

DMX interface

D1024W



Table of contents

Casing.....	3
Front panel.....	3
Rear panel.....	3
WIFI using.....	4
First using.....	4
AP (Access Point) mode.....	4
ST (Station) mode.....	4
Connection with our software TheLightingController V9.....	5
Via USB.....	5
Via WIFI.....	5
Connection with our software TheLightingController V_II.....	6
Via USB.....	6
Via WIFI.....	6
The application "TheLightingController_D1024W".....	7
The "3dots" menu.....	7
Interface detection.....	8
Standalone lightshow management (not available in USA).....	11
WIFI settings.....	13
Access Point mode.....	15
Station mode.....	16
Third-party application to trigger the standalone scenes (not available in USA).....	19
Connection.....	19
Driving the buttons.....	19
WIFI hardware reset.....	20
To know.....	20



[version Française](#)

Casing

Front panel

WIFI antenna

Must be installed for a correct wifi communication.

WIFI LED

In "AP" mode, "on" when a device is connected to the wifi network of the interface.

In "ST" mode, "on" when the interface is connected to an existing wifi network.

Blinks when our software is driving the interface via wifi.

USB LED

Blinks when our software is driving the interface via USB.

PWR (power) LED

"on" when the interface is powered.

USB socket

Always necessary to power the interface.

Necessary for a USB communication with our software.

Switch "AP / ST"

- "AP" (Access Point)

The interface generates its own wifi network.

The device running our software has to connect to this wifi network.

- "ST" (Station)

The interface connects to an existing wifi network.

The device running our software has to connect to the same wifi network.

(see below in this manual)

Button "IP RESET"

After holding this button pressed during 10 seconds, the LEDs "WIFI" and "USB" blinks fast during 3 seconds, and the "AP" mode parameters are reset to :

- SSID = D1024W

- password = 00000000

Rear panel

DMX socket #1

DMX channels of the first univers.

DMX socket #2

DMX channels of the second univers.

Specifications for each pin of each DMX socket:

- ±60V overvoltage fault protection

- ±40kV HBM and Level 4 IEC ESD protection

- ±25V input common mode range

WIFI using

First using

The first WIFI using has to be done with the switch of our DMX interface set to "AP" mode. By default (or after a hardware reset with the "RESET" button), in "AP" mode (with the switch set to "AP"), our interface generates the following WIFI network:

- SSID = D1024W
- password = 00000000

Then you can straight drive our DMX interface (in "AP" mode) with our software (see below in this manual), or you can change its WIFI parameters via our Android / iOS companion app "TheLightingController_D1024W" (see below in this manual).

AP (Access Point) mode

The switch "AP / ST" is set to "AP".

The WIFI network is generated by our DMX interface

- connect your platform (computer or mobile device) to the WIFI network "D1024W" of our DMX interface
- run our software (TheLightingController V9 or V_II) on your platform
- execute the "autodetect interface" function in our software (see below in this manual)

And our software will find our DMX interface.

You will have to restart our software to drive our interface.

ST (Station) mode

The switch "AP / ST" is set to "ST".

To make our DMX interface and your platform to communicate via a local WIFI network, you have to enter the SSID & password of the local WIFI network in the "ST mode" (Station mode) parameters of our DMX interface. To do that, you have to use our application "TheLightingController_D1024W" (see below in the manual).

Then our software will be able to find our DMX interface after using the "autodetect interface" function.

Connection with our software TheLightingController V9

Via USB

Windows – install the [USB driver](#) and run the software.

MacOS – just run the software.

The welcome screen will show "Interface D1024W USB found".

Via WIFI

Ensure the computer / mobile device which is running our software is connected to the same WIFI network as the interface.

Open the window "Preferences > Hardware".

