

WiOO use and installation guide

WiOO Master Switch and WiOO Switch using the WiOO app



ATTENTION: WiOO was designed in compliance with safety regulations and to meet the needs of civil and industrial systems. The installation of WiOO devices must be performed by a qualified and licensed electrician, company or individual professional, who can issue the necessary declaration of conformity of the electrical system.

Version 2 - October 2024

Design and Made in Italy by:



Summary

Safety Information	4
Regulations	5
Legal Notices	5
Declaration of Conformity	5
WEEE Directive Compliance	5
Works with Apple HomeKit	5
Technical Specifications	5
Requirements	5
Install Wi00	6
Wall mounting	6
How will the WiOOs look like?	6
Use in Manual mode	7
Configure WiOO	8
Check the Apple Home app settings	8
Add WiOO Master Switch as a HomeKit accessory	8
Add all other WiOO Switches	11
Create the "virtual" electrical system with the Wizard	13
Wizard response flow chart	16
Refine the "virtual" electrical system with WiOO	
Device	
Editing options of a WiOO	
Circuit	
Create a new Circuit	
Matching a Circuit to a Button	
Mood	_
Create un Mood	
Apply a Mood to a device	
Create a Scene	25
Firmware update	27
The color messages of the Halo	28
Commands from the System Menu	30
Submenu	30
Commands from the WiOO App	31

Safety Information



Read this manual before attempting to install the device!

Failure to observe recommendations included in this manual may be dangerous or cause a violation of the law. The manufacturer will not be held responsible for any loss or damage resulting from not following the instructions of operating manual.



DANGER OF ELECTROCUTION!

Il dispositivo è progettato per funzionare in installazioni elettriche domestiche solo per uso interno in luoghi The device is designed to operate in electrical home installation for indoor use only in dry locations.

Do not use in damp or wet locations, near a bathtub, sink, shower, swimming pool, or anywhere else where water or moisture are present.

Faulty connection or use may result in fire or electric shock.

All works on the device may be performed only by a qualified and licensed electrician in compliance with national regulations.

Even when the device is turned off, voltage may be present at its terminals.

Any maintenance introducing changes into the configuration of connections, or the load must be always performed after cutting off the power to the system and by a qualified and authorized electrician.

To avoid risk of electrical shock, do not operate the device with wet or moist hands.



Do not modify!

Do not modify this device in any way not included in this manual.



Other devices!

The manufacturer, will not be held responsible for any damage or loss of warranty privileges for other connected devices if the connection is not compliant with their manuals.



Not a toy!

This product is not a toy. Keep away from children and animals!

Regulations

Legal Notices

All information, including, but not limited to, information regarding the features, functionality, and/or other product specification are subject to change without notice. WiDesign srl reserves all rights to revise or update its products, software, or documentation without any obligation to notify any individual or entity.



The manufacturer, WiDesign srl, declares that the device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/35/UE.



WEEE Directive Compliance

Device labelled with this symbol should not be disposed with other household wastes. It shall be handed over to the applicable collection point for the recycling of waste electrical and electronic equipment.

Works with Apple HomeKit

The use of the "Works with Apple HomeKit" badge on package means that WiOO has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Communication between iPhone, iPad, Apple Watch, HomePod, HomePod mini, or Mac and the HomeKit-enabled WiOO Master Switch is secured by HomeKit.

Technical Specifications

Input: 100-240V AC, 50/60 Hz
 Output: 100-240V AC, 50/60 Hz

Power consumption: max 5W

Maximum Power: 300 W (max 100W per output)

Operating temperature: -10 °C ~ 40 °C

• Wi-Fi standard IEEE 802.11 b / q / n 2.4GHz

- Bluetooth 4.2 BR/EDR and Bluetooth LE specification
- Suitable for indoor use only
- Dimensions: Length 13,2 cm, Height 9,7 cm, Depth 4,4 cm

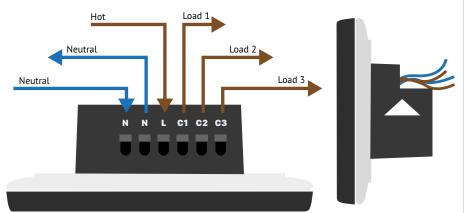
Requirements

- 1 (one) WiOO Master Switch is required for every 11 WiOO Switch
- Internet access
- To control this HomeKit-enabled accessory, the latest version of iOS or iPadOS is recommended
- Configuration via the free WiOO App, available on the App Store (check compatibility with the iOS version of the device)
- (OPZIONALE) AppleTV (4th generation or later), iPad, HomePod, or HomePod mini, set up as a home hub and kept active at home set, for away from home and automation control

Install Wi00

Wall mounting

- 1 Disconnect the power to the system or to the portion of the system concerned
- 2 Connect the WiOO Master Switch and the WiOO Switches as shown in the diagram, **keeping the connections / terminals upwards**.



