

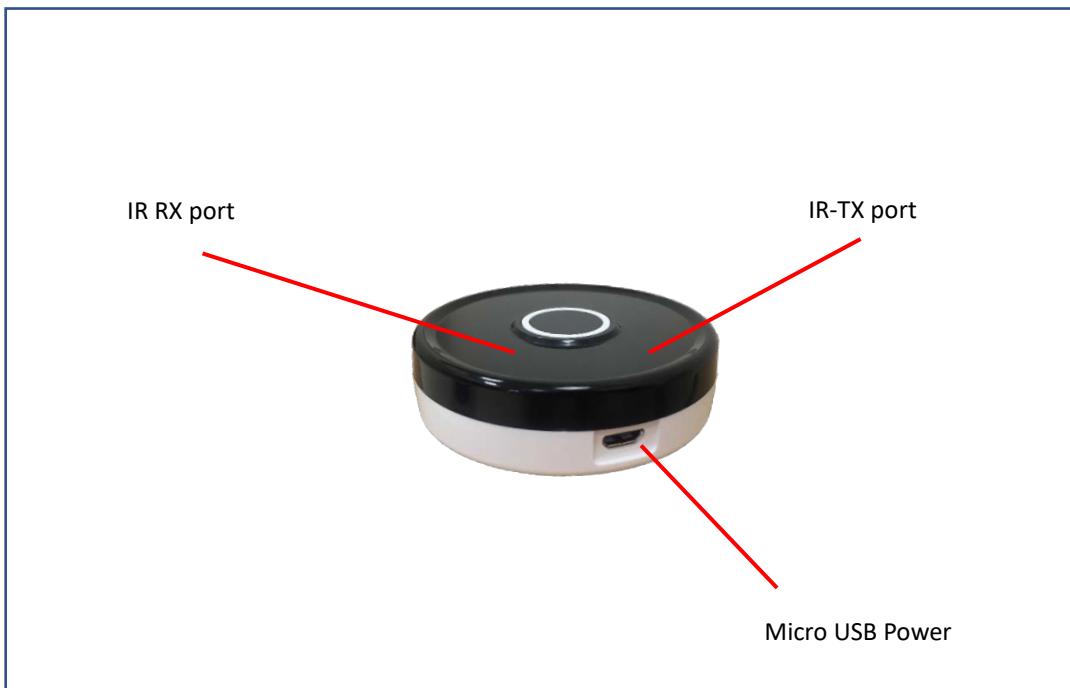
IR/2.4G RF Convertor

eLIFE WTR-100C
User Manual V1.0

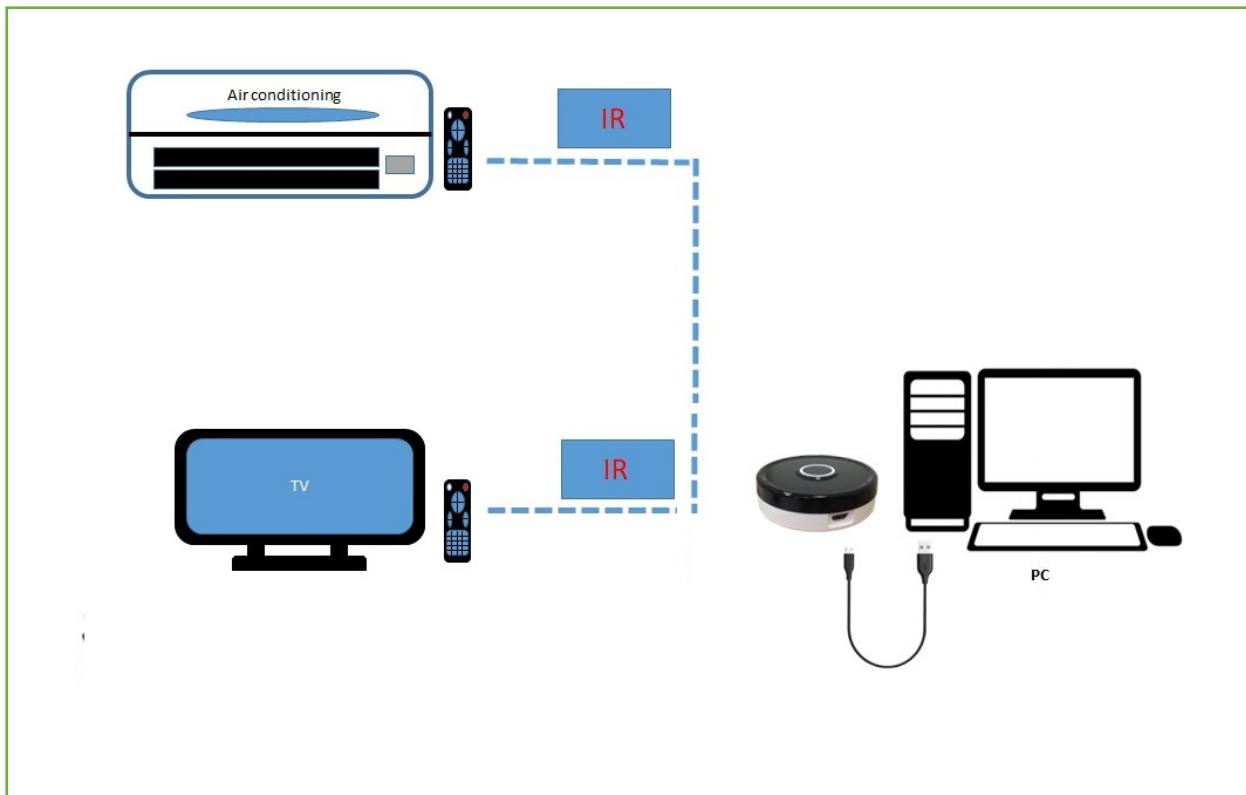
Product Introduction

WTR-100C is a plug-and-play smart converter , with