bticino

IRSplit

User guide

IRSplit
File
Tools
Language
COM1
Name:
Advanced Project
Project
Brand:
Daikin
Model:
ARC433A41
Author:
Description:
Id
Power
Mode
Temperature
269
On
Heat
17 °C
270
On
Heat
18 °C
271
On
Heat
19 °C
272
On
Heat
20 °C
Public
Brands
bticino
Copyright BTicino S.p.A.
IRSplit
Version 1.0
Build 325
configuration software
SCS
ZA/A
ZB/PL
N
M
bticino
SCS
3456
TX-IR
not saved

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1. Hardware and Software requirements

Warning: The IRSplit software is the fundamental tool for the configuration of the IR 3456 emitter, which, for convenience, will be referred to as device in this manual. The content of this software is protected by exclusive rights owned by the company BTicino SpA.

1.1 Hardware requirements

- Personal Computer with > 300 MHz Pentium processor minimum.
- 1 GB RAM memory.
- SVGA graphic card with 800x600 resolution.
- CD-ROM reader.
- Mouse.

1.2 Software requirements

- Windows XP 32BIT, Windows Vista 32BIT, or Windows 7.
- Microsoft™ framework.NET 3.5 SP1.

The updated requirements can be found on the www.bticino.com website

2. Installation

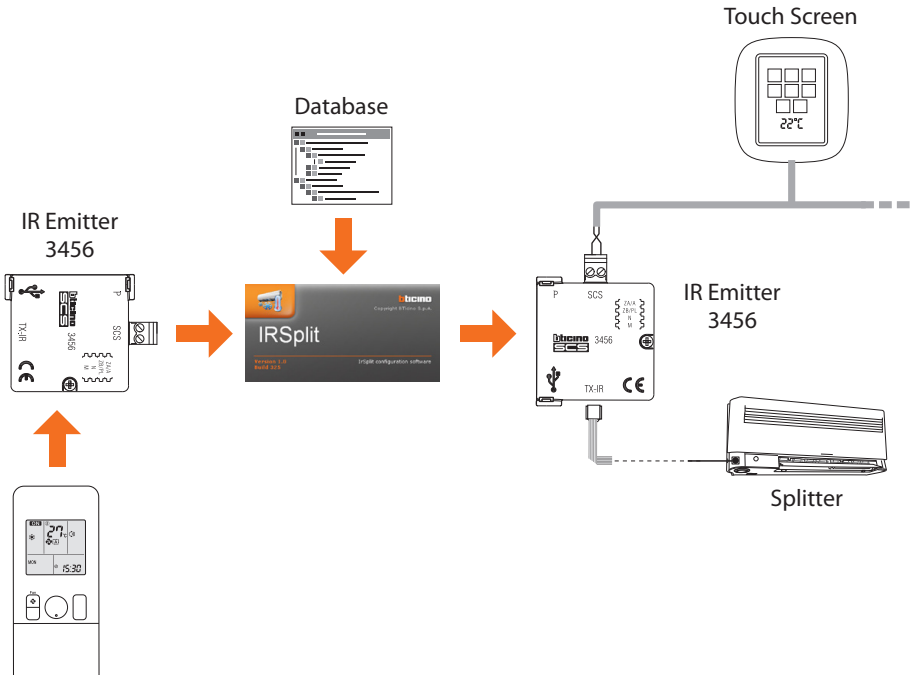
To install the IRSplit software proceed as follows:

1. Insert the CD-Rom in the CD drive;
2. Select "Install IRSplit" from the main web screen that will appear;
3. The installation program will start copying the system files needed for the installation of the IRSplit software.

3. Fundamental concepts

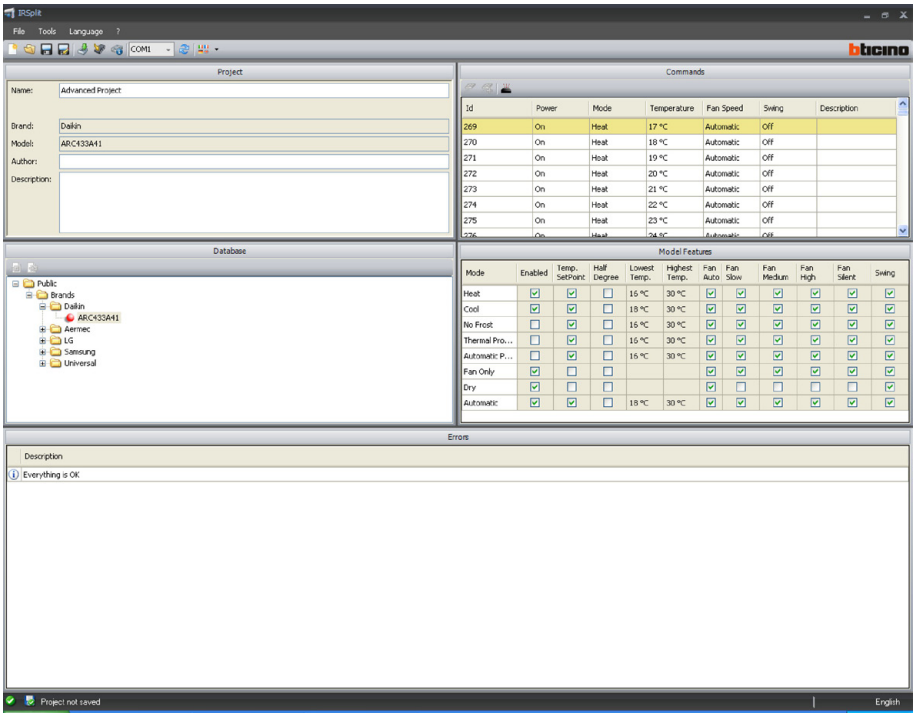
Warning: For correct IRSplit software operation, the device must be installed following the instructions contained in the instruction leaflet supplied with the product.

