CHORUS

GEWISS

CE

TOUCH PANEL 7"

GWA9007CB

Programming manual

CONTENTS

AIM OF THIS PUBLICATION

This manual provides the information needed to configure the panel and associate the various indoor/outdoor video intercom positions.

It is therefore aimed at the installer.

TECHNICAL DATASHEET

Technical data	
PROCESSOR	MT8127A/B 1.3GHz Quad Core Cortex-A7
RAM	2GB DDR3L SDRAM
FLASH MEMORY	8GBeMMC
POWER SUPPLY	12V-24V DC
	PoE (802.3af)
POWER SUPPLY ABSORPTION	< 13W
COMMAND ELEMENTS	1 on/off button
INPUTS	1 4-pole extractable screw terminal for:
	- auxiliary power supply (marked with + and - Vdc)
	- auxiliary input (marked with 1 and 2)
	Maximum cable section: 2.5 mm^2

LCD	DIMENSIONS:	7" TFT
	RESOLUTION:	1024 x 600
	VIEWING ANGLE:	80° from the left, 80° from the right, 60° from above, 70° from below
	LIFESPAN:	20000 h
	CONTRAST:	800:1
	LIGHT INTENSITY:	340 [cd/m^2]

TOUCH	Capacitive (5-point multi-touch)
VIDEO CAMERA	2M Pixel FF
	Video compression H.264
AUDIO	1 omnidirectional microphone
	2 speakers
	Support for echo cancellation for two-way conversations
	Audio compression G.711
INTERFACES	1 RJ45 Ethernet network 10/100 Mbit/s (PoE)
	1 slot for micro SD
	1 micro USB port
RADIO CONNECTION	Wi-Fi IEEE 802.11 a/b/g/n (2.4GHz/5GHz)
OPERATING TEMPERATURE	-5 to +45°C
STORAGE TEMPERATURE	-25 to +55°C
DEGREE OF PROTECTION	IP20
DIMENSIONS (L x H x D)	196 x 128 x 19.3 mm
REGULATORY REFERENCES	RoHS 2011/65/EU + 2015/863/EU

Gewiss declares that the radio article GW9007CB complies with Directive 2014/53/EU. The complete text of the EU declaration is available at the following Internet address: www.gewiss.com.

DRAWING AND LAYOUT
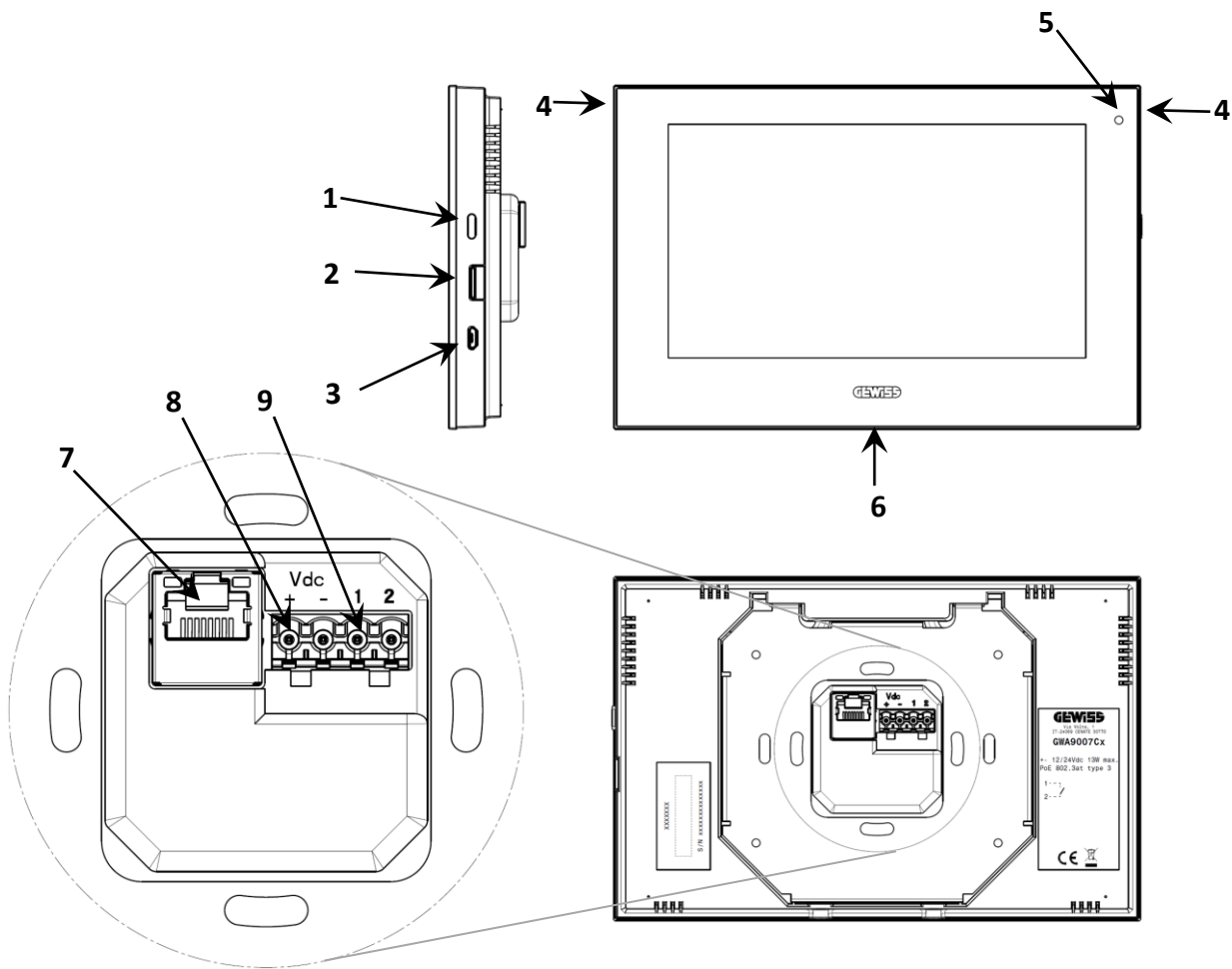
Key	
1	Local on/off push-button
2	Slot for micro-SD card
3	Micro USB socket-outlet
4	Loudspeakers
5	Camera
6	Microphone
7	RJ45 Ethernet socket-outlet
8	Auxiliary power supply terminals 12 - 24 Vdc (marked with + and - Vdc)
9	Terminals for potential free auxiliary input (marked with 1 and 2)

GENERAL DESCRIPTION

The Gewiss 7" touch screen panel is a device that can be used as:

- an indoor IP video intercom position integrated in the IP video intercom system with the VoIP standard (example 2N)
- a control panel (command and supervision) for all the functions of the Gewiss Smart Home system
- an indoor IP VoIP video intercom position and control panel for the Gewiss Smart Home functions

The touch screen panel has a 7" colour display and is connected to the video intercom network and the Gewiss Smart Home network via a LAN.

In order to control the Gewiss Smart Home functions, the system must include the Smart Gateway and an Internet connection is also required.

The touch screen panel is white.

ACRONYMS AND DEFINITIONS

VoIP:	Technology that enables a conversation (just like one made via telephone) to be held using a connection based on the IP protocol
VoIP SIP enclosure:	Physical device that performs the functions of a VoIP enclosure with the SIP standard
KNX:	Standard communication protocol for HA&BA applications
LAN:	Local Area Network
VEIM or IM:	Video Entryphone Indoor Monitor
PoE:	Acronym of Power over Ethernet - a technique for powering devices using the same cable that connects them to the Ethernet data network
VEOS or OS:	Video Entryphone Outdoor Station
Zigbee:	Wireless standard communication protocol

FUNCTIONS OF THE 7'' PANEL

Video intercom:
- Answer calls from the associated outdoor positions
- Launch communication with an outdoor position
- Open the gate associated with an outdoor position*
- Switch on the lights associated with an outdoor position*
- Activate the video camera of the outdoor position (if there is no call)
- Launch communication with an indoor position (of the same apartment and/or another apartment)
- For each outdoor position, up to 5 push-buttons can be configured to control gates, lights, openings, associated relays (relay on the outdoor position or web relays used to fulfil this function)

Domotics:
- Control of the domotic system via the Smart Gateway app

* For each outdoor position, up to 5 push-buttons can be configured to control gates, lights, openings, associated relays (relay on the outdoor position or web relays used to fulfil this function).
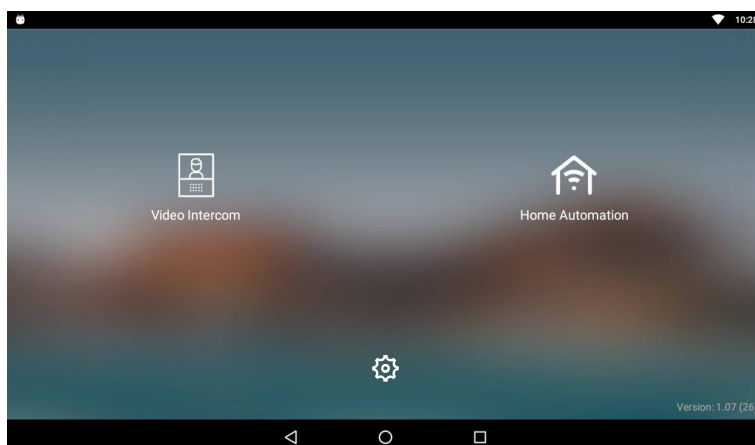
HOME PAGE

This is the panel home page:

There are three pre-installed icons with the following functions:

   Opens the video intercom control app

   Opens the Smart Home app

   Opens the Settings menu

ARCHITECTURE OF THE VIDEO INTERCOM SYSTEM

All the architecture described in this document can be created in the following ways:

- **Without using a VoIP SIP enclosure**

  - Max 50 apartments
  - Max 2 PIs per apartment (if more PIs are needed, contact Gewiss Customer Service)
  - Max 5 VEOS (if more VEOS are needed, contact Gewiss Customer Service)
  - Configuration of the device IP: allocation of a static IP (calls between the VEIM and VEOS, or between VEIMs, are made via direct calls using the IP addresses of the devices)
  - IP video intercom network: a single network for all the devices (same IP network class)

- **Using a VoIP SIP enclosure** (to be connected to the same LAN as the video intercom system). The use of the enclosure **allows the above limits to be exceeded** and also offers the following advantages:

  - PI: any SIP device on the market can be used
  - The video intercom call can also be forwarded to any device of the public telephone network; this function requires a condominium Internet connection with VoIP subscription (a paid service that allows the VoIP call to be forwarded on a PSTN telephone network)
  - Offices: the possibility to combine the video intercom network with the telephone enclosure so that all the telephone devices of the network can be used as PIs and receive calls from the PE
  - Configuration operations are more simple and flexible: to associate the VEIMs with the VEOS, and to define the associations between VEIMs that must be able to call each other (intercom)
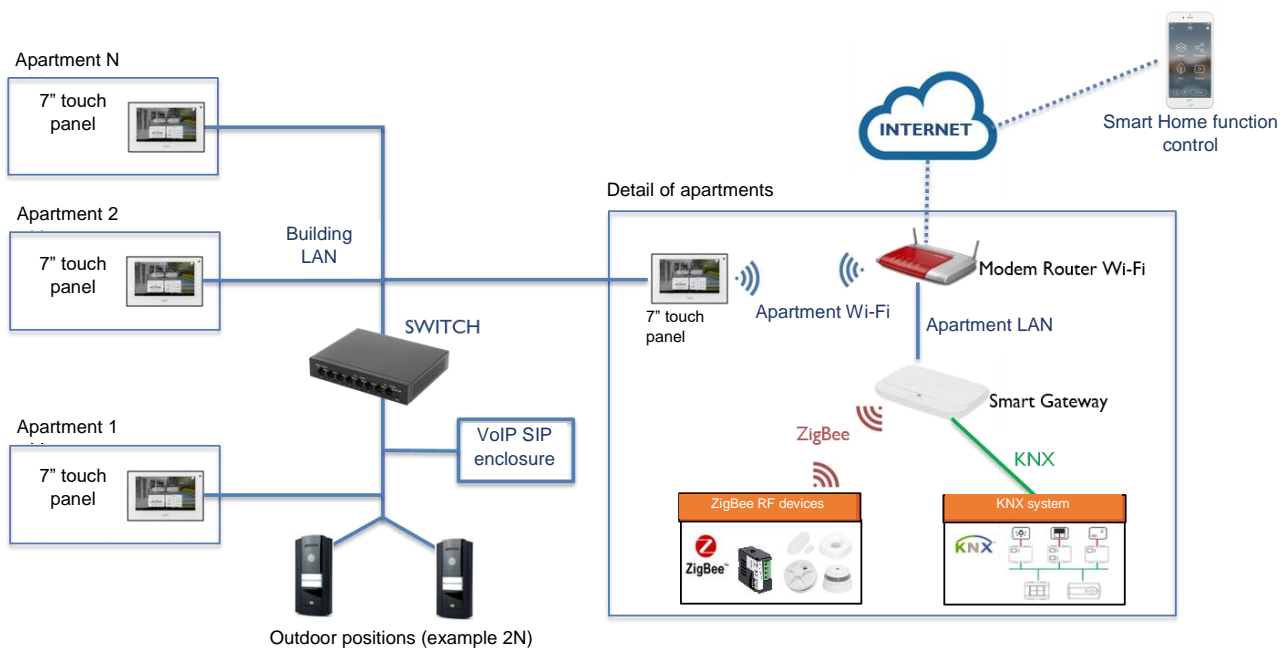
Architecture 1: condominiums and multi-family houses with video intercom without a local VoIP SIP enclosure and possibly domotics