TIP:

To install the **WiOO Master Switch**, choose a location that allows good reception of the home WiFi network.

IMPORTANT:

WiOO is supplied with two N terminals to recreate the pass-through Neutral.

Each load can manage traditional lights, smart lights or devices with a maximum draw of 100W. Where not necessary, a load can also remain free.

- 3 Secure the device to the wall box using the screws provided, then apply the external plate.
- 4 Restore power to the system or to the portion of the system concerned.

How will the WiOOs look like?

 If the WiOO Master Switch and the WiOO Switches are connected correctly, they will appear in the "First On" state, respectively with Purple Comet halo animation for the Master Switch and White Comet for the Switch.



 If the configuration is not started immediately, after 15 minutes of inactivity, the WiOO Master Switch will show the "Pairing to WiFi not completed" error with the Red Comet halo animation.



To configure it with the app, you must first perform the "Reboot" procedure illustrated on page 30.

Use in Manual mode

2

second

If you can't set up right away, set the WiOO Master Switch and the WiOO Switches to "Manual Mode".

In this state each WiOO is already able to turn the connected devices on and off:

• Button 1 (left) will turn on the light or accessory connected to Load 1

• Button 2 (center) will turn on the light or accessory connected to Load 2

• Button 3 (right) will turn on the light or accessory connected to Load 3

To return to normal operation, touch all 3 buttons again for more than 1

Configure Wi00

Check the Apple Home app setting

2

If the Apple Home app is already being used to manage other HomeKit devices, these instructions may not be necessary.



1 Make sure that the iPhone is connected to the WiFi network which will also be used by the WiOO Master Switch and start the Apple Home app.

IMPORTANT:

WiOO Master Switch supports 2.4Ghz WiFi network.



Create a home from the **+ (plus)** button at the top right and, if available, add an accessory to use as a home hub (Apple TV or HomePod), following the provided step by step instructions.



TIP:

If more than one home is managed within the Apple Home app, make sure you are in the correct home, the one in which the WiOOs have been installed. If necessary, change your home from the top right menu.



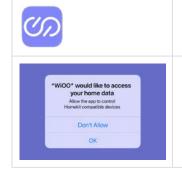
Within the new home, use **Add Room** to create the necessary rooms in order to assign the right position to each WiOO.



IMPORTANT:

DO NOT add WiOO devices within the Apple Home app, you will do this step in the WiOO app!

Add WiOO Master Switch as a HomeKit accessory



Start the WiOO app, available for free from the Apple App Store.

A popup window will ask for permission to access HomeKit through the Apple Home app. Click **OK.**



3 Check the colors of the WiOO Master Switch!



If they are still in the "First On" state, with the Purple Comet animation, click **Next** to start the configuration.



If the Red Comet animation appears, perform the "Reboot" procedure shown on page 30.



4 As required by the app, frame the HomeKit configuration code available in the "Installation Guide" included in the WiOO Master Switch box.

IMPORTANT:

Keep the installation guides of all WiOOs, especially the WiOO Master Switch. They contain codes and notes that may still be needed.



5 Click **Add to Apple Home**. Connection may take a few minutes.



Bridge Location

Corridolo
Cucina
Soggiorno
Bedroom (Suggested)
Living Room (Suggested)
Continue
Identify

Thanks to the combination with the Apple Home app, you can choose the room. Click **Continue**.

To facilitate recognition at home, the **Identify** button starts Purple Blink animation on the WiOO halo.





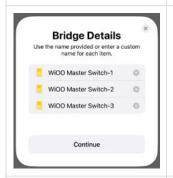
Name the WiOO Master Switch and click **Continue**.



TIP:

Since this is the primary device that all WiOOs must refer to, leave a reference to "Master" in the name.

Also, write down the assigned name on the installation guide available in the product box. They could still be useful.



8 HomeKit, with the Apple Home app, recognizes three switches within each WiOO to which it assigns an automatic name.

It would already be possible to assign the correct name (for example: Fireplace applique, Crystal chandelier, Console lamp, etc...), but the Wizard will make this step much easier without having to remember how the wires were connected!



