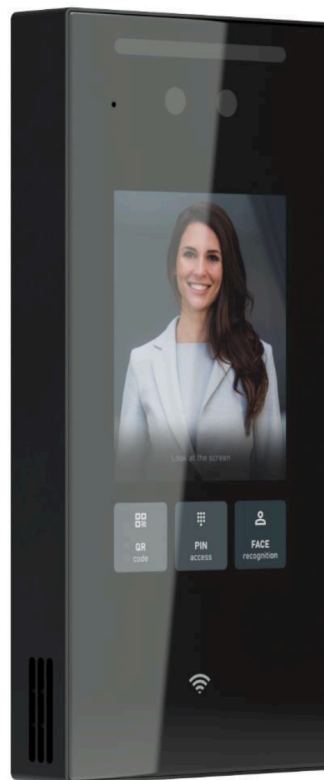




QUICK INTEGRATION GUIDE
To configure DICO in combination
with DELÈGO PANELS
And DICO APP



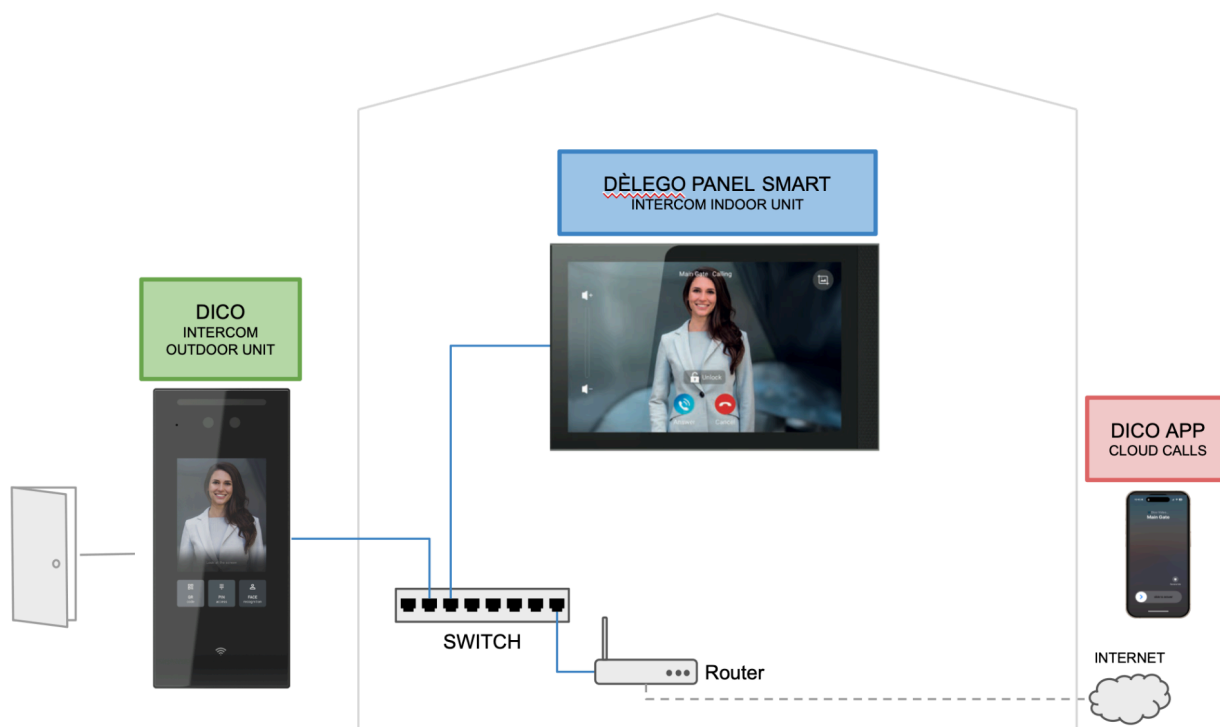
DICO EK-5DP-VI video intercom

1. INTRODUCTION

This guide is a simplified version of a more comprehensive guide for configuring Dico. In this document, you will be guided step by step through the configuration of:

- N. 1 Dico Intercom as external unit
- N. 1 Delègo Panel Smart 8" or 10" as internal unit and PBX Server
- APP Dico to receive call via Cloud

Here is the diagram of the connections:



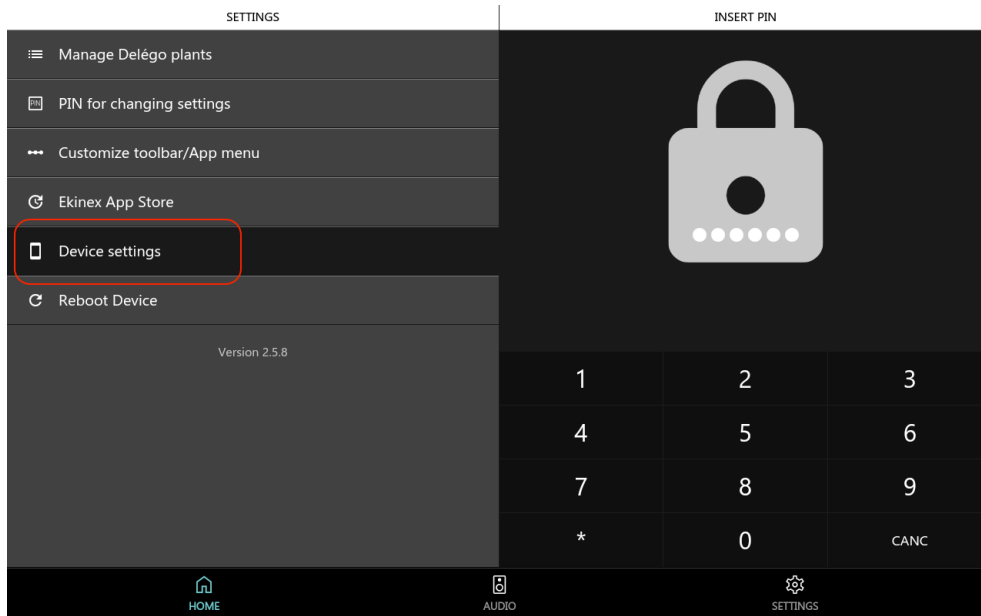
Here are the firmware versions of the devices explained in this guide:

ART. NUMBER	DESCRIPTION	FIRMWARE/SOFTWARE VERSION
EK-5DP-VI	Dico IP door phone 5"	216.43.0.34
EK-DEL-8PAN-S EK-DEL-10PAN-S	Delègo Panel Smart	563.43.13.303 (8" Smart) 567.43.13.303 (10" Smart)
	Dico App	1.2.0

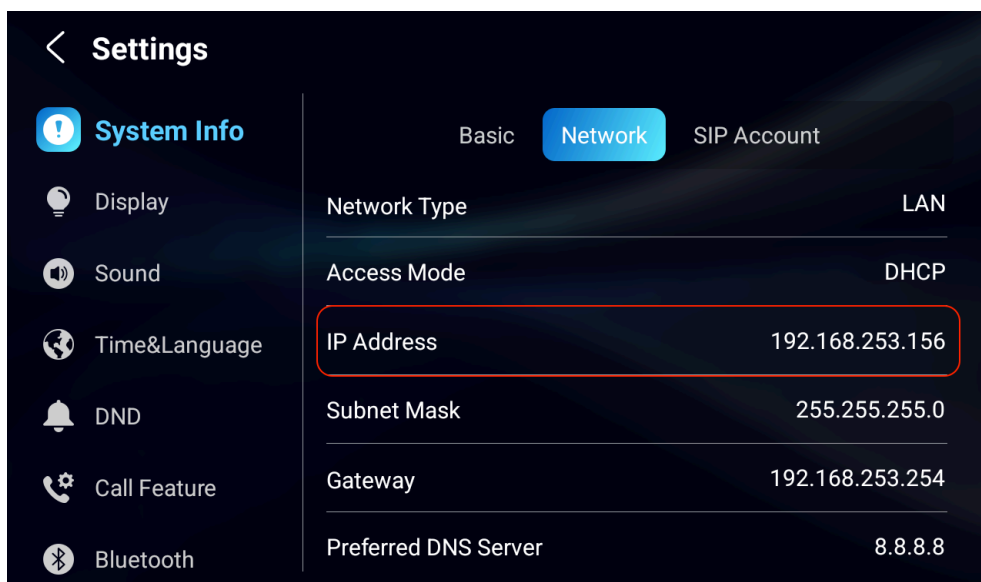
The color guide will help in understanding where the step needs to be configured.

2. DELÈGO PANEL CONFIGURATION

First identify the IP address of the touch panel; to do this, from the home screen on the touch panel go to Settings and then select Device Settings. Insert the password (Default: 123456).



Then accessing the NETWORK section. If the panel is connected to both the wired LAN network and the WIFI network, two distinct addresses will be available; it is possible to use either one indifferently,



Enter the IP address into a web browser and enter the user credentials *admin* (default password: "admin") to enter the DELÈGO PANEL SMART configuration menu.

PBX > BASIC

Enable the checkbox and press SEND (*SUBMIT*) to confirm; after a few seconds, the PBX status should become “started” (*started*) as in the previous figure.

The table below contains a list of pre-configured *SIP clients*. Edit the first configuring Dico outdoor unit and the second configuring the Delego Panel.

DISPLAY NAME	Enter a descriptive that will be displayed on the touch panel and on the display of other SIP devices during the call (Example: Main Gate)
USERNAME	If you use the convention suggested in this manual, the first outdoor unit will be numbered 900, the first indoor unit 1000
PASSWORD	Choose a password that will be used configuring Dico and Delego Panel

English | LogOut

PBX » Basic

PBX Basic

PBX Service Enabled ?

PBX Status Started ?

Media Mode Default ?

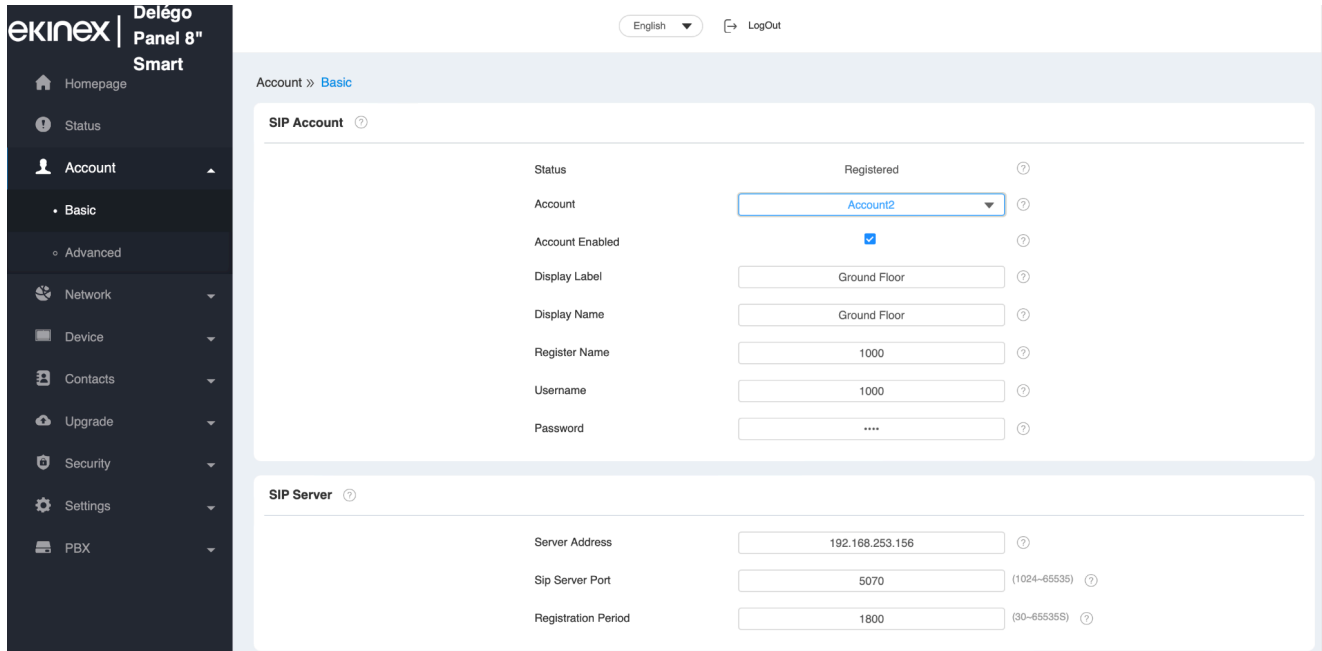
PBX Port 5070 ?