NB:
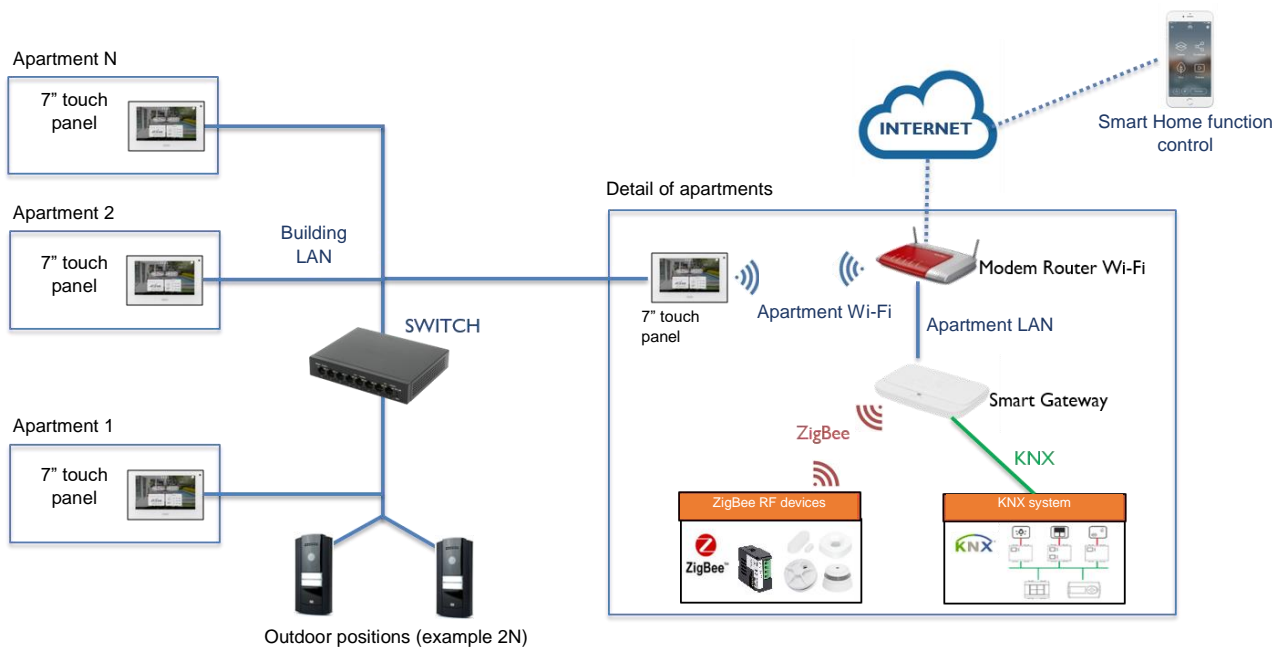
- 7" touch panel: must be connected
  - to the condominium LAN via an Ethernet socket-outlet with static IP addressing for the video intercom
  - to the apartment LAN via a Wi-Fi connection if you want to control the Smart Home system too

- Smart Gateway: can be connected to the apartment LAN via a Wi-Fi or Ethernet connection

- If additional indoor video intercom positions are needed in an apartment: two touch panels can be installed

Architecture 2: condominiums and multi-family houses with video intercom with a local VoIP SIP enclosure and possibly domotics

Apartment N

7" touch panel

Apartment 2

7" touch panel

Building LAN

SWITCH

VoIP SIP enclosure

Apartment 1

7" touch panel

Outdoor positions (example 2N)

Detail of apartments

INTERNET

Smart Home function control

7" touch panel

Apartment Wi-Fi

Modem Router Wi-Fi

Apartment LAN

Smart Gateway

ZigBee

KNX

ZigBee RF devices

KNX system

NB:

- 7" touch panel: must be connected
  - to the condominium LAN via an Ethernet socket-outlet for the video intercom
  - to the apartment LAN via a Wi-Fi connection if you want to control the Smart Home system too

- Smart Gateway: can be connected to the apartment LAN via a Wi-Fi or Ethernet connection

- If additional indoor video intercom positions are needed in an apartment: several touch panels can be installed

Installation notes

To ensure that the panel can work properly in a VoIP video intercom system, take into account the following factors:

- Video compression supported by the panel: H264 (configure the outdoor position so it uses this video compression)

- In the condominium IP network infrastructure, connect the switches in cascade form; if other devices apart from the video intercom need to be connected to the same network (e.g. cameras for video surveillance), make sure "smart" switches are installed to manage the QoS (Quality of Service) and therefore ensure that priority is given to the network traffic generated by VoIP calls

- Use network switches with the following characteristics:

  ➢ Transmission speed 10/100/1000 Mbit
  ➢ Professional (not consumer) type switches of renowned brands, that can guarantee product quality and reliability
  ➢ Meeting the requirements of the type of installation (board or surface-mounting) and the space occupied
  ➢ Presence of PoE ports if necessary, to power the panels (in condominiums, it is recommended that the touch panels be powered in any case with an auxiliary power supply to prevent any video intercom system problems from cutting off the supply to the panel and making it impossible to use domotic supervision)

- Taking into consideration the band occupation of a video intercom call; for instance, a call with video resolution VGA (640x480) and 15 fps, 512 kbps of band, plus approximately 80 kbps for the audio communication

PRELIMINARY OPERATIONS

Video intercoms

Before configuring the panel, make sure both the panel and the outdoor positions are correctly installed. Refer to the installation manuals of the devices.

If a local VoIP SIP enclosure is used, refer to the relative installation manual for its set-up.

To configure the panel and associate it with the outdoor positions, the following information is required:

- the SIP number of the outdoor positions (compulsory)
- the IP address of the outdoor positions (optional - only in the case of a video intercom system without a SIP VoIP server. See Architecture 1: condominiums and multi-family houses with video intercom without a local VoIP SIP enclosure and possibly domotics)
- a SIP port (optional - only if different from the standard "5060" SIP port, due to installation requirements)
- the DTMF code for activating the outdoor position relay if it is directly used to open the gate/door, or the URL http for activating the web relays used to open the gate/door

These parameters must be configured in the outdoor positions first, then in the indoor positions (touch panels).

Domotics

To configure the "Domotics" section (Smart Gateway app), the apartment must be equipped with a Smart Gateway and the system must have at least one active user, whose credentials will be used by the panel to access the domotic system control functions.

## CONFIGURATION PROCEDURE: VIDEO INTERCOMS

To configure the video intercom and, more generally, the video intercom system, you are advised to proceed as follows:

1. Create and configure the domestic IP network, assigning the static IP addresses if necessary (for both the indoor positions and the outdoor positions/touch panels)

2. Configure the outdoor positions, assigning "SIP numbers" for intended users and DTMF codes for opening doors/gates

3. Configure the touch panels on the basis of the SIP number assigned to the indoor position and the possible IP address assigned
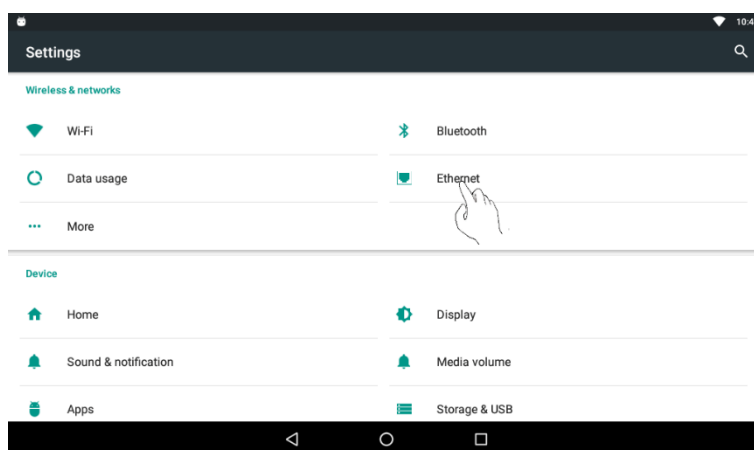
Assigning a static IP address to the touch panel

With reference to architecture 1, to assign a static IP address to the panel Ethernet board you must:

1. Click on the "**Settings**" icon on the home page
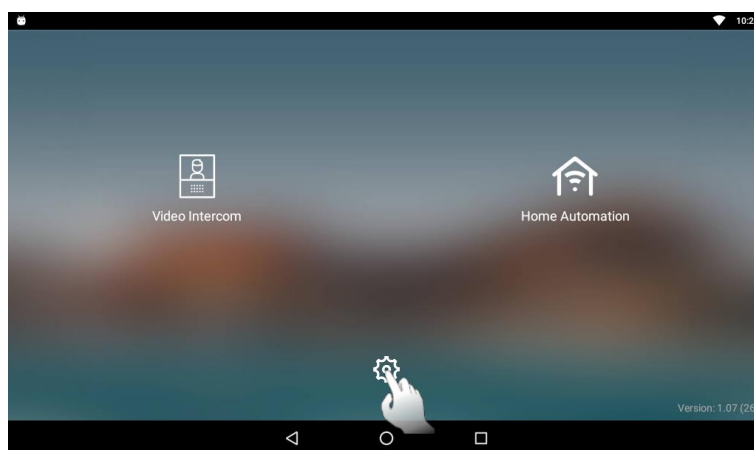
2. Select "**Ethernet**" on the Settings page

3. In the Ethernet section:
   a. deactivate the "DHCP" option
   b. set the **IP address** reserved for the panel, the **subnet mask** used in the condominium IP network, and its **predefined Gateway** (if there is one). Click on the item to be modified; the necessary keypad will appear.
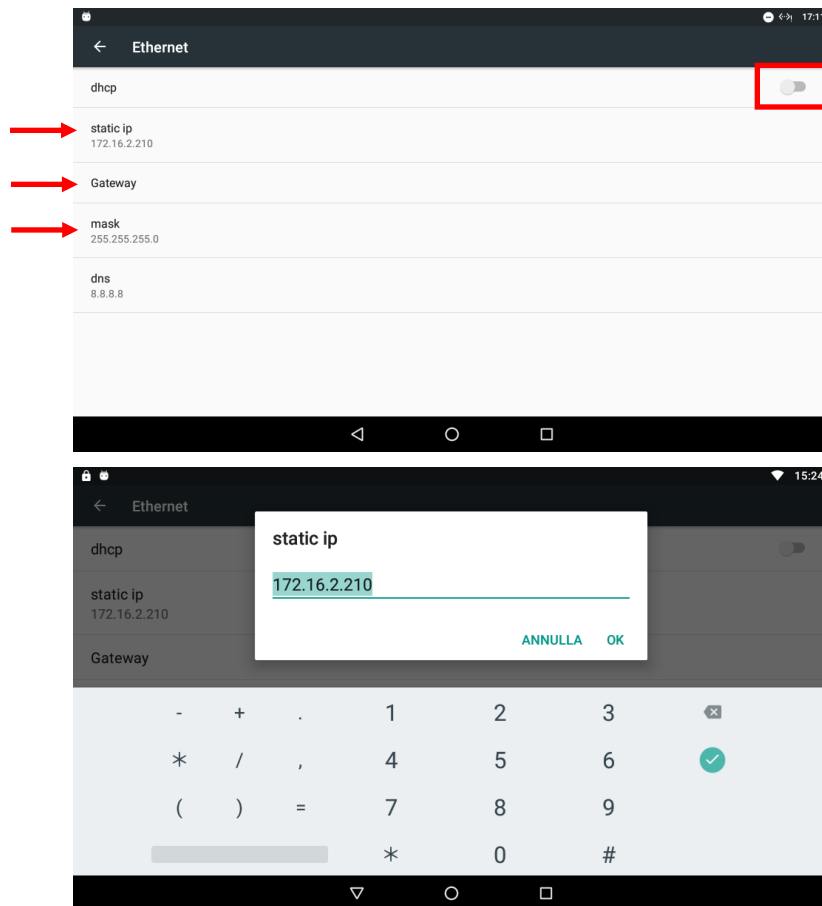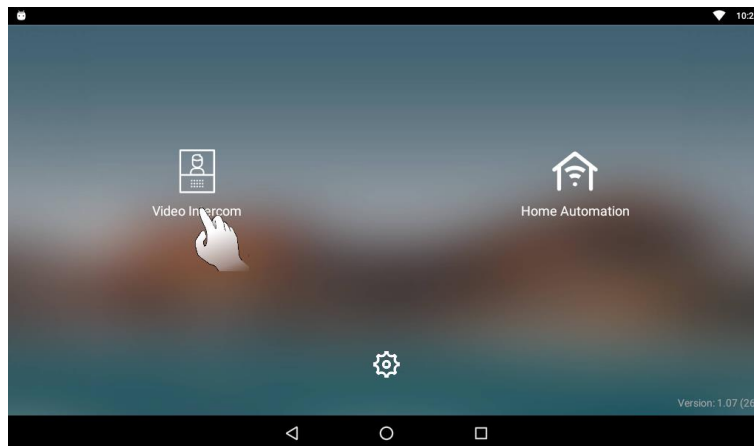
4. Close the Settings page by pressing on the lower bar