The IRSplit software allows the user to create a project containing all the necessary commands for the management of the air conditioning system splitters. Subsequently, the commands are downloaded to the device. The air conditioning system is thus integrated in the SCS system, and can be managed using control devices such as Touch Screen.
The importing of the commands is performed through acquisition from the splitter remote control. This procedure is non necessary if the splitter model is already listed in the software database.



For the purpose of convenience the term “commands” in this manual will always refer to a “group of commands”, because all the information that the remote control sends to the splitter will be acquired.

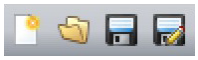
For example, if we send a command to set the temperature to 17 °C, in reality the remote control will also, at the same time, send the full set of parameters for the operating mode (air conditioning, de-humidifier, ventilation, etc.), fan-coil speed, swing, etc.



It is also possible to create custom databases, saving the controls acquired by the splitter remote controls not included in the default database software (see the “Creating a custom database” section).

3.1 Function menus and pushbuttons

All the functions that can be performed using IRSplit can be selected by clicking the icons on the toolbar, or by selecting the appropriate items from the drop down menus.
The toolbar includes the following functions:



Configuration file Creation, Open, Save and Save as.

Configuration Download.

Device firmware update.

Device information request.

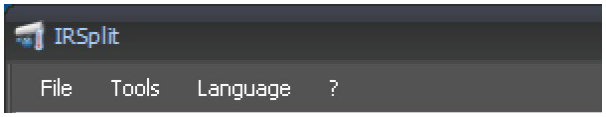
Selection of the device connection port.

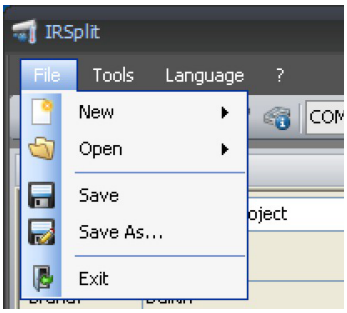
Automatic connection port search.

Application language selection.

Connection to the www.bticino.com website.

The Pull-down menus includes the following functions:

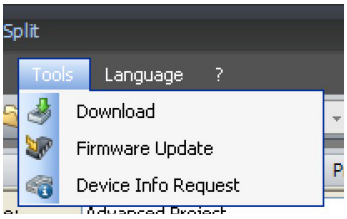




"File" menu

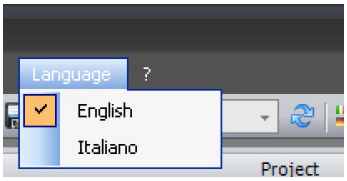
- **New**
  Create a new project.
- **Open**
  Open an existing configuration file or a database.
- **Save**
  Save the current project.
- **Save as…**
  Save the current project prompting the user to enter a file name.
- **Exit**
  Exit the software.

"Tools" menu



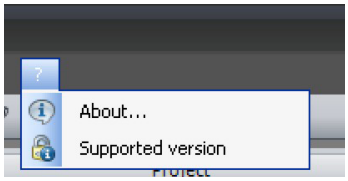
- **Download**
  Download the commands to the device.
- **Firmware Update**
  Update the device firmware.
- **Device Info Request**
  Display technical information.

"Language" menu



- **Language**
  Select the application language.

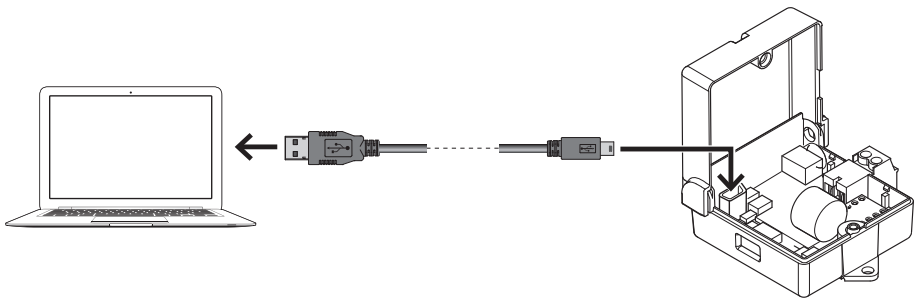
"?" menu



- **About…**
  Display of some IRSplit software information.
- **Supported versions**
  It displays the list of all the device firmware versions compatible with the IRSplit software.

3.2 Connecting the device to a PC

In order to perform the **Download**, **Firmware Update**, and **Device Info Request** functions, the user must first connect the device to a PC, and ensure that the correct port has been selected.
This operation must be performed as follows:
Connect a USB cable to the miniUSB connector of the device and a PC USB port.



Select the COM communication port, if known, or click to start the automatic port search.

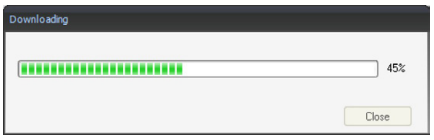
If a project is created and then saved as a file, no connection to the device is necessary.

3.3 Download

It allows the user to send the project commands to the device.

Procedure:

- Connect the device to a PC as shown in the corresponding section.
- From the **Tools** Pull-down menu select **Download**.



- Click **Exit.**

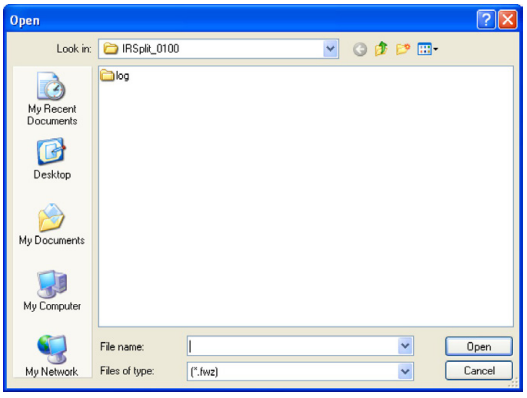
3.4 Firmware update

It allows the user to update the device firmware.