[+ Add](#)

<input type="checkbox"/>	Index	Username	Password	Display Name	Status	Edit
<input type="checkbox"/>	1	900	900	Main Gate	Registered	✎
<input type="checkbox"/>	2	1000	1000	Ground Floor	Registered	✎
<input type="checkbox"/>	3	1001	abc1001	Extension 1001	UnRegistered	✎
<input type="checkbox"/>	4	1002	abc1002	Extension 1002	UnRegistered	✎
<input type="checkbox"/>	5	1003	abc1003	Extension 1003	UnRegistered	✎
<input type="checkbox"/>	6	1004	abc1004	Extension 1004	UnRegistered	✎
<input type="checkbox"/>	7	1005	abc1005	Extension 1005	UnRegistered	✎
<input type="checkbox"/>	8	1006	abc1006	Extension 1006	UnRegistered	✎
<input type="checkbox"/>	9	1007	abc1007	Extension 1007	UnRegistered	✎
<input type="checkbox"/>	10	1008	abc1008	Extension 1008	UnRegistered	✎

[Delete](#) [Delete All](#) [Prev](#) 1/101 [Next](#) [Go](#)

ACCOUNT > BASIC

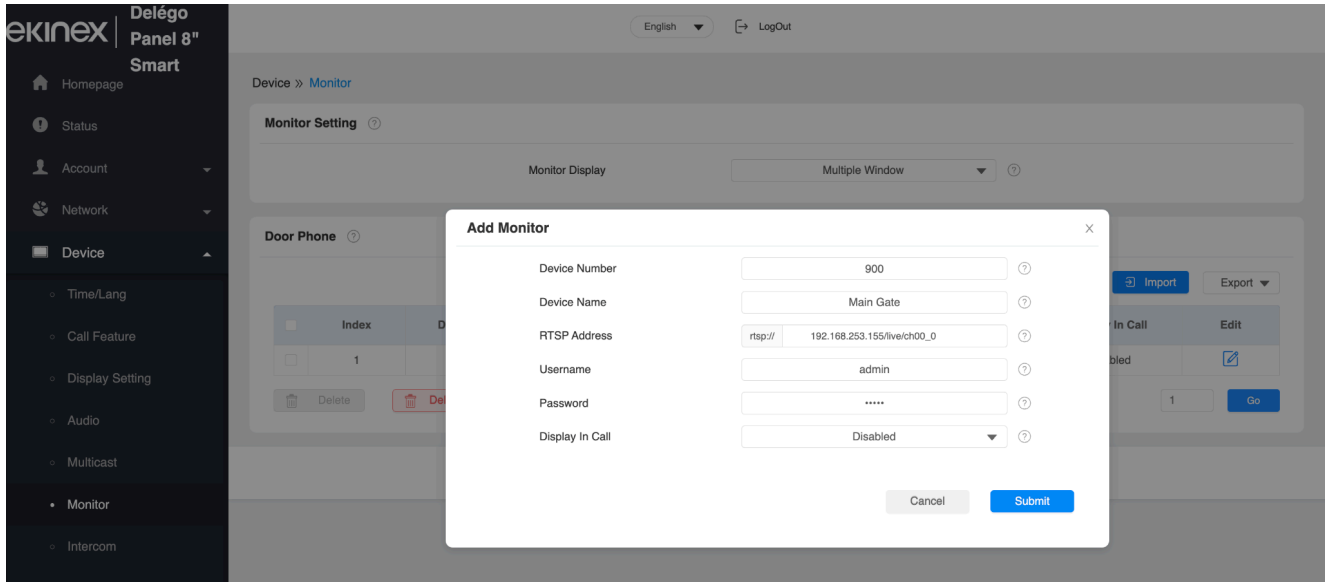


After selecting “Account2” and enabling it with the appropriate check box, you need to enter the following information:

DISPLAY LABEL DISPLAY NAME	Enter a descriptive that will be displayed on the touch panel and on the display of other SIP devices during the call
REGISTER NAME USERNAME	Enter the <i>username</i> that is, the telephone number set up in the SIP server, as seen previously. If you use the convention suggested in this manual, the first touch panel will be numbered 1000, the second 1001 etc...
PASSWORD	Specify the corresponding password as set up in the SIP server
SERVER ADDRESS	Indicate the IP address of the DELÉGO PANEL.

After completing the entry of the required data, press **SUBMIT** to save the configuration and make it effective. Verify that after a few seconds the STATUS of the account changes to *registered*.

DEVICE > MONITOR



DEVICE NUMBER	Indicate the number associated with the DICO video intercom. This number is used by DELÉGO PANEL SMART to identify the correct video source to preview.
DEVICE NAME	Label displayed during the call with the video intercom
RTSP ADDRESS	Enter the following address: <ip address>/live/ch00_0 where the first part is the IP address of the DICO outdoor unit.
USERNAME PASSWORD	Insert the credentials entered in the RTSP section of the DICO outdoor station

DEVICE > RELAY

Remote Relay By HTTP ?

<input type="checkbox"/>	Index	IP/SIP	URL	Username	Password	Door Num
<input type="checkbox"/>	1	192.168.253.155	<input type="text"/>	admin	1 x <input type="text"/>
<input type="checkbox"/>	2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1 x 2 x 3 x 4 x <input type="text"/>
<input type="checkbox"/>	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1 x 2 x 3 x 4 x <input type="text"/>
<input type="checkbox"/>	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1 x 2 x 3 x 4 x <input type="text"/>
<input type="checkbox"/>	5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1 x 2 x 3 x 4 x <input type="text"/>

Softkey In Talking Page ?