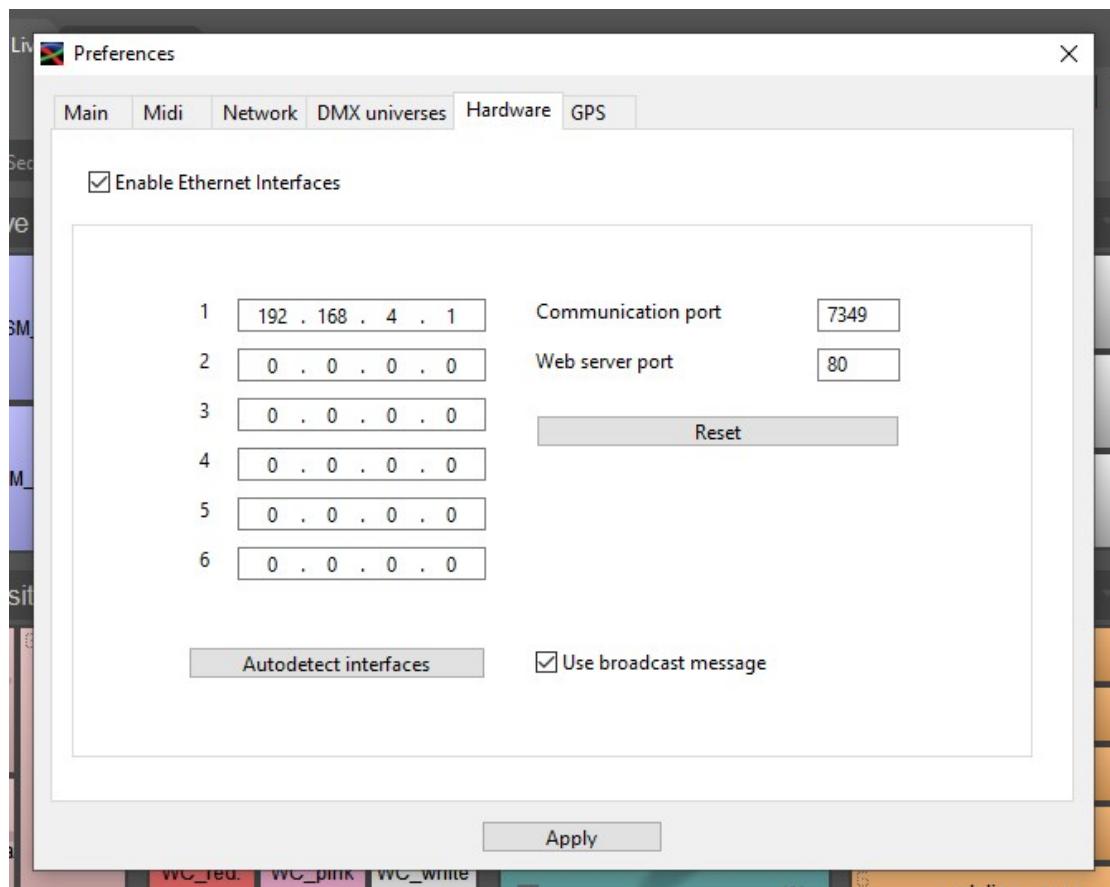
Check the option "Enable Ethernet interfaces".

Press the button "Autodetect interfaces". Our software is supposed to show the IP of the interface.

If the auto-detection fails, enter manually the IP of the interface which is "192.168.4.1" in "AP mode".

Do not change the communication port of the interface when not necessary.

Leave the "Web server port" to 80 (this port is not used with the DMX interface D1024W).



Press the button "Apply".

Restart the software.

The welcome screen will show "Interface D1024W WIFI found".

Connection with our software TheLightingController V_II

Via USB

Windows – install the [USB driver](#) and run the software.

MacOS – just run the software.

Linux – copy the file "60-thelightningcontroller.rules" in the folder: "/etc/udev/rules.d" (see the readme file in the Linux software package)

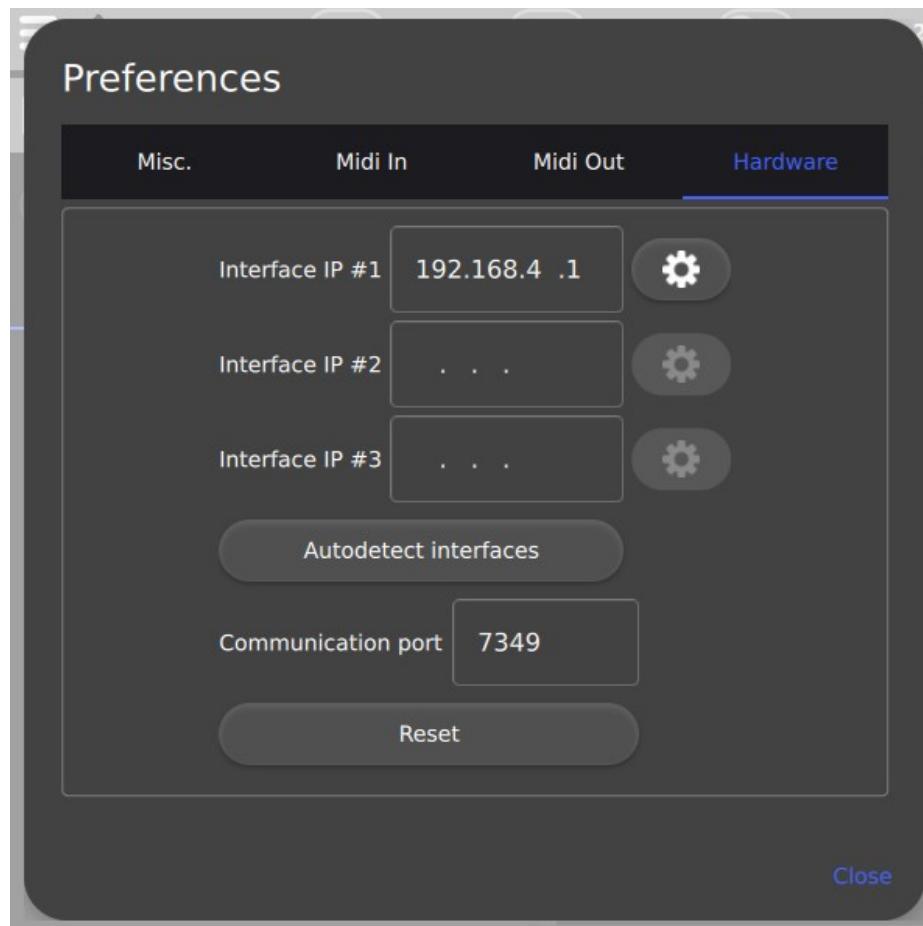
The welcome screen will show "*Interface D1024W USB found*".