Configuring the number and SIP port assigned to the panel, and any parameters associated with the local VoIP enclosure

To configure the SIP number and possible SIP port assigned to the panel:

1. Click on the "**Video intercom**" icon on the home page

2. Click on the ⚙ icon on the "Video intercom" page, to access the settings of the panel video intercom section
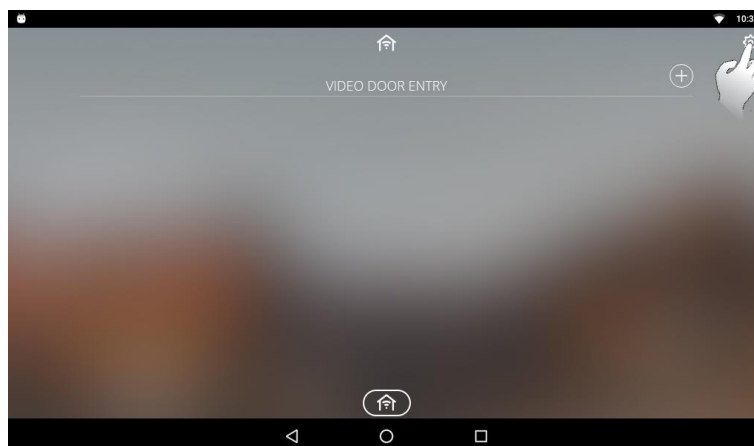

3. On the dedicated page that opens, insert:

    -   **IP address of the server**: the IP address of the local VoIP enclosure (if it's in the system)
    -   **SIP port of the server**: the SIP port of the local VoIP enclosure (if it's in the system)
    -   **SIP number***: the SIP number reserved for the panel, that will be used person calling to establish the call to the panel itself
    -   **SIP port**: the port used for the SIP calls (only specify it if you want to use a door other than the standard 5060 one)
    -   **Authentication**: the credential used by the panel to authenticate itself for an intended user that requires authentication, e.g. a local VoIP SIP enclosure; leave this field empty if the communication doesn't require authentication
    -   **Password**: the password used by the panel to authenticate itself for an intended user that requires authentication, e.g. a local VoIP SIP enclosure; leave this field empty if the communication doesn't require authentication

    The fields marked with an asterisk ***** must necessarily be filled in.

4. Click on the pencil symbol ✏ at the top right.

    To fill in the fields, click on the right-hand side of the screen, near the row you want to complete. The keypad will appear automatically.
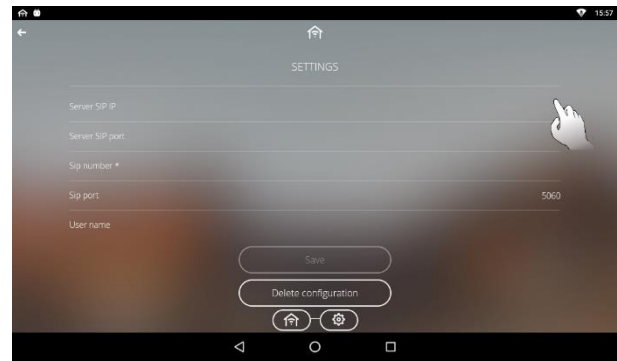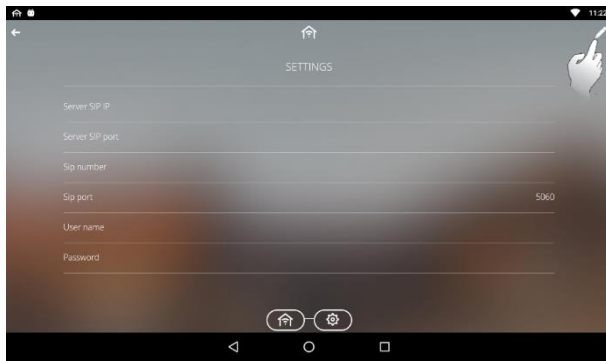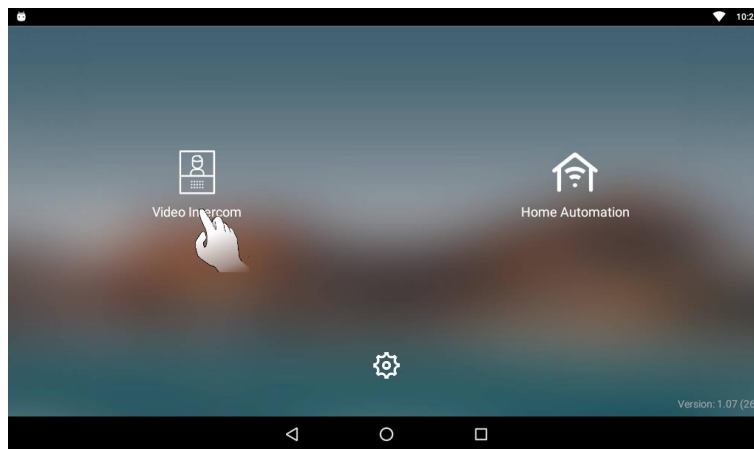
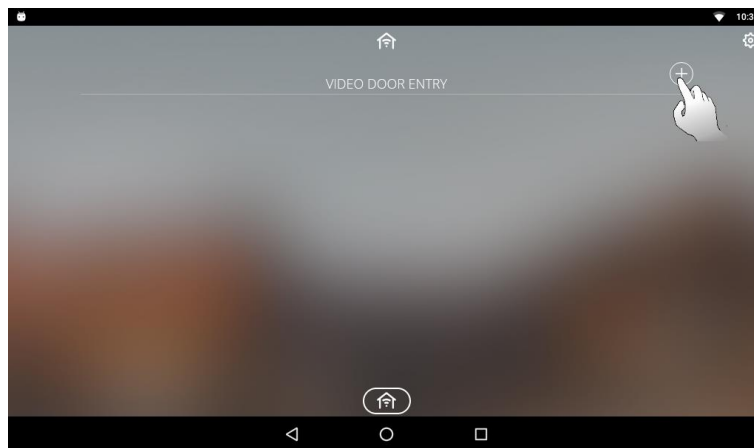5. After filling in the fields, press "**Save**"

Adding an outdoor/indoor position to the list of intercoms

To add an outdoor/indoor position to the list of intercoms, proceed as follows:

1. Click on the "**Video intercom**" icon on the home page

2. On the "Video door entry" page, click on "**+**" ⊕ to add a new position

3. On the dedicated page that opens, insert:
   - **Name***: the name you want to give the outdoor/indoor position being associated with the panel; the name will be shown in the list of intercoms and when an incoming call is received from the position in question
   - **SIP number***: the SIP number reserved for the outdoor/indoor position, used by the panel to establish the call to the position and to identify the person calling in the case of an incoming call
   - **IP address**: the IP address assigned to the outdoor/indoor position, used to contact the position (to be filled in only for systems using architecture 1)
   - **SIP port**: the port used by the outdoor/indoor position to receive SIP calls (to be specified only for systems using architecture 1 where a port other than the standard 5060 one has been configured)

The fields marked with an asterisk * must necessarily be filled in. To fill in the fields, click on the right-hand side of the screen, near the row you want to complete. The keypad will appear automatically.
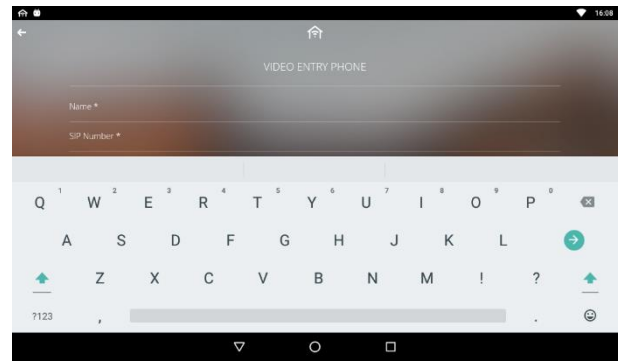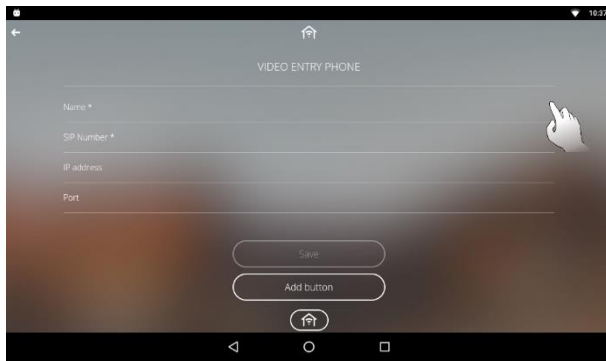
4. In the case of an outdoor position, configure a push-button for opening the gate or switching on the stair raiser light (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)

5. After filling in all the fields, press "**Save**"

6. The panel will return to the video intercom home page, where the newly associated outdoor position will be shown
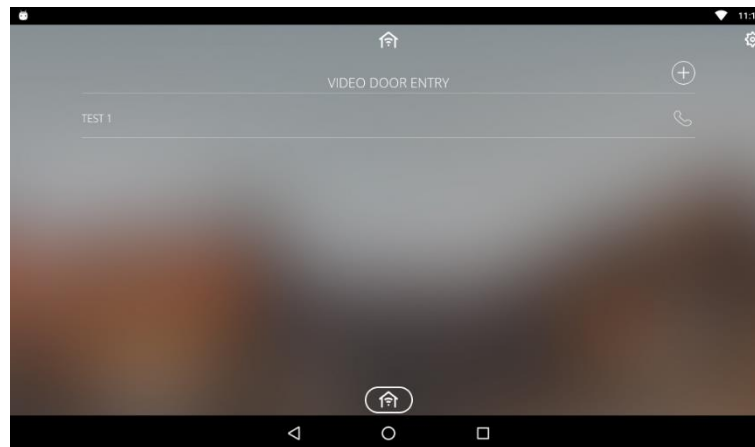
Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light

If an outdoor position is associated with the opening of a door/gate and/or the switch-on of a stair raiser light, a push-button can be configured to enable the activation of this function during communication with the outdoor position.

A DTMF tone (only used to activate the local relay of the outdoor position (e.g. "2N" products), or http commands (used to activate relay actuators not directly connected to the outdoor position but connected to the local IP network) can be sent to the push-button.

During the configuration, click on "**Add button**" at the bottom of the page if you want to add a push-button (up to 5) for "Open door/gate" commands and/or http command for using the web relays. Follow the procedure:

1. Click on "**Add button**":
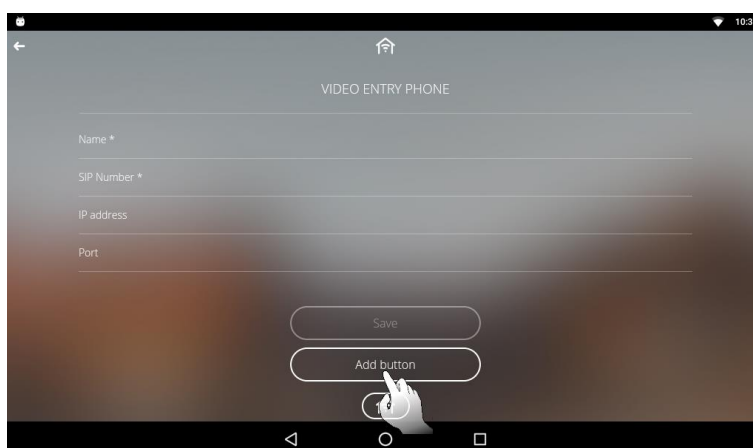
2. Fill in the fields on the page that opens:
   - **Button label***: the text below the push-button, shown during the call (e.g. "Open")
   - **Icon***: the type of icon you want to use for the push-button being added
   - **Button type***: DTFM or http, depending on what has been configured on the outdoor position or the web relay associated

   Depending on the type of push-button to be added, the following fields must also be filled in:

TYPE OF PUSH-BUTTON	
DTFM	**HTTP**
DTMF code* NOTE: the DTMF code entered must be followed by "*"; otherwise, the configuration cannot be saved	**HTTP method**
	URL http*
	Authorisation

HTTP method
GET
POST
PUT
DELETE

The fields marked with an asterisk must necessarily be filled in.