Key	Status	Display Name	Type
Key1	Enabled <input type="text"/>	Main Gate <input type="text"/>	Remote Relay HTTP 1 <input type="text"/>
Key2	Disabled <input type="text"/>	Unlock2 <input type="text"/>	Auto <input type="text"/>
Key3	Disabled <input type="text"/>	Unlock3 <input type="text"/>	Auto <input type="text"/>

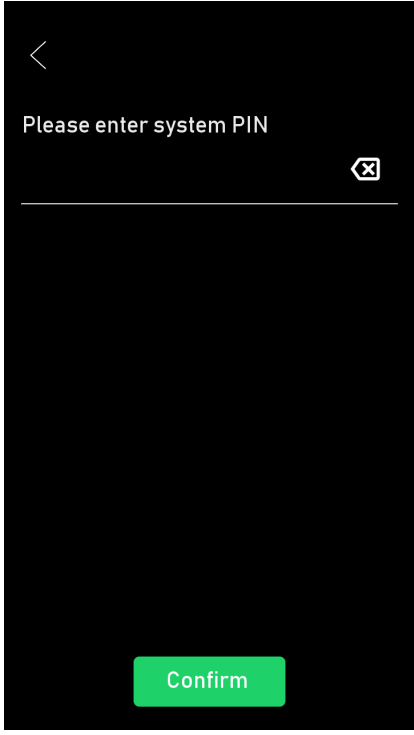
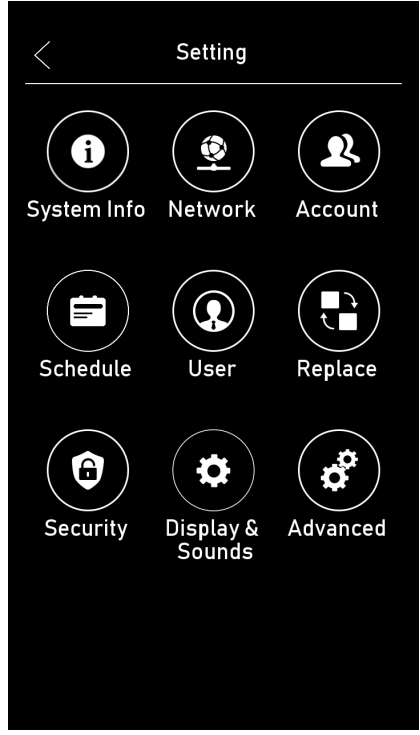
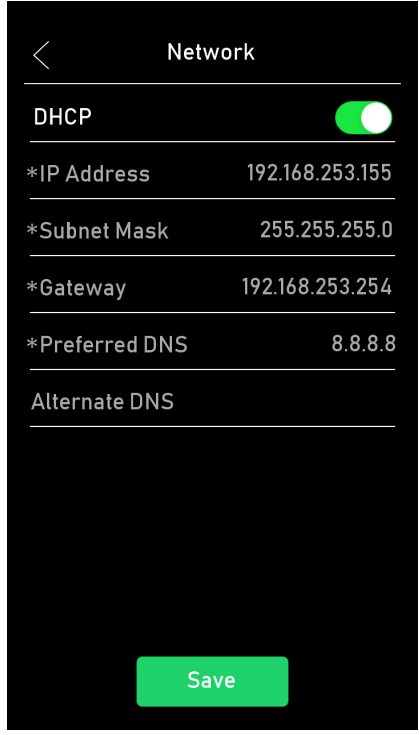
SoftKey In Call-Preview Page ?

Key	Status	Display Name	Type
Key1	Enabled <input type="text"/>	Main Gate <input type="text"/>	Remote Relay HTTP 1 <input type="text"/>
Key2	Disabled <input type="text"/>	Unlock <input type="text"/>	Auto <input type="text"/>
Key3	Disabled <input type="text"/>	Unlock <input type="text"/>	Auto <input type="text"/>

IP / SIP	IP Address of DICO video intercom
USERNAME PASSWORD	Credentials to pass in the HTTP call
Door Num	Leave only number 1

The label inserted in the DISPLAY NAME field will be shown in the button on the display, it is therefore advisable to insert a wording that refers to the corresponding lock (Example: Main Gate).

3. DICO CONFIGURATION

		
<p>Press anywhere on the screen and hold your finger down for more than 10 seconds until you are asked for a password Enter <i>admin</i> and press Confirm</p>	<p>Press <i>Network</i></p>	<p>Take note of the IP Address of the Outdoor Unit</p>

Enter the IP address into a web browser and enter the user credentials *admin* (default password: "admin") to enter the DICO configuration menu.

ACCOUNT > BASIC

The screenshot shows the 'Account >> Basic' configuration page. The 'SIP Account' section includes fields for Status (Registered), Account (Account2), Account Enabled (checked), Display Label (Main Gate), Display Name (Main Gate), Register Name (900), Username (900), and Password (masked with ***). The 'Preferred SIP Server' section includes Server Address (192.168.253.156), Sip Server Port (5070, with a range of 1024-65535), and Registration Period (1800, with a range of 30-65535 Sec). 'Cancel' and 'Submit' buttons are at the bottom.

