



Configuration manual – v2.5

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Important considerations



Some KNX / IP Routers – Gateways only allow one simultaneous active connection, preventing that more than one iPhone/iPad is connected at the same time. Besides, in situations with low WIFI coverage, it is possible that the application does not reconnect as it should, then it appears the error of maximum number of simultaneous connections. **In order to not have this limitation, we recommend using IP communication module with more than one simultaneous connection, for example the IPS 100 REG (Jung) or 148-UAB22 (Siemens).**



For this application to work correctly, showing the current status of the different devices, it is necessary to activate the *reading flags* of the specified group directions (see the device section).



For connections over VPN, it is recommended using the manual IP option. This option can be found in the section of iPhone/iPad adjustments. For further information about VPN connections, consult the manual: *VPN remote access configuration*.

Introduction

Configuration

Download Houseinhand® from the App Store for free.

Now, the application will execute in demonstration mode. You can see a sample of the interface and navigate through the menus, but not controlling your house.



To allow Houseinhand® to control your house, two files must be transferred to it:

- **xxxxxxx.cfg**: This file contains the necessary configuration information for the application to recognize your house.
- **zzzzzzz.hih**: This file is the license.

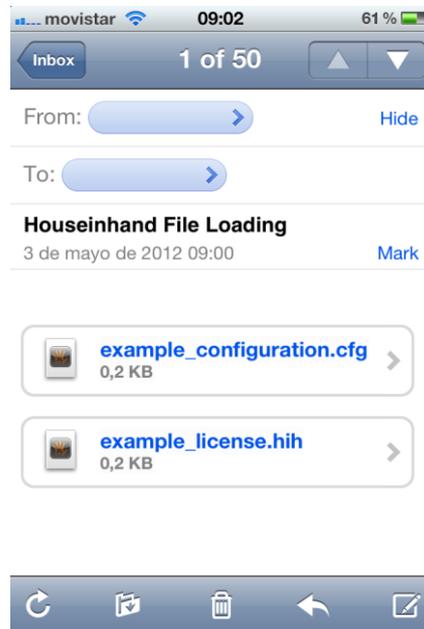
The configuration file can be shared by several people as long as they want to control the same house, with the same room and device structure.

In the case that not all of the family/company members need to be able to control the same rooms of the house/office, it will be necessary to create a configuration file for each one of them.

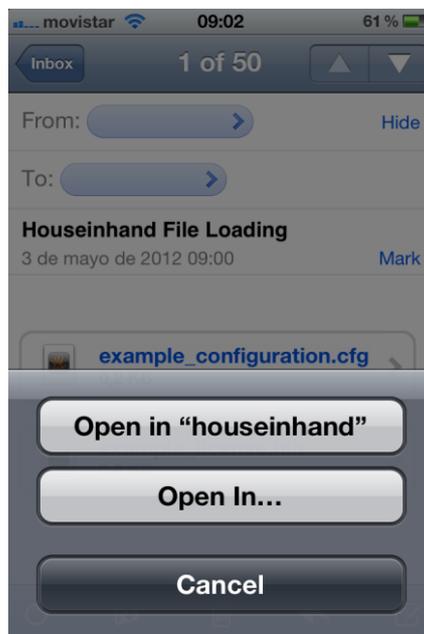
The license file is referenced to the UDID (unique identifier number of each device) in a way that it will not be able to be shared. The license file only works on the device it was created for.

In order to transfer the files to your device, please follow this steps.

- 1 Configure your email account in the device built-in Mail app.
- 2 Send the file you want to load to the mail account configured in your device.
- 3 Launch Mail app and open the mail you have sent.



- 4 Click on the file you want to load and select “Open with Houseinhand”



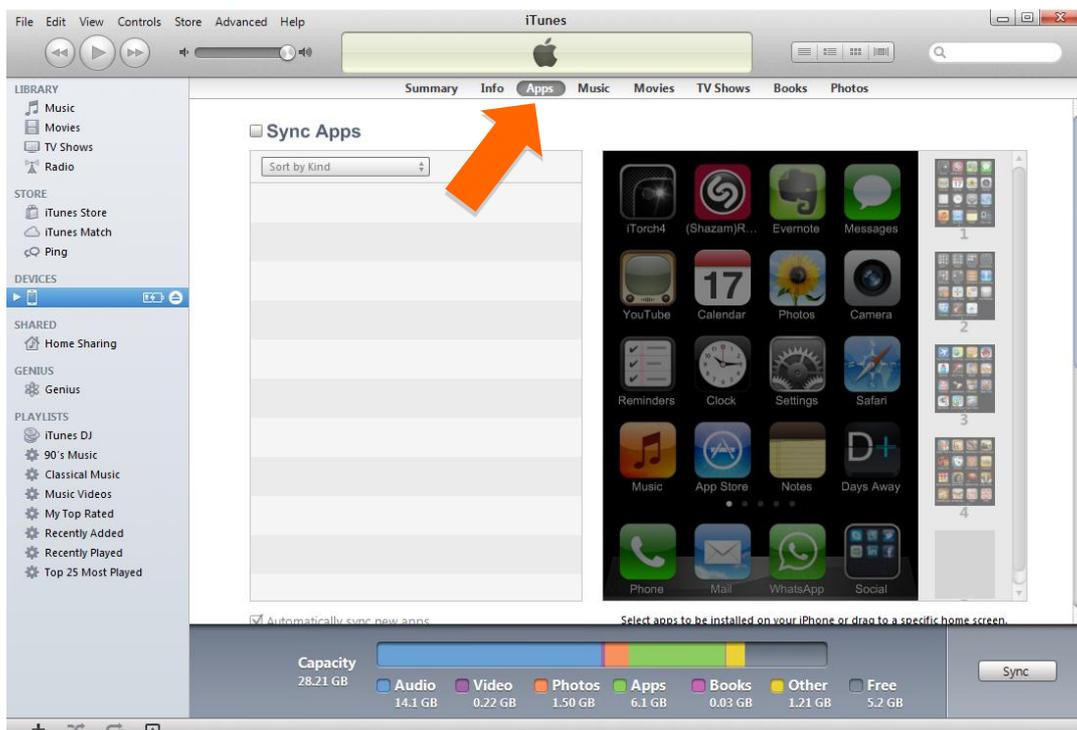
That is all. Houseinhand® will be opened with the file load automatically.

Another way to transfer the files to your device is the File Sharing method.

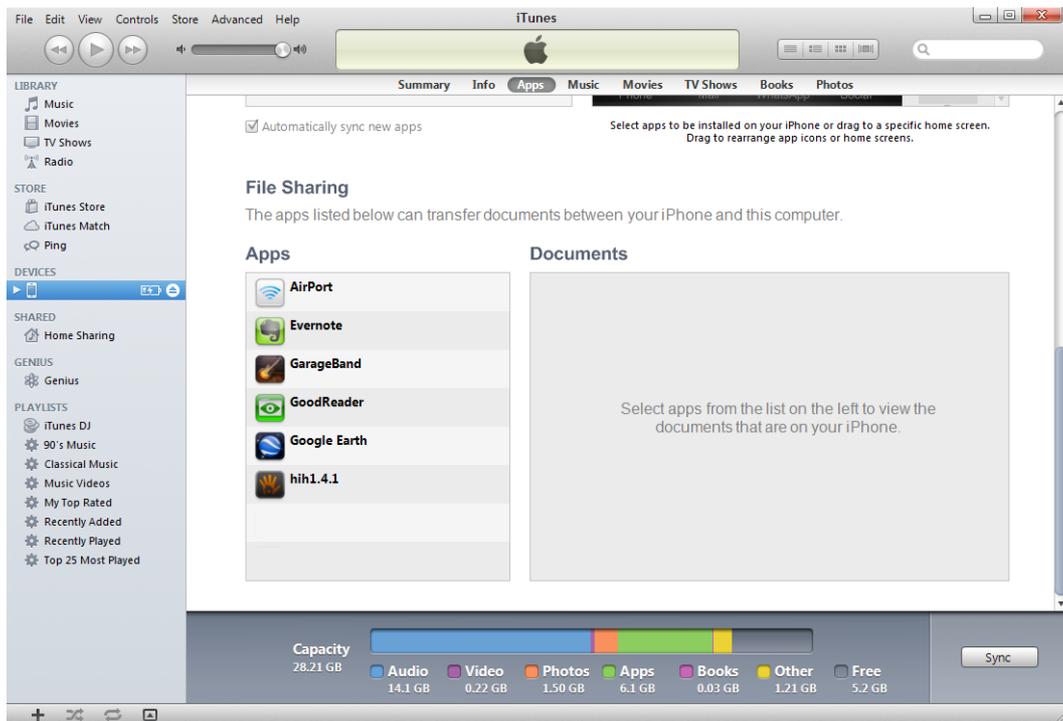
- 1 Open iTunes.
- 2 Select the device you want to configure in the left side bar.



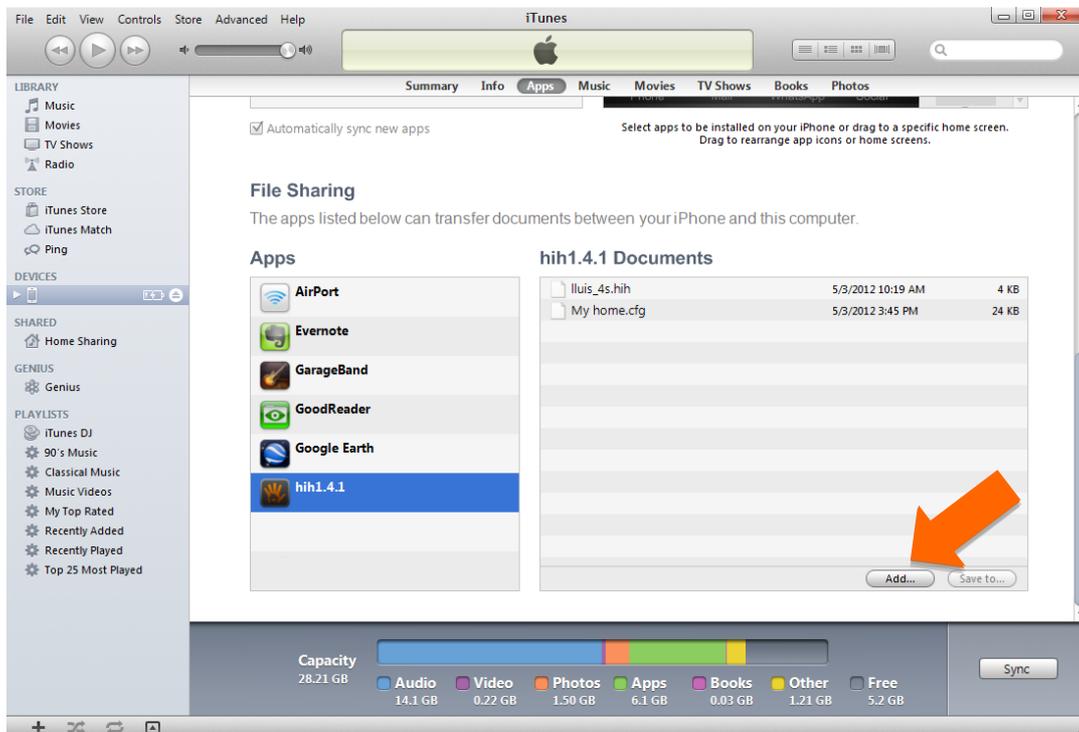
- 3 Select the Applications tab.



- 4 Get help from the scrolling bar in order to navigate towards the lower part of the window until you find 'File Sharing' and select Houseinhand®.



- 5 Click in the button 'add' and select the files.



That is all. Next time you start Houseinhand® in your device, the application will recognize your house and it will be ready to control it **(please see next section, Multitask, if you have used File Sharing method instead of mail)**.

Multitask

Houseinhand® supports multitask. This will allow that when you exit the application and start it again, it will be just right where you left it.

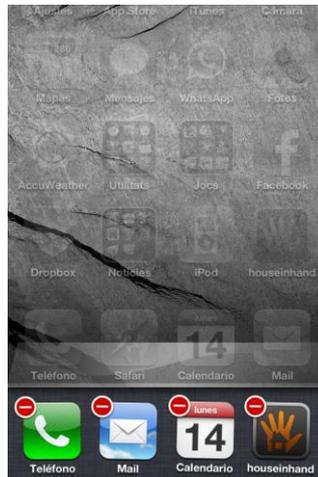
However, whenever you make a change in the configuration files you will have to close the application completely so that they have effect.

To close the application completely:

- Press twice the Home button (physical button in the lower part of your device).



- Once the multitask bar is opened, keep the finger on any of the icons until they start to tremble.



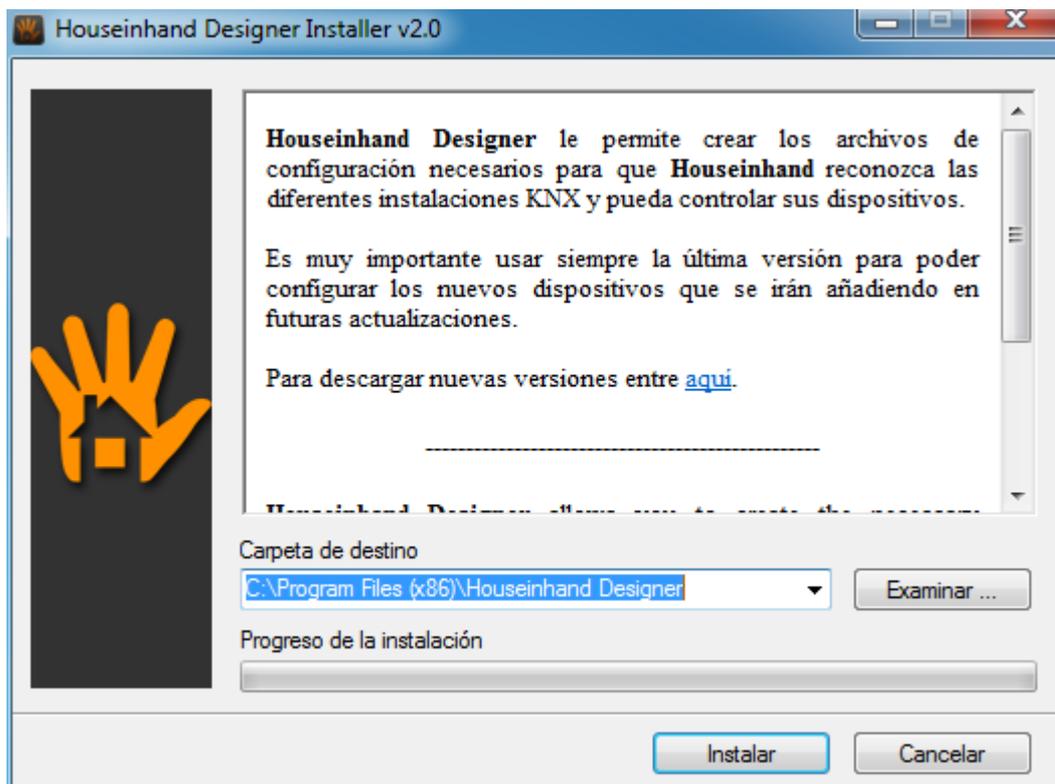
- Press on the red button that appears in the Houseinhand® icon and the application will close completely.

Program installation

Installation

In order to be able to configure the house, it is necessary to download **Houseinhand Designer** from the download section of the web site www.houseinhand.com

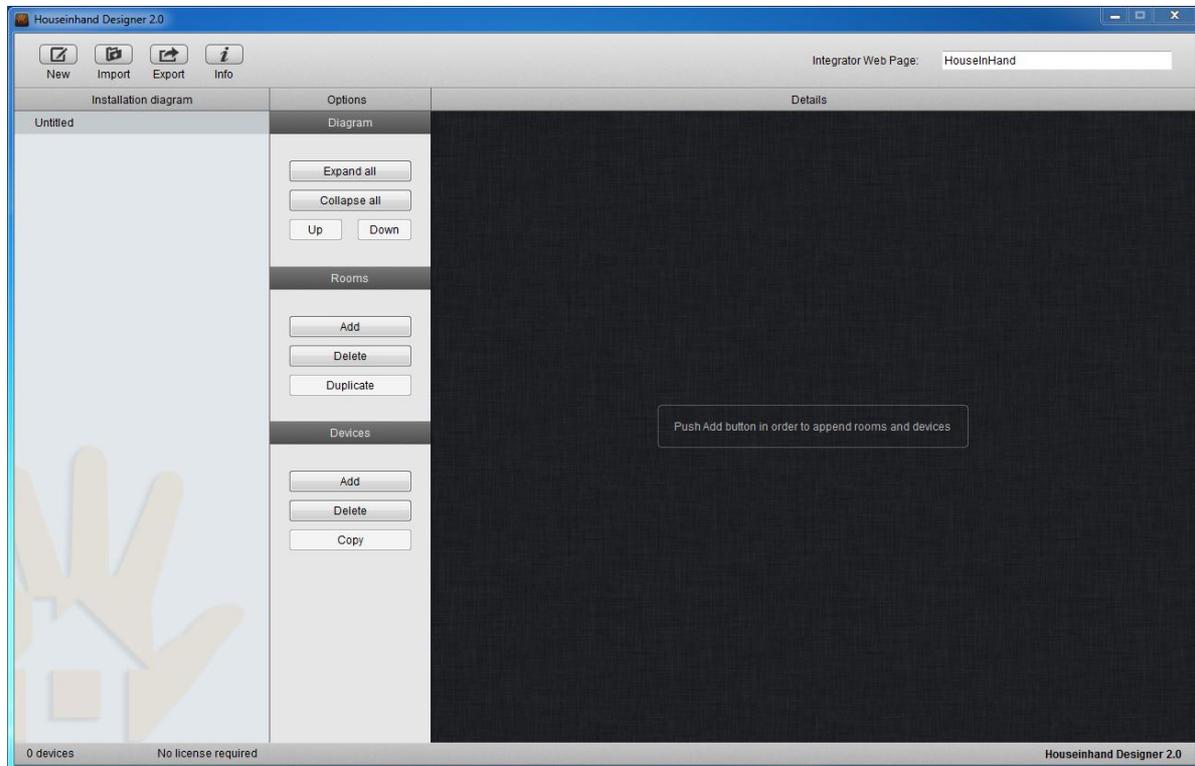
Once the program is downloaded, execute the installer. It will appear a window as the one below:



Once selected the directory where the program will be installed, press “*Install*” for the program to install.