DTFM screen

HTTP screen

3. After filling in the necessary fields, press "**Save**"
4. The panel will return to the video intercom home page. If the configuration has been made correctly, the newly added push-button will appear when the communication with the outdoor

   position is opened (clicking on the telephone receiver icon ☎):
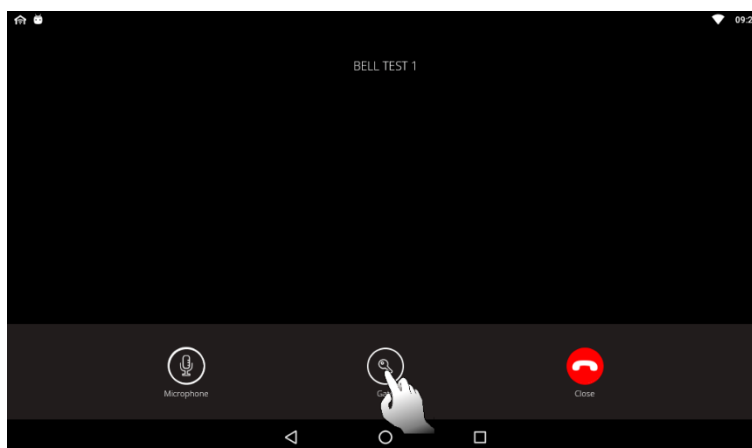
Modifying an outdoor position that has already been configured

The configuration parameters of an outdoor/indoor position can always be modified, and a push-button can be added or eliminated.

Proceed as follows:

1. Open the "**Video intercom**" app
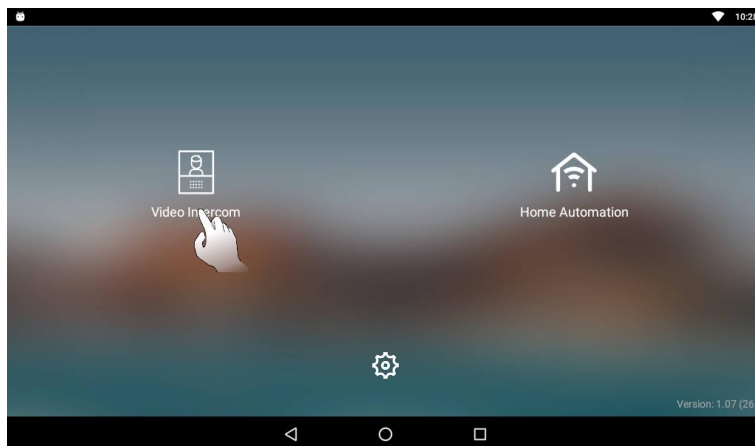
2. On the video intercom home page, keep your finger pressed on the position you want to modify. A drop-down menu will appear, with two items:
   a. Edit
   b. Delete
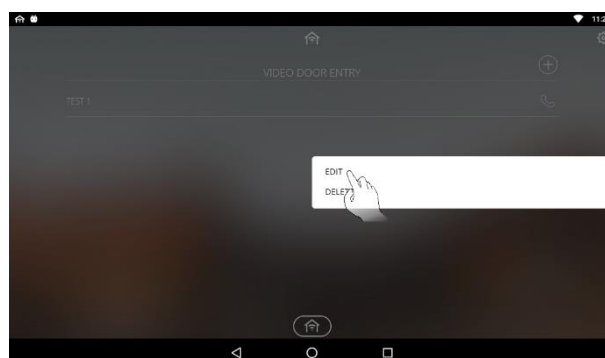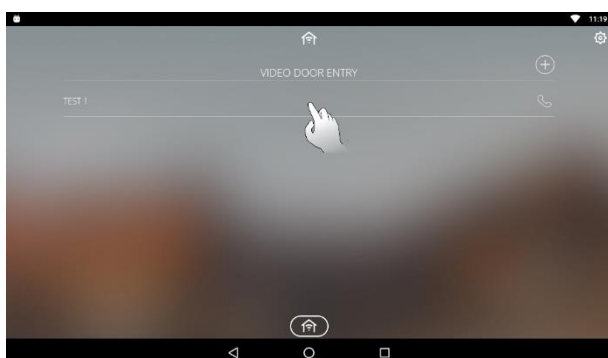
3. Click on "**Edit**"
4. A page containing the position configuration parameters will open
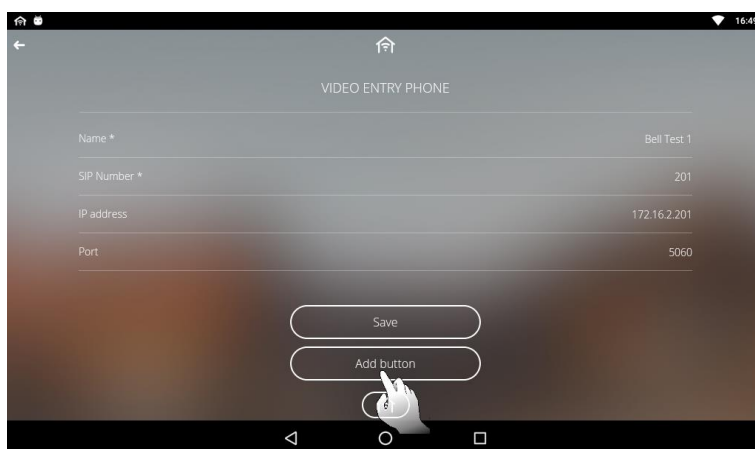
5. Press directly on a parameter to activate the modification. If you want to configure a new push-button, refer to: "Adding the opening of a door or gate"

Deleting a push-button from an outdoor position that has already been configured

To delete a push-button associated with an outdoor position, proceed as follows:

1. Open the "**Video intercom**" app
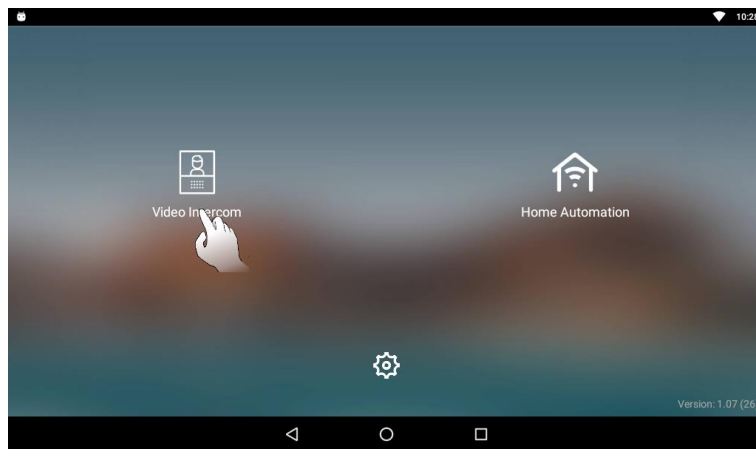
2. On the video intercom home page, keep your finger pressed on the outdoor station you want to modify. A drop-down menu will appear, with two items:
   a. Edit
   b. Delete
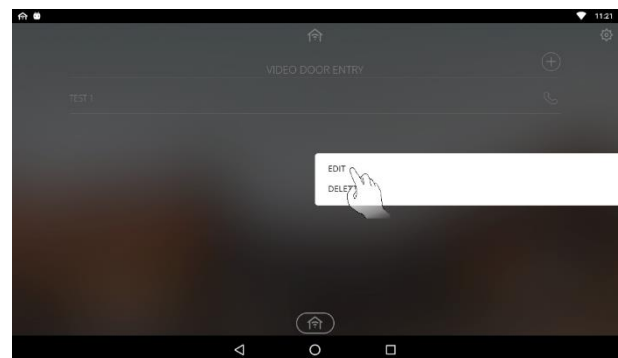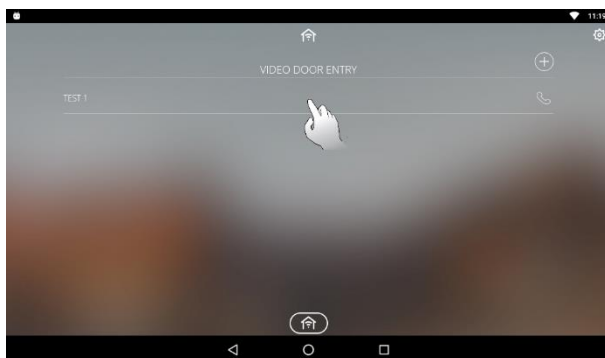
3. Click on "**Edit**"
4. A page containing the outdoor position configuration parameters will open
5. Scroll down the page to find the additional push-button you want to delete. Click on the arrow to its right >
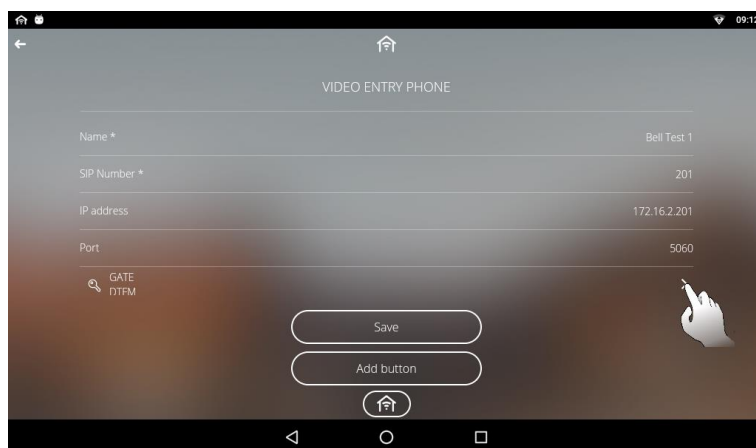
6. On the page showing the configuration parameters of the additional push-button, click on "**Delete**"

Checking the communication between the panel and the outdoor position

Once the configuration procedure has been completed, the outdoor position will appear on the video intercom home page.

Click on the telephone receiver icon to open the communication with that outdoor position.

Key	
ICONS	**FUNCTION**
	Microphone: click on this icon to deactivate the panel microphone
	"**Push-button**": click on this icon to open the door/gate or switch on the light (depending on how the push-button associated with the outdoor position has been configured)
	Close: to end the communication with the outdoor position

Deleting an outdoor/indoor position

Proceed as follows:

- Open the "**Video intercom**" app
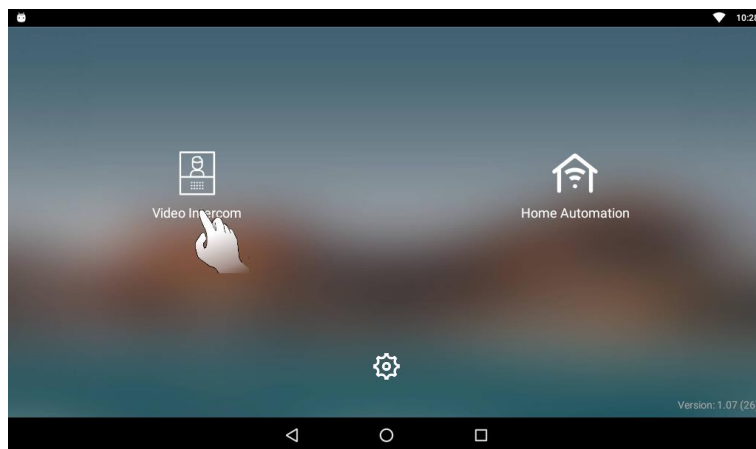
- On the video intercom home page, keep your finger pressed on the outdoor/indoor position you want to delete. A drop-down menu will appear, with two items:
  - i.   Edit
  - ii. Delete
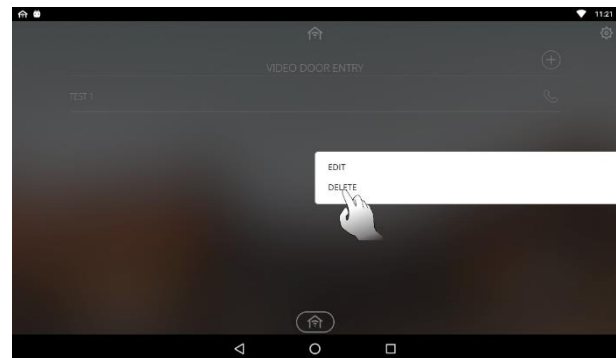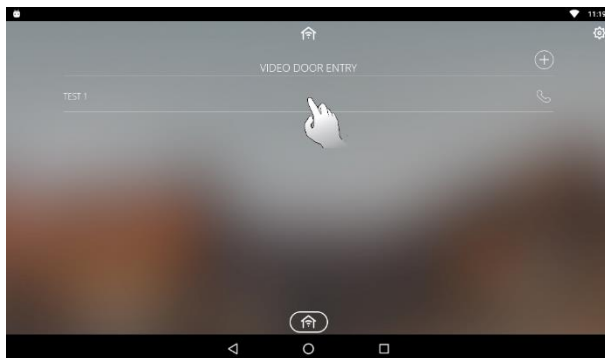
- Click on "**Delete**"
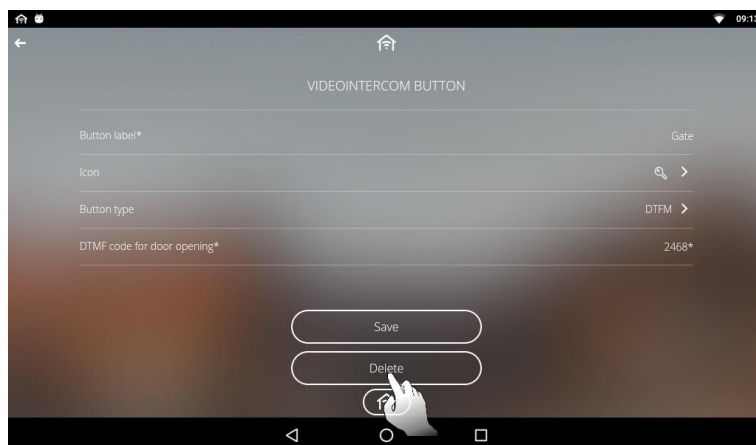
EXAMPLES OF VIDEO INTERCOM CONFIGURATION

Some examples of video intercom configuration (depending on the architecture available) are shown below.