Procedure:

- Connect the device to a PC as shown in the corresponding section.
- From the **Tools** pull-down menu select **Update Firmware**.

The following screen appears, prompting the user to search for the folder containing the firmware file with extension **.fwz** (compressed file).



- Select the file and click **Open** to continue.

The device firmware has now been updated.

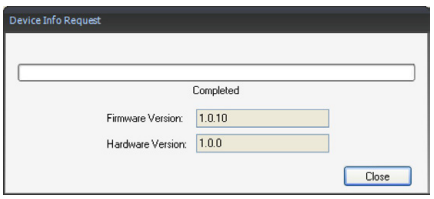
3.5 Device Info Request

It allows to display some information relating to the device connected to the PC.

Procedure:

- Connect the device to a PC as shown in the corresponding section.
- From the **Tools** Pull-down menu select **Device Info Request**.

After a few seconds, during which the software collects the data from the device, the following window appears, showing the device hardware and software features.



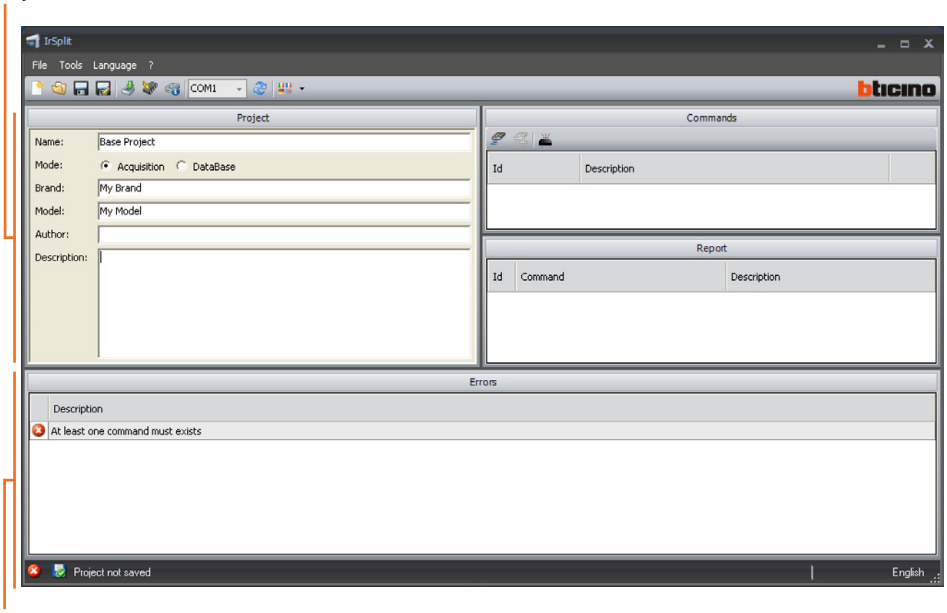
4. Base project configuration

Using this configuration it is possible to create a project containing up to a maximum of 20 commands: these commands can be acquired directly by the splitter remote control. Alternatively, it is possible to recover the commands from a database listing the various brands and models of the air conditioning units.

4.1 Acquisition mode interface

Project area

Available commands area



Error area

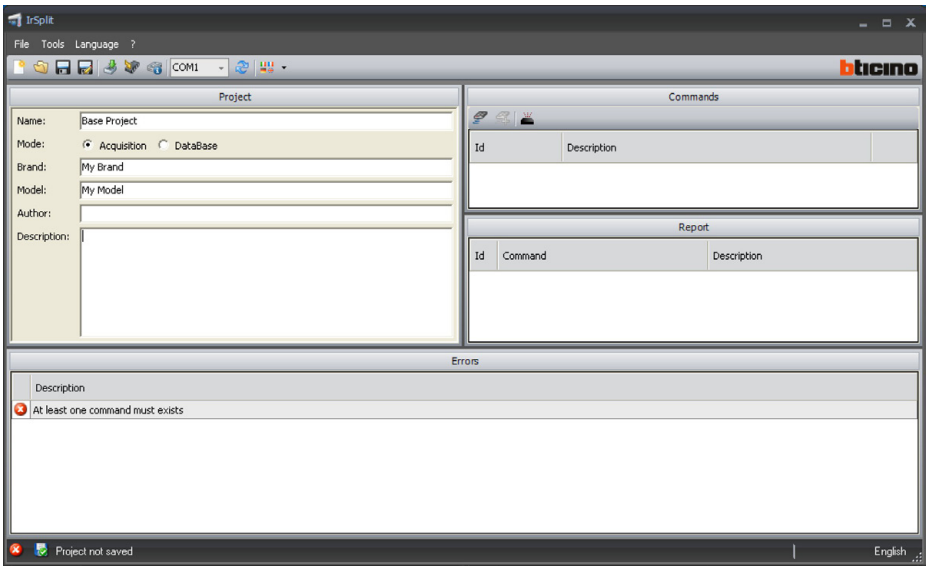
Commands to be downloaded area

In acquisition mode, the screen is split into:

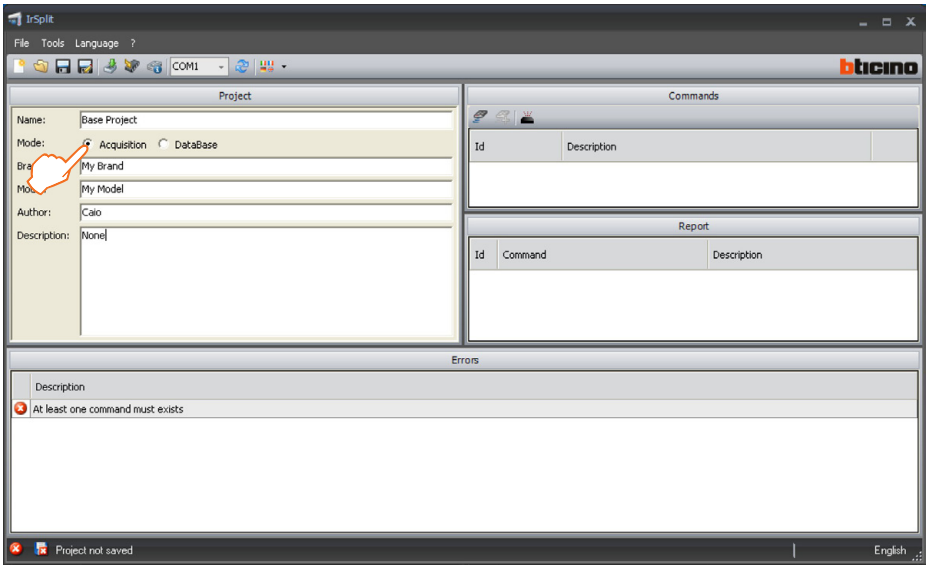
- **Project area**
  The area where the project data must be entered.
- **Commands area**
  The area listing all the commands acquired by the remote control.
- **Report area**
  The area listing all the commands to be downloaded to the device.
- **Errors area**
  The area showing any project errors.

4.2 Acquiring commands from a remote control

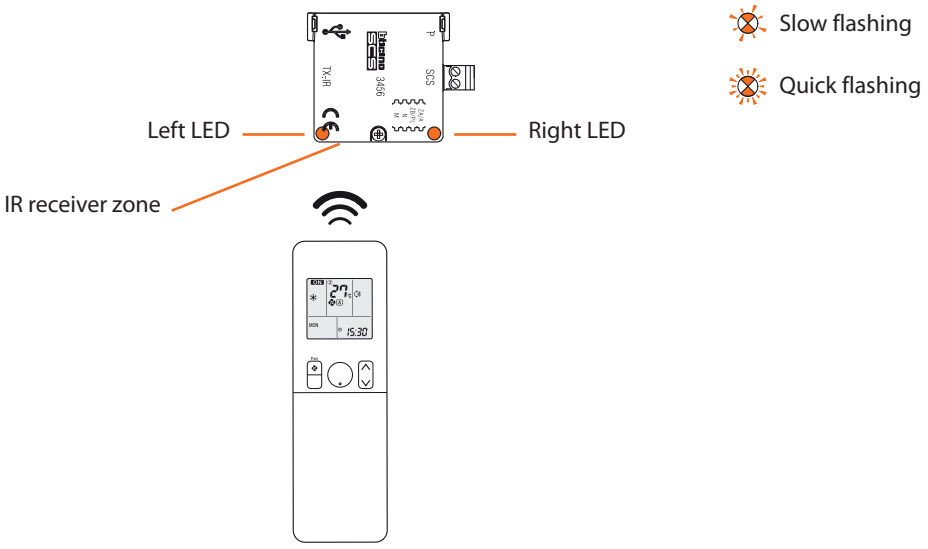
- Connect the device as shown in the corresponding section.
- Select **File/New/Base Project** to create a new project.



- Customise the description and select **Acquisition.**

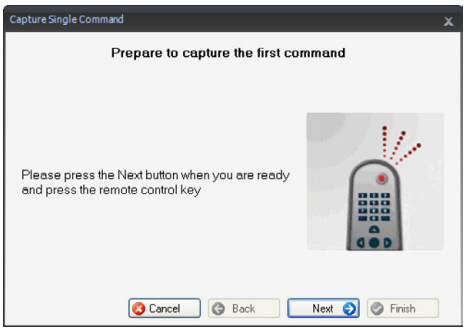


- Move the remote control near the splitter, pointing it towards the IR receiver.



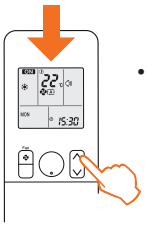
- Click the Acquisition key.

The following window appears:



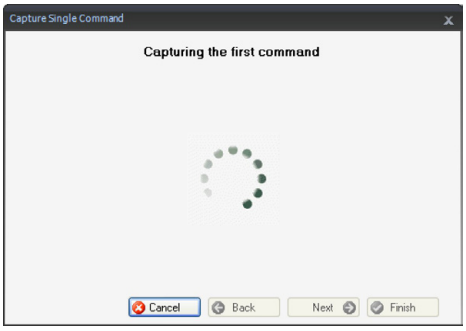
- Click **Next.**

- Wait for the left LED to start flashing quickly.



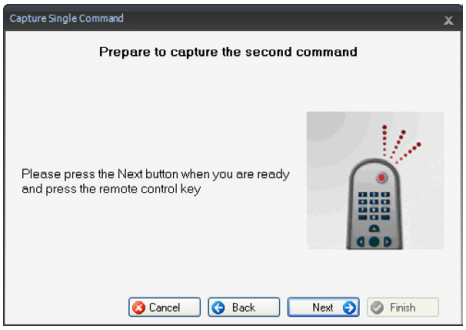
- Press the remote control key corresponding to the command to be acquired (e.g. temperature between 21 °C and 22 °C).

The following window appears:



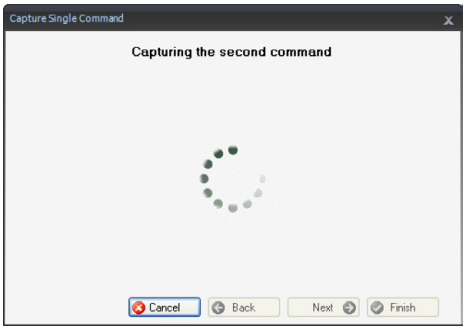
The same command must now be acquired again to confirm the action.