IMPORTANT:

When the app shows this message, confirm with **OK**.





Domomia

We are setting up your WiOO It will soon be ready for use

10 Now the WiOO Master Switch will show up in "Standard Setting" mode with the halo OFF and the three buttons lit in Purple.

In this state each WiOO is already able to turn the connected devices on and off.

- Button 1 (left) will turn on the light or accessory connected to Load 1
- Button 2 (center) will turn on the light or accessory connected to Load 2
- Button 3 (right) will turn on the light or accessory connected to Load 3



Add all other WiOO Switches (up to 11)



After having recognized and configured the WiOO Master Switch, the WiOO app proposes the **Wizard**.

Before starting the procedure, if many WiOO Switches have been installed in the house (therefore there is a second WiOO Master Switch still to be configured) it is necessary to choose the 11 Switches to be paired with the WiOO Master just installed and put all the others in System mode.

To put the WiOO Switches in System mode, simultaneously touch the **3 buttons** until the Light Blue Comet appears. They will then be excluded from the search.

Once the configuration of the first 11 Switches is complete, reactivate the excluded WiOO Switches by pressing the **3 buttons** again until the standard setting returns.

IMPORTANT:

One WiOO Master Switch manages up to 11 WiOO Switches

If more than 11 WiOO Switches are installed in the house, it is necessary to have a second WiOO Master Switch and carefully follow the installation instructions.

2 Click **Let's start**.

1 WiOO found in Domomia,1 require the wizard.

If you have more WiOO devices in your home than have been detected if means that some devices are not yet visible to the WiOO Master. You can add them by pressing "Search other WiOOs".

If the number of WiOOs detected is correct, "Continue" with the Wizard.

Look for other WiOO

Continue

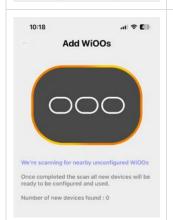
Wizard detects the WiOOs present in the system that can be configured with the wizard.

If any are missing, press **Look for other WiOO** to start the search for WiOO Switches installed in the house.

At the end, all the WiOOs will be joined by a Mesh network capable of guaranteeing communication and management of the system.

IMPORTANT:

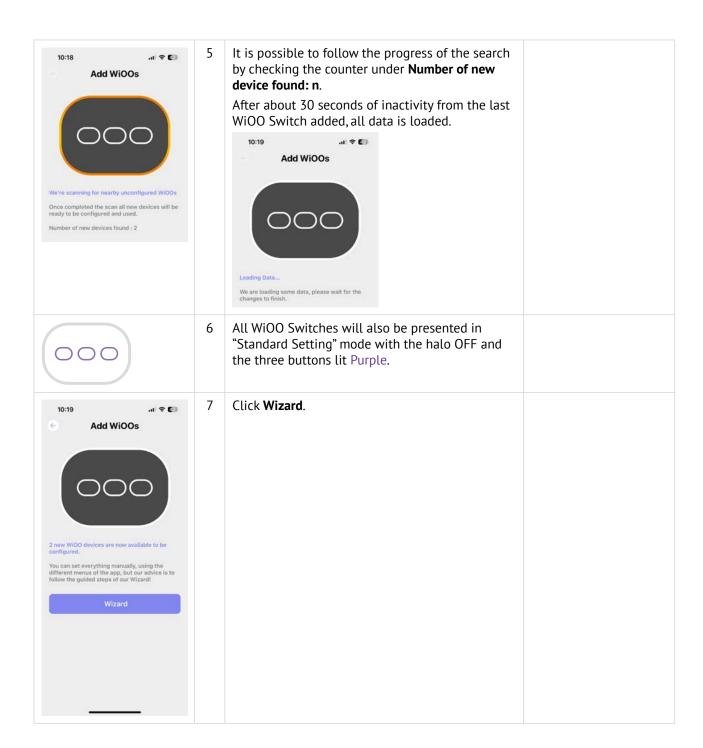
If for any reason the Wizard procedure is interrupted, it can be restarted from the Magic Wand button in the Devices menu at the top left.



WiOO Master Switch starts the search procedure.

You will notice that the WiOO Master Switch halo changes showing the Orange Comet animation and a White flash appears for each new device detected in the network.





Create the "virtual" electrical system with the Wizard



1 Wizard is a guided procedure that allows you to identify all the connections made in the system to correctly assign them to the "virtual" system. At the same time, thanks to the steps in the procedure, it is possible to place the devices in the rooms and give a name to the active Circuits.