Via WIFI

Ensure the computer / mobile device which is running our software is connected to the same WIFI network as the interface.

Open the window "Preferences > Hardware".

Press the button "Autodetect interfaces". Our software is supposed to show the IP of the interface. If the auto-detection fails, enter manually the IP of the interface which is "192.168.4.1" in "AP mode". Do not change the communication port of the interface when not necessary.



Press the button "Close".

Restart the software.

The welcome screen will show "*Interface D1024W WIFI found*".

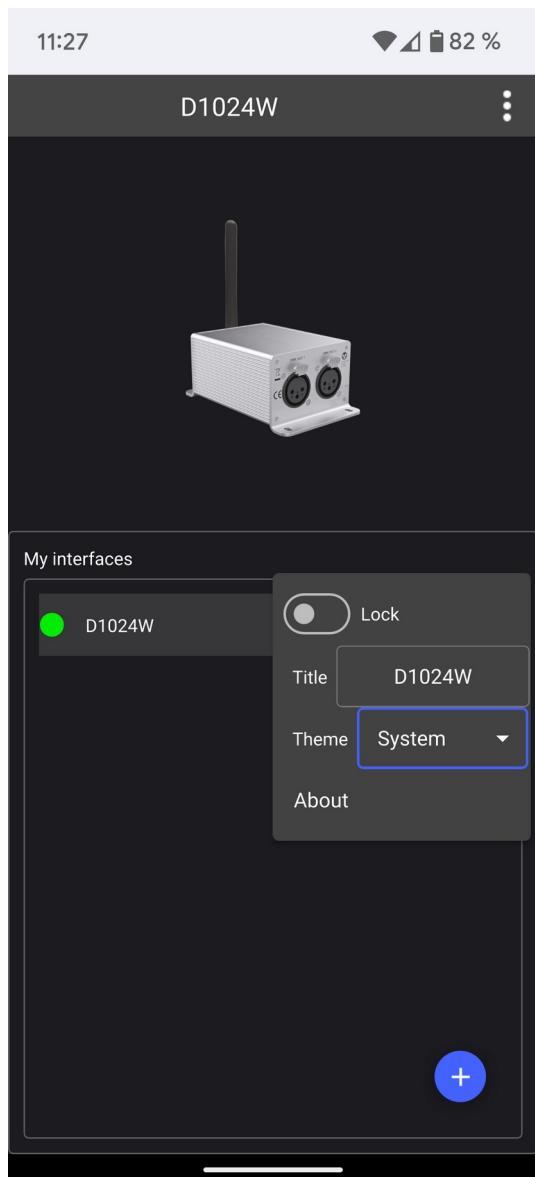
The application "TheLightingController_D1024W"

The application for **Android** is available here: <https://play.google.com/store/apps/details?id=com.easydigitalconcept.TheLightingController>

The application for **iOS** is available here:
<https://apps.apple.com/us/app/thelightningcontroller/id6554000067>

The "3dots" menu

Press the button with 3 dots to get the below menu.



Menu "Lock"

When on, it is not possible to add / remove an interface and it is not possible to change the parameters of the interfaces.

Menu "Theme"

To select the theme "dark", "light" or th mirror the theme of the system.

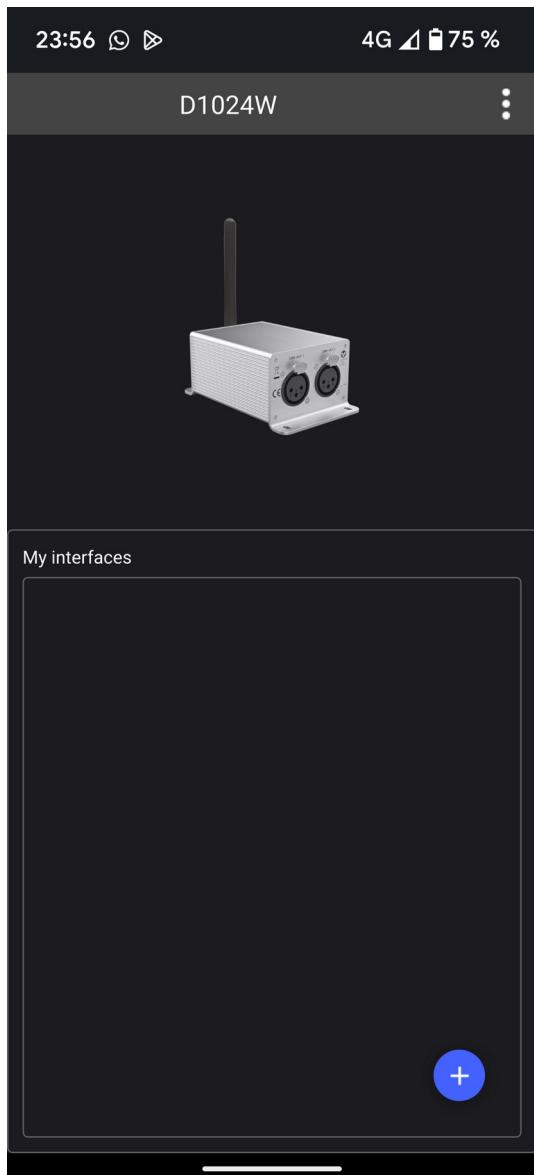
Menu "About"

Show the informations of the version of the app.