First steps

General vision



Now, launch the program from the desktop shortcut. The main window of the application will appear.

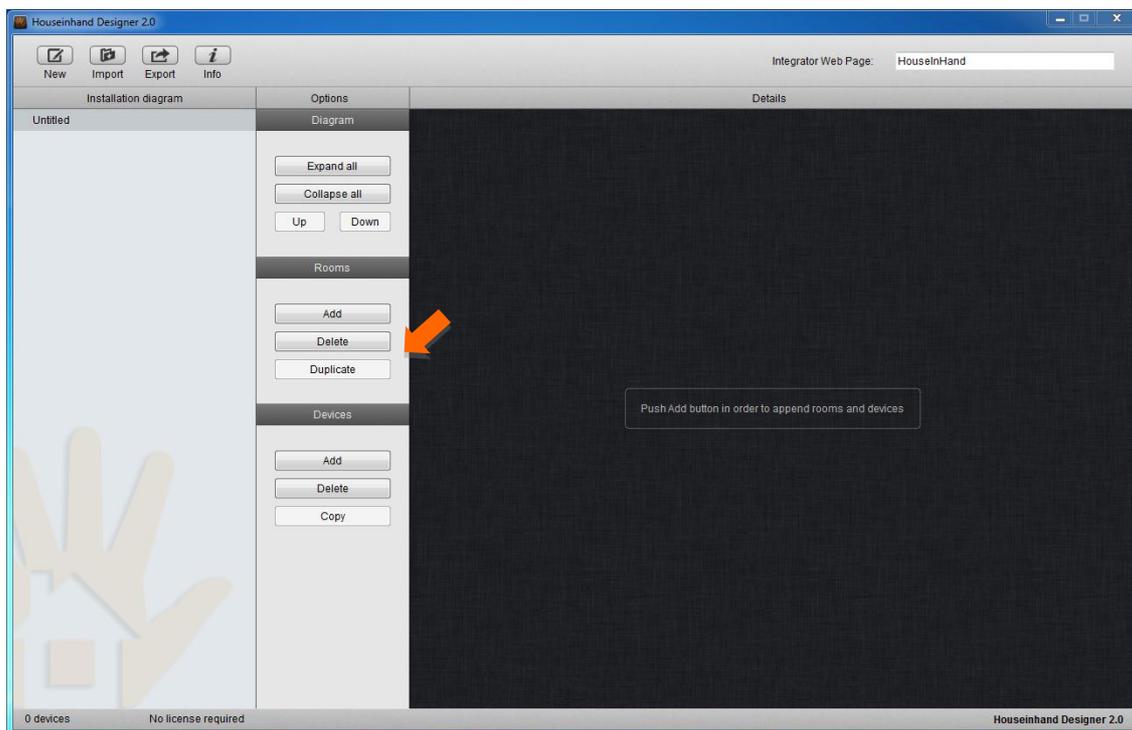
From there, you can create a new configuration, modify an existing one, export the current configuration and consult the user's guide.

As we will see later, the structure of the configuration is carried out hierarchically, that is to say, it is necessary to create every room (that would be the top level) and, later, adding all those devices that this room should have. For such an effect, the Up/Down buttons will allow to modify the order of the rooms / devices, modifying this way the order in which they will appear in the iPhone or iPad.

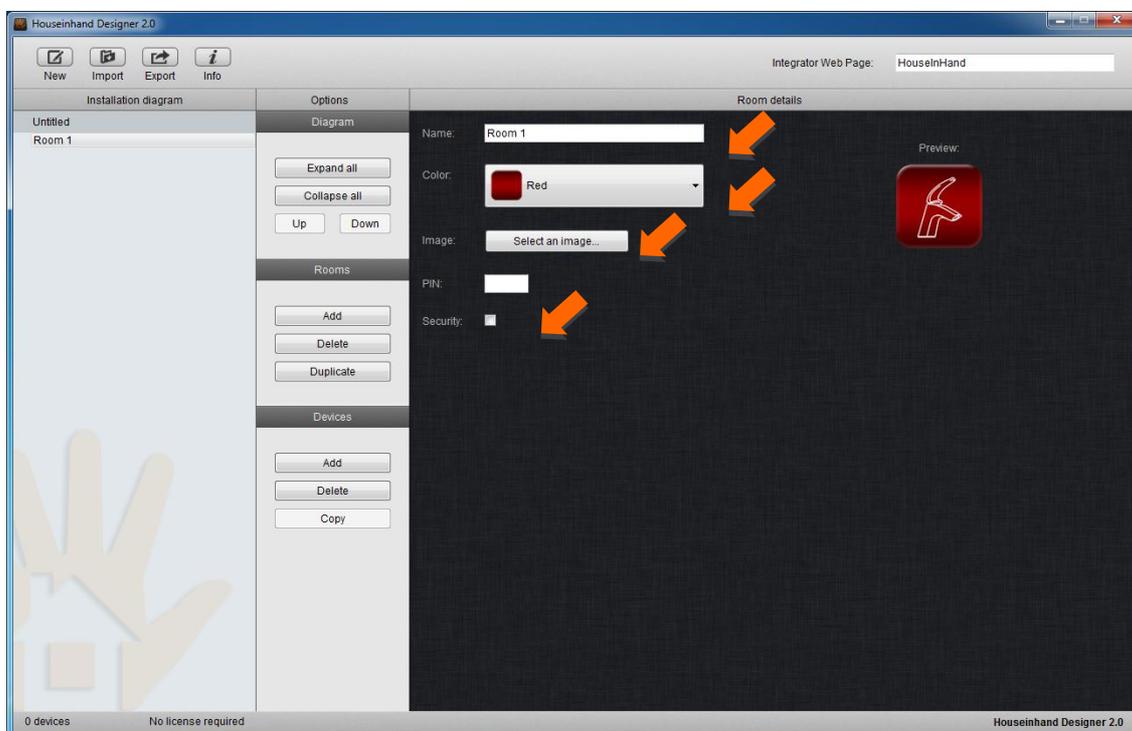
It is important to emphasize that the configuration and license files are totally independent; therefore the license file is not associated with any configuration file.

This feature allows generating several files of configuration for the same house, assigning more or less functionalities to each of them. An example of this functionality would be to carry out a complete configuration for the client's iPhone; whereas to that of the iPad of the house, we could configure only lights and blinds to avoid unwished uses.

Room management

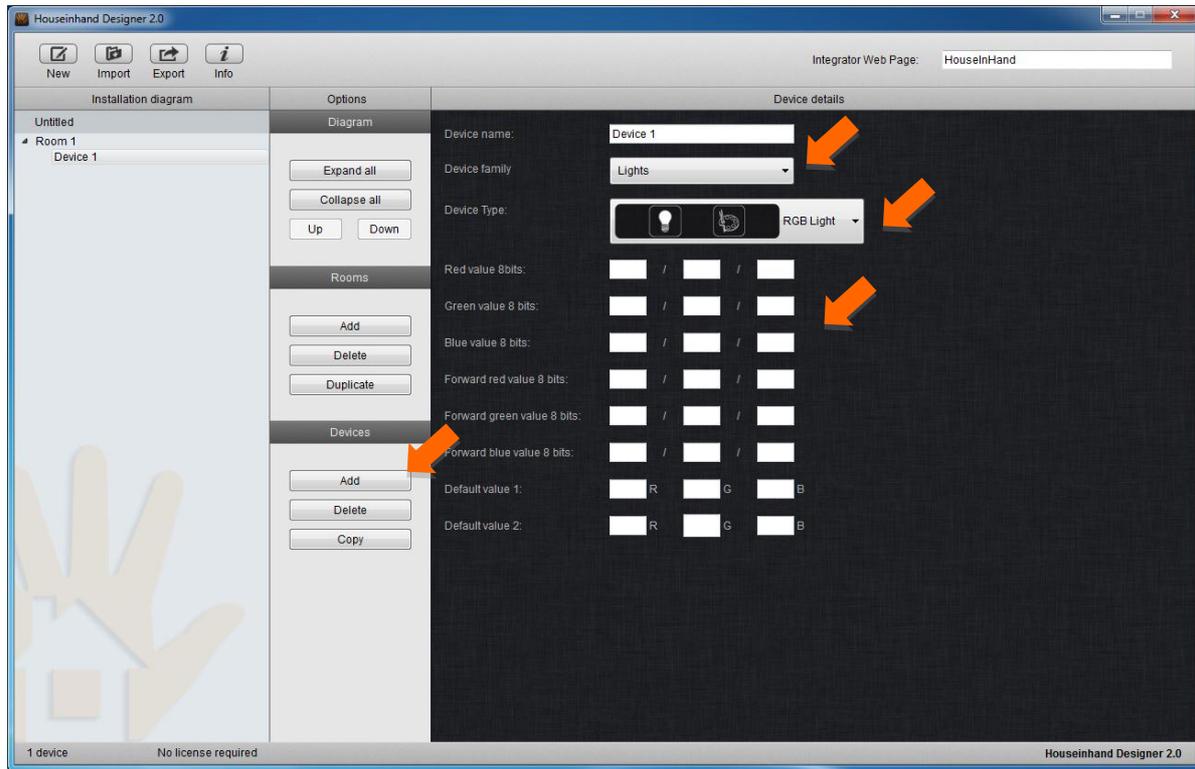


The management of the different rooms of the house is carried out using the add/delete/duplicate buttons.



When adding a room, there will appear the name, PIN, color (only for the iPad version) and room image options.

Device management



Same as previous case of adding a room, the Add/Delete buttons allow the devices management inside a room. To add a device click the add device button.

Next, we will be asked the name, device family and the type of the device we want to control. Depending on the device type, more or less group directions will be needed.

In case of not having implemented some of the group directions, it is possible to leave the spaces blank.

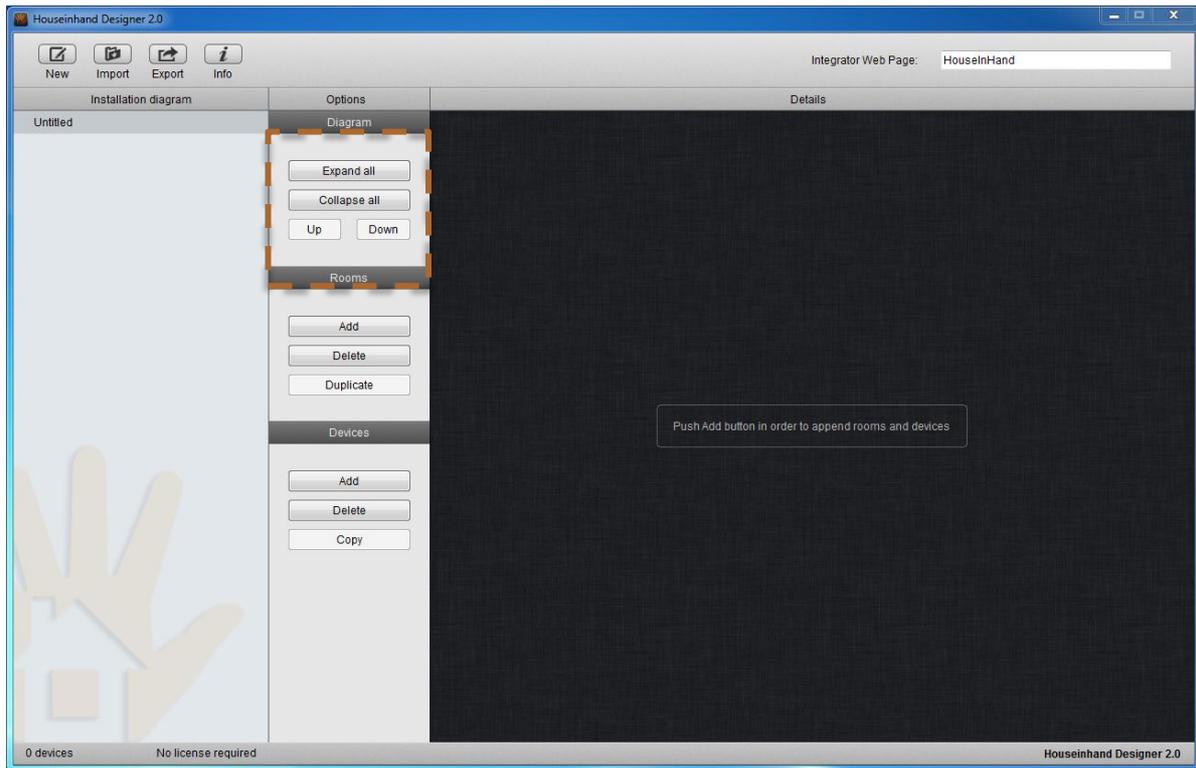
When selecting one or several devices and pressing the button for copying devices, it will appear a window where you can select the rooms in which the devices will be added.

For the correct functioning of the device it is important to verify that the reading flags have been enabled in the ETS.

Diagram functions

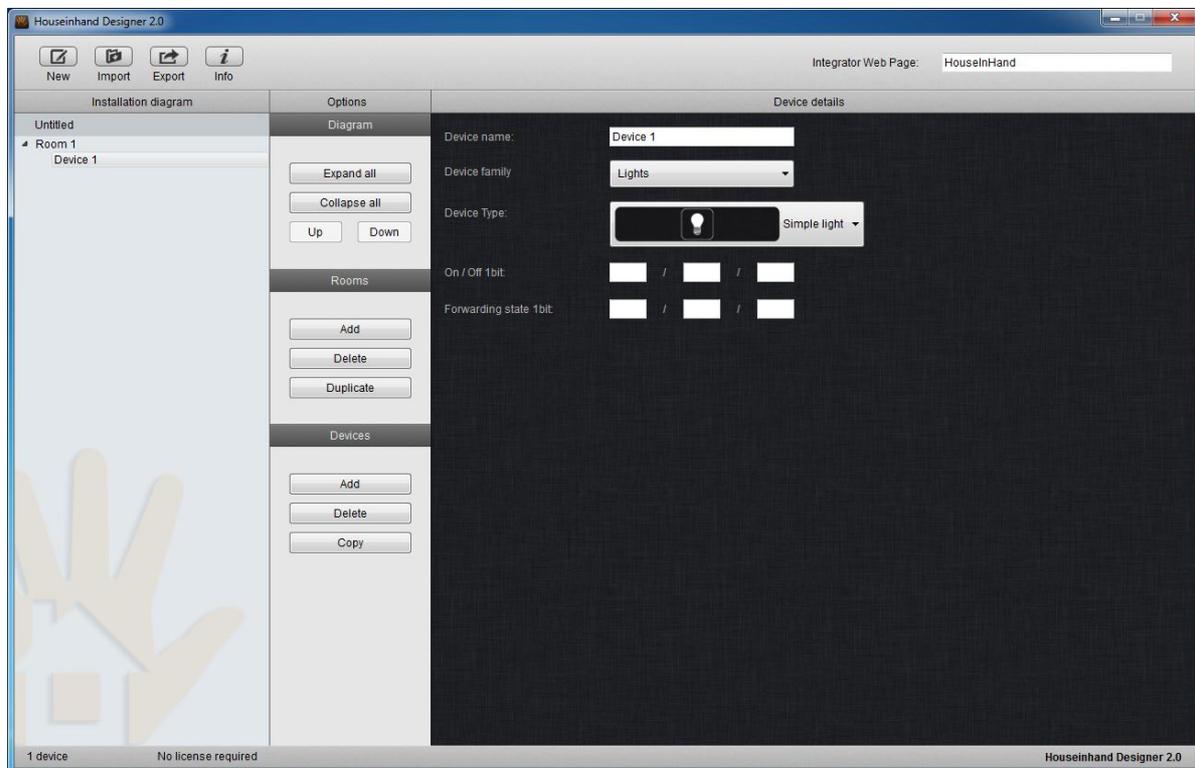
The diagram buttons allow expand/collapse the room tree. This functionality is very useful to speed up the device management.

The up/down buttons allow the user to change the order of the devices and rooms. Houseinhand® will display the devices and rooms in the same order as they are displayed in Houseinhand® Designer.



Devices

Simple light / 1 bit generic control



These two types of devices correspond to the Boolean control of lights or generic on/off elements. Moreover, they include a status field that can be enabled to allow device status monitoring.