The following window appears:

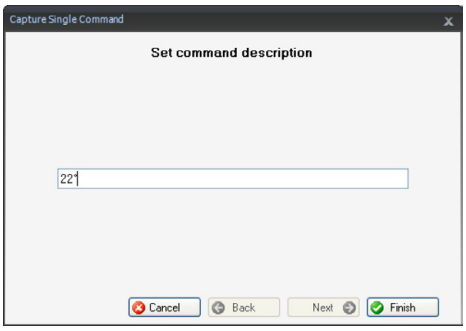


- Repeat the previous operation ensuring that the remote control is brought back to the previous condition (21 °C).

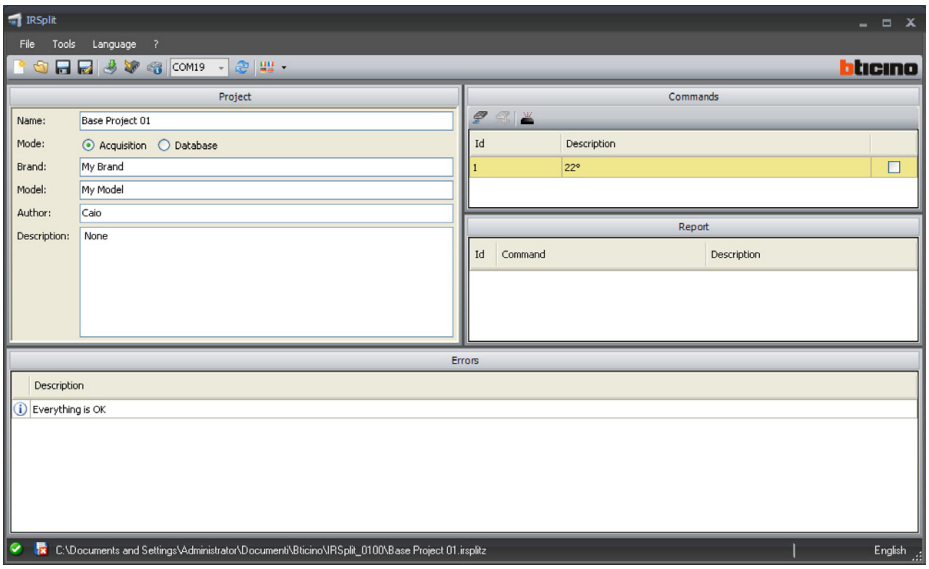
The following window appears:



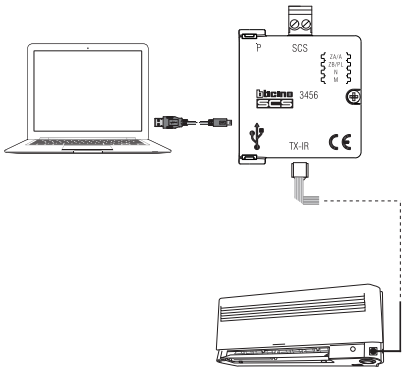
A command description can now be entered.

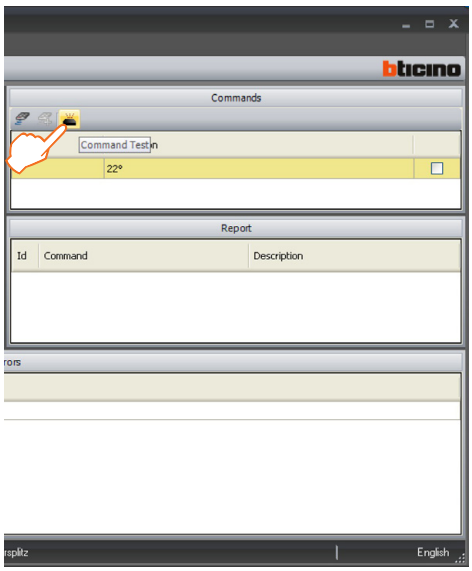


- Click **Finish**: the command is imported in the project and is displayed in the commands area.

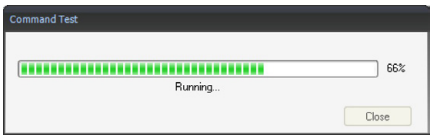


If the device is connected to the splitter through a cable, the command can now be tested by clicking the appropriate key.

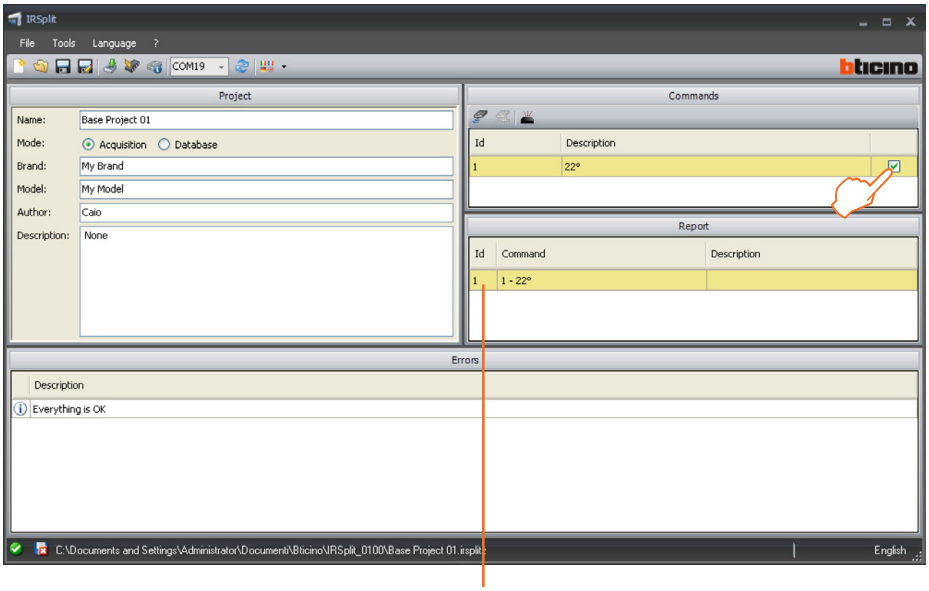




If the saving procedure has been performed correctly, the command will be executed.



