

## PRESENTATION

**Product references: 500.1600 (WIFI) - 500.2600 - 500.4600 (Handset + WIFI) - 500.5600 (Handset)**

The XELLIP master station is integrated in a complete and powerful Full IP multimedia system. It is native SIP, and includes the following features (depending on the version):

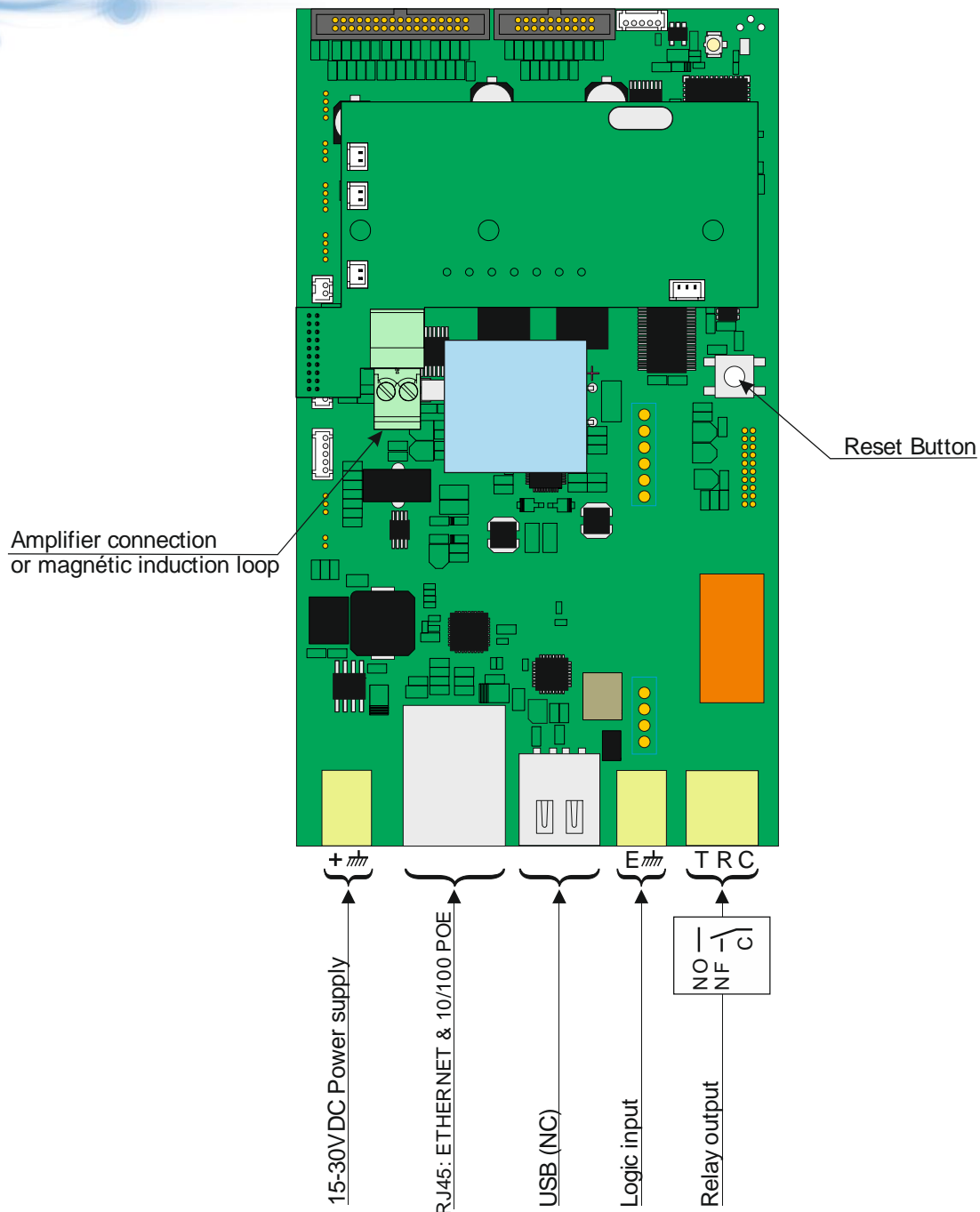
- Set-up of Audio / Video over IP communication
- Register on SIP Server (up to three servers)
- Manages a 12-Key keypad and special keys (picking up the line, ending the call, dictionary, on-hold)
- Manages 1 to 4 configurable buttons
- Manages a 4.3" TFT touch screen
- Manages an input « all or nothing »
- Manages a single-pole dry contact to control a keeper or other organ
- Compliant with the French law about "disabled accessibility": in the absence of accesses direct vision by personnel, intercom devices allow to view the visitor
- Manages the profiles according to the time
- Manages its advanced automation interfaces (logical relations and schedules)
- Provides H264 video stream for recording or monitoring
- Perform auto tests automatically or on demand
- Update by TFTP (*Trivial File Transfer Protocol*)
- Integrate SNMP protocol (*Simple Network Management Protocol*)
- Integrate VLAN
- Secure the Ethernet network by using the 802.1X protocol (*RADIUS*)
- Backup on power failure
- POE (*Power Over Ethernet*)
- Handset (in option) with an integrated induction loop for hard of hearing people
- WIFI (option)
- It can be configured, monitored and operated from any browser with its embedded web server