The status enabling:

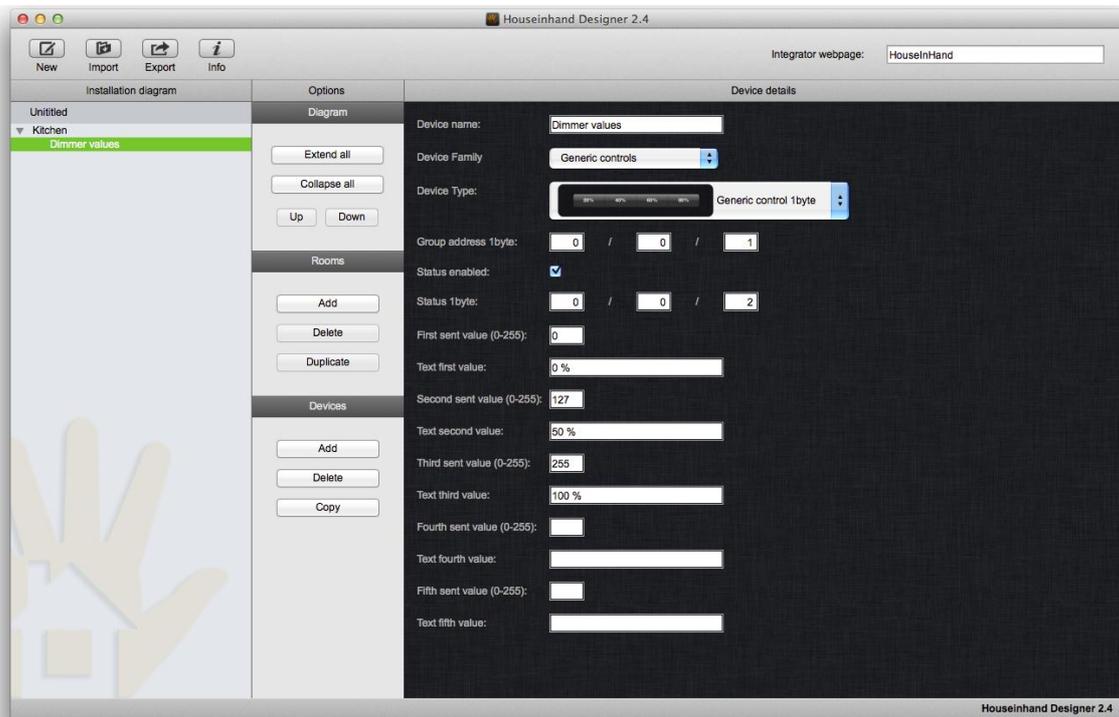
- **Enable status:** When active, status from the selected device is returned. Keep in mind that to activate this flag, the selected device should support the status value return.

The group addresses to configure in both cases are:

- **On/Off 1bit:** 1bit on/off communication object.
- **Status 1bit:** 1bit status. Used for initial reading and value updates.

For the correct functioning of the device, it is important to check if the reading flag of the status 1 bit group address has been enabled in ETS.

1 Byte Generic control



This type of device allows the adjustment of up to 5 values (each one from 0 to 255), in just one 1 Byte group address. Moreover, it allows personalizing the text of each segment to help the user to easily identify the functionality of each segment and activating a status flag to monitor the status of the device

The status enabling:

- **Enable status:** When active, status from the selected device is returned. Keep in mind that to activate this flag, the selected device should support the status value return.

The group address to configure is:

- **1Byte group address:** value adjustment communication object (from 0 to 255).

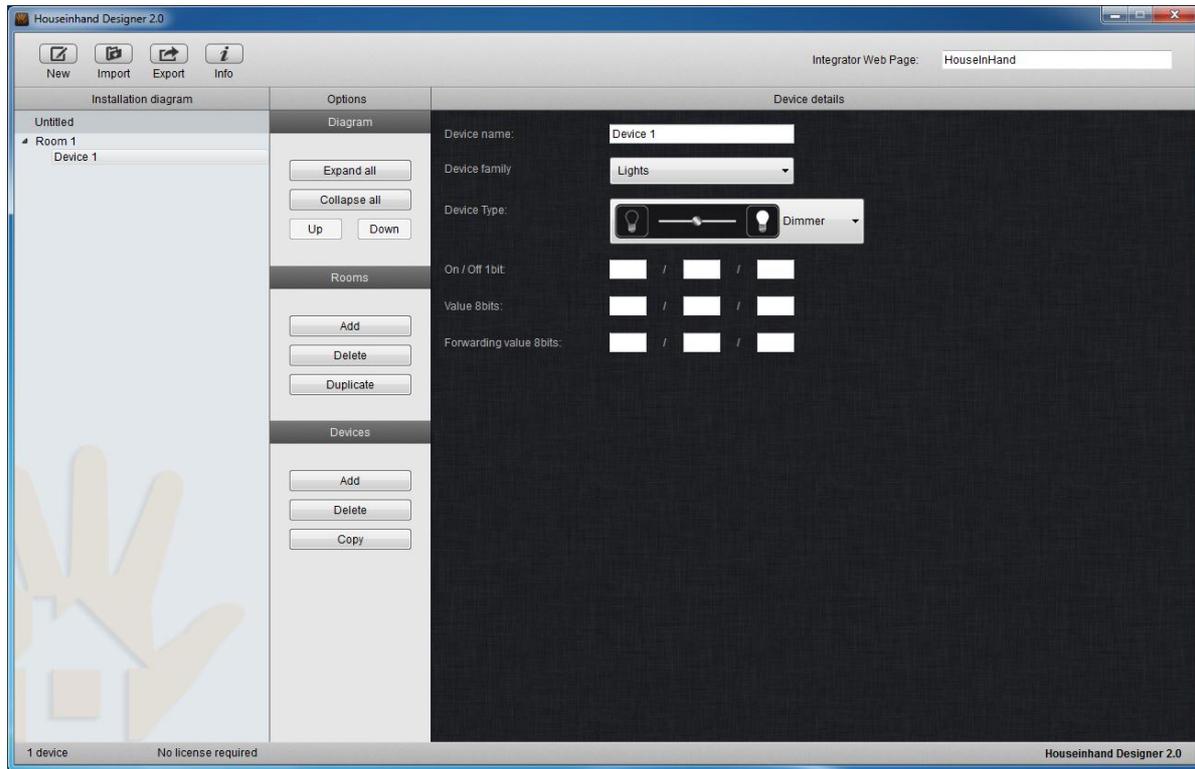
The fields to fill in are:

- **First value to send (0-255):** Value that will be sent when tapping this segment, through the 1 byte group direction.
- **Text first value:** Text that will appear in the corresponding segment.
- **Second value to send (0-255):** Value that will be sent when tapping this segment, through the 1 byte group direction.
- **Text second value:** Text that will appear in the corresponding segment.

- **Third value to send (0-255):** Value that will be sent when tapping this segment, through the 1 byte group direction.
- **Text third value:** Text that will appear in the corresponding segment.
- **Fourth value to send (0-255):** Value that will be sent when tapping this segment, through the 1 byte group direction.
- **Text fourth value:** Text that will appear in the corresponding segment.
- **Fifth value to send (0-255):** Value that will be sent when tapping this segment, through the 1 byte group direction.
- **Text fifth value:** Text that will appear in the corresponding segment.

In case of needing less than 5 values, it is possible to leave them blank (in decreasing order, from fifth to first).

Dimmer



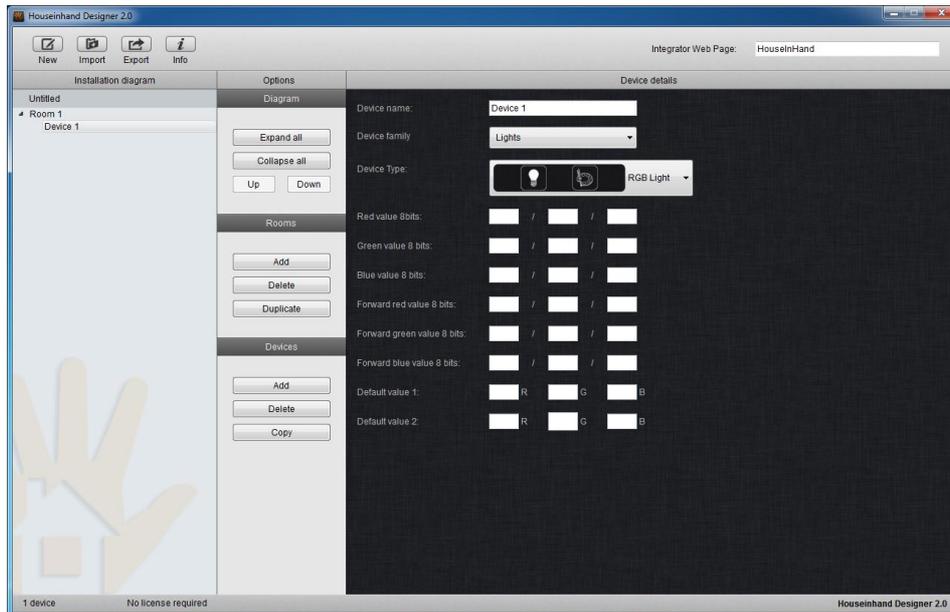
This type of device corresponds to the adjustable control of lights.

The group addresses to configure are:

- **On/Off 1bit:** 1bit On/Off control communication object.
- **Value 1Byte:** 1Byte control group address.
- **Status 1Byte:** value status feedback.

For the correct functioning of the device, it is important to check that the reading flag for the status 1Byte has been enabled in ETS.

RGB Light



This type of device corresponds to the RGB light control.

The group addresses to configure are:

- **Red Value 1Byte:** red control communication object.
- **Green Value 1Byte:** green control communication object.
- **Blue Value 1Byte:** blue control communication object.
- **Red Value Status 1Byte:** red color status communication object.
- **Green Value Status 1Byte:** green color status communication object.
- **Blue Value Status 1Byte:** blue color status communication object.

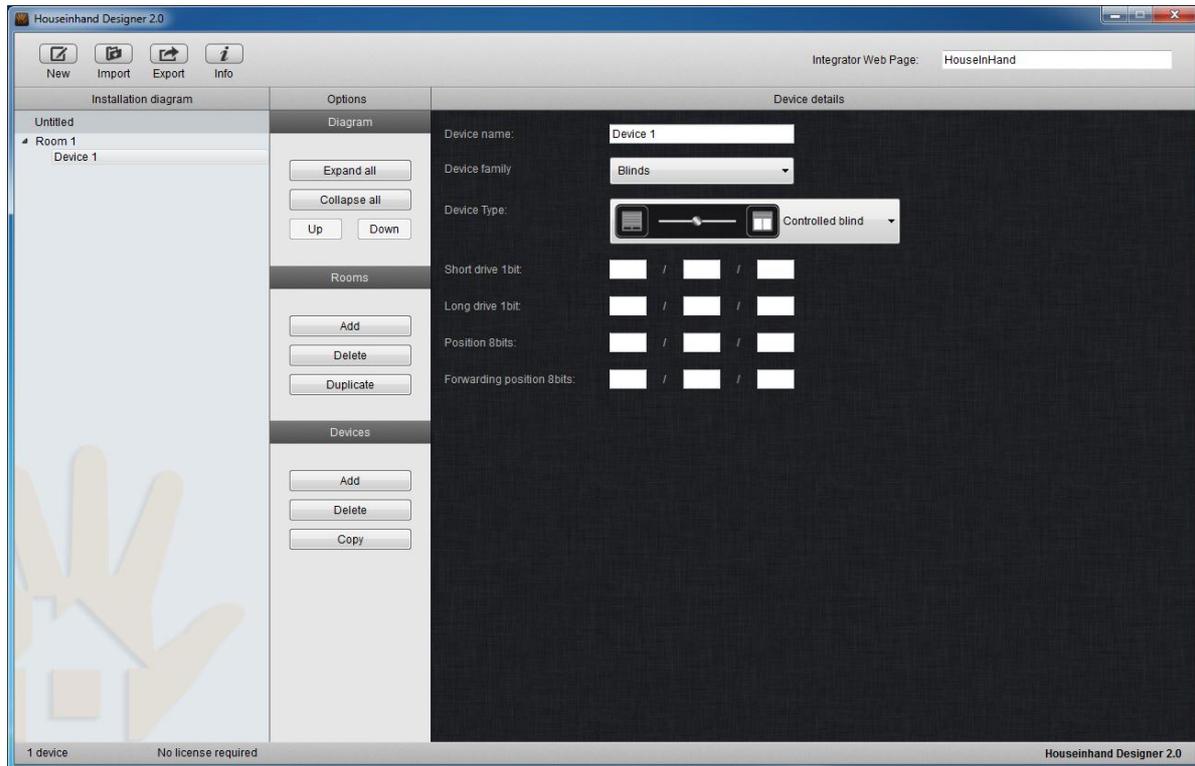
In case of not having the status group addresses configured in ETS, it is recommended to fill them in with the same control group addresses.

Moreover, it is possible to predefine the color values for each device:

- **Predefined value 1:** RGB adjustable value (from 0 to 255) that will appear as a predefined color which the user can select.
- **Predefined value 2:** RGB adjustable value (from 0 to 255) that will appear as a predefined color which the user can select.

For the correct functioning of the device it is important to check that the different status 1Byte reading flag has been activated in ETS.

Position controlled blind



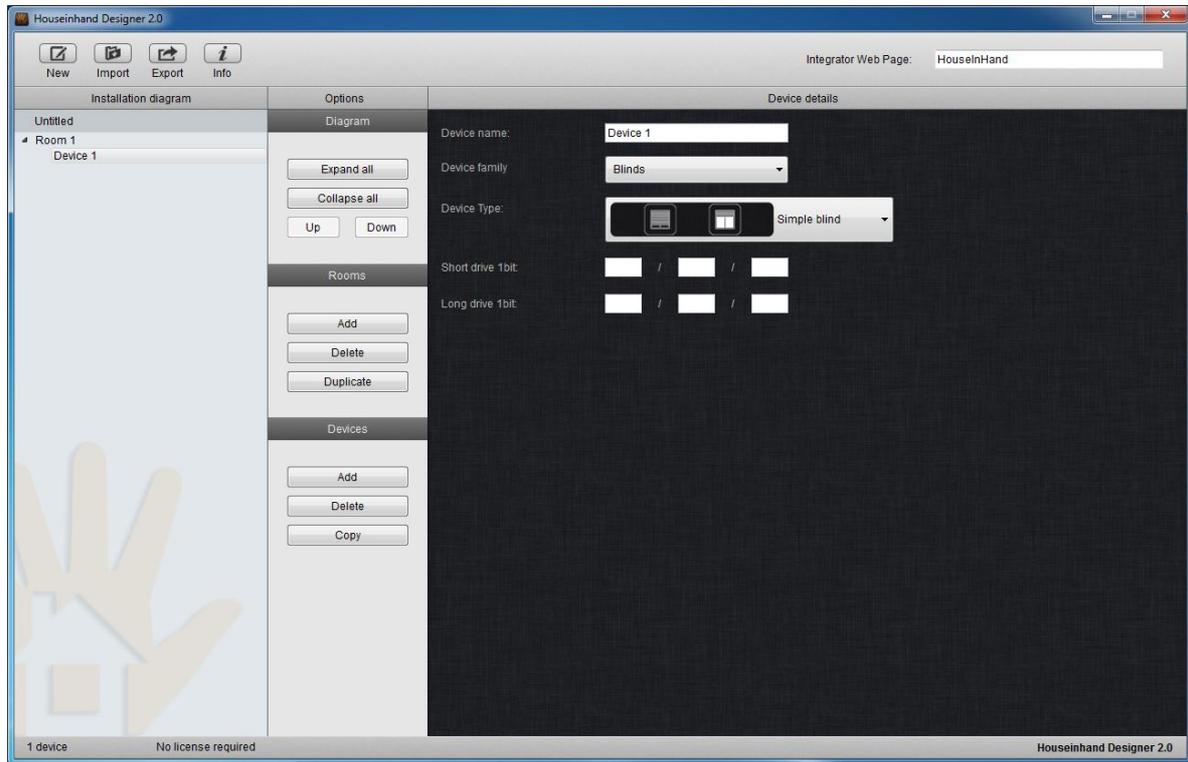
This type of device corresponds to the position controlled blinds.

The group addresses to configure are:

- **Stop-movement 1bit:** it allows to lift up/down the blind slightly (in some blind actuators), or in case it is moving, stop it.
- **Up-down 1bit:** it allows lifting up/down the blind continually, or in case it is moving, stopping it. This communication object is activated with a long tap to the button (more than 0.5 seconds).
- **Position 1Byte:** 1Byte control communication object for the 8 bits control.
- **Position status 1Byte:** position status feedback.

For the correct functioning of the device, it is important to check if the position status 1Byte reading flag has been enabled in ETS.