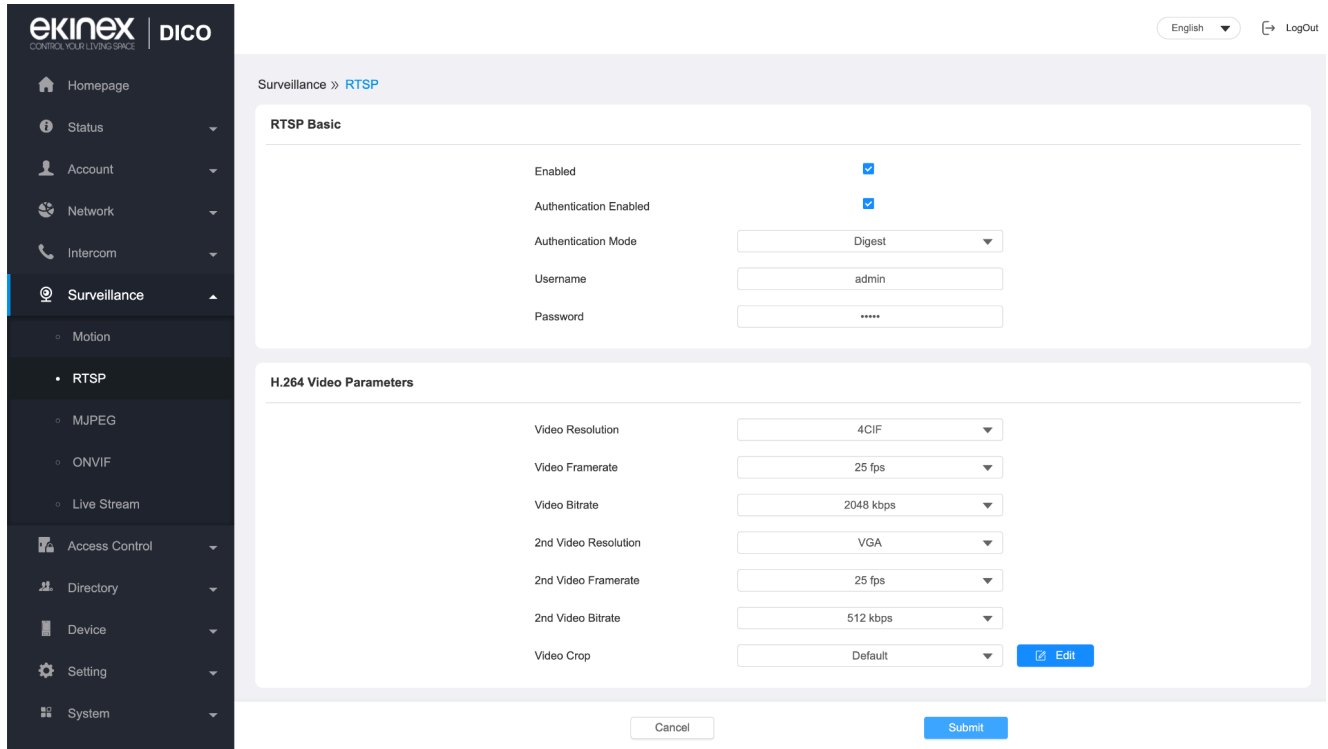
DISPLAY LABEL DISPLAY NAME	Enter a descriptive that will be displayed on the touch panel and on the display of other SIP devices during the call (Example: Main Gate)
REGISTER NAME USERNAME	Enter a <i>username</i> that is the telephone number set up in DELÉGO PANEL, as seen previously. If you use the convention suggested in this manual, the first DICO outdoor unit will be numbered 900, the second 901 etc...
PASSWORD	Specify the corresponding password as set up in DELÉGO PANEL
SERVER ADDRESS	Enter the IP address of DELÉGO PANEL
SIP SERVER PORT	5070



DO NOT USE ACCOUNT 1 FOR REGISTRATION ON THE SIP SERVER, because it's dedicated to cloud calls.

All the other parameters can be left blank or at their default value; press SUBMIT to save the configuration, and verify that the STATUS (after a few seconds) changes to REGISTERED.

SURVEILLANCE > RTSP

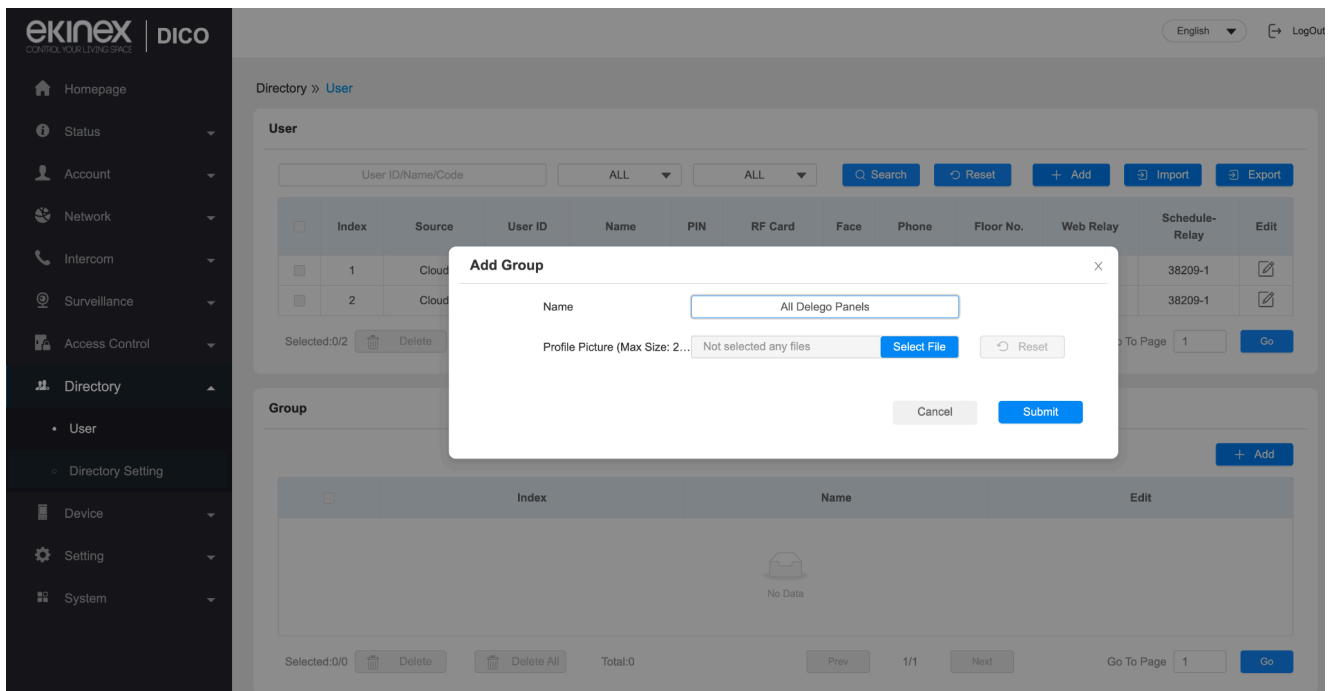


ENABLED	Must be selected to view camera video
AUTHENTICATION MODE	It is recommended to enable authentication with a set of credentials to be set in the appropriate fields, selecting DIGEST as Authentication Mode
VIDEO CUTTING	Default: You can specify which area of the vertical flow to crop in 4:3 format. This is the best option for Delego panels

DIRECTORY > USER

Before creating local users, it is advisable to prepare GROUPS, i.e. sets of local users who can be called with a single action on the video intercom (e.g. pressing a button).