All connections not available in the system will also be released in the "virtual" system to be used for other functions.

Click Continue.



All devices will be proposed one after the other.
To recognize the device the Wizard is working on, click Identify and observe the Purple Blink animation of the halo.



Click Continue.



Check the device name and the assigned room.

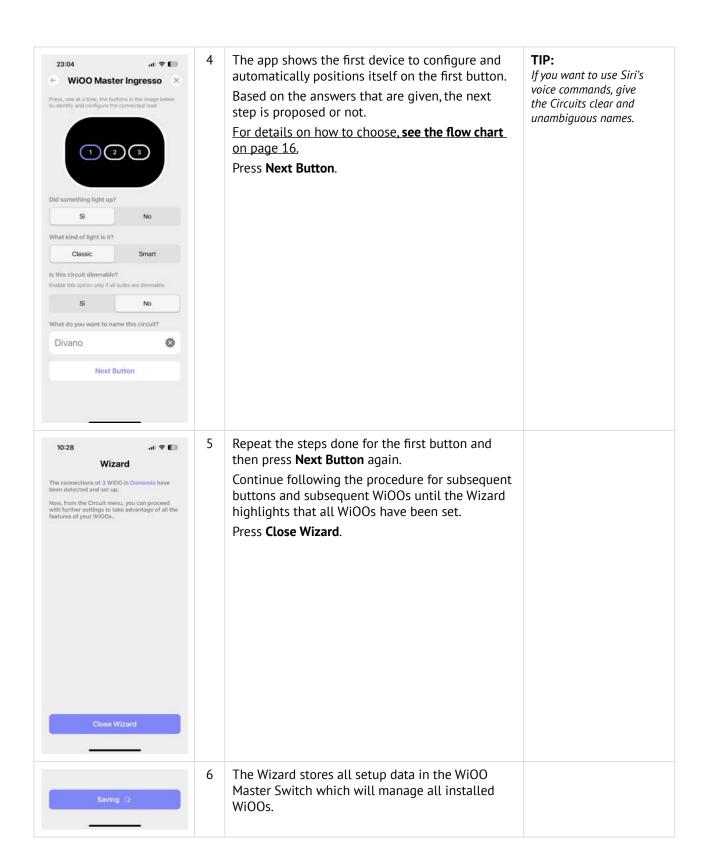
To modify the room, press on the name of the proposed room and choose from the list of rooms available in the home.



Click Continue.

TIP:

If a room is not available, leave the **Default** one and, after the Wizard, enter the Apple Home app to create all the necessary rooms. You will correct the room assignment later in the **Device** menu.



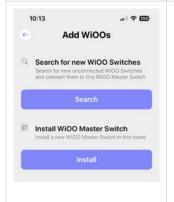


The app automatically switches to the **Device** menu which presents all the devices correctly placed in their respective rooms.



At this point in the configuration procedure, the WiOO App checks the WiOO Master Switch firmware update.

Follow the guided steps and for more details go to page 27.