Video intercom without a local VoIP SIP enclosure

In this example, the condominium is made up of:

- 1 main outdoor position
- 2 secondary outdoor positions - one for "staircase A" and the other for "staircase B"
- 3 indoor positions for the apartments of "staircase A" - two for apartment 1 and one for apartment 2
- 2 indoor positions for the apartments of "staircase B" - one for each apartment

Apartment 2A

IP: 172.16.2.120
SUB: 255.255.255.0
SIP no.: 120

Apartment 4B

IP: 172.16.2.220
SUB: 255.255.255.0
SIP no.: 220

Apartment 1A - Living area

IP: 172.16.2.111
SUB: 255.255.255.0
SIP no.: 111

Apartment 3B

IP: 172.16.2.210
SUB: 255.255.255.0
SIP no.: 210

Building LAN   Building LAN

Apartment 1A - Sleeping area

IP: 172.16.2.110
SUB: 255.255.255.0
SIP no.: 110

Staircase A entrance

IP: 172.16.2.100
SUB: 255.255.255.0
SIP no.: 100
DTMF opening: I*

Staircase B entrance

IP: 172.16.2.200
SUB: 255.255.255.0
SIP no.: 200
DTMF opening: I*

Main entrance

IP: 172.16.2.10
SUB: 255.255.255.0
SIP no.: 10
DTMF opening: I*
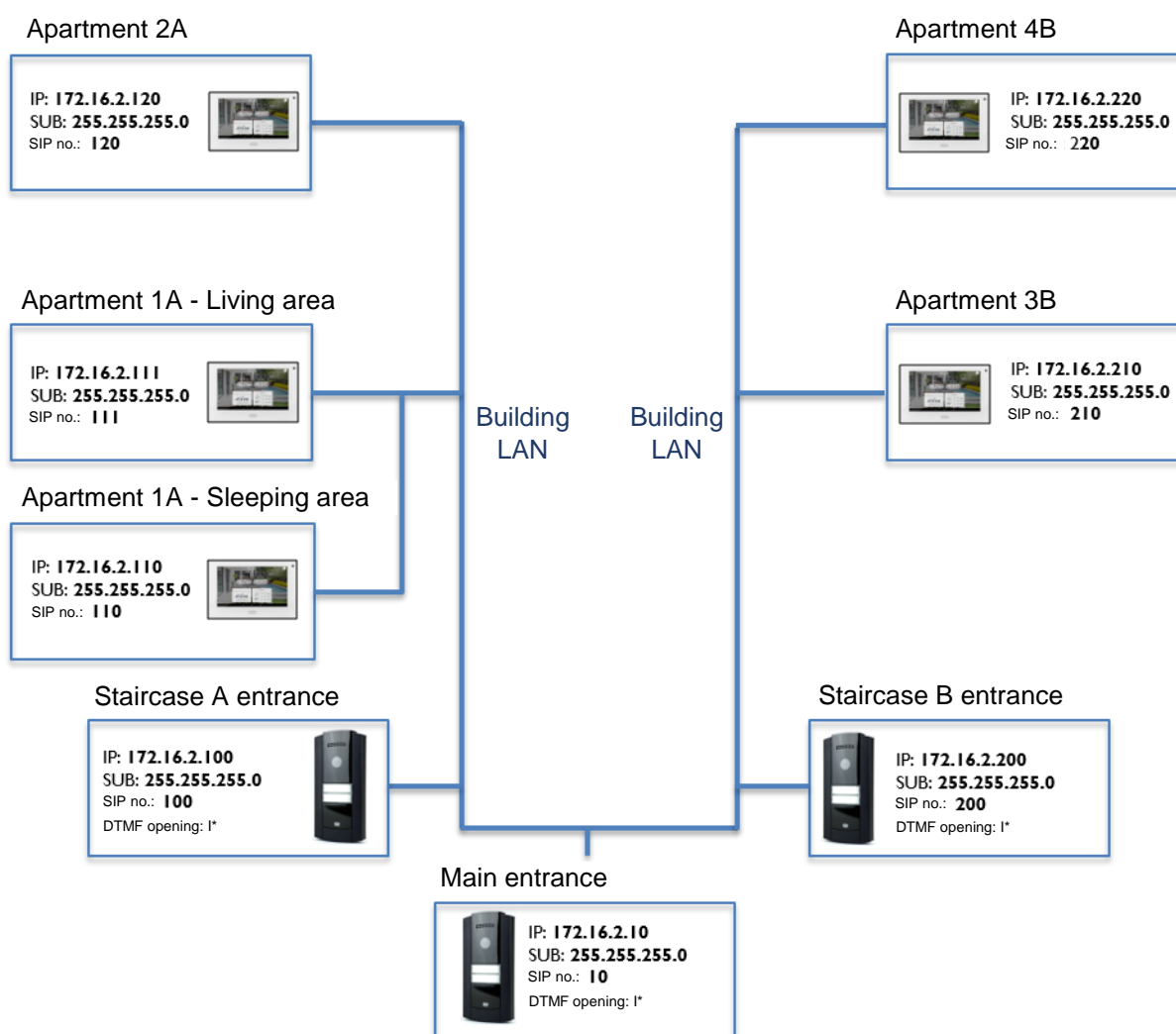
To configure the outdoor positions, refer to the relative installation manual provided by the manufacturer.

The indoor positions will be configured as follows:

Panel *Apartment 1A - Living area*

- Configuration of the static IP (ref. Assigning a static IP address to the touch panel):
  - i.   DHCP → **disabled**
  - ii. Static IP → **172.16.2.111**
  - iii. Mask → **255.255.255.0**
  - iv. Gateway → Can remain empty if the network does not need to access the Internet
  - v.   DNS → Can remain empty if the network does not need to access the Internet

- Configuration of the panel SIP number and port (ref. Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure):
  - i.   IP address of the server → empty
  - ii. SIP port of the server → empty
  - iii. SIP number → **111**
  - iv. SIP port → **5060**
  - v.   Authentication → empty
  - vi. Password → empty

- Outdoor position *Main entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Main entrance**
  - ii. SIP number → **10**
  - iii. IP address → **172.16.2.10**
  - iv. SIP port → **5060**
  - v.   Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Staircase A entrance**
  - ii. SIP number → **100**
  - iii. IP address → **172.16.2.100**
  - iv. SIP port → **5060**
  - v.   Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Indoor position (intercom) *Apartment 1A - sleeping area* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Sleeping area panel**
  - ii. SIP number → **110**
  - iii. IP address → **172.16.2.110**
  - iv. SIP port → **5060**

Panel *Apartment 1A - Sleeping area*

- Configuration of the static IP (ref. Assigning a static IP address to the touch panel):
  - i.   DHCP → **disabled**
  - ii. Static IP → **172.16.2.110**
  - iii. Mask → **255.255.255.0**
  - iv. Gateway → Can remain empty if the network does not need to access the Internet
  - v.   DNS → Can remain empty if the network does not need to access the Internet

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
    - i. IP address of the server → empty
    - ii. SIP port of the server → empty
    - iii. SIP number → **110**
    - iv. SIP port → **5060**
    - v. Authentication → empty
    - vi. Password → empty

- Outdoor position *Main entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    - i. Name → **Main entrance**
    - ii. SIP number → **10**
    - iii. IP address → **172.16.2.10**
    - iv. SIP port → **5060**
    - v. Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
        - a. Push-button text → **Open**
        - b. Icon → Key
        - c. Push-button type → **DTMF**
        - d. DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    - i. Name → **Staircase A entrance**
    - ii. SIP number → **100**
    - iii. IP address → **172.16.2.100**
    - iv. SIP port → **5060**
    - v. Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
        - a. Push-button text → **Open**
        - b. Icon → Key
        - c. Push-button type → **DTMF**
        - d. DTMF code → **1***

- Indoor position (intercom) *Apartment 1A - living area* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    - i. Name → **Living area panel**
    - ii. SIP number → **111**
    - iii. IP address → **172.16.2.111**
    - iv. SIP port → **5060**

Panel *Apartment 2A*

- Configuration of the static IP (ref. <u>Assigning a static IP address to the touch panel</u>):
    - i. DHCP → **disabled**
    - ii. Static IP → **172.16.2.120**
    - iii. Mask → **255.255.255.0**
    - iv. Gateway → Can remain empty if the network does not need to access the Internet
    - v. DNS → Can remain empty if the network does not need to access the Internet

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
    - i. IP address of the server → empty
    - ii. SIP port of the server → empty
    - iii. SIP number → **120**
    - iv. SIP port → **5060**
    - v. Authentication → empty
    - vi. Password → empty

- Outdoor position *Main entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    - i. Name → **Main entrance**

- ii.   SIP number → **10**
- iii.   IP address → **172.16.2.10**
- iv.   SIP port → **5060**
- v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
  - a.   Push-button text → **Open**
  - b.   Icon → Key
  - c.   Push-button type → **DTMF**
  - d.   DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
  - i.   Name → **Staircase A entrance**
  - ii.   SIP number → **100**
  - iii.   IP address → **172.16.2.100**
  - iv.   SIP port → **5060**
  - v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
    - a.   Push-button text → **Open**
    - b.   Icon → Key
    - c.   Push-button type → **DTMF**
    - d.   DTMF code → **1***

Panel *Apartment 3B*

- Configuration of the static IP (ref. <u>Assigning a static IP address to the touch panel</u>):
  - i.   DHCP → **disabled**
  - ii.   Static IP → **172.16.2.210**
  - iii.   Mask → **255.255.255.0**
  - iv.   Gateway → Can remain empty if the network does not need to access the Internet
    DNS → Can remain empty if the network does not need to access the Internet

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
  - i.   IP address of the server → empty
  - ii.   SIP port of the server → empty
  - iii.   SIP number → **210**
  - iv.   SIP port → **5060**
  - v.   Authentication → empty
  - vi.   Password → empty

- Outdoor position *Main entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
  - i.   Name → **Main entrance**
  - ii.   SIP number → **10**
  - iii.   IP address → **172.16.2.10**
  - iv.   SIP port → **5060**
  - v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
    - a.   Push-button text → **Open**
    - b.   Icon → Key
    - c.   Push-button type → **DTMF**
    - d.   DTMF code → **1***

- Outdoor position *Staircase B entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
  - i.   Name → **Staircase B entrance**
  - ii.   SIP number → **200**
  - iii.   IP address → **172.16.2.200**
  - iv.   SIP port → **5060**
  - v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
    - a.   Push-button text → **Open**

      b.   Icon → Key
      c.   Push-button type → **DTMF**
      d.   DTMF code → **1***

Panel *Apartment 4B*

- Configuration of the static IP (ref. <u>Assigning a static IP address to the touch panel</u>):
  - i.   DHCP → **disabled**
  - ii.   Static IP → **172.16.2.220**
  - iii. Mask → **255.255.255.0**
  - iv. Gateway → Can remain empty if the network does not need to access the Internet
  - v.   DNS → Can remain empty if the network does not need to access the Internet

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
  - i.   IP address of the server → empty
  - ii.   SIP port of the server → empty
  - iii. SIP number → **220**
  - iv. SIP port → **5060**
  - v.   Authentication → empty
  - vi. Password → empty