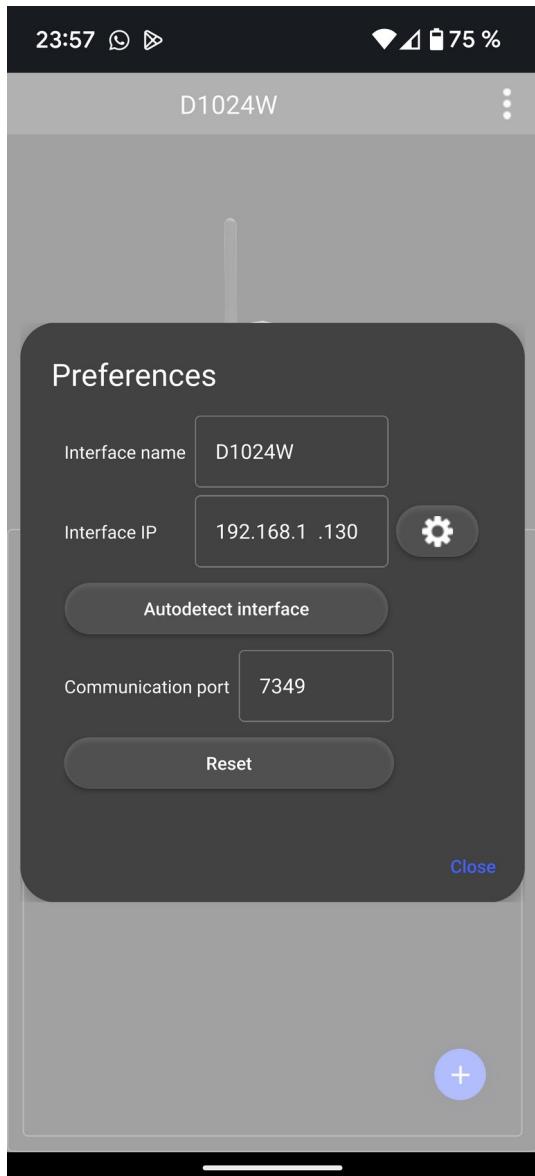
Interface detection

Ensure the mobile device which is running our application is connected to the same WIFI network as the interface.

Press the button "+" to déclare one interface.



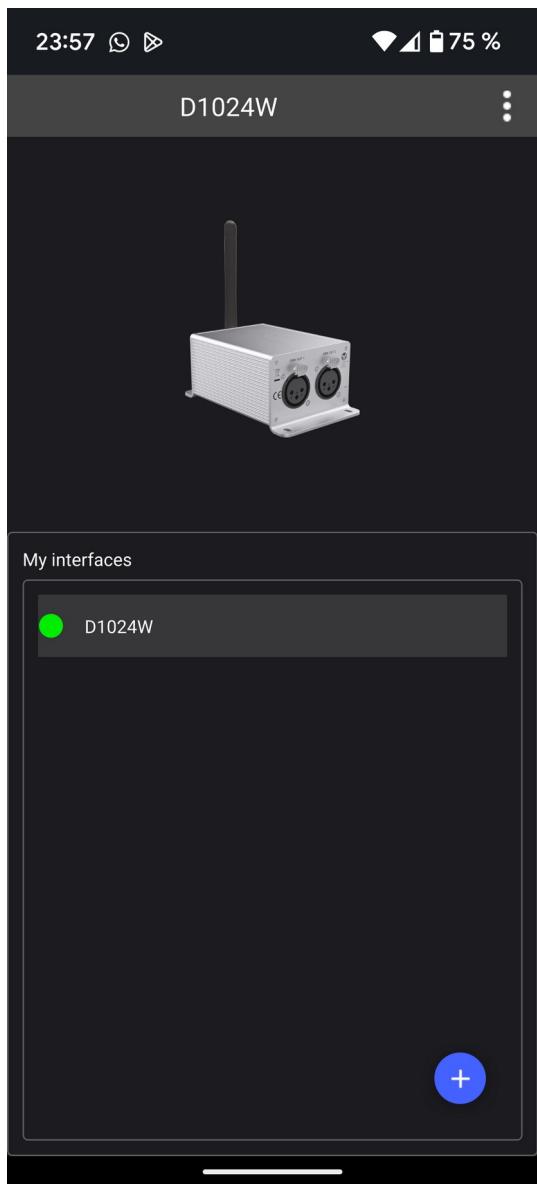
Press "Autodetect interface" or enter the IP of the interface, and press the button "Close".
Change the "Communication port" only when necessary.