When creating a group, you are only asked to specify a NAME:



To create a new local user, press the ADD button in the user list;

User » [Edit User](#)

User Info

	User ID	<input type="text" value="1"/>
	Name	<input type="text" value="Delego Panel Ground Floor"/>

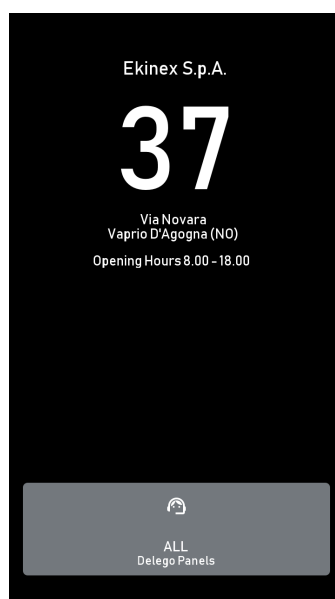
Contact Details

	Type	<input type="text" value="Tenants"/>
	Phone	<input type="text" value="1000"/>
	Group	<input type="text" value="All Delego Panels"/>
	Priority Of Call	<input type="text" value="Firstly"/>
	Dial Account	<input type="text" value="Account2"/>
	Profile Picture	<input type="button" value="Import"/> <input type="button" value="Reset"/>

SECTION	SETTING	DESCRIPTION
USER INFO	NAME	Free field that will be used to identify the user both in calls and on the video intercom display
CONTACT DETAILS	TELEPHONE	Telephone number to use to call the local user. If the local user represents a touch-panel, enter his number as previously set e.g.: 1000, 1001 etc... If the local user represents a person with DICO app, it is necessary to enter his cloud number, as better specified in PART II of this manual.
	GROUP	If you want the user to be part of a group, select it in the appropriate drop-down menu. In this way it will be possible to call it together with other users (e.g. to ring all the touch-panels in the house with a single button on the video intercom).
	DIAL ACCOUNTS	Account1: If it is a cloud user to call via app Account2: if it is a user (e.g. touch-panel) connected to the local SIP server

DEVICE > LCD

This section allows you to set the display of the video intercom. There are many configuration options, in this guide we will obtain a simple result with a single Button to call a Group with a Delego Panel. Later in this guide we will also add Cloud Users to this Group. This is the result:



Company Information

Company Name	<input type="text" value="Ekinex S.p.A."/>
Street Number	<input type="text" value="37"/>
Company Address	<input type="text" value="Via Novara Vaprio D'Agogna (NO)"/> ?
Working Hours	<input type="text" value="Opening Hours 8.00 - 18.00"/>

Key In Homepage

Display Type

Speed Dial Tenants Display Company ...

QR Code Recognition Interval(Sec)

ID	Name	Type	Value
1	<input type="text" value="ALL Delego Panels"/>	<input type="text" value="Speed Dial"/>	<input type="text" value="All Delego Panels"/>
2	<input breaks"="" for="" line="" type="text" value="Use " "=""/>	<input type="text" value="NULL"/>	<input type="text" value=""/>
3	<input breaks"="" for="" line="" type="text" value="Use " "=""/>	<input type="text" value="NULL"/>	<input type="text" value=""/>

Upload Background

Company Info Page Background

?

In the Company Information Fields you can write whatever you want and it will be displayed in the nome page of the Outdoor Unit.

ACCESS CONTROL > RELAY

Open Relay Via HTTP

Enabled	<input checked="" type="checkbox"/>
Username	<input type="text" value="admin"/>
Password	<input type="text" value="....."/>

ENABLED	Allows opening via HTTP command
USERNAME PASSWORD	Credentials to pass in the HTTP call

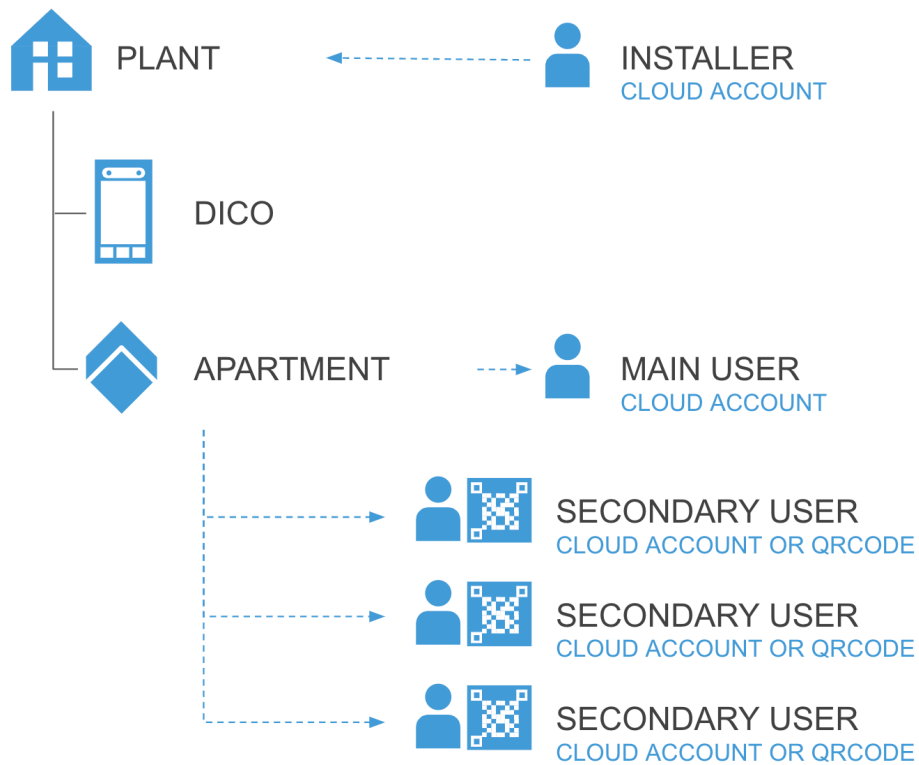
4. DICO APP CONFIGURATION

This section is dedicated to the configuration of a DICO video intercom system for use with the app through the cloud, in order to receive calls from outdoor unit on your smartphone.