- Outdoor position *Main entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
  - i.   Name → **Main entrance**
  - ii.   SIP number → **10**
  - iii. IP address → **172.16.2.10**
  - iv. SIP port → **5060**
  - v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
    - a.   Push-button text → **Open**
    - b.   Icon → Key
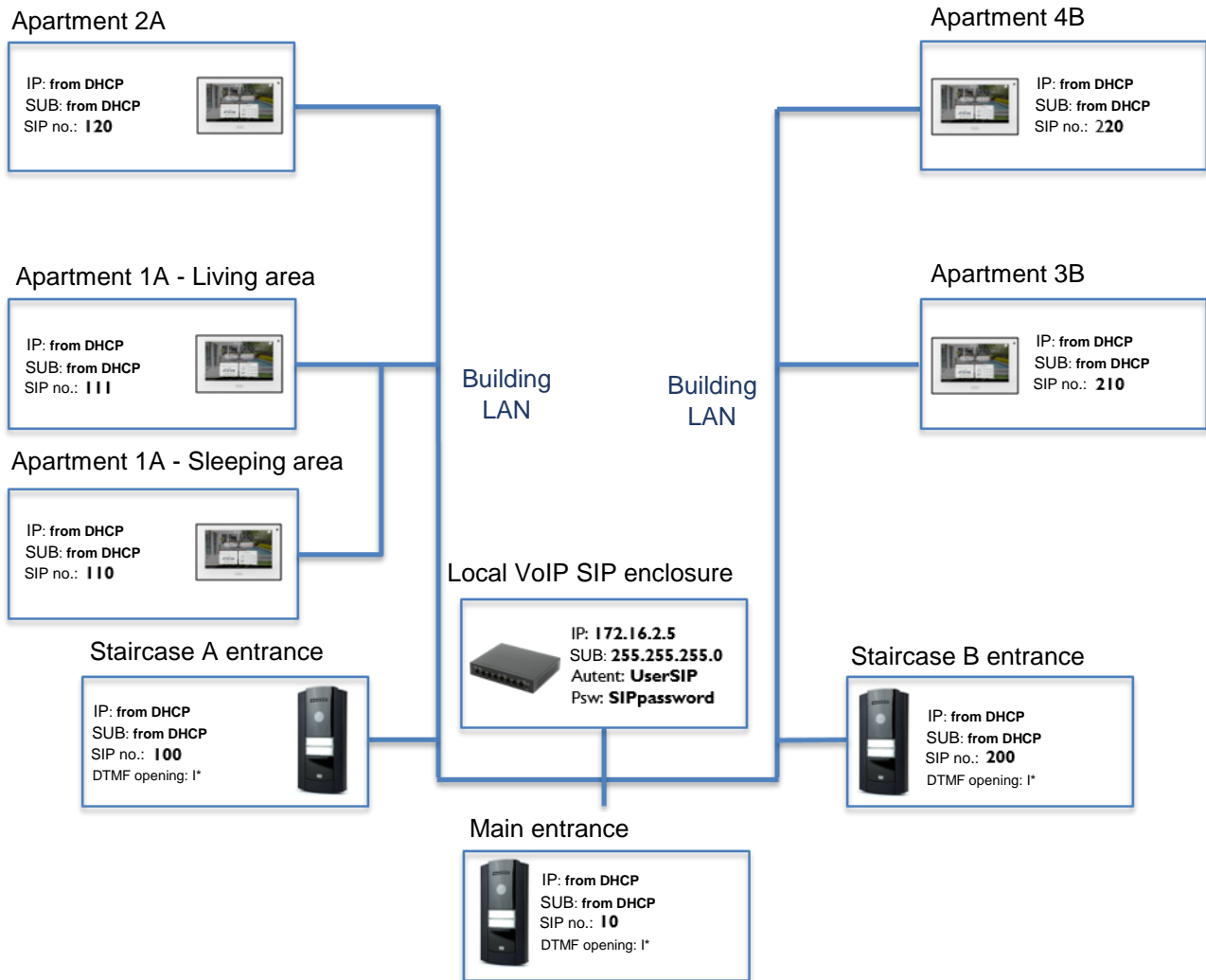   - c.   Push-button type → **DTMF**
    - d.   DTMF code → **1***

- Outdoor position *Staircase B entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
  - i.   Name → **Staircase B entrance**
  - ii.   SIP number → **200**
  - iii. IP address → **172.16.2.200**
  - iv. SIP port → **5060**
  - v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
    - a.   Push-button text → **Open**
    - b.   Icon → Key
    - c.   Push-button type → **DTMF**
    - d.   DTMF code → **1***

Video intercom with a local VoIP SIP enclosure

In this example, the condominium is made up of:

- 1 main outdoor position
- 1 VoIP SIP enclosure
- 2 secondary outdoor positions - one for "staircase A" and the other for "staircase B"
- 3 indoor positions for the apartments of "staircase A" - two for apartment 1 and one for apartment 2
- 2 indoor positions for the apartments of "staircase B" - one for each apartment

Apartment 2A

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **120**

Apartment 4B

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **220**

Apartment 1A - Living area

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **111**

Apartment 3B

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **210**

Apartment 1A - Sleeping area

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **110**

Building LAN

Building LAN

Local VoIP SIP enclosure

IP: **172.16.2.5**
SUB: **255.255.255.0**
Autent: **UserSIP**
Psw: **SIPpassword**

Staircase A entrance

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **100**
DTMF opening: I*

Staircase B entrance

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **200**
DTMF opening: I*

Main entrance

IP: **from DHCP**
SUB: **from DHCP**
SIP no.: **10**
DTMF opening: I*

To configure the outdoor positions and the VoIP SIP enclosure, refer to the relative installation manual provided by the manufacturer.
With regards the VoIP SIP enclosure, it's assumed that it has been configured to assign addresses in the range 172.16.2.xxx, and that 172.16.2.5 is RESERVED for the SIP server, i.e. outside the assignment range of the server or in static DHCP reservation on the MAC address of the SIP server.

The indoor positions will be configured as follows:

Panel *Apartment 1A - Living area*

- IP configuration from DHCP (ref. Assigning a static IP address to the touch panel):
  - i.   DHCP → **enabled**

- Configuration of the VoIP SIP enclosure and the panel SIP number and port (ref. Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure):
  - i.   IP address of the server → **172.16.2.5**
  - ii. SIP port of the server → **5060**
  - iii. SIP number → **111**
  - iv. Local SIP port → empty
  - v.   Authentication → **UserSIP**
  - vi. Password → **SIPpassword**

- Outdoor position *Main entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Main entrance**
  - ii. SIP number → **10**
  - iii. IP address → empty
  - iv. SIP port → empty
  - v.   Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Staircase A entrance**
  - ii. SIP number → **100**
  - iii. IP address → empty
  - iv. SIP port → empty
  - v.   Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Indoor position (intercom) *Apartment 1A - sleeping area* (ref. Adding an outdoor/indoor position to the list of intercoms):
  - i.   Name → **Sleeping area panel**
  - ii. SIP number → **110**
  - iii. IP address → empty
  - iv. SIP port → empty

Panel *Apartment 1A - Sleeping area*

- IP configuration (ref. Assigning a static IP address to the touch panel):
  - i.   DHCP → **enabled**

- Configuration of the VoIP SIP enclosure and the panel SIP number and port (ref. Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure):
  - i.   IP address of the server → **172.16.2.5**
  - ii. SIP port of the server → **5060**
  - iii. SIP number → **110**
  - iv. SIP port → empty
  - v.   Authentication → **UserSIP**

vi. Password → **SIPpassword**

- Outdoor position *Main entrance* (ref. [Adding an outdoor/indoor position to the list of intercoms](#)):
  - i. Name → **Main entrance**
  - ii. SIP number → **10**
  - iii. IP address → empty
  - iv. SIP port → empty
  - v. Add a DTMF push-button (ref. [Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light](#))
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. [Adding an outdoor/indoor position to the list of intercoms](#)):
  - i. Name → **Staircase A entrance**
  - ii. SIP number → **100**
  - iii. IP address → empty
  - iv. SIP port → empty
  - v. Add a DTMF push-button (ref. [Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light](#))
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
    - d. DTMF code → **1***

- Indoor position (intercom) *Apartment 1A - living area* (ref. [Adding an outdoor/indoor position to the list of intercoms](#)):
  - i. Name → **Living area panel**
  - ii. SIP number → **111**
  - iii. IP address → empty
 - iv. SIP port → empty

Panel *Apartment 2A*

- IP configuration (ref. [Assigning a static IP address to the touch panel](#)):
  - i. DHCP → **enabled**

- Configuration of the panel SIP number and port (ref. [Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure](#)):
  - i. IP address of the server → **172.16.2.5**
  - ii. SIP port of the server → **5060**
  - iii. SIP number → **120**
  - iv. SIP port → empty
  - v. Authentication → **UserSIP**
  - vi. Password → **SIPpassword**

- Outdoor position *Main entrance* (ref. [Adding an outdoor/indoor position to the list of intercoms](#)):
  - i. Name → **Main entrance**
  - ii. SIP number → **10**
  - iii. IP address → empty
  - iv. SIP port → empty
  - v. Add a DTMF push-button (ref. [Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light](#))
    - a. Push-button text → **Open**
    - b. Icon → Key
    - c. Push-button type → **DTMF**
   - d. DTMF code → **1***

- Outdoor position *Staircase A entrance* (ref. [Adding an outdoor/indoor position to the list of intercoms](#)):
  - i. Name → **Staircase A entrance**

    ii.   SIP number → **100**
    iii.   IP address → empty
    iv.   SIP port → empty
    v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
        a.   Push-button text → **Open**
        b.   Icon → Key
        c.   Push-button type → **DTMF**
        d.   DTMF code → **1***

Panel *Apartment 3B*

- IP configuration (ref. <u>Assigning a static IP address to the touch panel</u>):
    i.   DHCP → **enabled**

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
    i.   IP address of the server → **172.16.2.5**
    ii.   SIP port of the server → **5060**
    iii. SIP number → **210**
    iv. SIP port → empty
    v.   Authentication → **UserSIP**
    vi. Password → **SIPpassword**

- Outdoor position *Main entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    i.   Name → **Main entrance**
    ii.   SIP number → **10**
    iii. IP address → empty
    iv. SIP port → empty
    v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
        a.   Push-button text → **Open**
        b.   Icon → Key
        c.   Push-button type → **DTMF**
        d.   DTMF code → **1***

- Outdoor position *Staircase B entrance* (ref. <u>Adding an outdoor/indoor position to the list of intercoms</u>):
    i.   Name → **Staircase B entrance**
    ii.   SIP number → **200**
    iii. IP address → empty
    iv. SIP port → empty
    v.   Add a DTMF push-button (ref. <u>Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light</u>)
        a.   Push-button text → **Open**
        b.   Icon → Key
        c.   Push-button type → **DTMF**
        d.   DTMF code → **1***

Panel *Apartment 4B*

- IP configuration (ref. <u>Assigning a static IP address to the touch panel</u>):
    i.   DHCP → **enabled**

- Configuration of the panel SIP number and port (ref. <u>Configuring the SIP number and port assigned to the panel, and any parameters associated with the local VoIP enclosure</u>):
    i.   IP address of the server → **172.16.2.5**
    ii.   SIP port of the server → **5060**
    iii. SIP number → **220**
    iv. SIP port → empty
    v.   Authentication → **UserSIP**
    vi. Password → **SIPpassword**

- Outdoor position *Main entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
    i. Name → **Main entrance**
    ii. SIP number → **10**
    iii. IP address → empty
    iv. SIP port → empty
    v. Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
        a. Push-button text → **Open**
        b. Icon → Key
        c. Push-button type → **DTMF**
        d. DTMF code → **1***

- Outdoor position *Staircase B entrance* (ref. Adding an outdoor/indoor position to the list of intercoms):
    i. Name → **Staircase B entrance**
    ii. SIP number → **200**
    iii. IP address → empty
    iv. SIP port → empty
    v. Add a DTMF push-button (ref. Adding a push-button to the outdoor position for opening a door or switching on a stair raiser light)
        a. Push-button text → **Open**
        b. Icon → Key
        c. Push-button type → **DTMF**
        d. DTMF code → **B***

CONFIGURATION PROCEDURE: DOMOTICS

To configure the "Domotics" command and supervision section, proceed as follows.