This screenshot shows the SSID and IP of our DMX interface in AP mode.

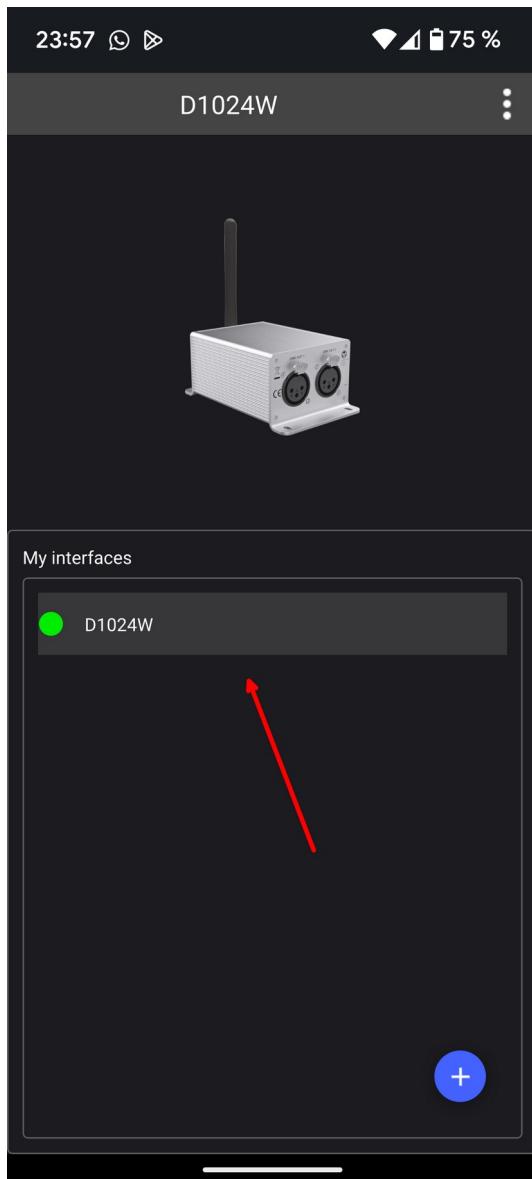
Press the button "Close".

The green light says the application well found the interface.



Standalone lightshow management (not available in USA)

Make a short press over the line with the name of the interface.



If you have previously uploaded some scenes in the standalone memory of the interface, you will see a page with buttons to trigger the standalone scenes.

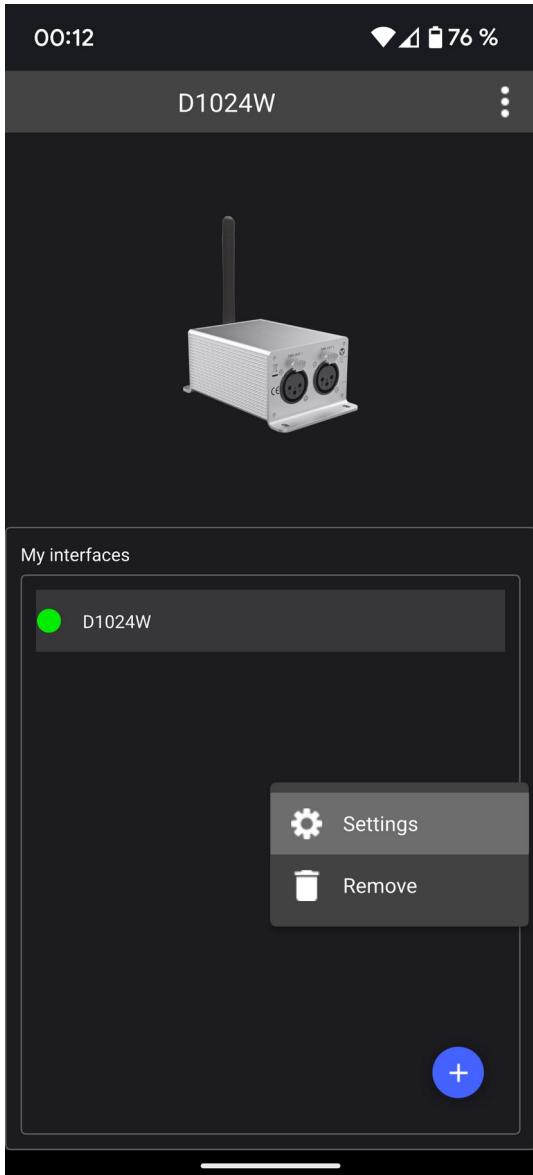
This page will be empty when no scenes have been uploaded.



Press the "left arrow" at the top of the screen to return to the previous page.