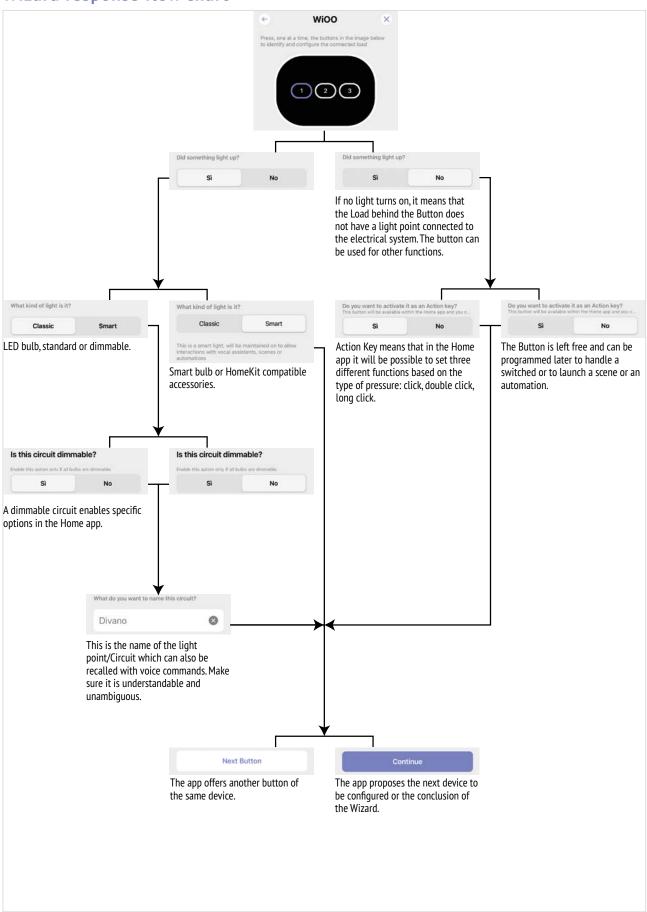


If, as explained on page 11 (point 1), more than 11 WiOOs have been installed in the house, it will be necessary to proceed with the installation of an additional WiOO Master Switch.

Re-perform the steps illustrated on page 8: "Adding WiOO Master Switch as a HomeKit accessory".



Wizard response flow chart



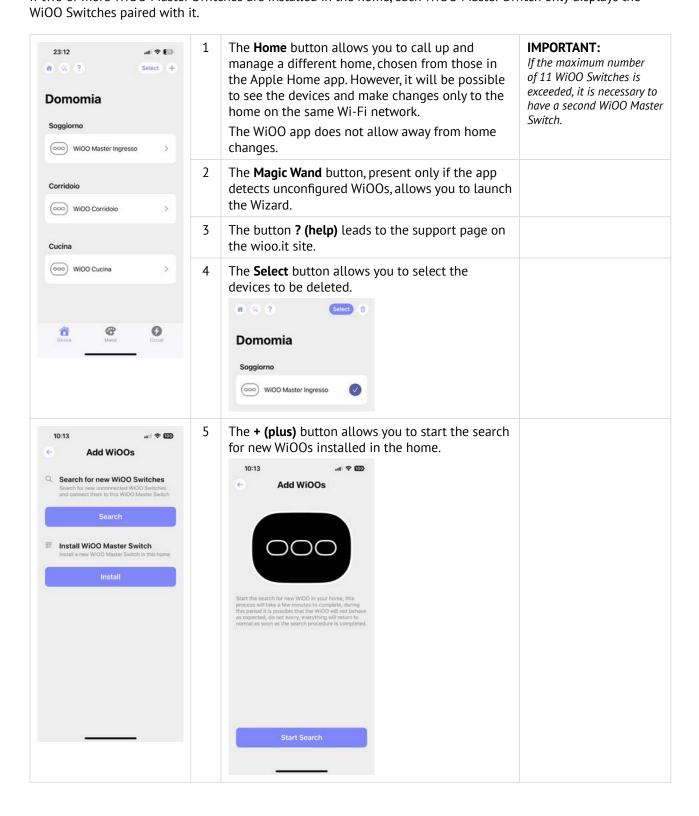
Refine the "virtual" electrical system with the app menus

To create the "virtual" electrical system without using the Wizard or for further settings, use the three menus of the WiOO app: Device, Mood and Circuit.

Device

Devices lists all installed WiOOs, grouped by room, and allows you to make changes to individual WiOOs: change their name, assign them to a different room, or change the settings of the three Buttons.

If two or more WiOO Master Switches are installed in the home, each WiOO Master Switch only displays the





The **+ (plus)** button also allows you to add a new WiOO Master to the home.

If there are two or more WiOO Master Switches in the home, the Devices menu options also show which Master you are working on and only the WiOO Switches paired with it will be listed.



To change the WiOO Master and view other WiOO Switches, press the name button and choose the desired WiOO Master.



6 To make changes to a WiOO, click directly on the

For details on the available options, **see the details** on the next page.

IMPORTANT:

With the ability to connect up to 11 WiOO Switches for each WiOO Master Switch, you can manage even the most complex installations.

The "MultiMaster" feature allows you to expand the system to fit the size and needs of your home.

Editing options of a WiOO



Circuit

Circuit allows you to create, edit or delete Circuits. A Circuit is like a light point connected to a Button and/or manageable from the Apple Home app.



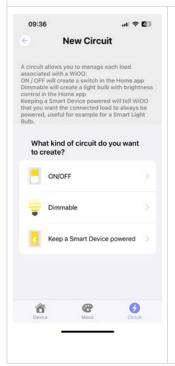
- 1 The **Magic Wand** button, present only if the app detects unconfigured WiOOs, allows you to launch the Wizard.
- The **Select** button allows you to select the circuits to be deleted.



- To make changes to a circuit, click directly on the name.
- 4 The **+ (plus)** button allows you to create a new circuit.

