### ANTENNE EXTERNE APERIO

External antenna for communication 1/8 hub  
REF **180.9501**

#### APERIO LOG

Software tool to setup and configure Aperio® devices/ hubs (radio communication USB dongle included)  
REF **180.9900**

#### EMBOUT POIGNEE H100

U shape ending for H100 handles  
REF **180.9512**

#### ROSACE H100 CYL EUR

H100 European cylinder rose  
REF **180.9513**

#### APERIO OUTIL CYL V3

V3 cylinder tool  
REF **180.9503**



## SERVERS



### SERVEUR VDIP

Server hosting VDIP Evolution system for configuration and exploitation  
REF 110.0500

- > 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)

### PC SERVEUR VDIP

PC server hosting VDIP Evolution system for configuration and exploitation  
REF 110.0700



### PC CLIENT VDIP

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 VDUK Evo (45,000 cards and 250 access profiles per VDUK 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
- > 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
- > Alarms handling by sending emails or SMS

### CASTEL CONFIGURATOR

CASTEL Supervisor configuration software  
REF 110.8400



### PLANITECH CONNECT

VDIP/Planitech interface license  
REF 191.1000

Connecting VDIP Evolution access control solution to Planitech planning-booking solution



### PRYSM CONNECT

VDIP/Castel Vision interface license  
REF 190.5000

Connecting VDIP Evolution access control solution to Castel Vision hypervision solution

## ACCESSORIES AND POWER SUPPLIES



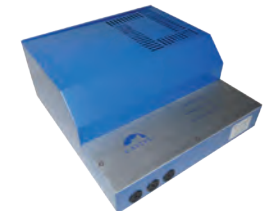
### A24V-0A7-F

24VDC 1A power supply with output wire  
REF 110.9000



### A24V-2A

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

### CEINTURE 375

Stainless-steel belt for big XE units (H 375 mm)  
REF 590.9300

### VISIÈRE 375

Rain shield for big XE units (H 375 mm)  
REF 590.9500

### KIT GRIFFES GM XE2

Plasterboard mounting kit for big XE units (H 375 mm)  
REF 590.9650

### COFFRET VDIP

Factory precabled aluminium case locked with key - 24V 10A power supply (back up batteries not included) DIN rail mount - cables coming from top - Dimensions 800 x 800 x 25 mm  
REF 101912

## SCHEMATIC