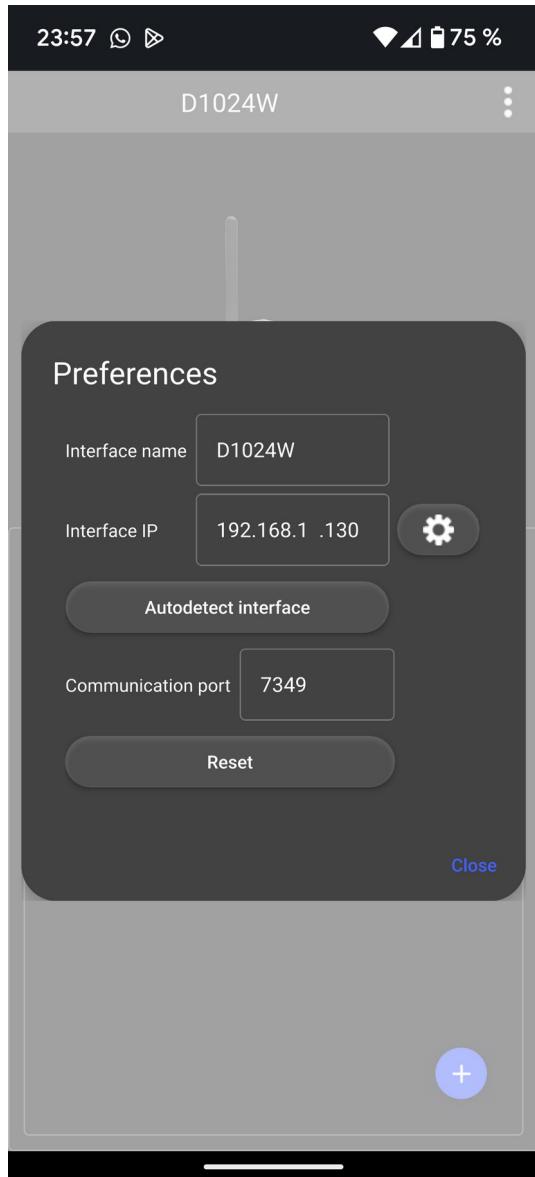
WIFI settings

To change the WIFI parameters, make a long press over the line with the name of the interface and select the menu "Settings".



If you select "Remove", a message requester will ask you to confirm you would like to remove the interface from the list.

It is possible to change the name of the interface.
Do not change the IP / port when not necessary.
Press the button "Gear wheel" to change the WIFI AP & ST parameters.

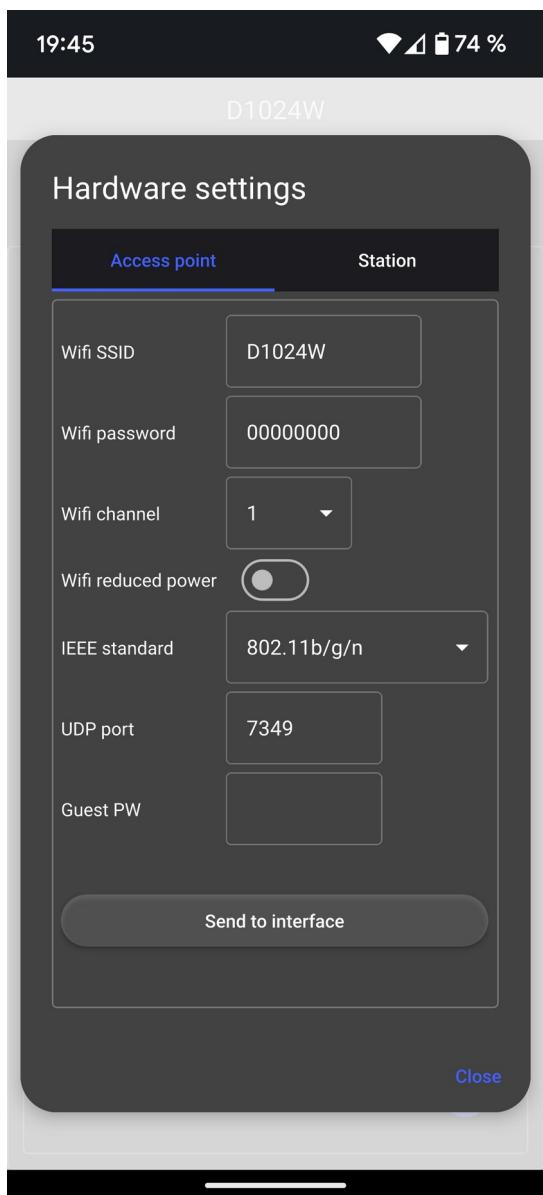


Access Point mode

It is possible to change here the parameters of the "Access Point" WIFI network of the interface:

- WIFI SSID name of the WIFI network
- WIFI password password of the WIFI network
- WIFI channel WIFI channel
- WIFI reduced power power of the signal
- IEE standard IEE standard (use "b/g/n" by default)
- UDP port communication port (do not change when not necessary)
- Guest PW password for a third-party application to trigger the standalone scenes
- Send to interface send the new parameter to the interface memory

Then you will have to powercycle the interface or move the "AP / ST" switch to apply the changes.