Simple blind



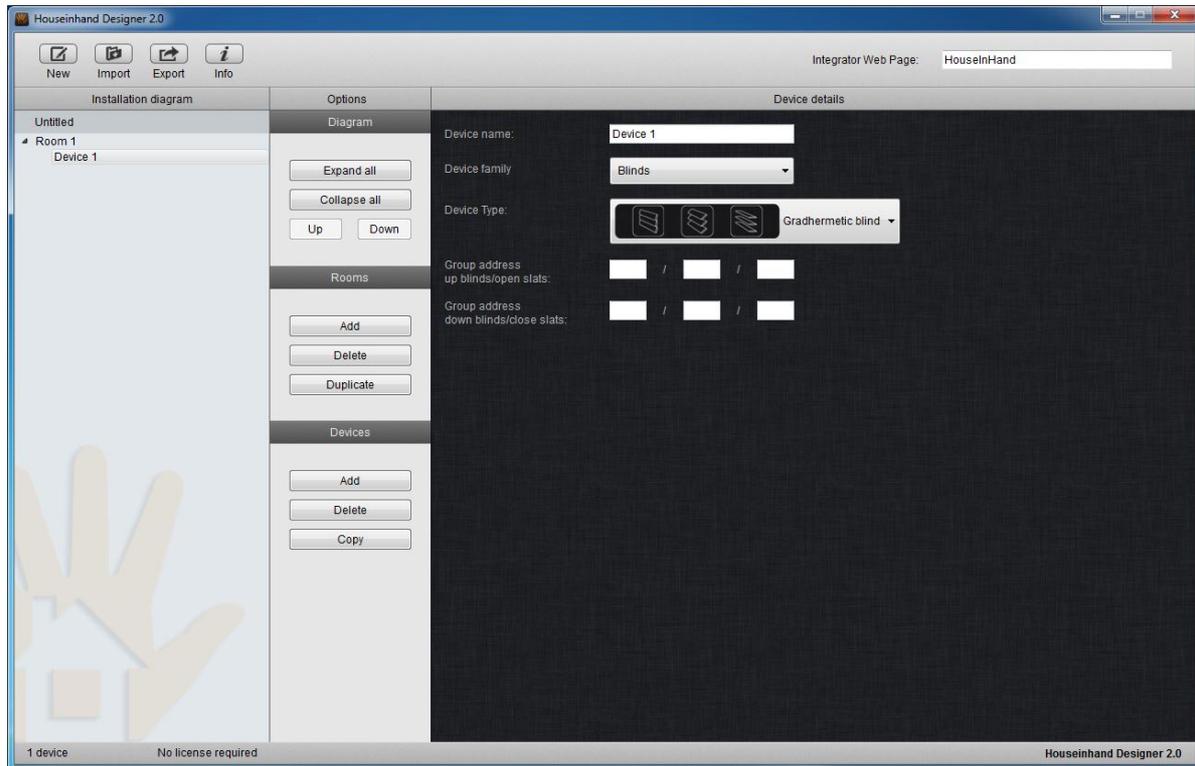
This type of device corresponds to the simple blind control.

Due to the simple blind not having a status feedback, we recommend using the type of adjustable blind as long as it is possible.

The group directions to configure are:

- **Stop-movement 1bit:** it allows to lift up/down the blind slightly (in some blind actuators), or in case it is moving, stop it.
- **Up-down 1bit:** it allows lifting up/down the blind continually, or in case it is moving, stopping it. This communication object is activated with a long tap to the button (more than 0.5 seconds).

Gradhermetic® blind



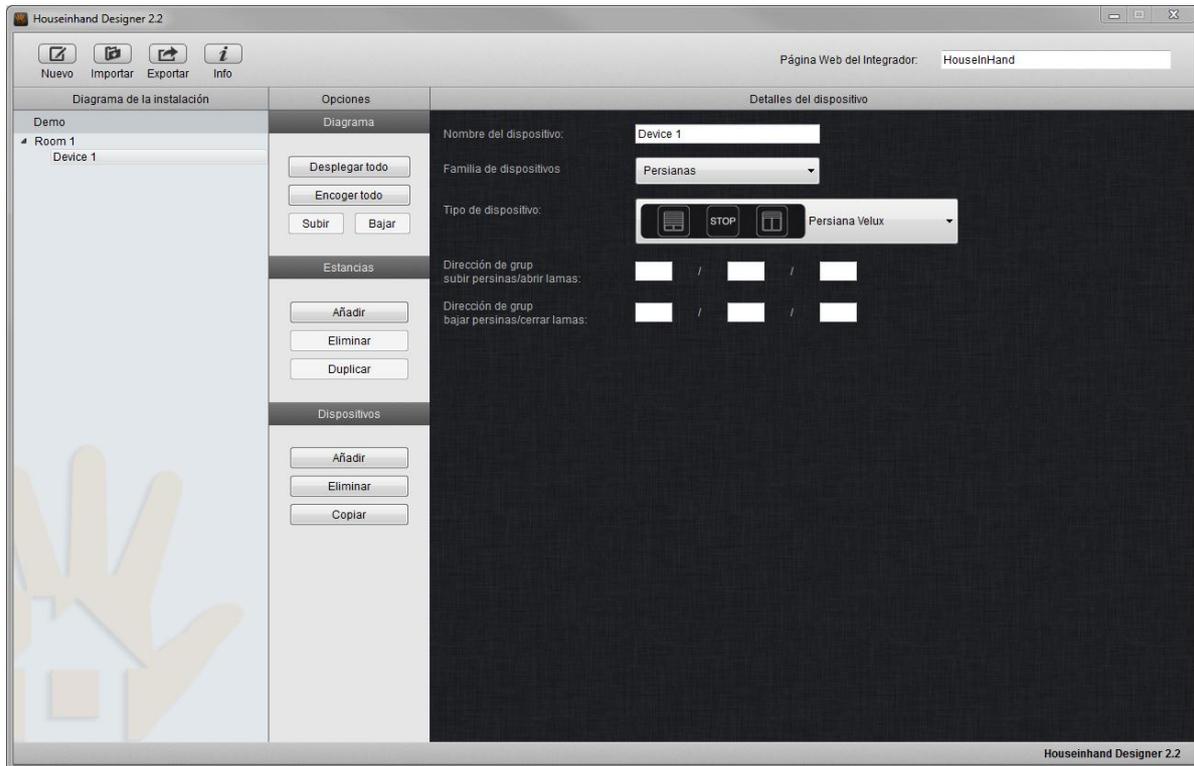
This kind of device corresponds to the Gradhermetic® blind control.

The group addresses to configure are:

- **Lifting up blind/open slats:** must match the corresponding actuator.
- **Lifting down blind/close slats:** must match the corresponding actuator.

It is not required to use the central function to control the two actuator channels at the same time.

Velux® blind



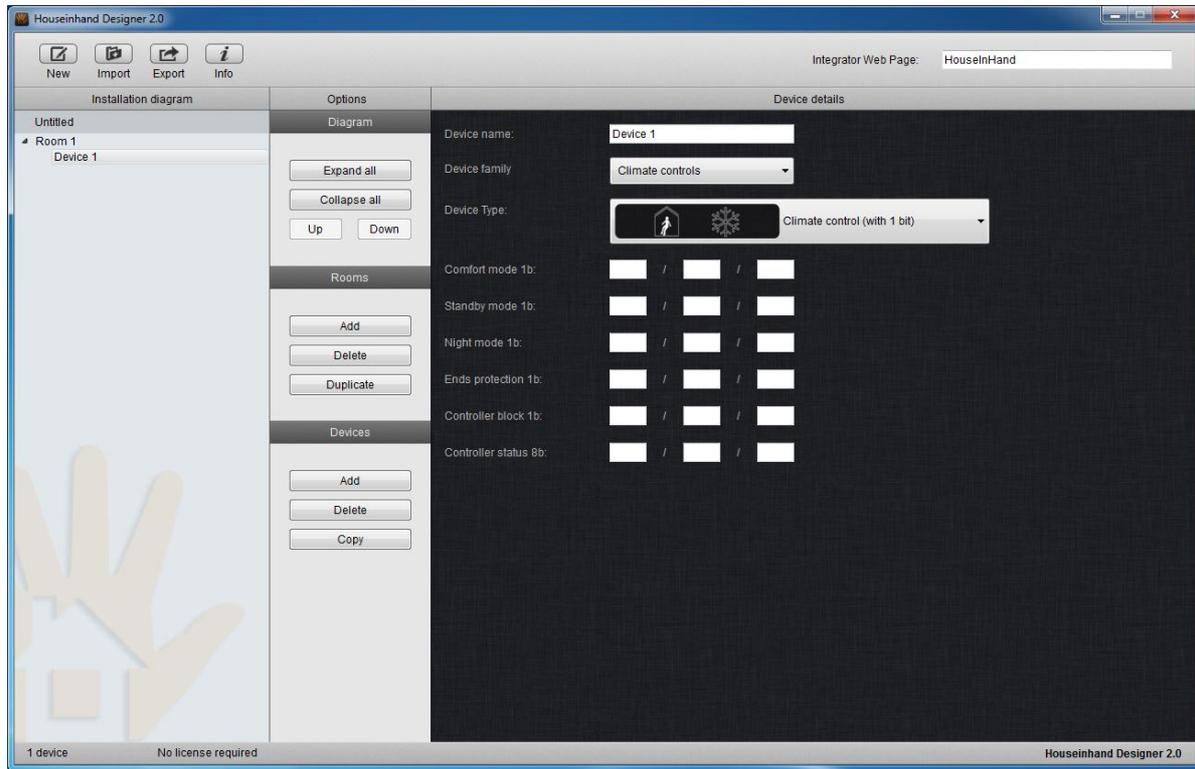
This kind of device corresponds to the Velux® blind control.

The group addresses to configure are:

- **Lifting up blind:** must match the corresponding actuator.
- **Lifting down blind:** must match the corresponding actuator.

It is not required to use the central function to control the two actuator channels at the same time.

Climate control (1 bit)



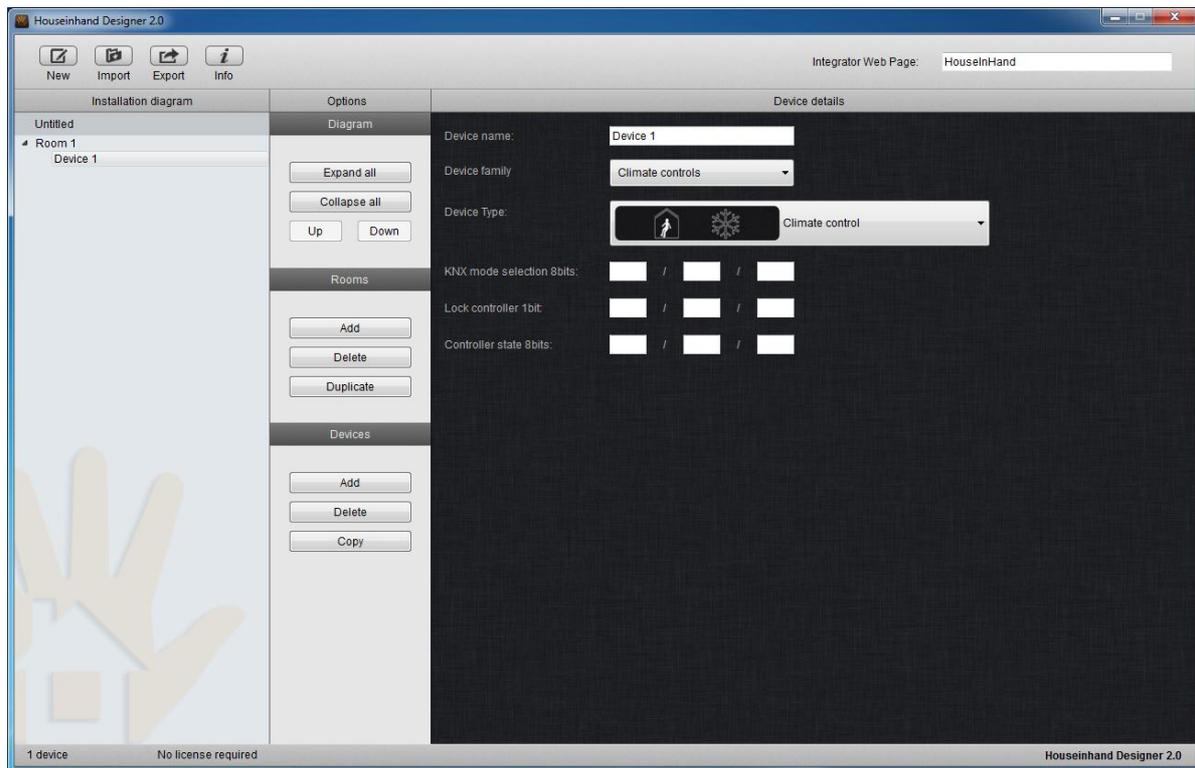
This kind of device corresponds to the climate mode control with 1 bit group addresses.

The group addresses to configure are:

- **Comfort mode 1bit:** comfort mode.
- **Standby mode 1bit:** standby mode.
- **Extremes protection 1bit:** extremes protection mode.
- **Block controller 1bit:** thermostat's controller blocking. Leave it blank does not limit any functionality.
- **Controller status 1Byte:** 1byte thermostat status communication object.

For the correct functioning of the device, it is important to check that the controller status 1Byte reading flag has been enabled in ETS.

Climate control (1Byte)



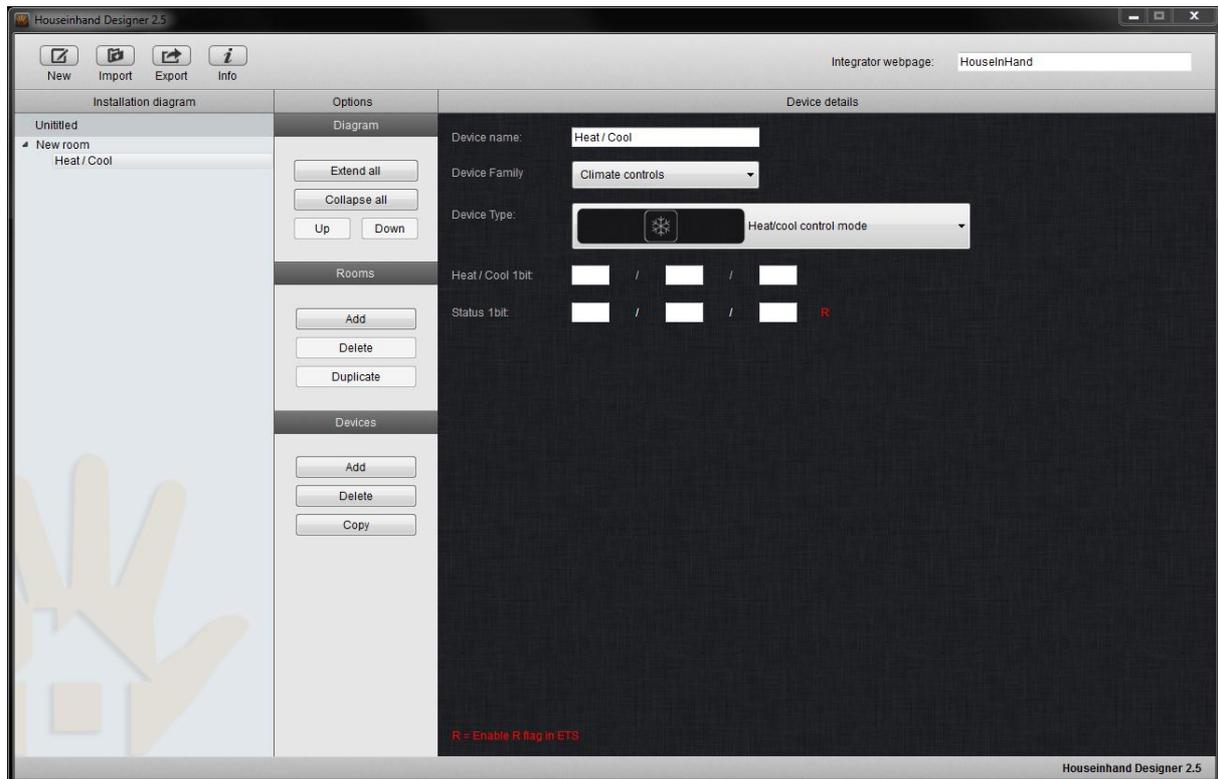
This kind of device corresponds to the climate mode:

The group directions to configure are:

- **Select KNX mode 1Byte:** temperature mode selection (comfort, standby, night and protection against extremes).
- **Controller block 1bit:** thermostat's controller blocking. Leave it blank does not limit any functionality.
- **Controller status 1Byte:** 1byte thermostat status communication object.

For the correct functioning of the device, it is important to check that the controller status 1Byte reading flag has been enabled in ETS.