If all WiOOs have been set up through the Wizard, this function may not be needed. It will come in handy in case of modifications to the system or to create circuits to be managed in the Apple Home app.

Create a new Circuit

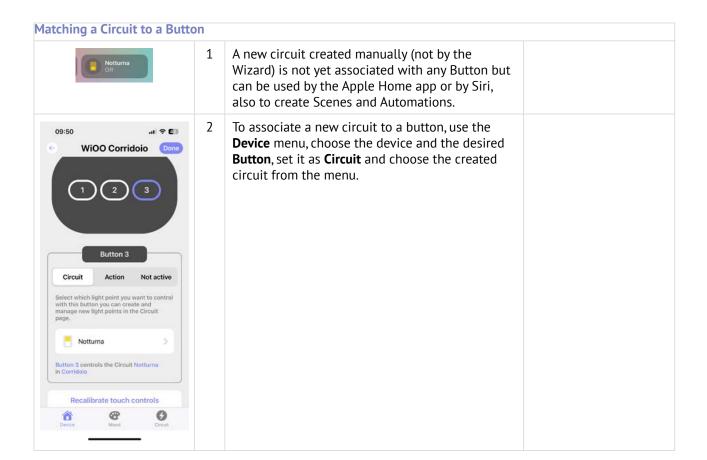


- Creating a circuit replicates the action of connecting a switch to electrical wires. The result will be a light point that can be managed by the connected button and/or by the Apple Home app with all the preferences set.
 - **ON/OFF** is the simplest circuit for turning a light bulb on or off.
 - **Dimmable** is a circuit that must be chosen only when dimmable bulbs are available and this choice enables the specific options in the Apple Home app.

With a dimmable circuit, the button on the WiOO can act in three ways:

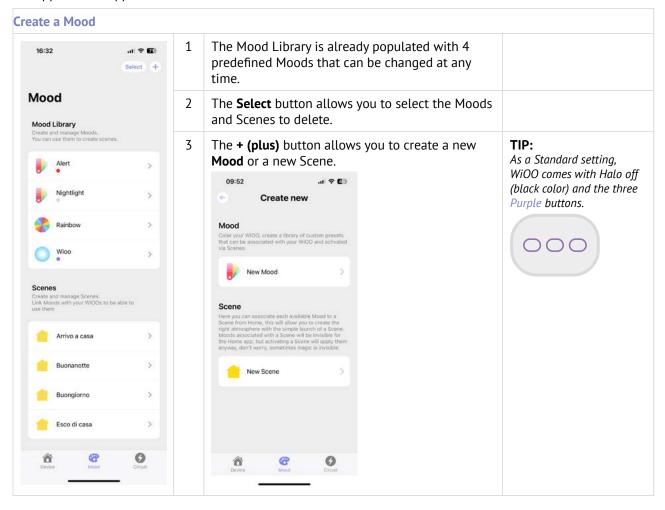
- <u>Single Click</u> turns the light on or off while keeping the last level of brightness
- <u>Double Click</u> brings the brightness level to the maximum





Mood

Mood allows you to assign the desired colors to the halo and buttons in order to create a library of customized settings. Moods can be applied to individual devices or can be combined with Scenes that can be recalled from the Apple Home app.





Give it a **name** then choose **Button** and press on **Button 1**, **Button 2** or **Button 3** to change the color from the palette.



TIP:

Black color means off.



Click on **Halo** and choose the segment to be colored: the entire frame or on individual portions divided diagonally, crosswise, vertically or horizontally ... each portion can have a different color or a different animation.

Click on the left icon to choose between **Static color** or one of the available animations: Blink, Wave, Runner, Rainbow, Rotating rainbow, Fade, Scanner, Fireworks, Fireflicker.



Based on the chosen animation, further settings will appear that allow you to customize the colors of the animations or establish their speed.

IMPORTANT:

Pay attention to the choice of animations in the presence of subjects suffering from photosensitive epilepsy.

TIP:

To decide which one is your favorite, you need to play with the app and try them all.

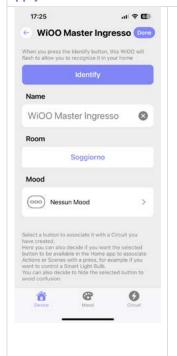


Once the changes have been made, a small icon, to the left of the large central WiOO preview, allows you to choose whether to display the rendering of the Mood on the WiOO in the black or white version.