1. Click on the "**Home Automation**" icon on the home page
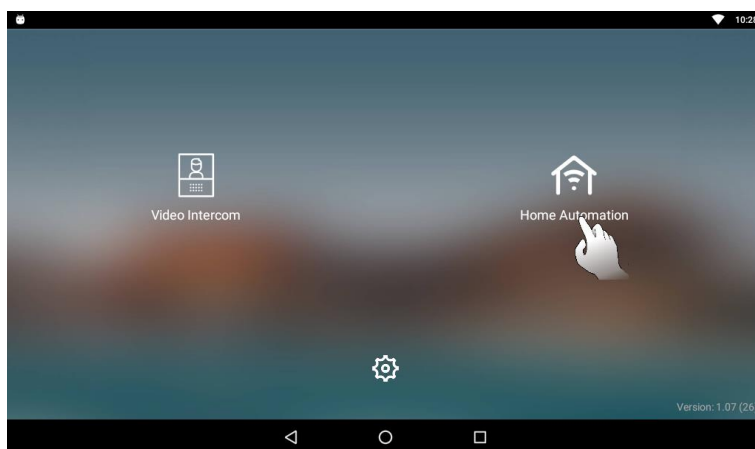
2. With your first access, the Smart Gateway account registration page will appear. You will need the access credentials for the specific domotics account that you want to associate with the 7'' touch panel
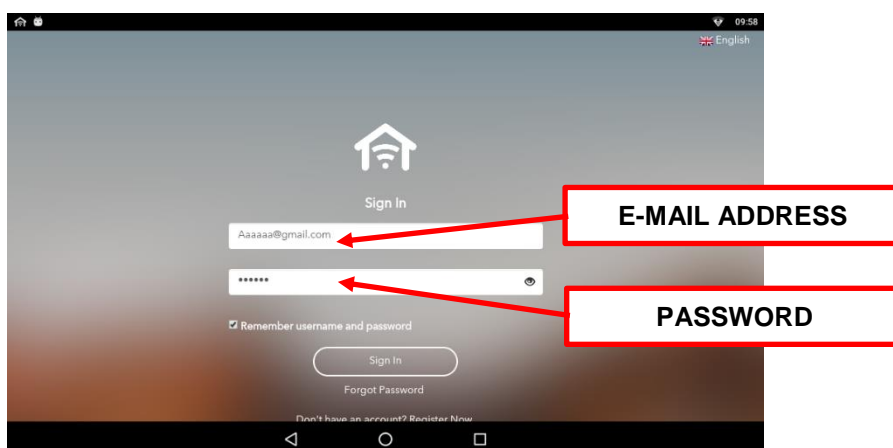
3. Click on "**Sign in**"
4. Permission will be requested, to access the information of the profile being associated.

Approve	Consent is given for this specific access moment only. With every new access, consent will be requested again
Approve always	Permanent consent is given
Cancel	Annul the configuration procedure
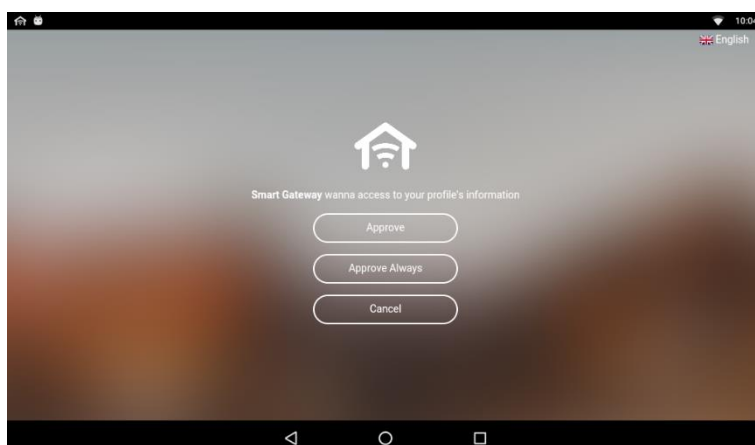
5. On the next page, you must:
   a. Enter the telephone number of the end user to be associated with the system
   b. Give the necessary consent for data processing (read the contents carefully, scrolling down the page. Make sure you have filled in all the fields)
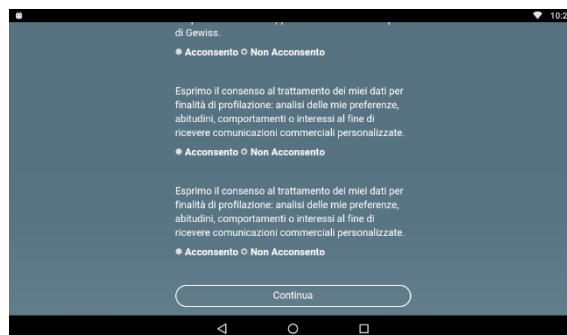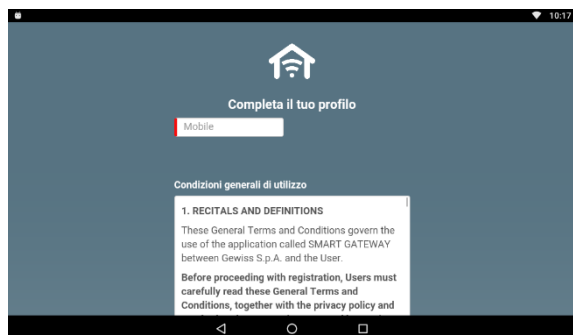
6. Once the procedure has been completed, the domotics home page will open, showing the system that has been associated with the panel
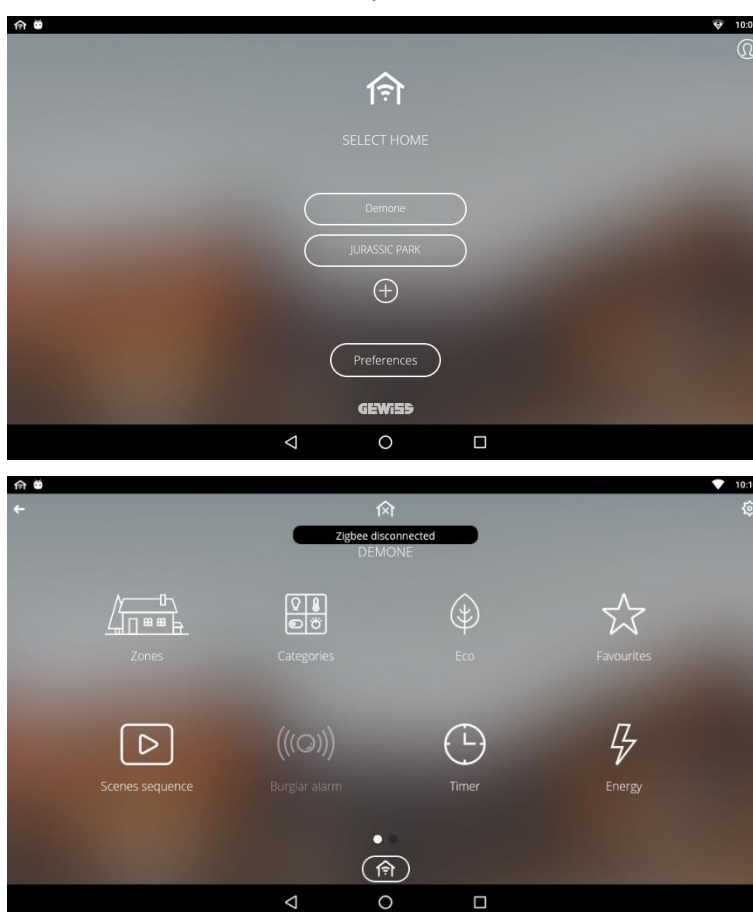
It works in the same way as the Smart Gateway app; refer to the relative user manual

SETTINGS: DISPLAY REGULATIONS AND LANGUAGE SELECTION

Settings menu: how to find it

If you want to access the complete device settings menu, click on the gear icon on the panel home page.
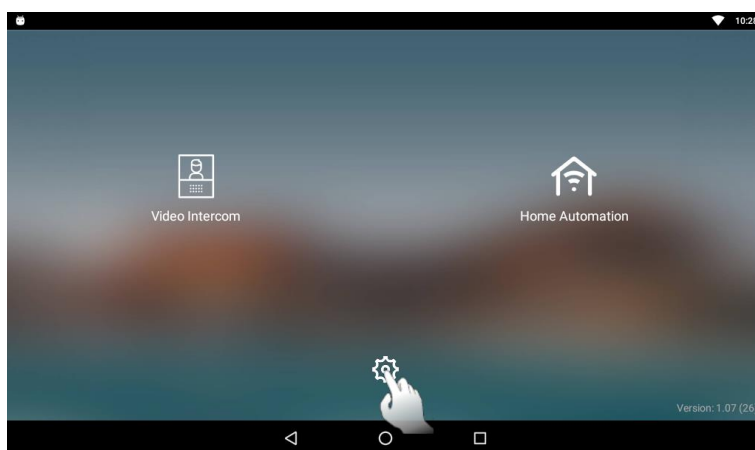
On the page that opens, you can see all the settings menus in the device. Scroll down the page to see the complete list of menus.
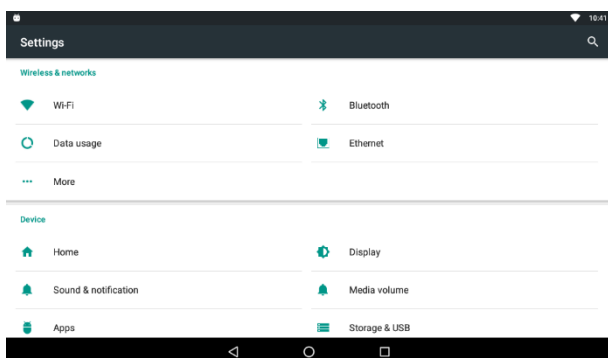
1
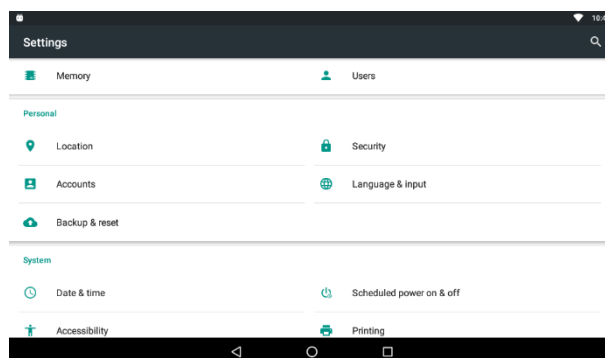
2
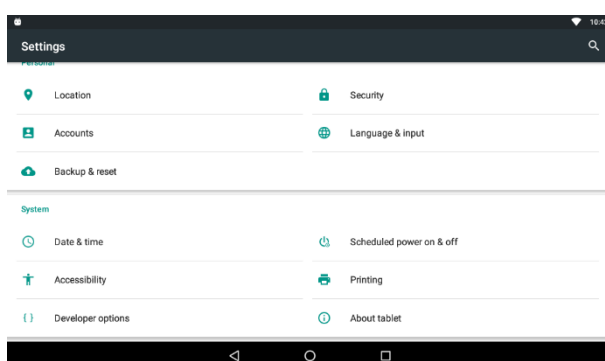
3

Display regulations

When the settings page has opened, select the item "Display":
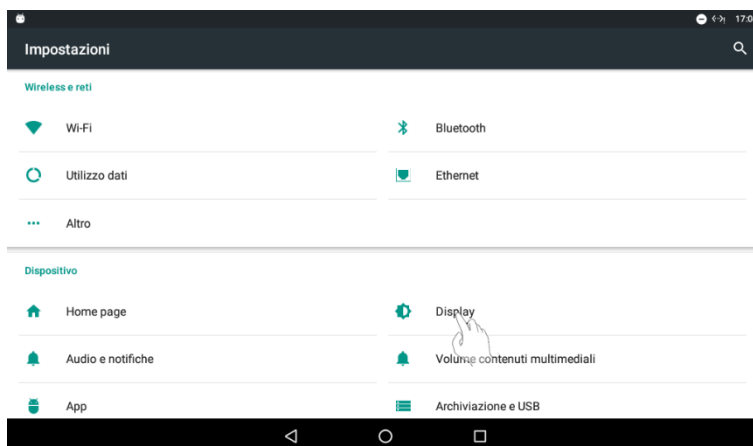
REGULATING THE LIGHT INTENSITY

Click on "Brightness level" to see a window with a cursor that you can use to regulate the light intensity of the screen:
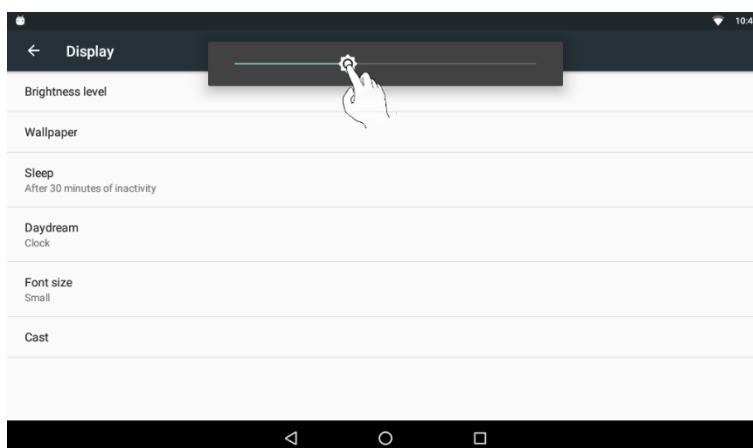
SETTING AUTOMATIC SCREEN SWITCH-OFF (STANDBY)