## VERSIONS

- In the standard version, the master station with TFT display includes audio and video functions (sending and receiving) and POE (Power over Ethernet) : XE DESK-SCREENV-P
- A version with a handset is also available: XE HANDSET-SCREENV-P
- A version with WIFI is also available: XE DESK-SCREENV-W
- A version with handset and WIFI is also available: XE HANDSET-SCREENV-W

## CONNECTION



### Connecting the power supply

A 15-30V power supply is required.

Note: The station can be powered by the POE network

### Connecting the IP network

The connection is made by Ethernet 10/100 Mbits RJ45.

### Connecting the relay outputs

The connection is made using a 3-point terminal that provides the "Contact (C) / Rest (R) / Office (W)" interface.

If you use one of these relay outputs to control a 12, 24 or 48V AC or DC latch, connect an unpolarised 58V diode in parallel with the dry contact between C and W or C and R depending on the use (diode included).

### Connecting the input

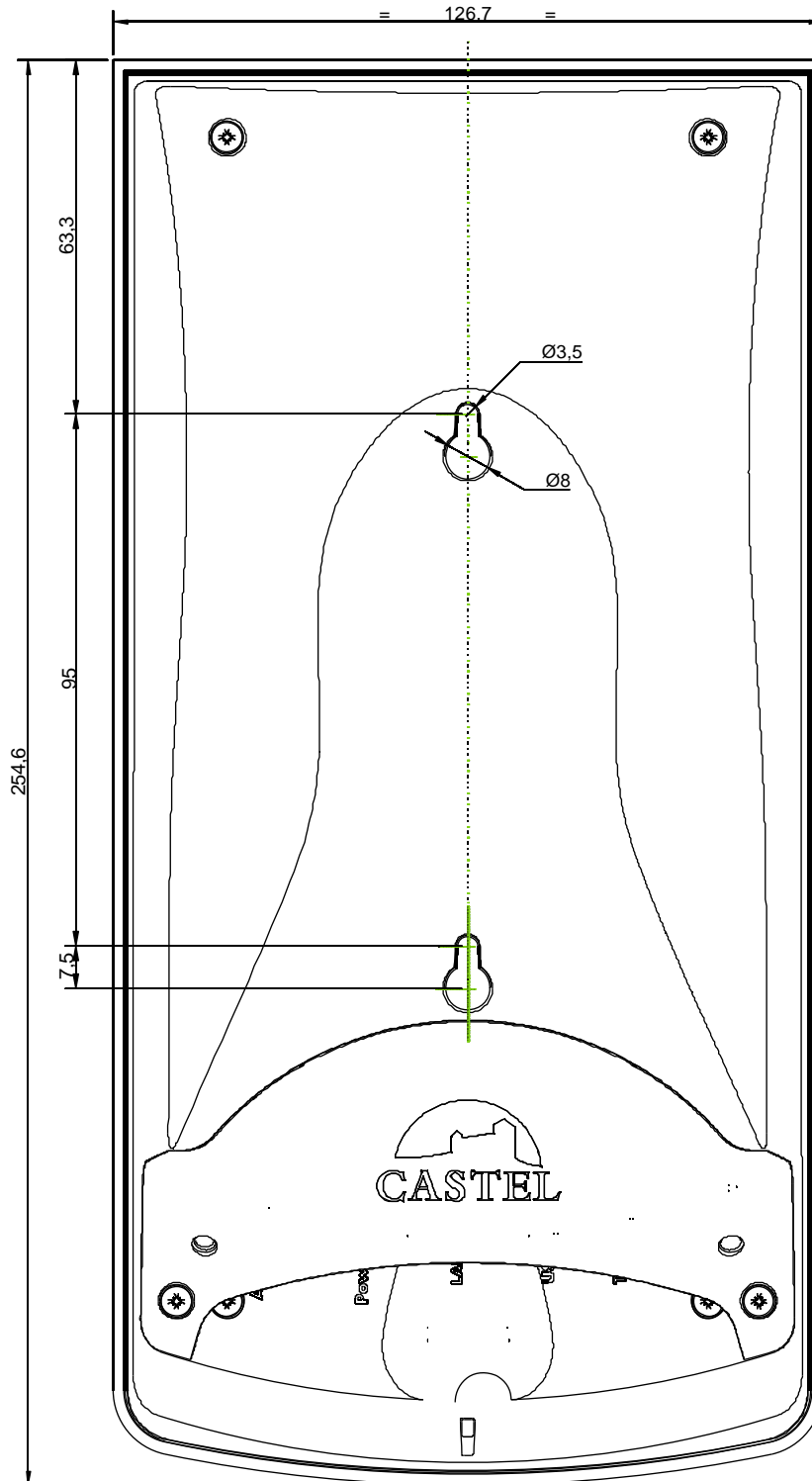
An input TOR allows the connection of a dry contact (do not apply power) to be activated, the input must be pulled to ground.

Contact can be deported to 1km.

## INSTALLATION

### Wall installation:

- Hang the case with 2 screws with a 3.5 max diam.



## USE

### IP address of the station

Each station must have its own IP address on the network. This address will be given by the network server (DHCP addressing) or manually configured. This addressing can be configured from a computer via the web server station.