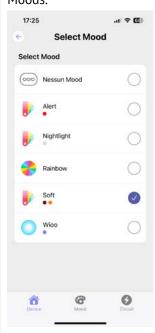


9 Click the **Done** button at the top right to confirm all changes made and return to the previous screen.

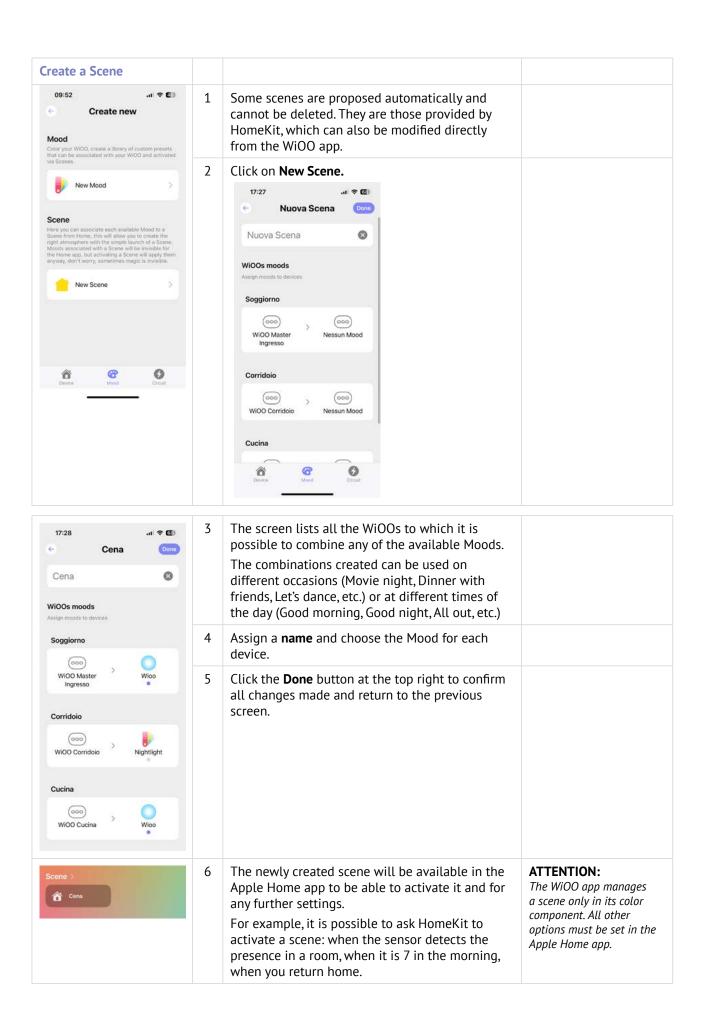
Apply a Mood to a device



To match a new Mood to a WiOO, use the **Device** menu, choose the desired device and use the Mood menu to choose from the list of available Moods.



2 Click the **Done** button at the top right to confirm all changes made and return to the previous screen.



Firmware Update



Each time it is launched, the WiOO app checks for a possible firmware update recommended for the WiOO models installed.

If so, the update can be performed immediately or postponed.

Click **Update.**



When the update starts, the WiOO Master Switch takes control and automatically updates all the WiOO Switches first, then updates itself.
The yellow line that rotates on the halo indicates that the firmware update is in progress and, for the necessary time, the WiOOs cannot be used.
The individual devices also show on the halo the progress of the procedure.



The Green halo indicates that the procedure was successful, while the Red halo indicates that the update procedure has failed.



Click on Back to Home.

The color messages of the Halo

COLORS	WIOO	WHEN	WHAT'S UP	WHAT TO DO
Purple Comet	Master Switch	At First On or after RESET	It remains in this state for 15 minutes waiting to be paired with an iOS device (with HomeKit code).	Start the WiOO app.
Purple Comet below	Master Switch	After WIFI Update	RIt remains in this state for 15 minutes waiting to be paired with an iOS device (with HomeKit code).	Start the Apple Home app, enter the device settings and update the WiFi connection
White Comet	Switch	At First On or after RESET	It remains in this state until it is paired via the Master Switch	Run "Search and pair new WiOOs", from the WiOO app or the System menu
Buttons 1+2+3 Purple	Master Switch & Switch	Standard setting after configuration	It remains in this state until a custom setting is assigned (a Scene with a personal Mood created with the WiOO app)	Customize Mood and Scenes in the WiOO app
Red Comet	Master Switch	Pairing to WiFi not completed (15 minutes of inactivity or the procedure has been interrupted)	It remains in this state until reboot	Execute "Reboot" from the System menu
Red Comet below	Master Switch	No WiFi connection (no signal or incorrect credentials))	It remains in this state until the problem is resolved	Check Internet connection and router functionality
Red Comet above	Switch	No connection to the Master Switch	It remains in this state until automatic reconnection to the Master Switch.	Execute "Reboot" from the System menu. If the problem arose after the RESET of the Master Switch, it is necessary to RESET all the Switches
Green	Master Switch & Switch	Firmware update (OTA) completed successfully	It remains in this state for only a few seconds before restarting and returning to the standard or customized setting	//
Red	Master Switch & Switch	Firmware update (OTA) failed	WiOO restarts automatically and returns to the standard or customized setting with the previous firmware version	At the next restart, the WiOO app will notify you again of the available update