It is now possible to acquire other commands, or select the commands to be downloaded to the device.



Command ID number

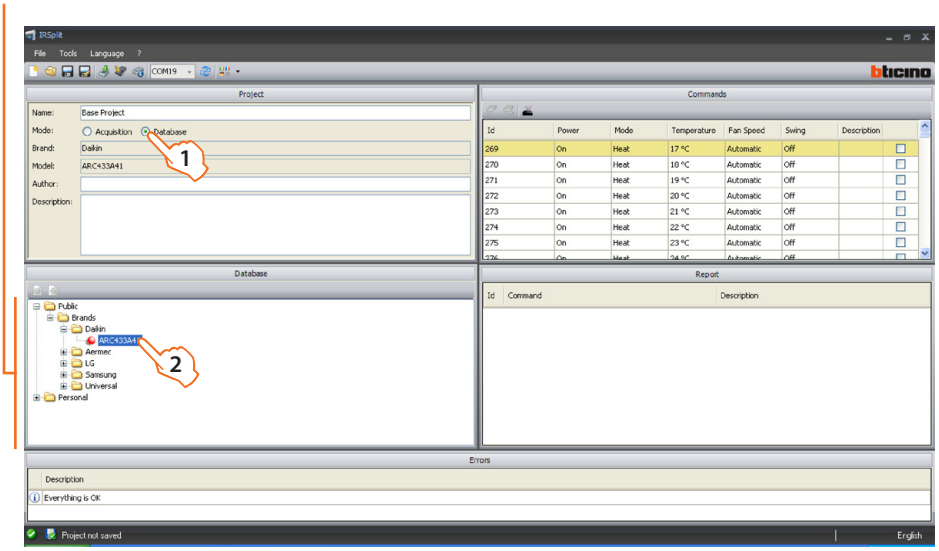
To download the commands to the device, perform the download procedure as shown in the appropriate section.

4.3 Acquiring commands from the database

If the splitter to be connected to the SCS system is included in the database models list, acquisition of their remote control will not be necessary: simply select **Database** in the project area. Warning: in this case the project is different from the one created in the previous paragraph.
Then select the brand/model.
The available commands are displayed in the project area.

Database Area

Commands available for the selected model

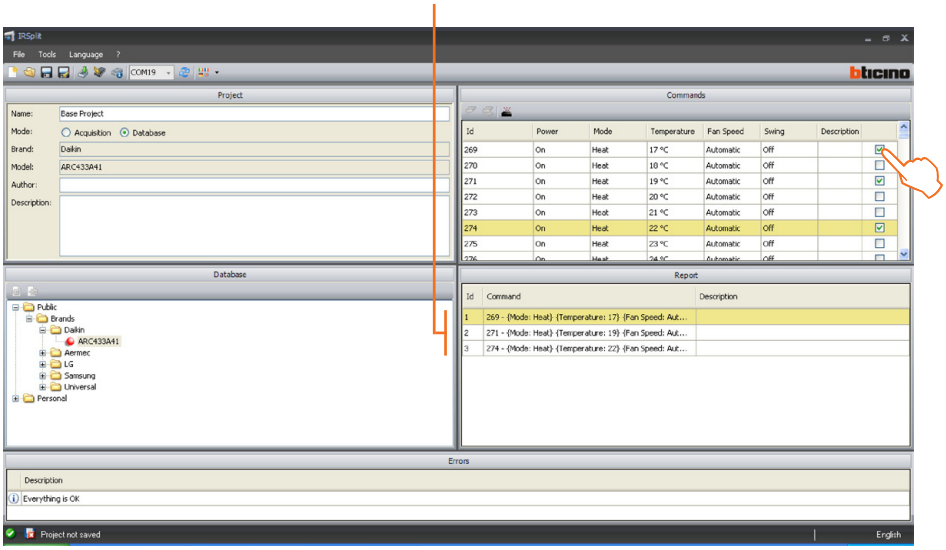


Now the user can select the commands to download to the device.

As already discussed, these are not individual commands, but sequences of parameters.

Example:
ID269: on, warm, 17 °C, automatic fan-coil speed, etc.

Commands identification numbers, to be used in TOUCH SCREEN



To download the commands to the device perform the connection procedure, followed by the download procedure, as shown in the appropriate sections.