To allow a DICO video intercom to operate via the cloud, a PLANT must first be created in which the intercom must be inserted. This operation is carried out via the app, as better illustrated below, and can be done by:

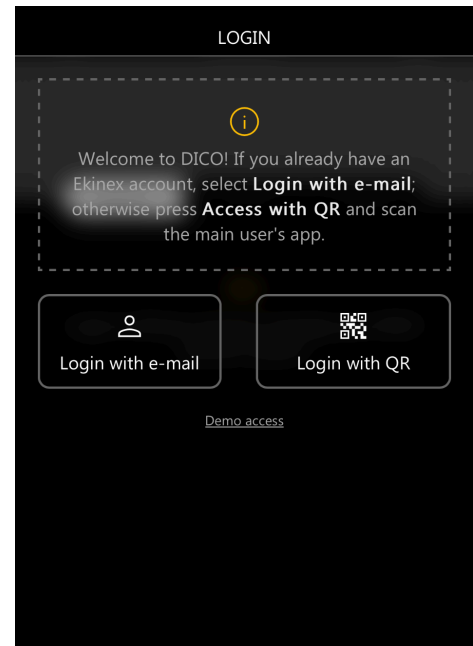
- An INSTALLER who, once the configuration for his customers has been completed, will not be a user of the system
- An END USER who, at the end of the configuration, will also be the main user of the system (together with any other secondary users)

The following diagram illustrates the situation of a single-family system:



When opened for the first time, the app asks how to login to the system; there are two modes:

<p>LOGIN VIA E-MAIL</p>	<p>If the user has an account on the Ekinex cloud, the login can be done by entering email and password.</p> <p>This access method is mandatory for both the INSTALLER and the MAIN USER of each apartment (if they do not coincide with the same account).</p>
<p>LOGIN WITH QR</p>	<p>SECONDARY USERS can be invited to login by generating a QR code on the main user's (or installer's) phone to be scanned during the login, without entering a password.</p> <p>This access method is reserved exclusively for SECONDARY USERS.</p>

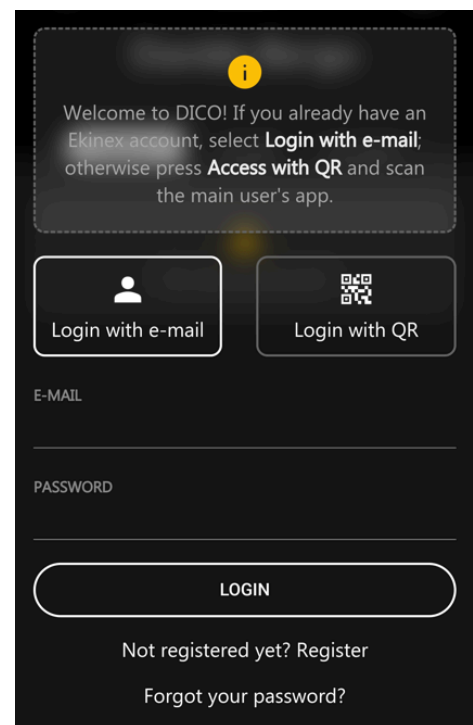


If you do not yet have an account on the Ekinex cloud, press the REGISTER button and enter the requested information, agreeing to the terms of use and privacy reported in the app.

At the end of the registration you will receive an email containing a link that you must press to validate the registration.

Once you have entered username and password, a screen containing your name and the list of associated DICO external units, is shown.

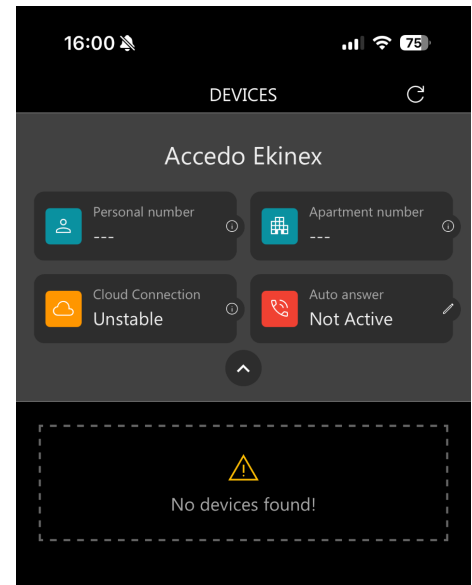
This list is empty when creating a new system.



To create a new PLANT click on **“No devices found!”** to enter the configuration page. First of all you need to add a New Plant. You are asked for the following information (all mandatory):

NAME	Building identification label
ADDRESS CAP CITY	Data related to the geographical location of the plant


It is always possible to edit an existing system at a later time, to change its name or manage its video intercoms and apartments, as detailed below.



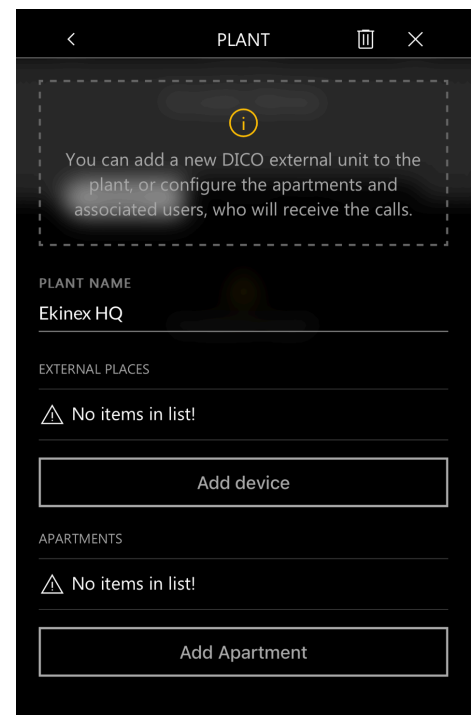
Once added to a PLANT it is possible to associate one or more DICO video intercoms with the system using the **“Add Device”** button.

The following information is requested:

DEVICE NAME	Video intercom identification label. It appears on the app's main screen
MAC ADDRESS	Unique address of the video intercom, shown on the adhesive label on the back of the device. You can scan it directly with your phone's camera, or type it manually.