White and active buttons White	Master Switch & Switch	Manual mode	Allows manual control of individual loads. Touching the individual buttons turns on / off the corresponding load, where connected	To start it, touch all 3 buttons simultaneously for more than 1 second To return to normal operation, touch all 3 buttons again for more than 1 second
--------------------------------	---------------------------------	-------------	---	---

Commands from the System Menu

Menu

COLORS	WIOO	ACTION	HOW TO DO	ATTENTION
Light Blue Comet	Master Switch & Switch	Enter / Exit the "System" menu	To enter the System menu: touch the 3 buttons simultaneously until comet Azzurro appears To exit the system, press the 3 buttons again until returning to the standard or customized setting	Putting a WiOO Switch in System mode is also useful to exclude it from pairing with a WiOO Master Switch.

Submenu

COLORS	WIOO	ACTION	HOW TO DO	ATTENTION
Light Blue Comet	Master Switch & Switch	Reset	After entering the "System" menu, touch the 1 (left) button until it restarts After the automatic reboot, WiOO will present itself as at First On. All customized settings have been cleared. After the Reset, also delete the devices from the Apple Home app.	The Reset procedure on the Master Switch also eliminates the connection network with the WiOO Switches and it will be necessary to reset all devices.
Light Blue Comet	Master Switch & Switch	Reboot	After entering the "System" menu, touch the 2 (central) button until it restarts After the automatic reboot, WiOO will present itself with the standard or custom setting.	The reboot procedure is also obtained by removing the front plate of the WiOO and pressing the black button located at the top center. Once pressed, reapply the plaque and perform the Touch buttons calibration shown below.
Light Blue Comet	Master Switch	WiFi Update (required if the WiFi password is changed)	After entering the "System" menu, touch the 3 (right) button until it restarts After the automatic reboot, WiOO will present itself as at First On.	The customized settings have NOT been deleted. Start the Apple Home app, enter the device settings and update the WiFi connection.

Commands from the WiOO App

COLORS	WIOO	ACTION	HOW TO DO	ATTENTION
Yellow Comet completing itself	Master Switch & Switch	Firmware update (OTA)	The firmware update starts every time the app detects the availability of a new release. Confirm with the Update button	During the update, the 3 buttons are disabled to inhibit the use of WiOOs
			Each WiOO carries out the procedure independently and remains in this state for only a few seconds before communicating the outcome of the update. Green successful, Red failed	
Pink Comet completing itself	Master Switch & Switch	Touch buttons calibration	The calibration of the three Touch buttons is recommended when, for any reason, the front plate of a WiOO has been removed and replaced	Calibration takes a few moments
			Press the Calibrate button available in the Device menu, within each device, at the bottom of the page	
Orange Comet and White Flash for each new	Master Switch &	Search and pair new WiOOs	The procedure starts by choosing "+" (Add WiOO) in the Home menu of the WiOO app	
device found	Switch		Once completed, the new WiOOs will present themselves with the standard setting	
Purple Blink	Master Switch	HomeKit Identify	The button is available after adding the accessory with the HomeKit code, in the room assignment window	It remains in this state for 5 seconds
Purple and active buttons Purple	Master Switch & Switch	Preview Circuit	The button is available in the create or modify a circuit page	It remains in this state for 5 seconds



WiDesign srl Via Teodosio, 44 - 20131 Milano - Italia P.Iva e C.Fiscale: 10884870964

© WiDesign srl 2024. All rights reserved. Reproduction prohibited.

Apple, Apple TV, HomeKit, HomePod, iPad, iPhone, iPod and Siri are trademarks of Apple Inc. registered in the U.S. and other countries.