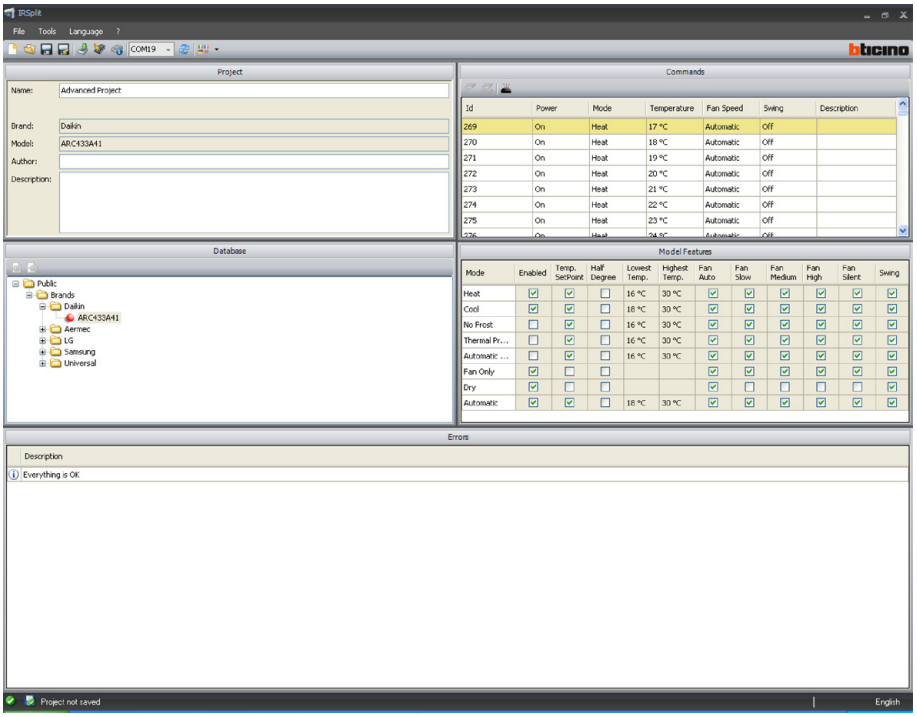
5. Advanced project configuration

Using this configuration, it is possible to create a project containing all the commands of a certain splitter. In this way the splitter is managed by the Touch Screen as if using its remote control.

- Select the brand/model.

The area on the right will show the model's features, and all the commands that will be downloaded to the device.

Available commands



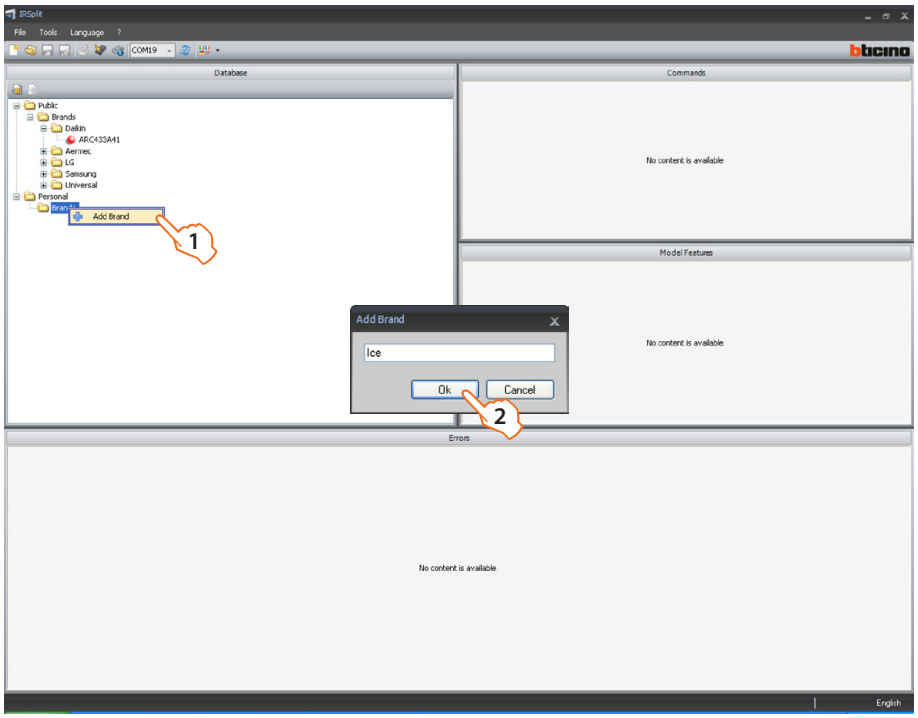
Model features

To download the commands to the device perform the connection procedure, followed by the download procedure, as shown in the appropriate sections.

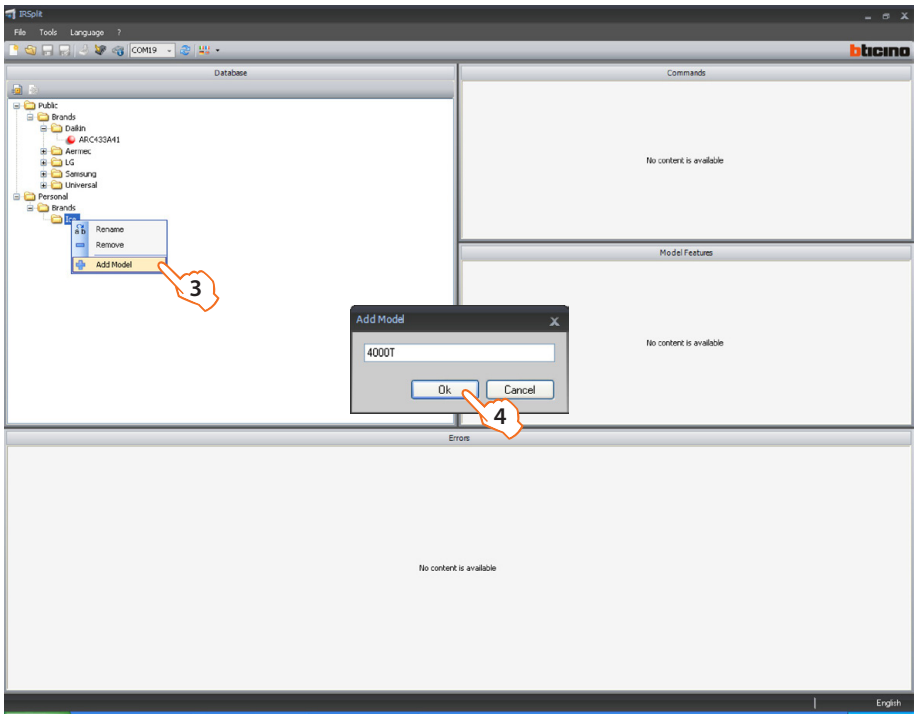
6. Creating a custom database

The database in the software can be customised by adding the commands of splitters acquired by the user.