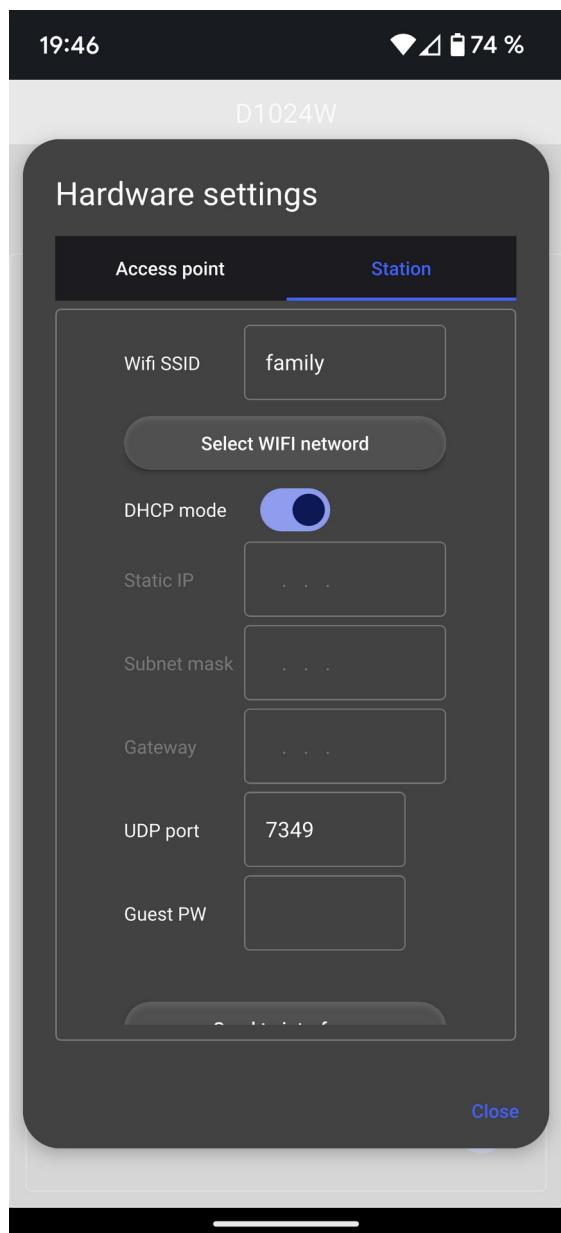


Station mode

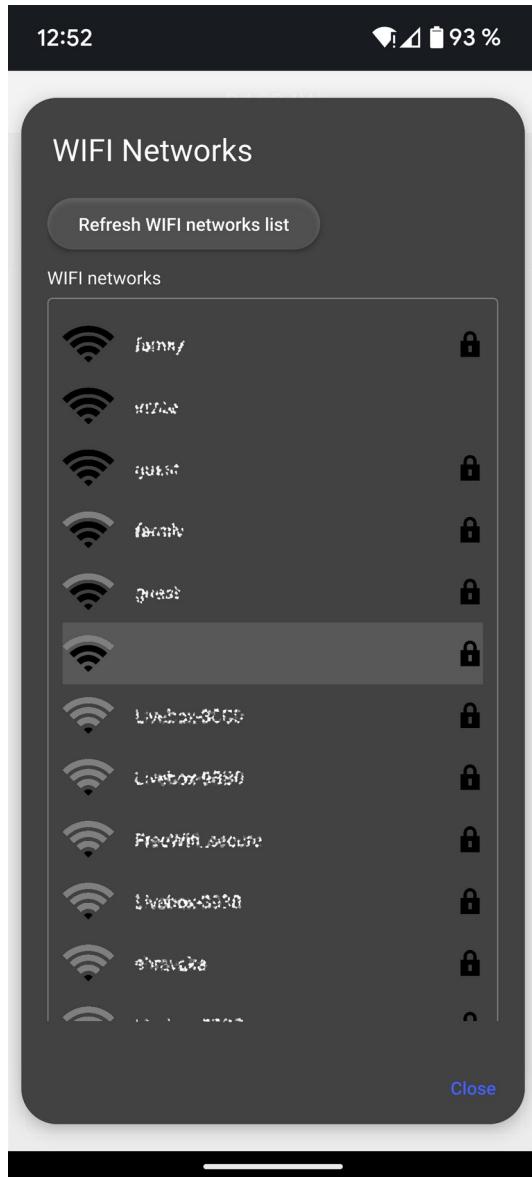
It is possible to change here the parameters of the "Station" WIFI network of the interface:

- Select WIFI network open a list of the existing wifi networks to select one
- DHCP mode switch on / off the DHCP mode
- Static IP static IP when not in DHCP mode
- Subnet mask subnet mask when not in DHCP mode
- Gateway gateway IP when not in DHCP mode
- UDP port communication port (do not change when not necessary)
- Guest PW password for a third-party application to trigger the standalone scenes
- Send to interface send the news parameter to the interface memory

Then you will have to powercycle the interface or move the "AP / ST" switch to apply the changes.



The button "Select WIFI network" opens this window to select the local wifi network.



Press the button "Refresh WiFi networks list" when necessary (in case of a new WiFi network).
Select the WiFi network.

Press the button "Close".

Then the entry box "Wifi SSID" will show the selected WiFi network.
It is also possible to manually enter the SSID (name) of the WiFi network.