A DICO video intercom can only be associated with a single cloud PLANT.
To remove a video intercom from a system, please contact technical support.

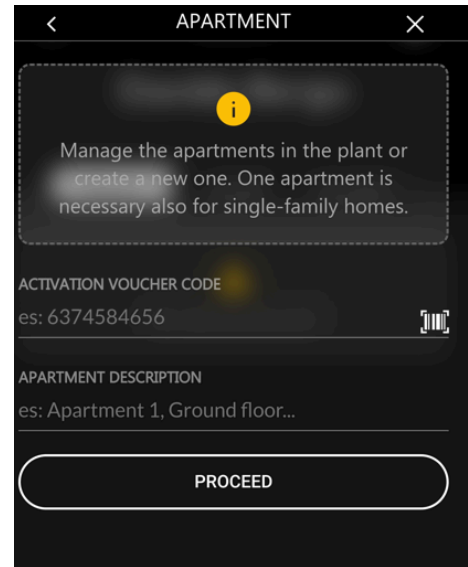


Once added the DEVICE it is asked to create at least one APARTMENT using the "Add Apartment" button.

For each of them, the following information is requested:

APARTMENT DESCRIPTION	Apartment identification label
-----------------------	--------------------------------

If the voucher is valid, the apartment is created, and you are taken to the next step for the users association. It is always possible to access this screen directly by selecting the apartment in the list.



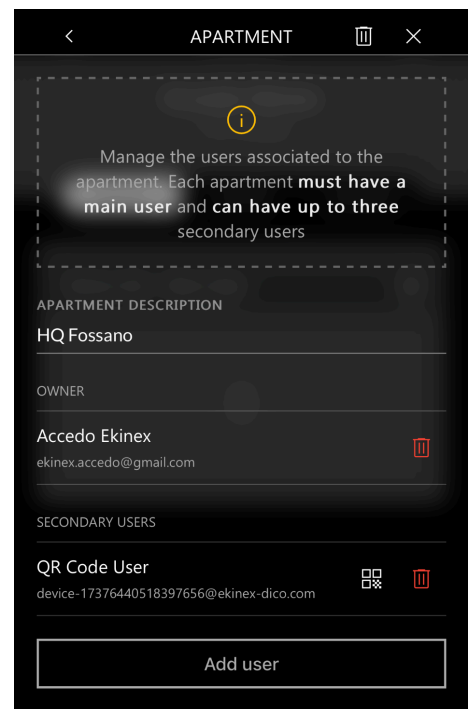
Each APARTMENT must be associated to one or more users, who will receive the calls from the intercom system.

Entering the APARTMENT section is possible to associate the OWNER and the SECONDARY USERS.

In the OWNER section it is possible to enter the email address of the main user's account; the corresponding Ekinex cloud account must have been created previously.

In the SECONDARY USERS section, it is possible to associate up to 3 users who will be able to access the DICO app with their smartphones, and operate on the same system.

By pressing the "ADD USER" button you are asked if you want to invite the user with their email (it must be an account on the Ekinex cloud in this case) or via a QR, which in this case is generated directly by the app, and must be scanned by the interested party's smartphone (during the login phase of the DICO app).

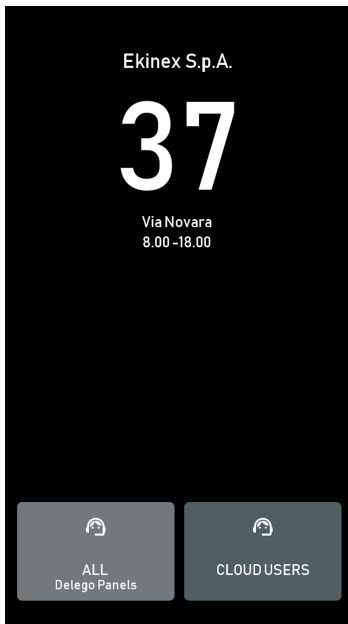


At the end of the procedure close and reopen Dico APP. You will see in the mail page the intercom configured.

Please reboot the Dico outdoor station, to connect to the cloud.

5. CLOUD CALL CONFIGURATION

In this section we will add a second button on the Dico interface, to call all the cloud users:



In Dico web page go to:

DEVICE > LCD

In this section add a second button with these parameters:

Key In Homepage

Display Type: Company Information

Speed Dial Tenants Display Company ...:

QR Code Recognition Interval(Sec): 2

ID	Name	Type	Value
1	ALL Delego Panels	Speed Dial	All Delego Panels
2	CLOUD USERS	Speed Dial	1107004321
3	Use "]" for line breaks	NULL	

NAME	Name that will be visualized on the button
TYPE	Speed Dial
VALUE	Insert the Apartment Number that you find in the app DICO

The screenshot shows the 'DEVICES' screen in the DICO app. At the top, it displays 'User Demo'. Below this are two input fields: 'Personal number' (1234567890) and 'Apartment number' (1234567890). There are also two status indicators: 'Cloud Connection' (Connected) and 'Audio Response' (Active). A video feed is shown below, currently displaying a 'Home' scene. At the bottom, there is a toolbar with icons for 'Devices', 'Log calls', 'Log opens', and 'Settings'.

ACCOUNT NAME — Points to the 'User Demo' header.

PERSONAL NUMBER — Use this in DICO to call directly this specific user. Points to the 'Personal number' field.

APARTMENT NUMBER — Use this in DICO to call all the users in the apartment simultaneously. Points to the 'Apartment number' field.

CLOUD CONNECTION — State of the cloud services. Points to the 'Cloud Connection' status.

AUTO ANSWER — If not enabled, the video is shown when catching the call, but the visitor remains waiting for an answer, until the MUTE button is pressed. Points to the 'Audio Response' status.

DEVICE NAME — Identifier of the external unit. Points to the 'Home' label above the video feed.

IMAGE PICKER — Allows the customization of the external unit in the list, by choosing a picture in the phone's gallery. Points to the image icon in the top right of the video feed.

TOOLBAR — Gives access to:

- The list of external units (devices)
- The log of the calls
- The history of door openings
- App settings & configuration