**Please note that the station is delivered by default with a DHCP address. If no DHCP server is present, then the station will take a fixed IP address of domain IP4All: 169.254.xx.xx. The IP address of station will be found by the application CastellIPSearch or using CASTELServer. When the IP address can't be found, press the "reset" button when the station is running to set it to 192.168.49.251.**

### Access to the web server of the station

To connect to the web server of the station, you have to use a web browser as Firefox, Chrome or Internet Explorer. Open your web browser from any computer on the network and enter: [https://IP\\_ADDRESS\\_STATION](https://IP_ADDRESS_STATION). You will be directly connected by your station web page. You will just have to insert your login (by default: admin) and your password (by default: admin) for the access of the web server functions.



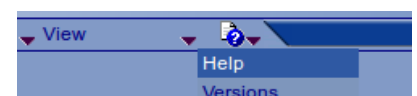
The screenshot shows the XELLIP web interface for a station named 'Poste Xellip TFT'. The interface includes a navigation menu on the left and a main content area with several sections:

- Station informations:**
  - Name of the station: Poste Xellip TFT
  - Ethernet IP address: 192.168.49.55
  - MAC address: 00:0E:AF:40:09:99
  - SIP configuration: Connection mode: Server, Extension number: s2\_222
- Station versions:**
  - Kind of station: XEDESK-SCREENV-P
  - Software version: 2.5.0 (20130214\_17h17)
  - Hardware version: 1770
- Station status:**
  - Global state: Normal
  - User connected: No user logged
  - Current profile: Profil 1
  - Media states: Communication state: Idle
  - Local interfaces:
    - Input [Entrée (TFT-MS2)]: Inactive
    - Output [Sortie (TFT-MS2)]: Off
    - Display: Normal
    - Keyboard: Normal
  - FIFOs content:
    - General FIFO: 2045
    - Readers FIFO: 0

Web server provides information on the station and how to configure it.