Cool/Heat mode



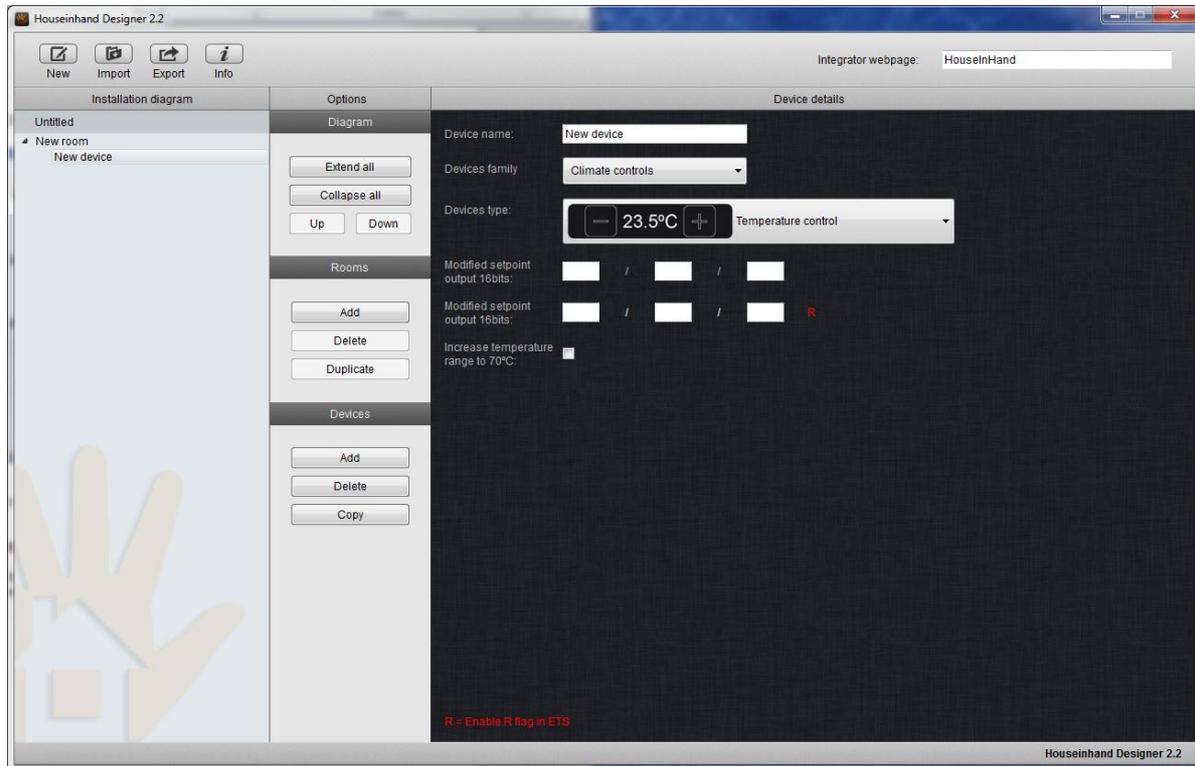
This type of device corresponds to the cool/heat control mode.

The group addresses to configure are:

- **Cool/Heat:** Communication object for the 1 bit cool/heat climate mode.
- **Modification status 1Bit:** Current climate mode status 1 bit.

For the correct functioning of the device, it is important to check that the reading flag of the feedback in the ETS has been activated.

Temperature control

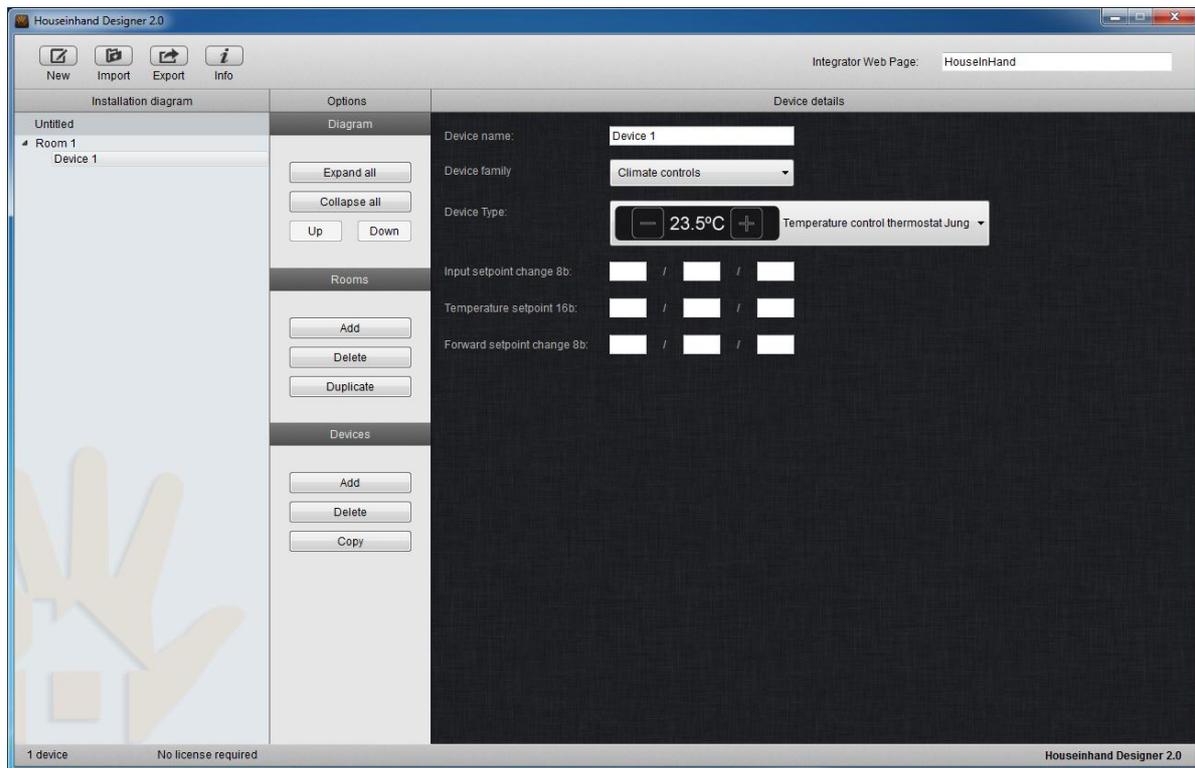


The group addresses to configure, in the case of the direct control of the temperature, is:

- **Set-point Output 2Byte:** set-point temperature control.
- **Set-point Input 2Byte:** set-point status.

For the correct functioning of the device, it is important to check that the reading flag in the ETS has been activated.

JUNG® thermostats temperature control



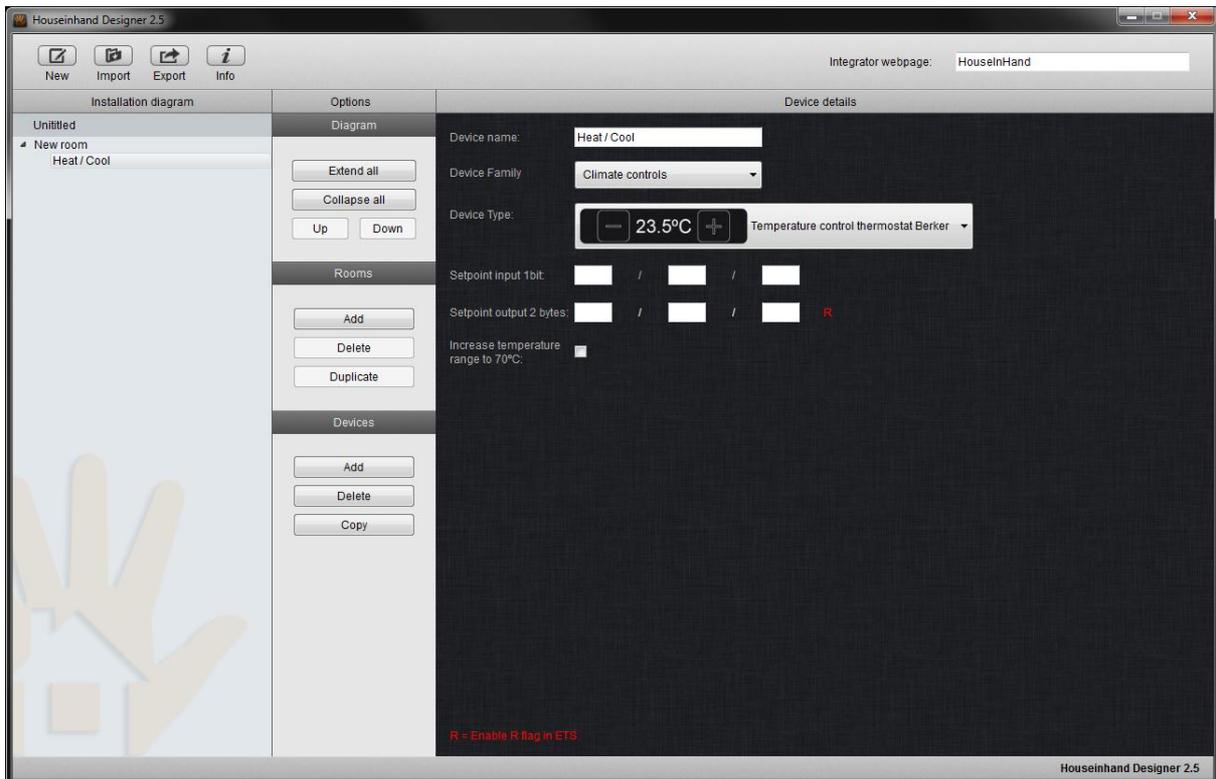
This type of device is used for the JUNG® thermostats control, where it is not allowed to modify the set-point temperature through the 2 bytes group address. By the means of the 1Byte group address used, we get the same behavior than the thermostat adjustment wheel.

The group addresses to configure are:

- **Modification entrance set-point 1Byte:** temperature's base value.
- **Set-point temperature 2Byte:** temperatures visualization.
- **Modification set-point status 1Byte:** temperatures base value status.

For the correct functioning of the device, it is important to check that the reading flag of the feedback in the ETS has been activated.

Berker® thermostat temperature control

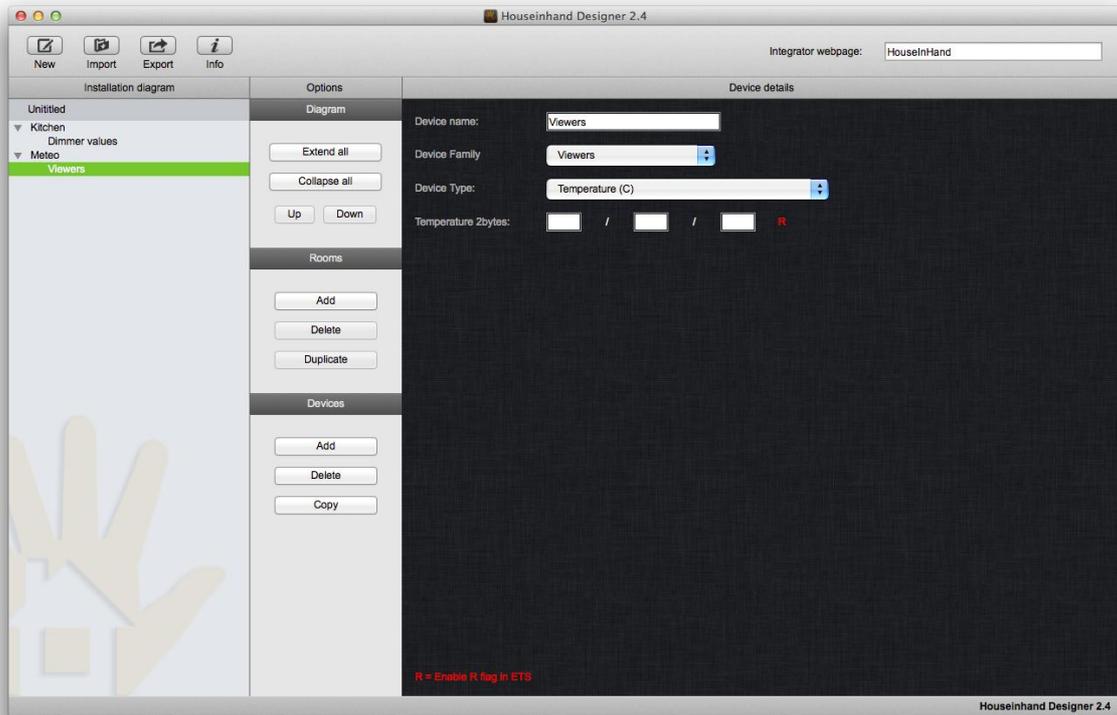


The group address that needs to be configured, in case of the Berker® thermostat temperature control, is:

- **Set-point output 2Byte:** set-point temperature control.
- **Set-point input 1Bit:** set-point temperature forward value (set-point status).

For the correct functioning of the device, it is important to check that the reading flag of the feedback in the ETS has been activated.

Viewers



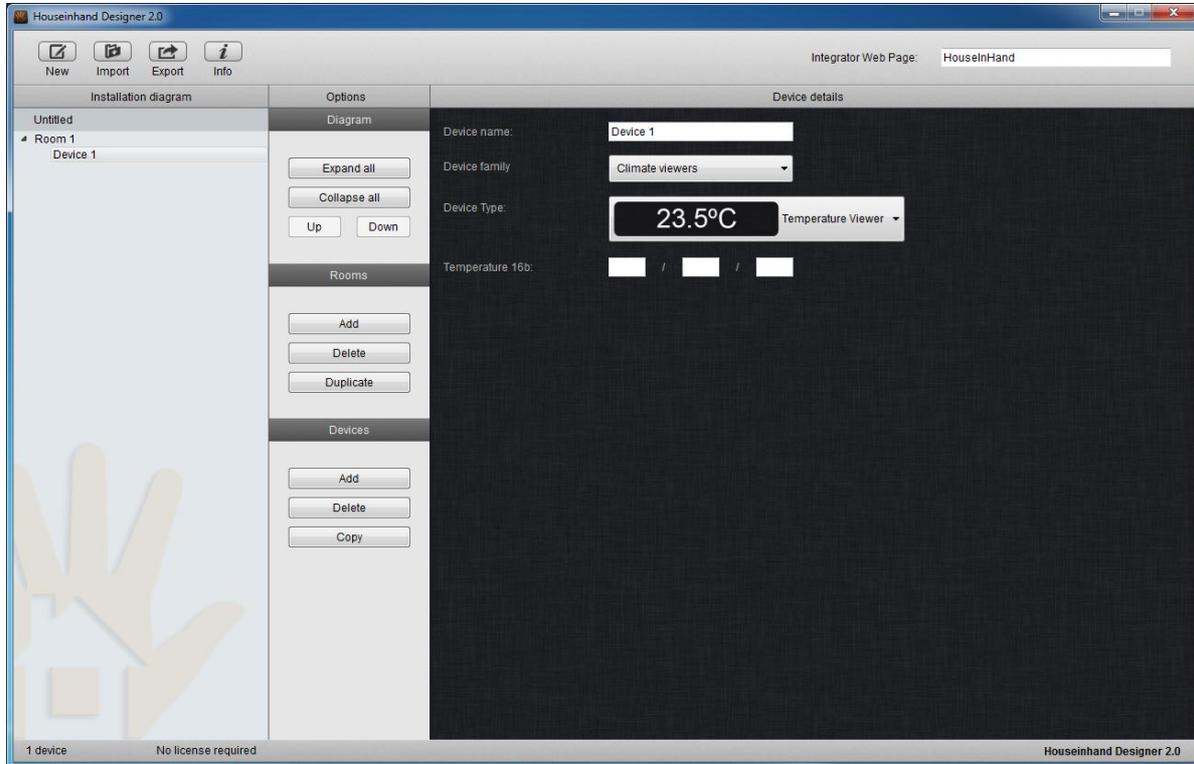
This type of device is used to monitor different variable parameters such as temperature, rain, wind, luminosity...

Viewer type	Variable length	Units
Temperature	2 bytes	°C
Temperature	2 bytes	°K
Temperature	2 bytes	°F
Humidity	2 bytes	%
Pressure	2 bytes	Pa
Air quality	2 bytes	ppm
Power	2 bytes	KW
Voltage	2 bytes	V
Current	2 bytes	A
Speed	2 bytes	Km/h
Wind	2 bytes	m/s
Luminosity	2 bytes	Klux
Rain	1 bit	yes/no
Twilight	2 bytes	lux

Remember to configure the group addresses for each selected viewer.

For the correct functioning of the device, it is important to check that the reading flag has been enabled in ETS.

Central functions (general turn off, lower blinds, presence simulator)



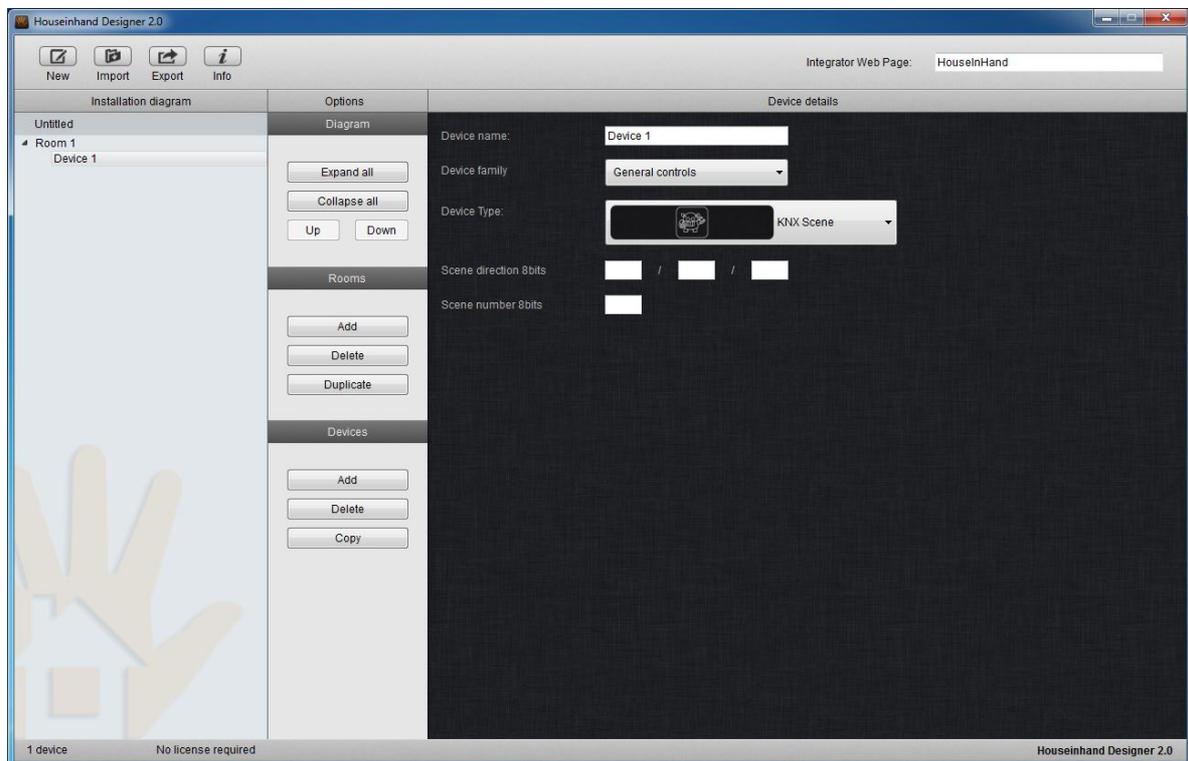
The group addresses to configure are:

- **Central function 1bit:** programmed central function.