Click on "Sleep" to activate/deactivate automatic screen switch-off and regulate the time of inactivity after which the command is implemented:
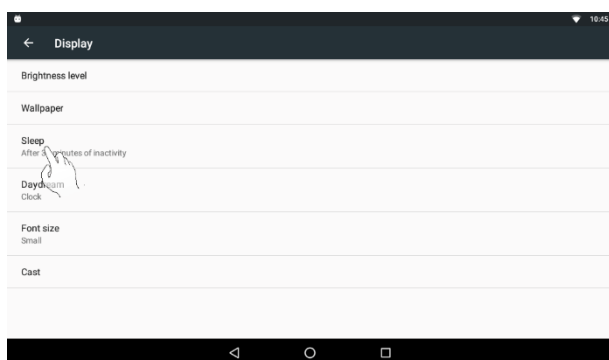
1
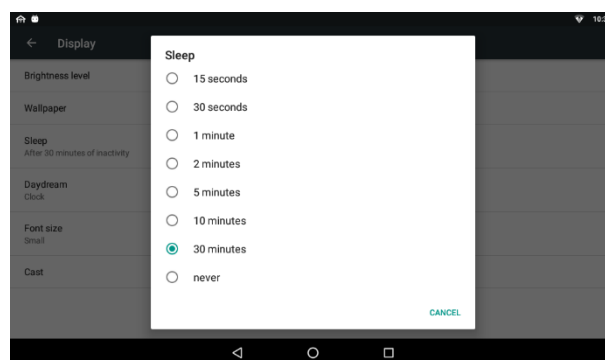
2

REGULATING THE CHARACTER SIZE

Click on "Font size" to regulate the dimensions of the characters:
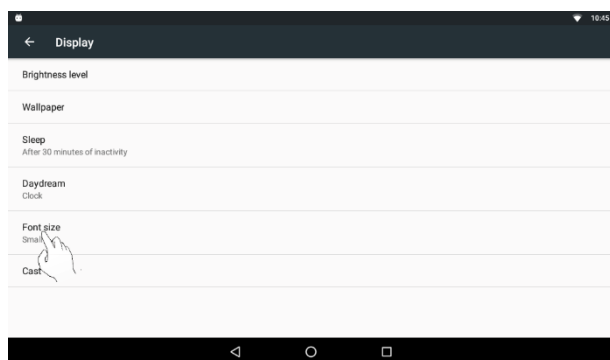
1
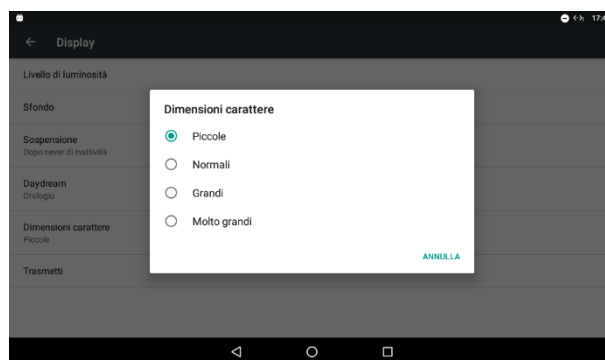
2

Changing the language

When the settings page has opened, select the item "Language & input":
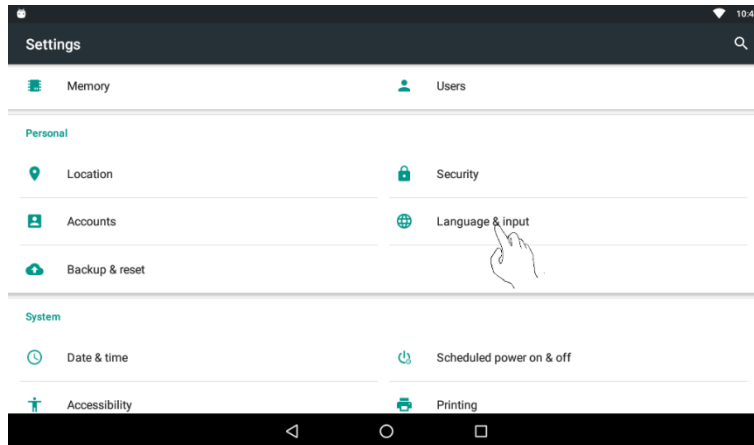
On the page that opens, click on "Language":
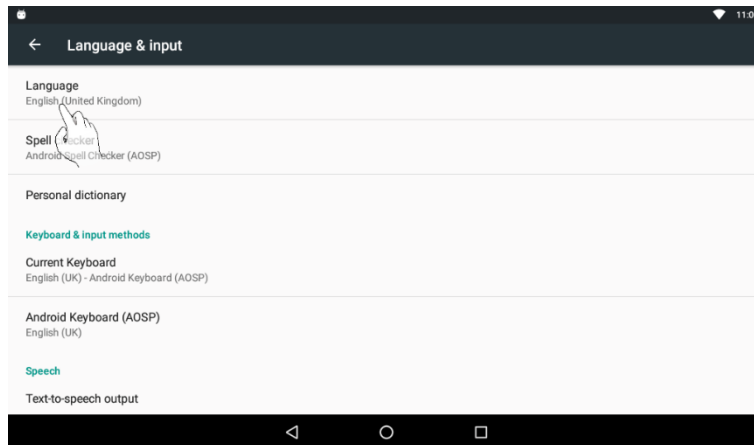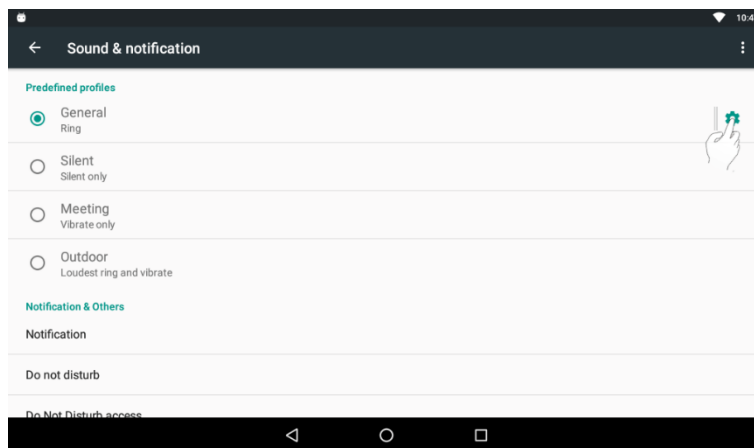

Select the required language from the list:
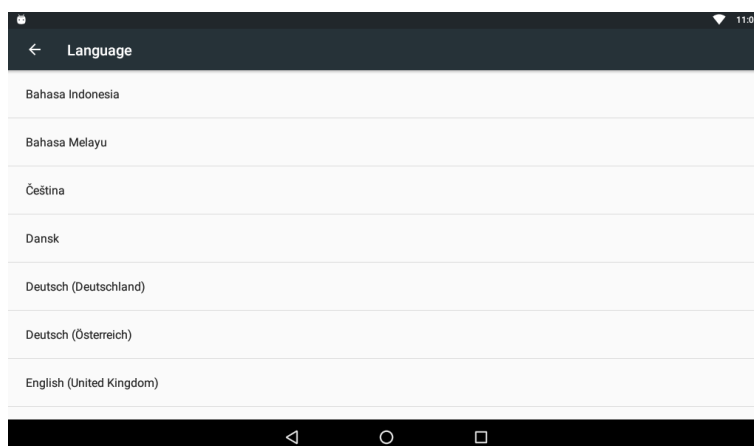
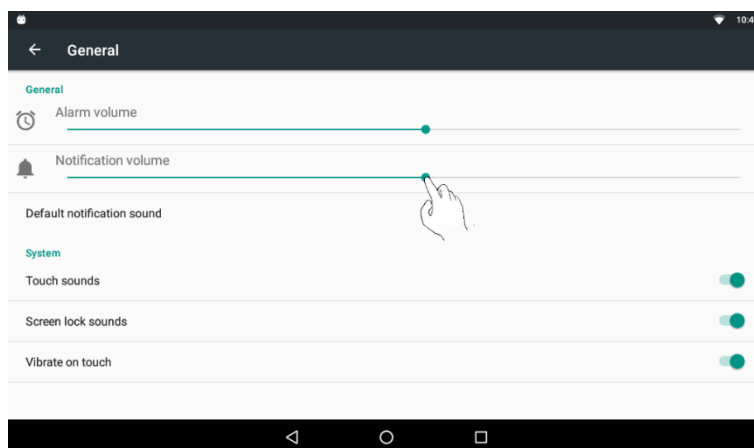*Modifying the volume of notifications*

When the settings page has opened, click on "Sound and notifications":
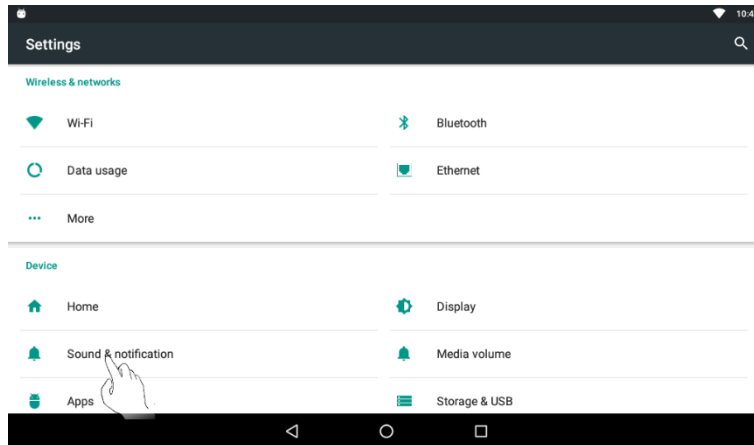
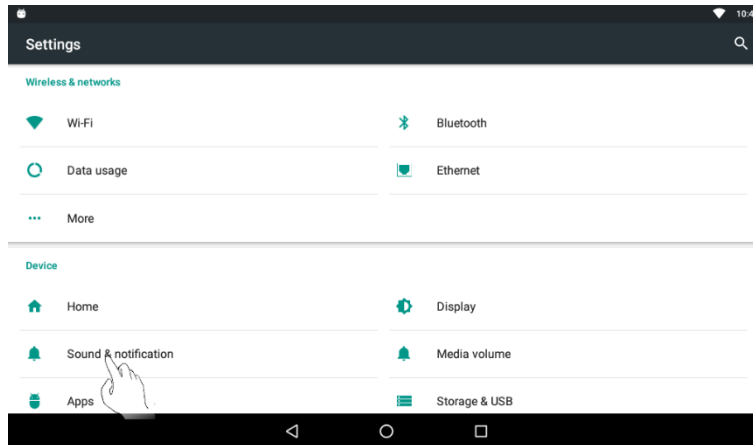On the page that opens, click on the ⚙ icon to the right of the item "General":

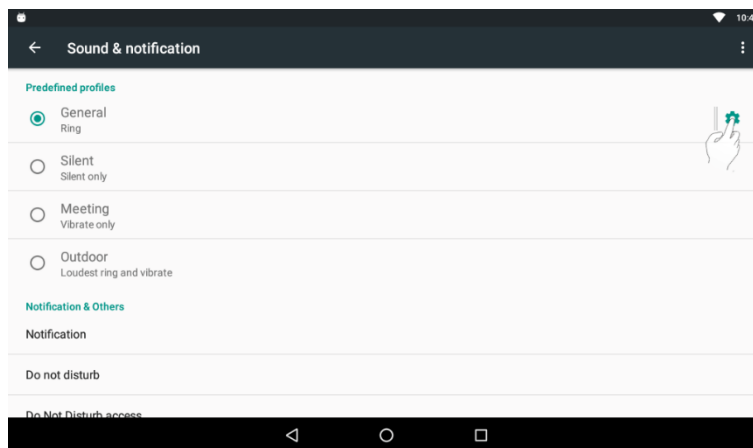On the page that opens, drag the indicator next to the item "Notification volume" to regulate that item:

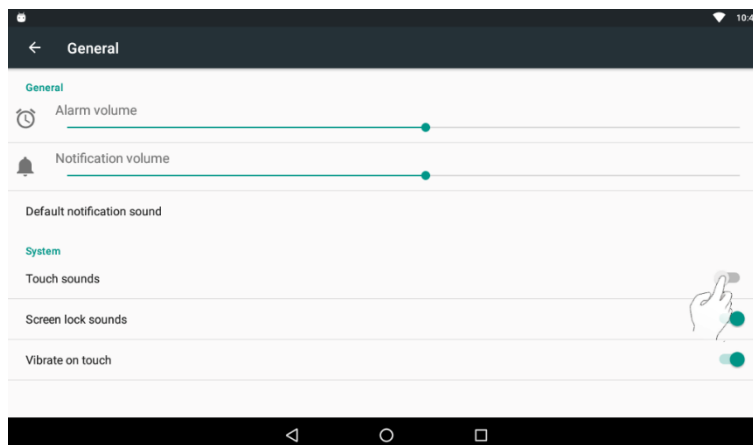*Activating / deactivating the button key pressing sound*

When the settings page has opened, click on "Sound & notification":

On the page that opens, click on the ⚙ icon to the right of the item "General":

On the page that opens, drag the indicator next to the item "Touch sounds" to the right or left, to activate or deactivate the sound:

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