To have all the functions, go on to display/full display.

Online help is accessible from any menu gives information on the various functions of the web server.



## FUNCTIONS

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The master station was designed to communicate, via IP network, with other stations in the range of intercom IP (XELLIP, CAPIP...), with a softphone, a SIP phone, or any other devices compatible with the SIP standard.

### General functions of the master station

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- Configure a network connection
- Configure a SIP account
- Set the date and time manually or via a NTP server
- Manage audio and video communication
  - ↳ Set a priority level on the station
  - ↳ Set a time-out call and communication
  - ↳ Automatic answer with and without delay
  - ↳ Activate the privacy mode on the automatic answer
- Manage the display screen to personalize the home message or the delay for the screen saver...
- Manage the keyboard to set the delay before to lock...

### Audio interface functions

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- Set the loud-speaker and microphone volume
- Set the type of communication (full duplex / half duplex)
- Set the level of ambient noise reduction
- Configure the RTP port number
- Validate/Cancel audio codec
- Set tones and ringtones
- Configure DTMF commands for example to control the local relay
- Configure the noise detection
- Switch to simplex using a DTMF command:
  - ↳ '\*' switch to listen
  - ↳ '#' switch to speak
  - ↳ '0' go back to the normal mode

### Video interface functions

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- Configure the RTP port number
- Validate/Cancel video codec
- Configure the bandwidth

### Programmable buttons functions

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Each button is programmable and allows:

- Make a call from 1 to 10 stations simultaneous or temporized
- Control the local relay, the station relay in communication
- Send a DTMF code
- Activate a call forwarding
- Activate a call transfer
- On master station with a handset: Switch from the handset to free hand
- On master station without handset: Switch to the headset with or without the ringing to the station
- Others functions like: enable the mode "do not disturb", "lock the keyboard"...

### Functions of the input interface

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- Configure the input of type STATE or COUNTER
- Configure the active state of the input (open or closed)
- Configure a timer for acknowledging a change in state (bounce-free function)
- Inhibit the input

### Functions of the output interface

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The relay output interface is programmable, and can be used to:

- Configure the type of output relay: monostable, bistable or flashing
- Configure the type of contact: Normally Open / Normally Closed
- Control the On/Off output
- Control the Force Open / Closed output
- Configure time settings of the output

## Functions of the logical input (or flags)

Logical input allows 2 kinds of functionality:

- Create a logic from which it will be possible to condition actions in relations
- Create a counter which will be updated as events and depending on the value of this counter start one or more actions if required.

## Logical relations configuration

**The web server is the start point to configure automatism also called relations.**

There is two kinds of relations:

- Schedule: can start actions on identified time slots. There is 3 priority levels for a schedule relation (high, medium, small)
- Logical :
  - ↳ Logical condition: can start actions depending on the status. A logical relation can be integrated by some operator as AND, OR, NOT, XOR. In the same way, a logical relation can start several actions.
  - ↳ Numerical condition: can perform actions by comparing the value of a counter with various thresholds. It is also possible to add or subtract counter values and compare the results.

## Configuration of the user of the web server (software users)

The web server allows granting, modifying or deleting privileges to users by specifying their login, password and operating language.

## Configuration of the call users

The web server allows creating, importing or deleting user phone which is attributed a profile. Therefore a user can log into the station via a user name and password then activate his profile on the station.

## Configuration of the profiles

It's possible to create modify or delete functional profile of the station. Each profile specify a priority of the station, a configuration of the buttons functions, a configuration of the directory (black list/white list) and security right of station. The station can operate with a single profile or various profiles according to time slots or according to a user log on the station.

## Configuration of the phone book

It is possible to create, modify or delete entries in the phone book of the station.

It is possible to create entries for single calls or for multiple calls.

## Configuration of the local access

The station can be used to control the access.