Besides, it is necessary to configure the following parameter:

- **Sending value 1:** if this checkbox is enabled the value to send on the previously indicated group address will be 1. Otherwise, a 0 will be sent.

KNX Scenes



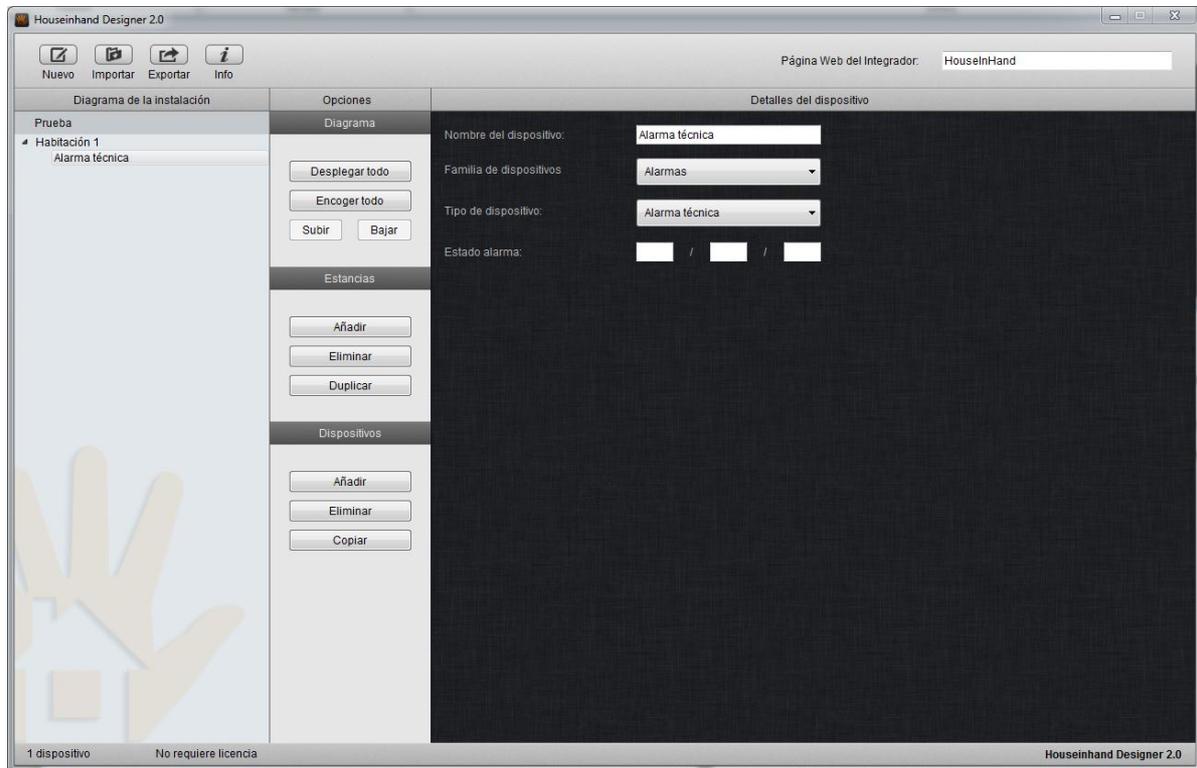
The group address to configure is:

- **Scene address 1Byte:** programmed KNX scene.

Besides, it is necessary to configure the following parameter:

- **Scene number 1Byte:** Scene number to activate (between 1 and 256).

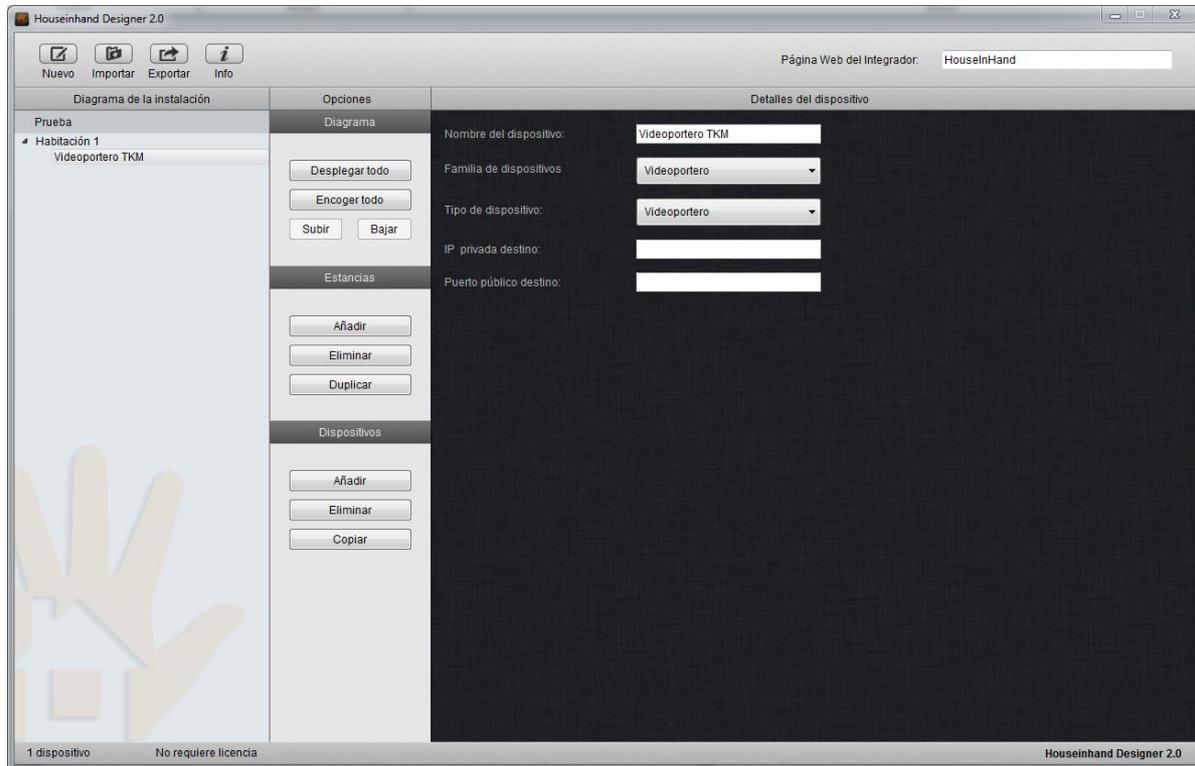
Technical alarms



The group address to set up is:

- **Alarm state 14Bytes:** text configured in the case of alarm.

Door Communication System (JUNG® DCS, TCS®)



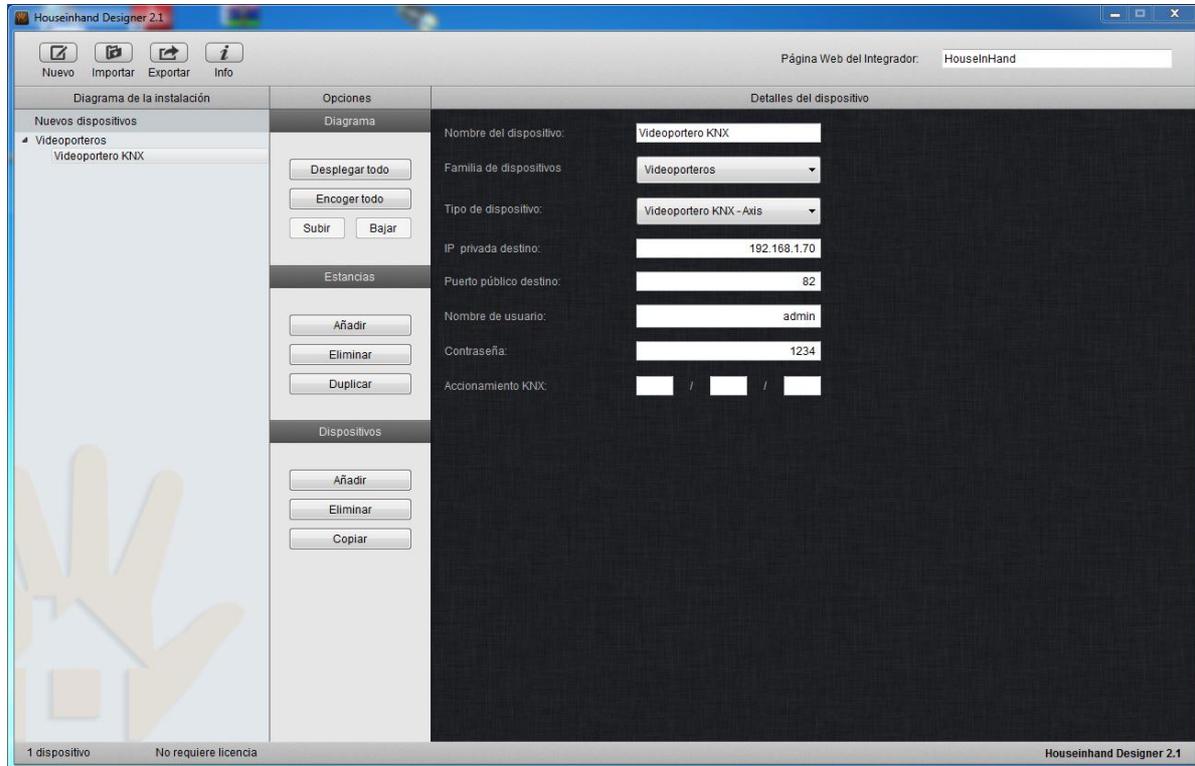
The fields to set up are:

- **Private IP:** IP address corresponding to the video-streamers private IP.
- **Public port:** Port used by the application to connect from outside without VPN (NAT). For further information about remote connections please refer to the manual “Remote setup without VPN”

The public IP address is known by the application when connecting to a public IP to remotely control KNX installation. The private port of the video streamer is 80.

For further information about the DCS configuration please refer to the manual “DCS setup”

Door Communication System - KNX (with Axis® and Mobotix®)

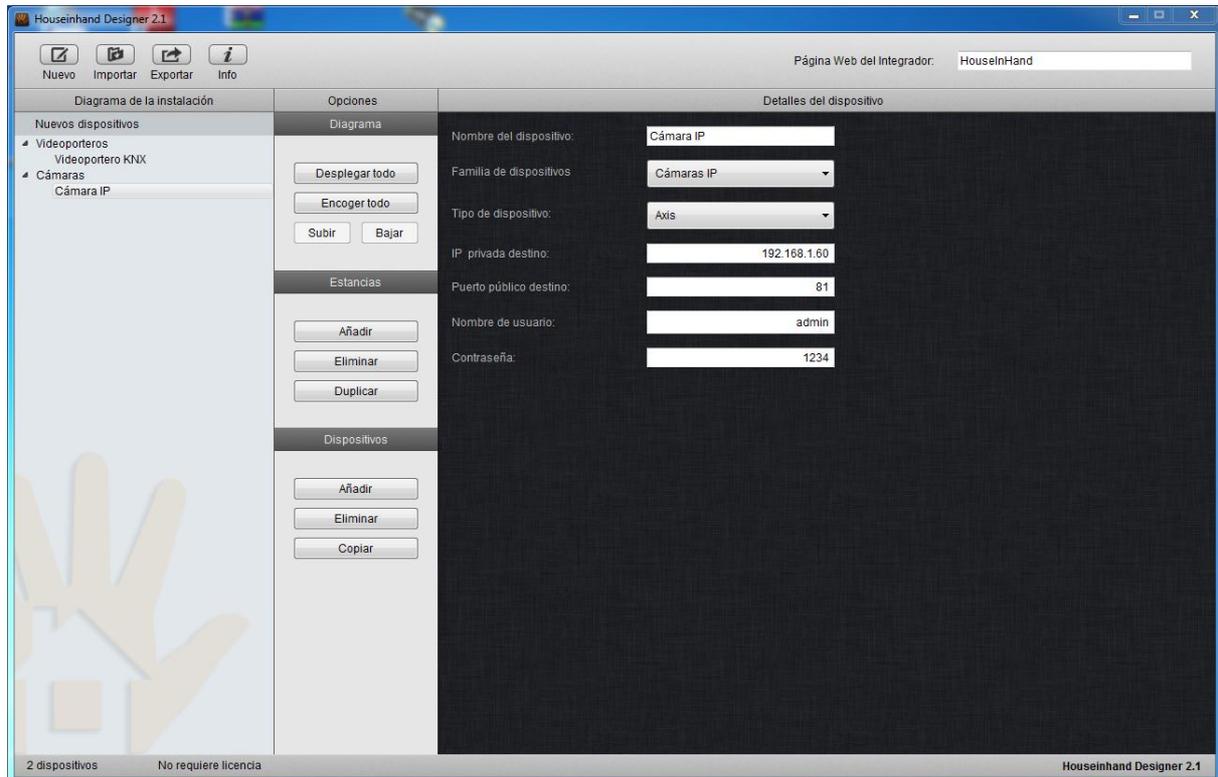


The fields to set up are:

- **Device type:** Select if the image source is from Axis® or Mobotixi® IP camera.
- **Private IP:** IP address corresponding to the private IP of the IP Camera. The application adjusts the bandwidth and quality.
- **Public port:** Port used by the application to connect from outside without VPN (NAT). For further information about remote connections please refer to the manual “Remote setup without VPN”
- **Username:** Username of the IP camera
- **Password:** Password of the IP camera.
- **Open door - KNX:** Group address corresponding to the communication object for the 1 bit control (On/Off). The application sends “1” when the user touches down the open door button, and a “0” two seconds after the user touches up the button.

The public IP address is known by the application when connecting to a public IP to remotely control KNX installation The private port of the IP camera is port 80.

Axis® & Mobotix® IP Cameras

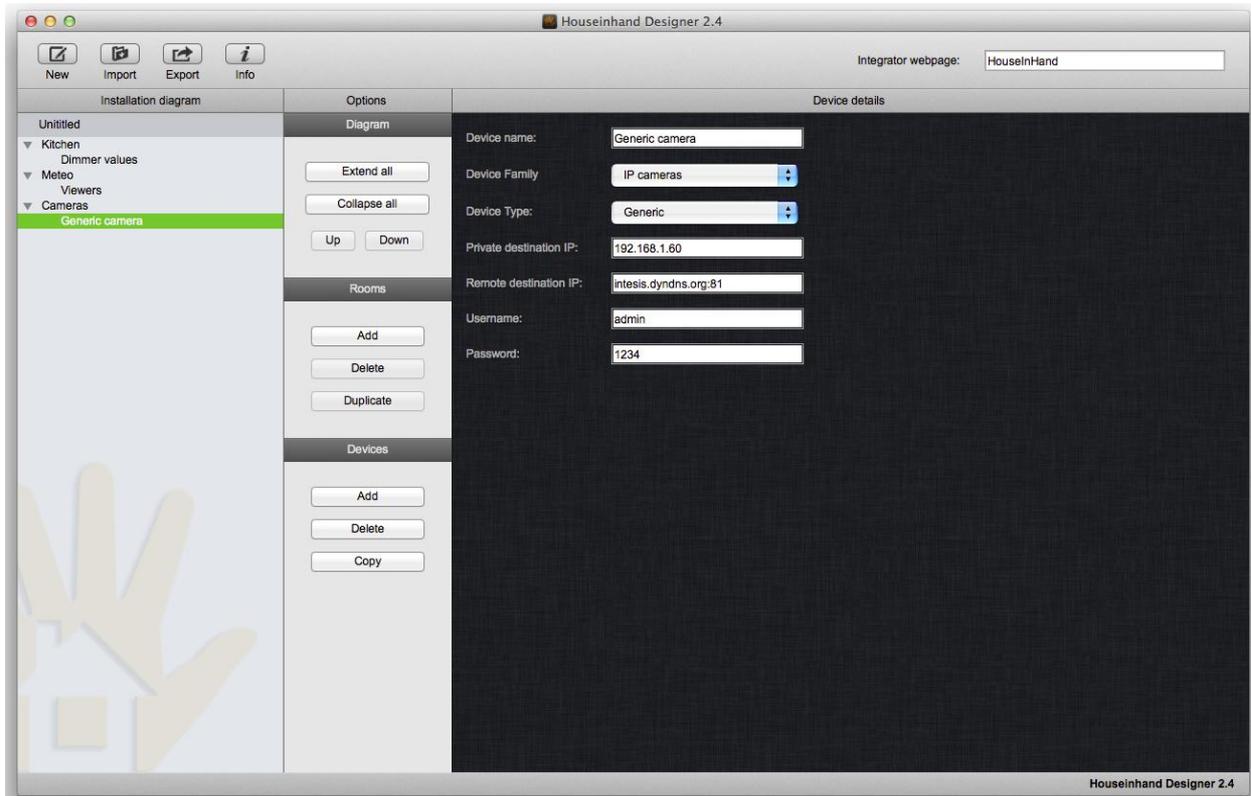


The fields to set up are:

- **Device type:** Select if the image source is from Axis® or Mobotix® IP camera.
- **Private IP:** IP address corresponding to the private IP of the IP Camera.
- **Public port:** Port used by the application to connect from outside without VPN (NAT). For further information about remote connections please refer to the manual “Remote setup without VPN”
- **Username:** Username of the IP camera
- **Password:** Password of the IP camera.