Remark

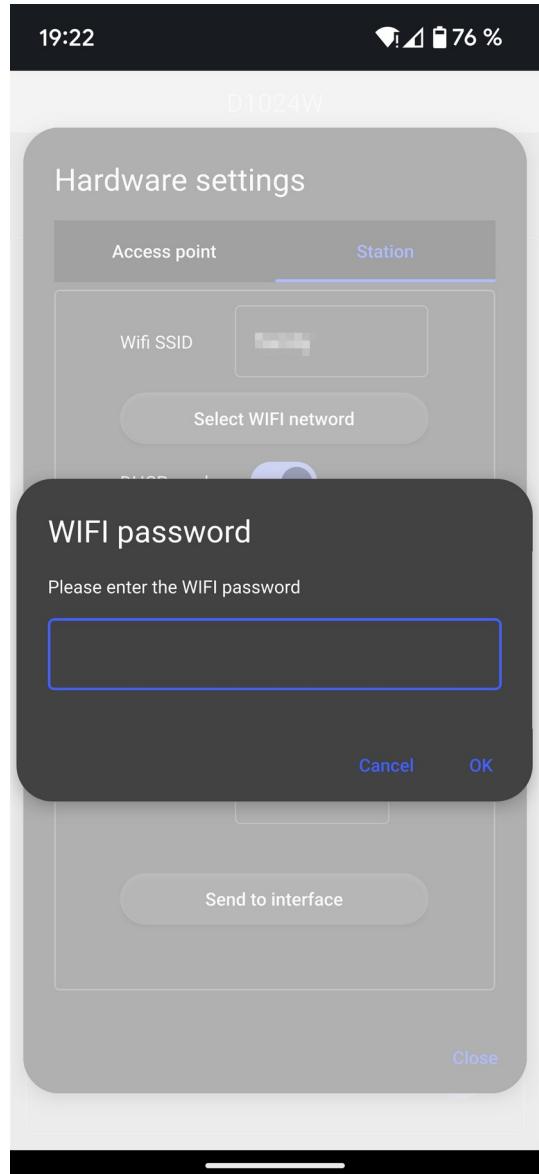
The app does not check the entered password is correct.

Why ? because if it does that in AP mode, it will stop generating its AP mode WiFi network during the password check process, and in the meantime the platform will connect to another memorized WiFi local network.

Press the button "Send to interface".

This will open the "WIFI password" requester.

Enter the password of the selected local wifi network and press the button "OK".



Third-party application to trigger the standalone scenes (not available in USA)

First of all, you have to define a password in the field "Guest PW" in our application. Then you have to do this to connect the third-party application with the interface D1024W.

Connection

The communication with the interface D1024W has to be established in UDP on the port 7349 by default. The IP address, the communication port and an access password have to be configurable in the third-party application.

Just after connecting, the third-party application must send the message "**0|GUEST|{guest_password}|**" to the interface.

- "{guest_password}" is the guest access password previously defined in our application (max 14 characters).

The interface returns "**GUEST|4|{x}|**".

- "4" is the product ID (D1024W) ; it is always "4".
- "{x}" is not used

Driving the buttons

The third-party application sends "**10|{button_number}|**" to change the state of a button of the interface D1024W.

- {button_number} is the number of the button ; from 1 to 16.

The interface returns "**10|abcdefghijklmnp|**"

- "a" is the state of the button #1 ; 0 = off ; 1 = on
- "b" is the state of the button #2 ; 0 = off ; 1 = on
...
- "p" is the state of the button #16 ; 0 = off ; 1 = on

The third-party application can send "13|" at anytime to request the buttons state.

WIFI hardware reset

You may need this function when for instance our software / app is not able anymore to detect our interface in WIFI mode. When this happen, you have to reset the WIFI parameters of our interface:

- set the switch of our DMX interface to "AP" (Access Point).
- hold the button "RESET" (> 10 seconds) of our DMX interface pressed until the two LEDs "WIFI" and "USB" flash quickly.
- connect the computer / mobile device which runs our application "D1024W" or our software V9 / V_II to the WIFI network generated by our DMX interface in AP mode: SSID = D1024W ; password = 00000000
- try again the chapter "*Connection with our software TheLightingController V9 / V_II > Via WIFI*"

Note: the "WIFI hardware RESET" does not affect anything in the USB mode.

To know

The WIFI chip of the interface gets off when the interface is communicating with our software via USB.

The Access Point WIFI network of the interface allows only one connected device at the same time.

When you change the AP or ST parameters while the interface is in the same mode (AP or ST), either the mode has to be changed (and changed back again) or the interface has to be switched off / on in order the new parameters are used,

When there are **more than one interface D1024W** to manage, you have to give them different SSID's (SSID = name of the WIFI network):

- switch on the first interface and switch off the others
- run the app "TheLightingController D1024W" and go the page "Access Point"
- **enter a unique name for the SSID**
- press the button "Send to interface"
- close the app
- switch on the second interface and leave the others off
- run the app "TheLightingController D1024W" and go the the Access Point page
- **enter a unique name for the SSID**
- press the button "Send to interface"
- do that for all interfaces

This process has to be done because WIFI does not allow multiple devices with same SSID.