- Select **File/Open/Database.**
- Select **Brand** in the **Personal** folder.
- Use the right key to add the brand.
- Enter a description, and click **OK.**



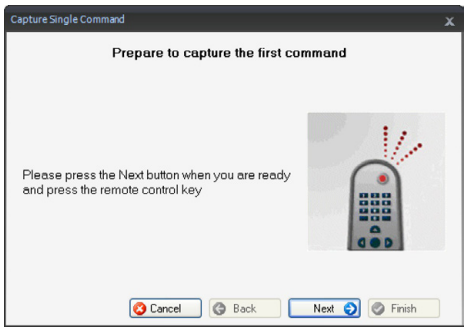
- Select the created brand and use the right key to add the model. Enter a description and press **OK.**



The commands can now be acquired:

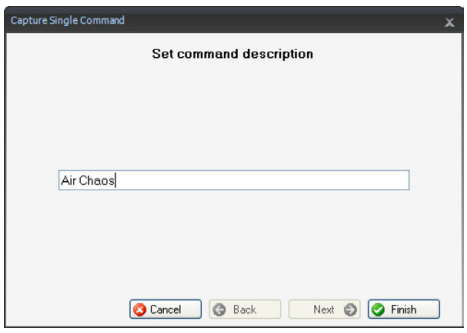
- Click the Acquisition key.

The following window appears:



- Follow the procedure shown in the **Acquiring commands from a remote control** section.

When the procedure is completed, the following screen appears:

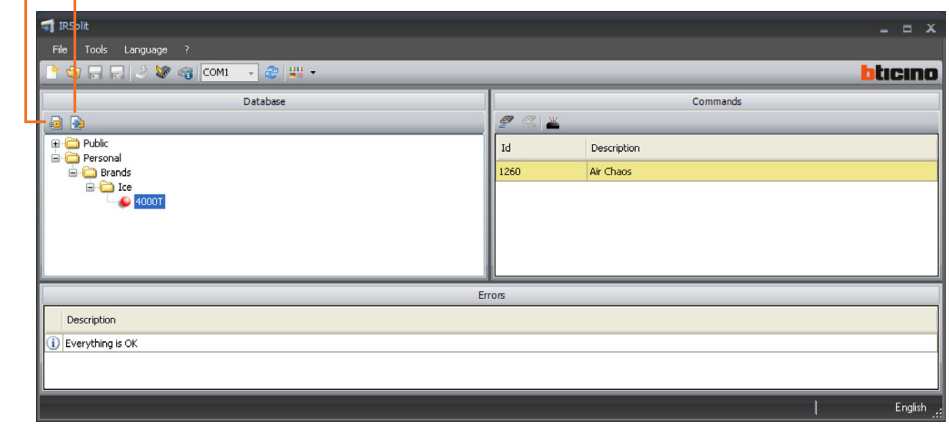


- Enter a description and click **Finish.**

The model can now be made available for other projects by using the **Export Model** function.

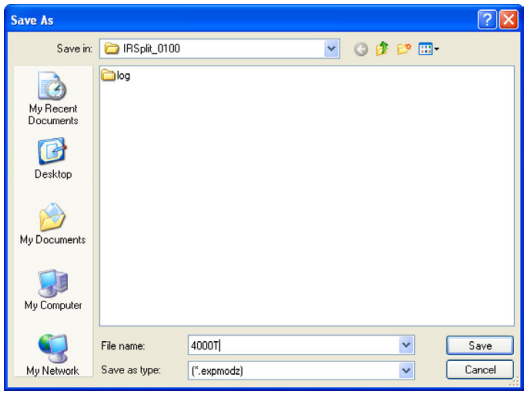
Import Model

Export Model



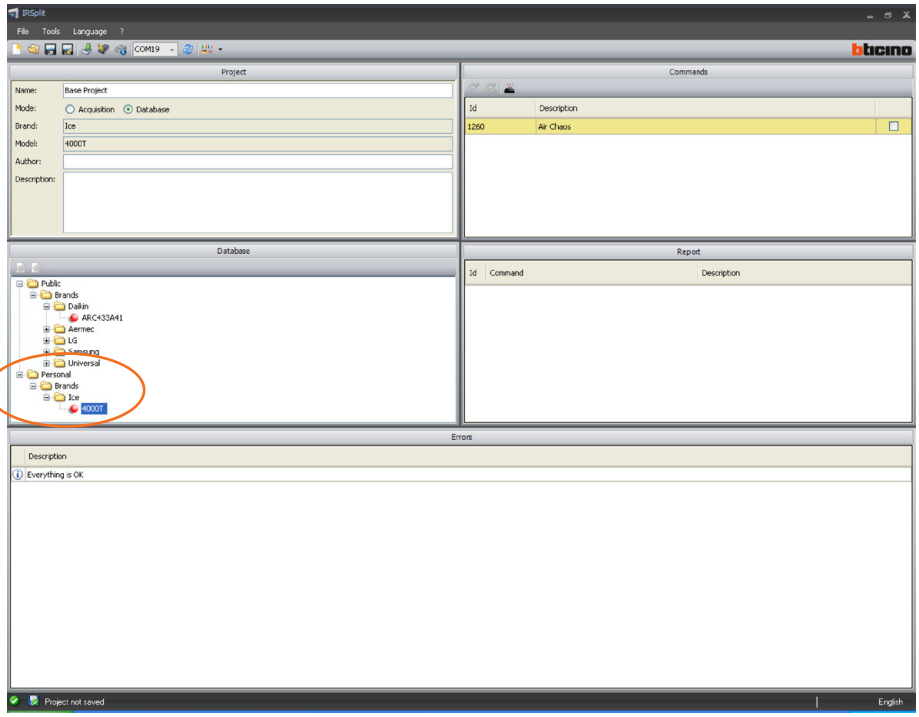
- Click the **Export Model** key.

The following window appears:



- Select **Save** to save the database.

The model previously saved is now listed in the database, and can be used in the same way as those already listed by default.



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