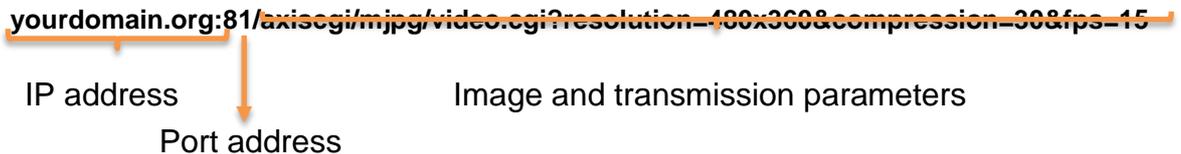
The public IP address is known by the application when connecting to a public IP to remotely control KNX installation The private port of the ip camera is 80.

Generic IP Camera



The fields to set up are:

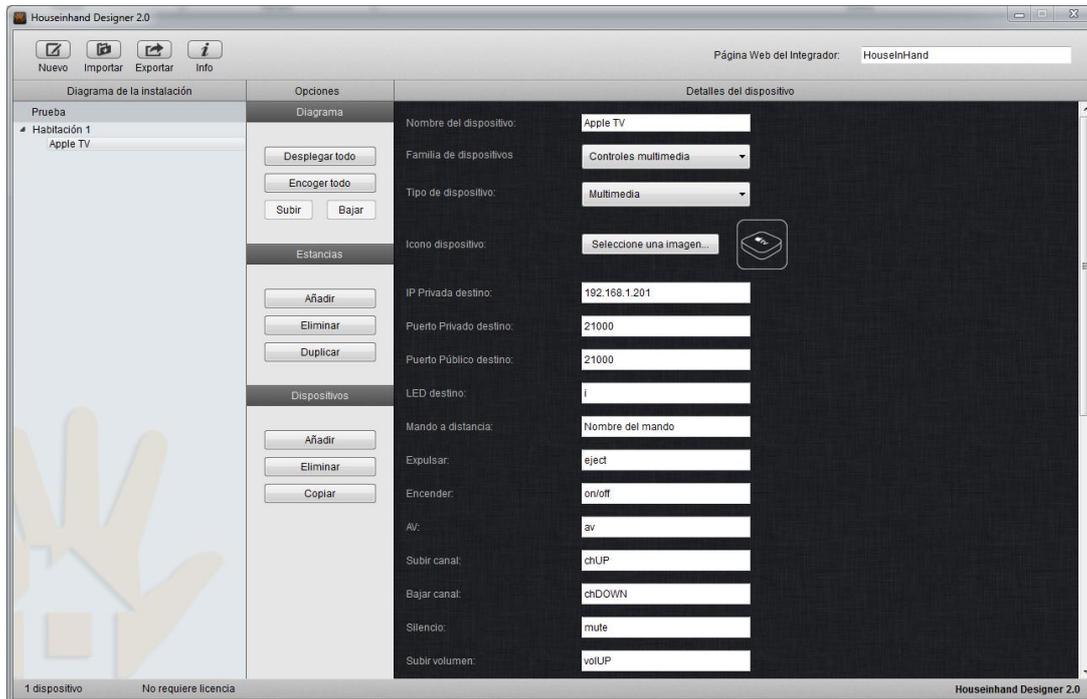
- **Type of device:** Select that the image source is a Generic IP camera.
- **Private IP destination:** IP address corresponding to the private IP of the IP Camera.
- **Remote IP destination:** Port used by the application to connect from outside without VPN (NAT). In this case, user has to introduce the IP address, the port address and, if desired, the parameters for image and transmission adjustments (see example below).



For further information about remote connections please refer to the manual “Remote setup without VPN”.

- **Username:** Username of the IP camera
- **Password:** Password of the IP camera.

AV Control (IRTrans®)



The fields that need to be configured are:

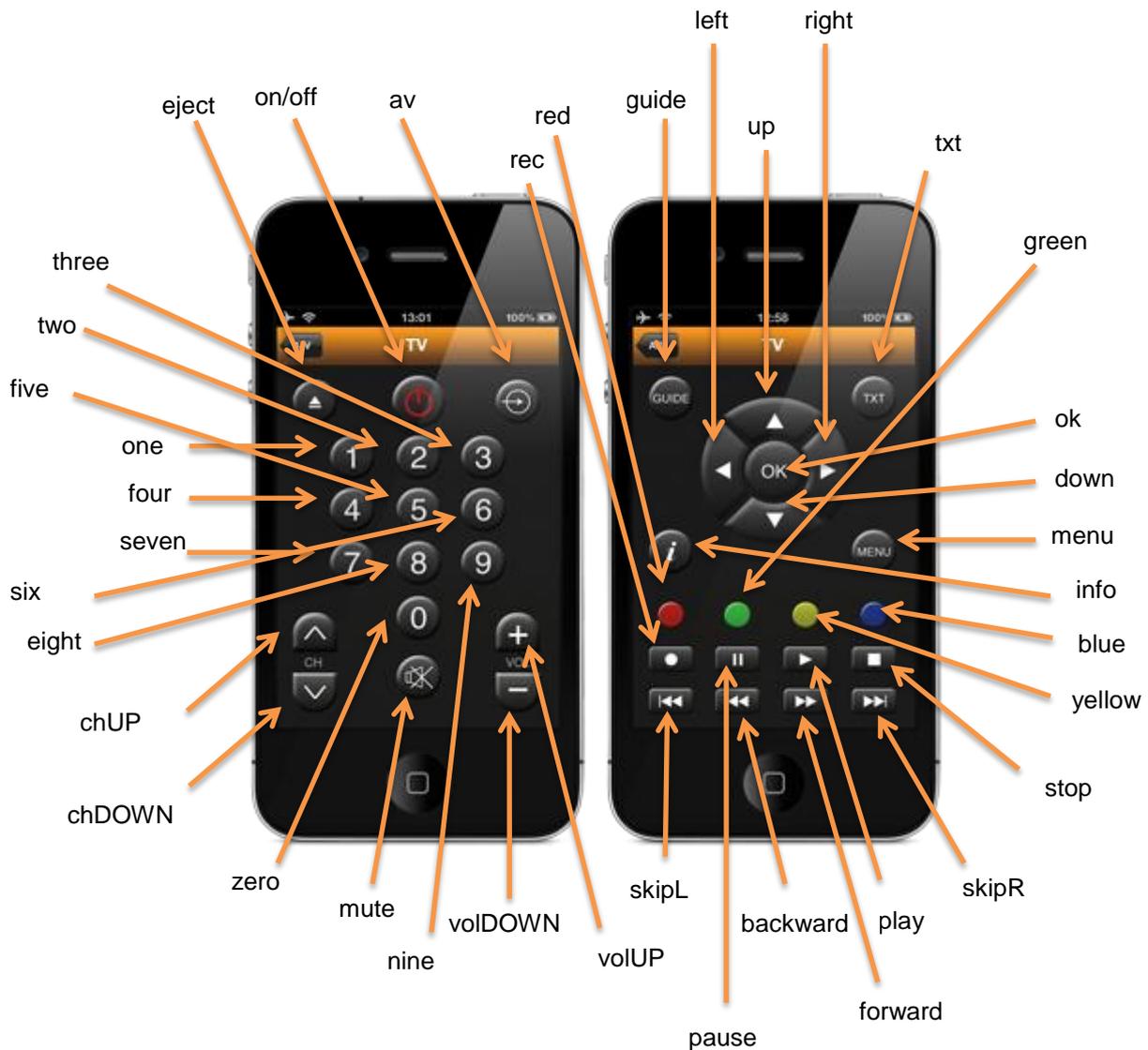
- **Private IP:** Private IP address of the IRTrans® module.
- **Private port:** Private port used by the application to connect to the IRTrans® module from inside. The default value is 21000.
- **Public port:** Port used by the application to connect to the IRTrans® module from outside. For further information about remote connections please refer to the manual “Remote setup without VPN”.
- **Destination LED:** Indicator used by the IRTrans® module to know to which LED has to send the commands. (In these devices that has more than one LED)

The possible values are:

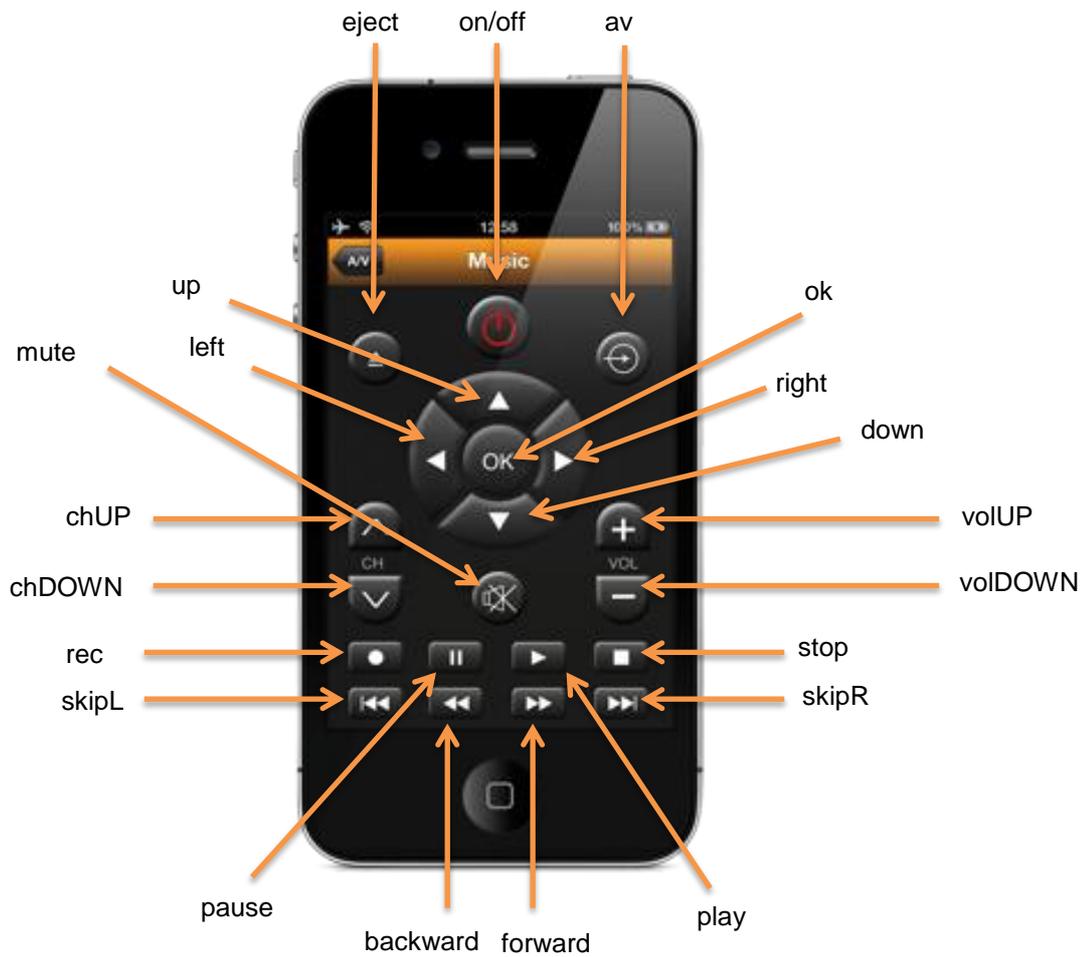
- **i:** Refers to the internal LED. It is de default value, and the most common.
 - **e:** Refers to the external LED. Use this in the case you have another LED by cable connected to the Jack port of IRTrans®.
 - **1-6:** Other devices and usages.
- **Remote control:** Label assigned to the name of the remote we are controlling. For further information please refer to he “IRTrans setup manual” or check their official manual: <http://www.irtrans.de/en/download/>

The rest of fields are about the labels assigned to the IRTrans® module to control each function. To make the process even more straight-forward, Houseinhand Designer assigns this labels as default labels. If you setup the IRTrans® following this, no more configurations will be needed. If you want to use custom labels, just edit the fields.

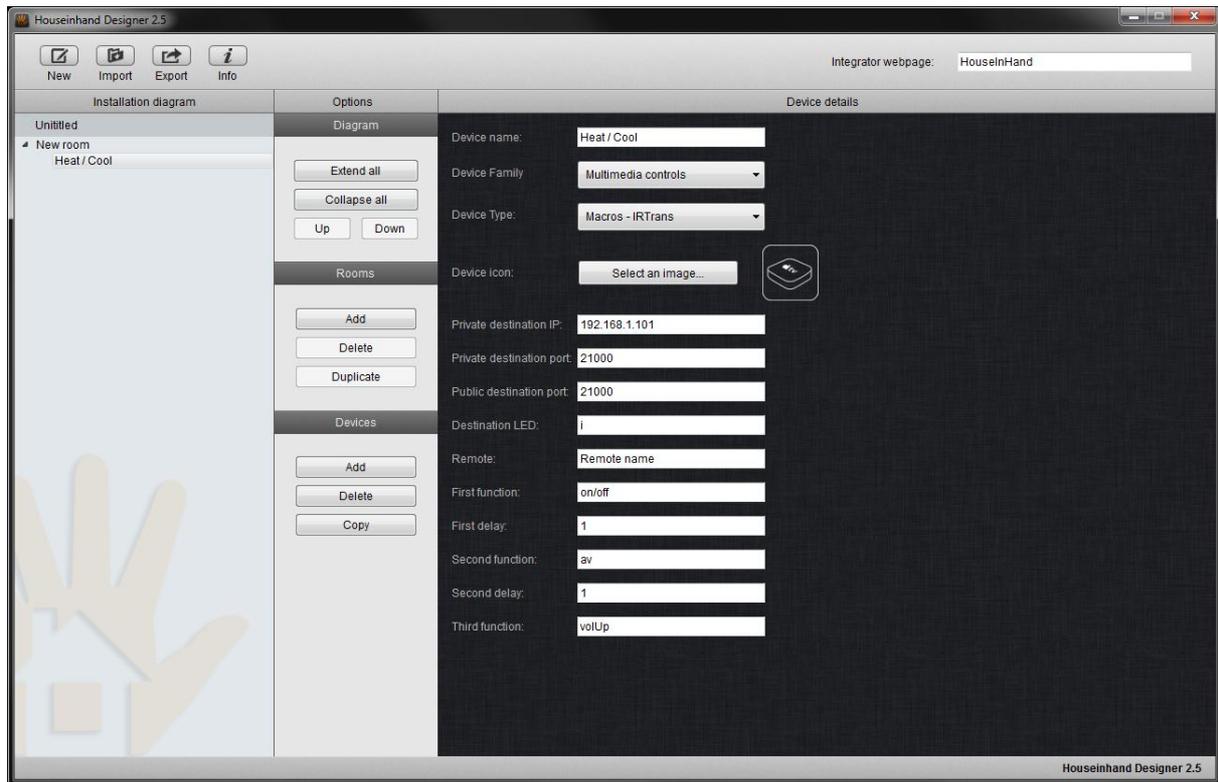
Full TV remote



Multipurpose multimedia remote



Multimedia IRTrans® Macro



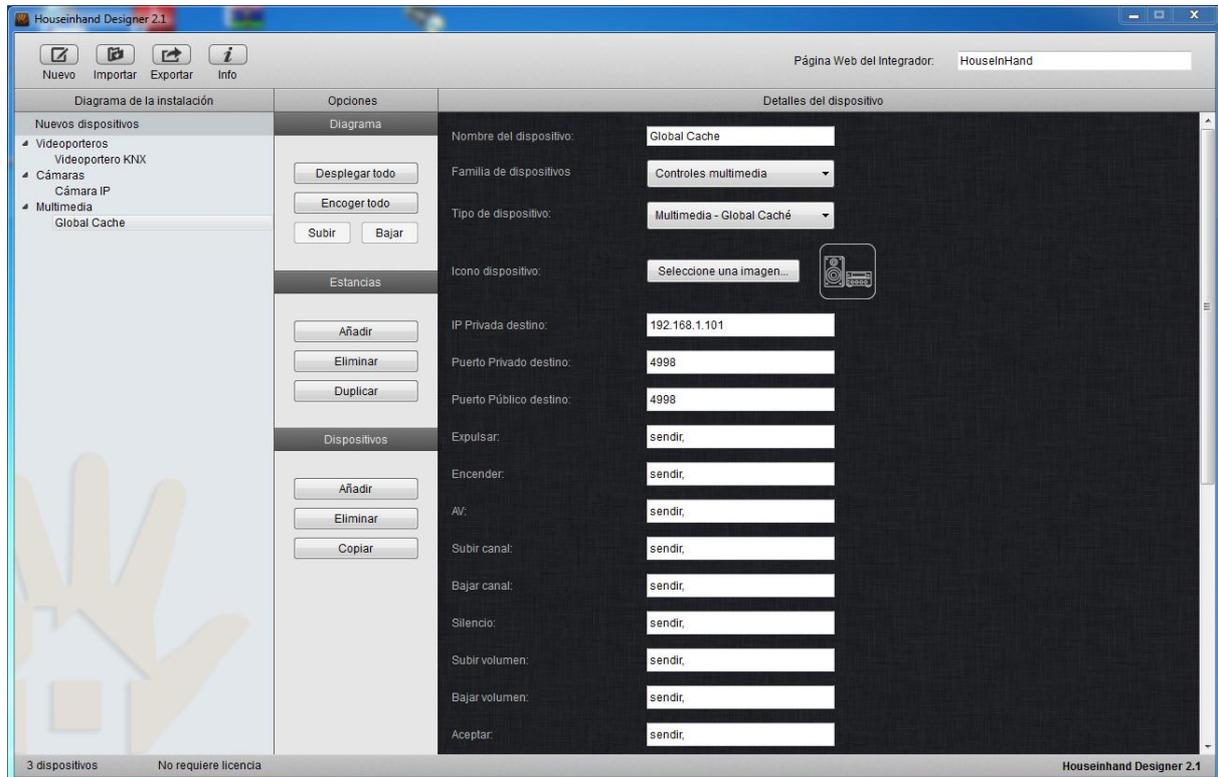
The fields that need to be configured are:

- **Private destination IP:** IP address that corresponds to the IRTrans® module.
- **Private destination port:** Port used for the app to connect locally with IRTrans®. Port 21000 is the one used by default.
- **Public destination port:** Port used by the application to connect remotely to IRTrans®. For more information about remote connection, please check the manual *“Remote Connections without VPN”*.
- **Destination LED:** Indicator used by the IRTrans® module to know to which LED commands need to be sent (on those devices that has more than one). Possible cases are:
 - **i:** It makes reference on the internal LED. It is the default value and the most used.
 - **e:** It makes reference to the external LED. Use it in case of having a *“tear”* connected to the *Jack* port of the IRTrans®.
 - **1-6:** Other devices and uses.
- **Remote controller:** Label assigned to the remote controller which has to be controlled. For more information, please check the manual *“IRTrans®*

module configuration” or check the manuals available in the manufacturers website: <http://www.irtrans.de/en/download/>

- **First function:** label of the first command to be sent.
- **First delay:** Delay (in seconds) that will apply before the next command is sent.
- **Second function:** label of the second command to be sent.
- **Second delay:** delay (in seconds) that will apply before the next command is sent.
- **Third function:** label of the third command to be sent.

AV Control (Global Cache®)



The fields that need to be configured are:

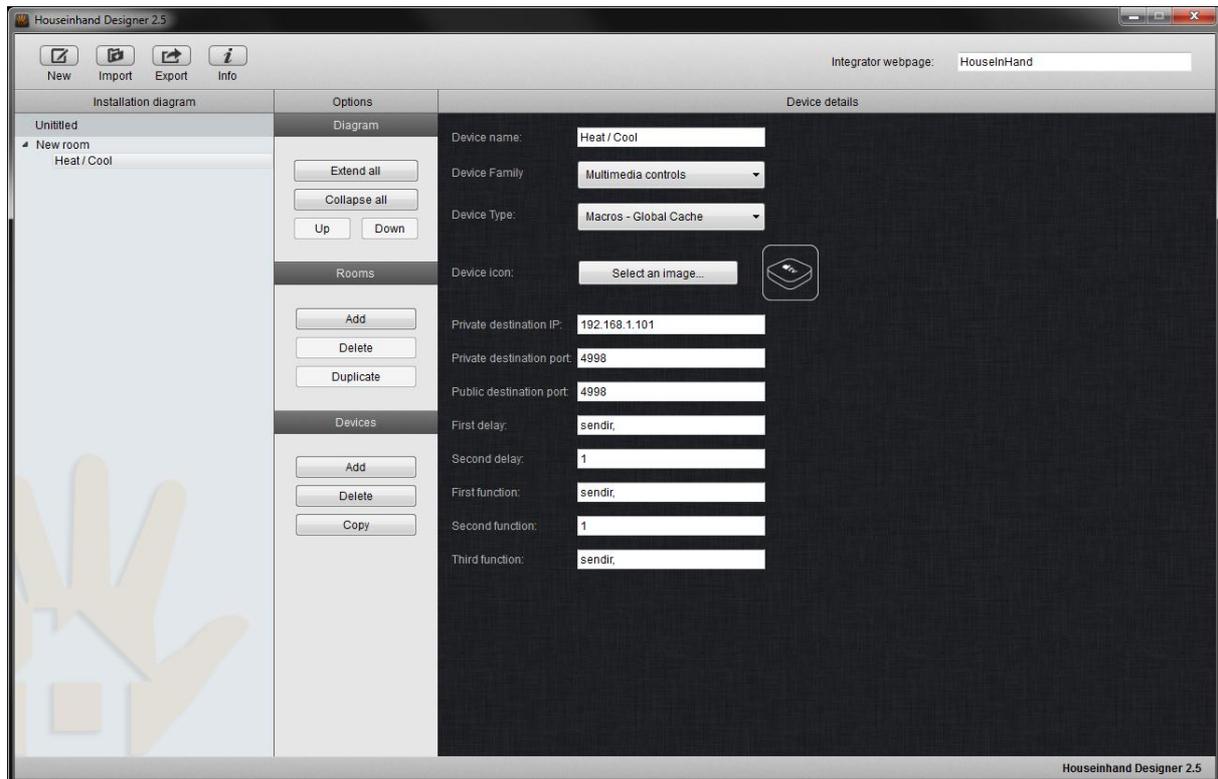
- **Private IP:** Private IP address of the Global Cache® module.
- **Private port:** Private port used by the application to connect to the Global Cache® module from inside. The default value is 4998.
- **Public port:** Port used by the application to connect to the Global Cache® module from outside. For further information about remote connections please refer to the manual “Remote setup without VPN”.

The rest of fields are about the Global Cache module to control each function. To fill all the fields, it's necessary to learn the IR commands with *iLearn* program (available in Global Cache webpage).

For instance:

sendir,4:1,1,36000,1,1,96,32,16,32,16,16,16,48,48,16,16,16,16,16,16,16,16,16,16,16,16,16,16,16,3024,96,32,16,32,16,16,16,16,16,48,48,16,16,16,32,15,16,32,16,16,16,720

Global Cache® Macro



The fields that need to be configured are:

- **Private destination IP:** IP address of the IP module from Global Cache®.
- **Private destination port:** Port used by our application to locally connect with Global Cache®. Port 4998 is the one used by default.
- **Public destination port:** Port used for the application to connect remotely to Global Cache®. For more information about remote connections, please check the manual *"Remote connections without VPN"*.
- **First function:** label of the first command to be sent.
- **First delay:** delay (in seconds) that will apply before the next command is sent.
- **Second function:** label of the second command to be sent.
- **Second delay:** delay (in seconds) that will apply before the next command is sent.
- **Third function:** label of the third command to be sent.



Those commands correspond to the IR frames learned with the program iLearn (available in the manufacturer website).

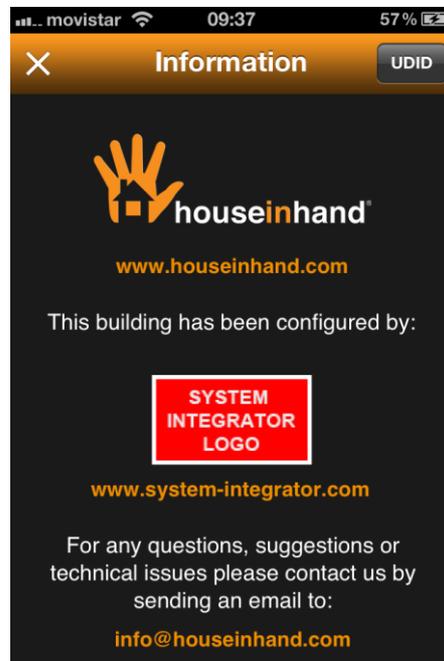
Example:

sendir,4:1,1,36000,1,1,96,32,16,32,16,16,16,48,48,16,16,16,16,16,16,16,16,16,16,16,16,16,16,16,3024,96,32,16,32,16,16,16,16,48,48,16,16,16,32,15,16,32,16,16,16,720

For more information on how to learn the IR commands, please check the manuals from Global ®.

Finishing configuration

Web site and integrator image



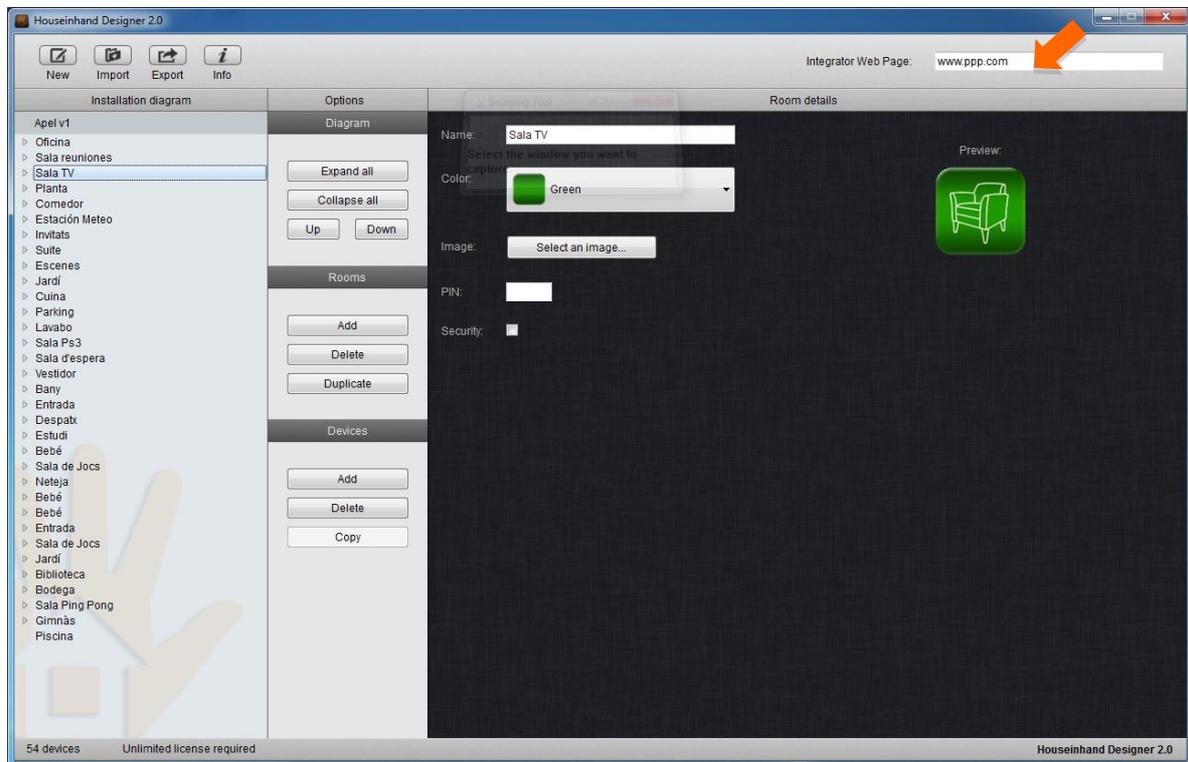
Houseinhand® allows personalizing the application in order that a link shows up (and takes you to the web site of the integrator), as well as an image or logotype.

To introduce the image, it is necessary to attach to the application (by means of the method iTunes File Sharing, see corresponding section) the logotype or image that you want with the following requirements:

- Name of the logotype/image: **hih_integrador**
- Size (wide x high): **115 x 65 (in pixels)**
- Format: **PNG**

In case of not respecting these requirements, the result may not be the expected.

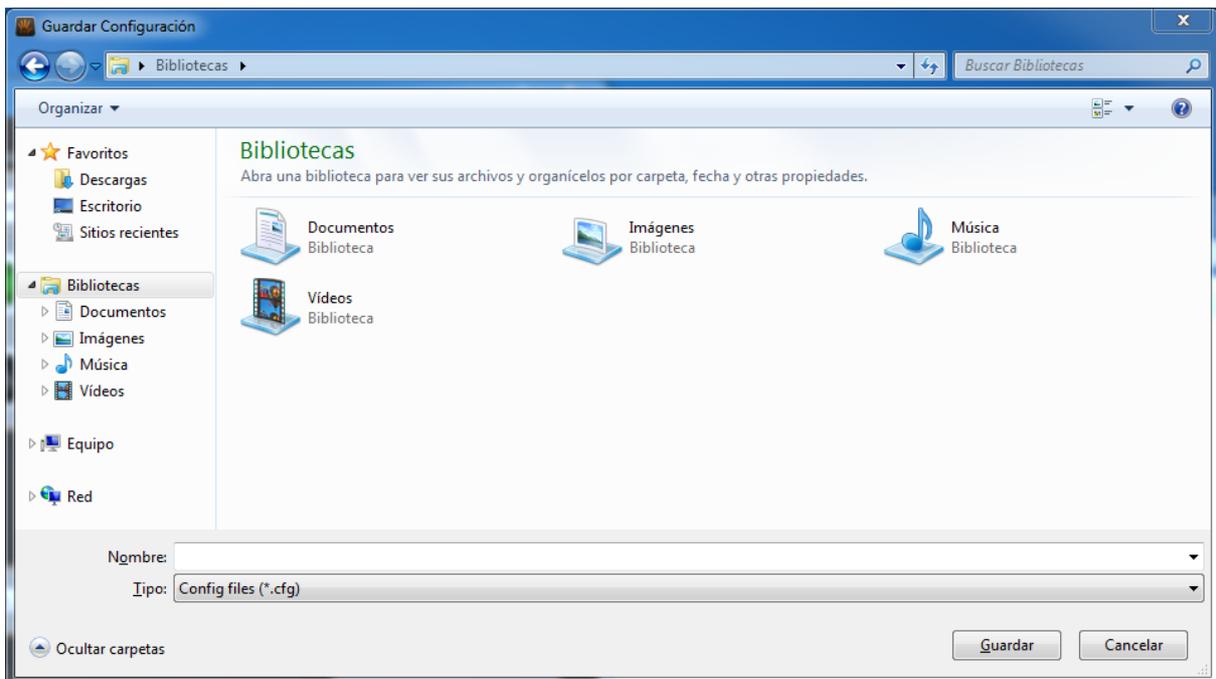
For the link with the web site to appear, it is necessary to introduce it in the field “Integrator’s web site”, in the upper right corner of the application.



Export configuration file

Once finished the configuration, the last step consists of exporting the file in order to introduce it in the final device.

For that purpose, it will be necessary to select the button “Export Config”, appearing a window as the one below:



Once the name and destination are introduced (it can be any name, as long as it has the extension .cfg), you will press the button ‘save’.

This way, two files will be generated: the .cfg. and one of configuration preview (in plain text format), which is useful to check that the whole structure has been correctly carried out.

Obtaining a license

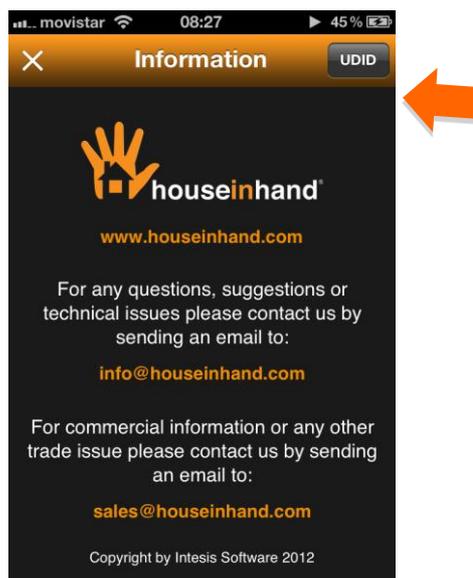
The license file is necessary to associate a device (iPhone/iPod/iPad) with the license number obtained. This file is totally independent from that of the configuration, and it is only necessary to request one for every new device.

The steps to follow must be carried out **from the final device**, that is to say the device for which one requests the license. Though the captures that appear later are that of the iPhone, the procedure in case of being an iPad is the same.

1. From the Houseinhand start window, Access the info window.



2. Once in the info window please press the UDID button:



3. Automatically, it will generate an e-mail with the device UDID and IP Router/Gateway MAC address (if connected to it).



This e-mail must be sent to your Houseinhand Sales Partner or sales@houseinhand.com, indicating the reference of the order in the concept and the type of license to assign to each device.

The references for each license are the following:

LICENSE TYPE / DEVICE	REFERENCE
iPhone / iPod	HIH_IPHONE
iPad	HIH_IPAD

For instance, in case of requesting two licenses, one for iPhone/iPod and another one for iPad, you must indicate it as follows:

1. iPhone/iPod's UDID – HIH_IPHONE
2. iPad's UDID– HIH_IPAD