- ↳ Programmation of 1 to 15000 access codes with 1 to 20 numbers.
- ↳ Programmation of action(s) linked to the access authorization or access refused using logical relations
- ↳ Taking into account of time slot
- ↳ A message on the screen allows visualizing the authorisation or the refused of the access.

## Administration management SNMP

The station includes an agent SNMP (Simple Network Management Protocol) to respond to SNMP requests and to send notifications (traps) to a SNMP manager.

From web pages, you can:

- ✓ Configure different community (read / write)
- ✓ Configure system data ("sysContact" and "sysLocation")
- ✓ Configure notifications (recipient, community ...)
- ✓ Download "MIB Castel"

It supports SNMPv1 and SNMPv2c versions.

## Autotest functions

The station has several tests to validate its functioning:

- ✓ Autotest "Micro and speaker": to test the remote operation of speakers and microphone. From the page "Advanced Settings", it is possible to adjust levels of the test following the installation environment. This test can be triggered from the web server or an SNMP command. The test result is visible through the history of the web server and an SNMP notification.
- ✓ Autotest "keys": the detection of a blocked mechanical button (contact for over 20s) is indicated by an SNMP notification and an event is reported in the history of the web server.

## Backup and restoration of the system parameter

It is possible to backup and restore the complete configuration of the station (configuration, profiles, logical relations, phone book...)

**It is possible to restore the factory parameters by pressing 10s the button reset when the station is starting.**

## Update by TFTP

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Updating software with TFTP can be very useful when several stations must be updated.

The station is looking forward a TFTP server which provides the available software release. If the station is concerned by this update, it downloads it and flashes it independently.

The updating software takes place most of the time when the software release on the server is newer than the one installed on the station.

It is possible to force an updating process to a specific release of the TFTP server.

The TFTP server can request the stations to reset the current configuration, so the data partition is cleared.

It is possible to configure the station to detect a new release when the station is starting or cyclically.

## Backup on power failure

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When a power failure occurs, the station must be able to backup the following:

- ✓ Counter values
- ✓ History
- ✓ Secured events (these events are defined in CASTELServerur)
- ✓ The states of interfaces

## Historic function

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The historic allows to visualize the events occurred on the station. Informations displayed are the date and time, the events and a small description.



## TECHNICAL SPECIFICATIONS

### Compliance with European standards

- Security rules according to norm EN 60950
- CEM transmission according to norm EN 55022 class B
- CEM immunity according to norm EN 55024

### Mechanical properties

- Protection IP40 degree according to EN 60529
- ABS case with wall suspension
- Case dimensions: H 255mm x L 127mm x Ep. 47 mm
- Weight : 550g
- ZAMAC base
- Dimensions with base: H 255 x L 127mm x P 155mm.
- Total weight: 1kg

### General electrical properties

- Protection class 3 against electric shocks according to EN 60950.
- Storage temperature: -20° / +70°C.
- Operating temperature: 0 à +50°C.
- Power supply: 15VDC (15V à 30V).
- Consumption: 15V/150mA off and 15V/200mA on

### Button

- Speed acquisition: 5Hz (200ms)

### Input

- 1 protected and filtered TOR input
- Speed acquisition: 5Hz (200ms)

### Output

- Voltage free relay output
- 42.4 Vac/60 Vdc/5A/150VA relay cut power
- Maximum frequency is 5 Hz (Minimum commutation time: 200ms)

### Display screen

- TFT colour touch screen 4.3"

### Camera

- CMOS 1/6" 640\*480

### Audio Codec

- G711 Ulaw/Alaw
- GSM
- G722

### Video Codec

- Video format CIF/QCIF
- H263
- H263-1998
- H264

### DTMF

- RFC-2833
- SIP INFO

### Ethernet network 10/100 Mbit

- IP static or DHCP
- POE class 2, conforms with IEEE 802.3af standard
- In option: Wi-Fi wireless network in conformity with IEEE 802.11b/g standard
- Secure Ethernet connection using the 802.1X protocol (Radius)
- SNMP V1 & V2c

### Handset (in option)

- Induction loop for hard of hearing people



#### Environmental protection:

Dispose of this product in compliance with environmental preservation regulations.