the technology of wireless IR/WiFi 2.4G RF signal to control the IR and WiFi enable device

Product function description

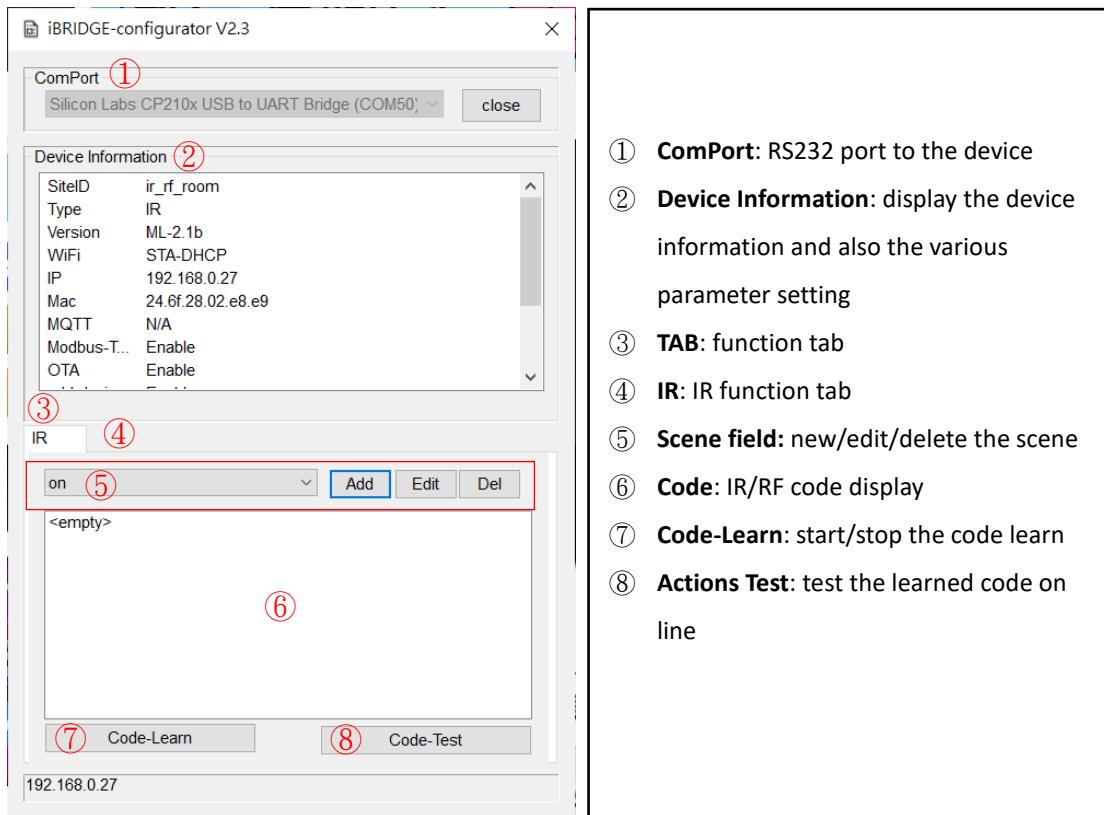


Application Diagram



iBRIDGE-configure:

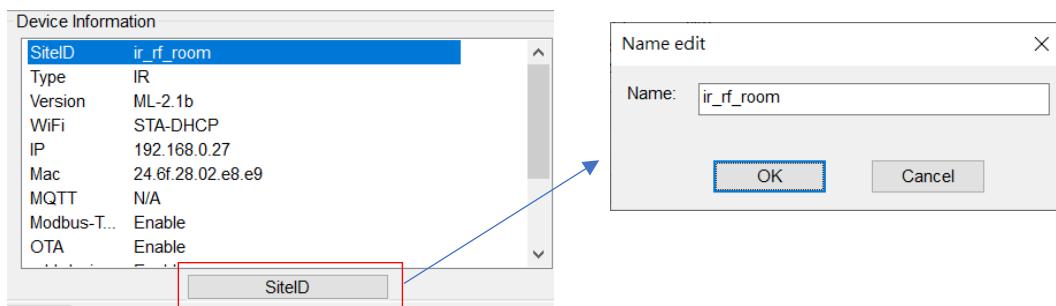
Main Configuration Menu



Device Information introduction:

1.) SiteID:

device name , user click **【SiteID】** button to pop up the name edit dialog



2.) Type:

device type

Device Information	
SiteID	ir_rf_room
Type	IR
Version	ML-2.1b
WiFi	STA-DHCP
IP	192.168.0.27
Mac	24:6f:28:02:e8:e9
MQTT	N/A
Modbus-T...	Enable
OTA	Enable

3.) Version:

display current FW version , click 【RESET】 button will pop up the RESETdiaplog

Device Information

SiteID	ir_rf_room
Type	IR
Version	ML-2.1b
WiFi	STA-DHCP
IP	192.168.0.27
Mac	24:6f:28:02:e8:e9
MQTT	N/A
Modbus-T...	Enable
OTA	Enable

RESET

eLIFE-configuration-v2.0b

This action will delete all the setting and back to DEFAULT, Are you sure to process?

OK Cancel

4.) Wi-Fi:

Current operation mode , click 【Network】 button will opo up the mode setting dialog

Device Information

SiteID	ir_rf_room
Type	IR
Version	ML-2.1b
WiFi	STA-DHCP
IP	192.168.0.27
Mac	24:6f:28:02:e8:e9
MQTT	N/A
Modbus-T...	Enable
OTA	Enable

Network

MESH Mode

Root Node Network ID: 123456

STA Mode

SSID: cloud-sq-24g

Password: 22181316

DHCP

Use the following IP address

IP address: 192.168.1.130

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1

OK Cancel

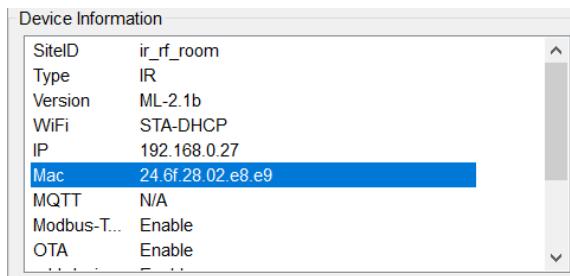
5.) IP:

Current IP address (this item only display on the STA Mode)

Device Information	
SiteID	ir_rf_room
Type	IR
Version	ML-2.1b
WiFi	STA-DHCP
IP	192.168.0.27
Mac	24:6f:28:02:e8:e9
MQTT	N/A
Modbus-T...	Enable
OTA	Enable

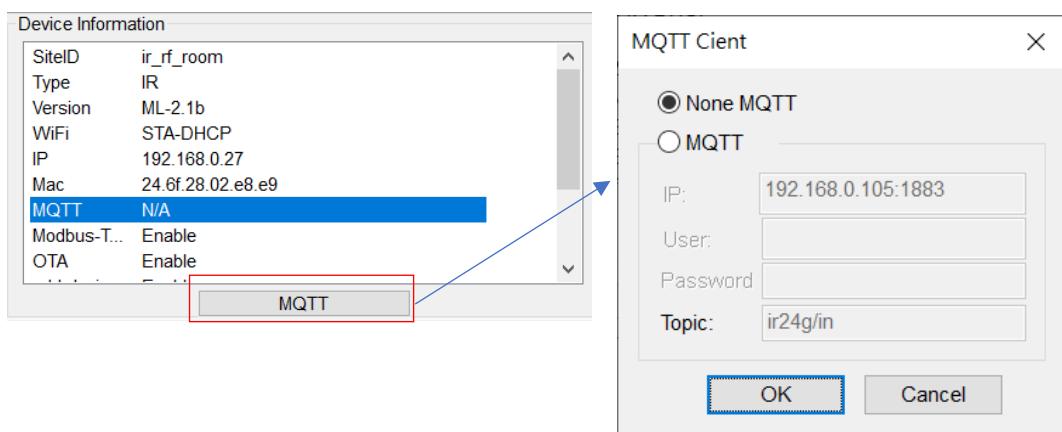
6.) Mac:

Current device MAC address (Physical Address)



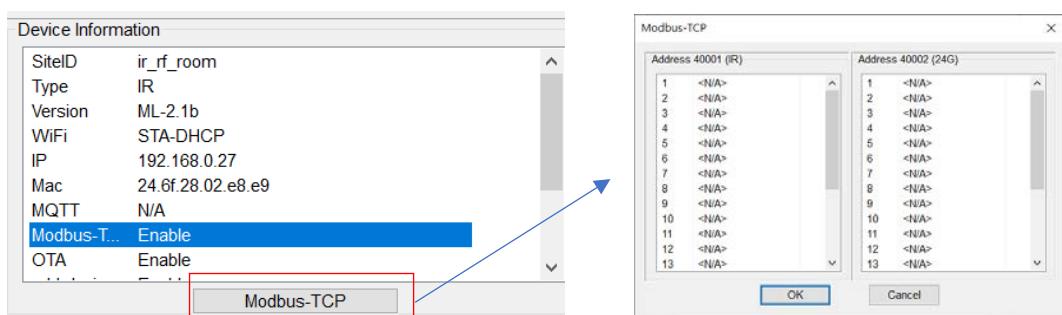
7.) MQTT:

Current MQTT Server IP setting information , click 【MQTT】 will pop up the parameters edit dialog for edit (only display on the STA Mode)



8.) Modbus-TCP:

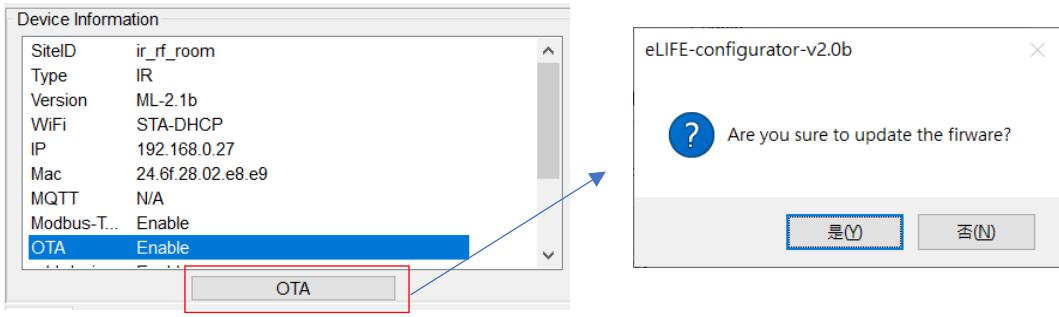
click 【Modbus-TCP】 button will pop up the setting dialog (only display on the STA Mode)



9.) OTA:

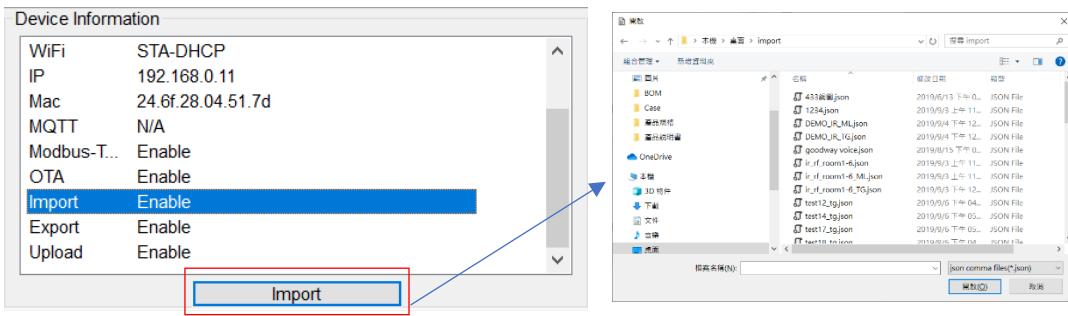
OTA update item, click 【OTA】 button will pop up the update confirm dialog (only display

on the STA Mode)



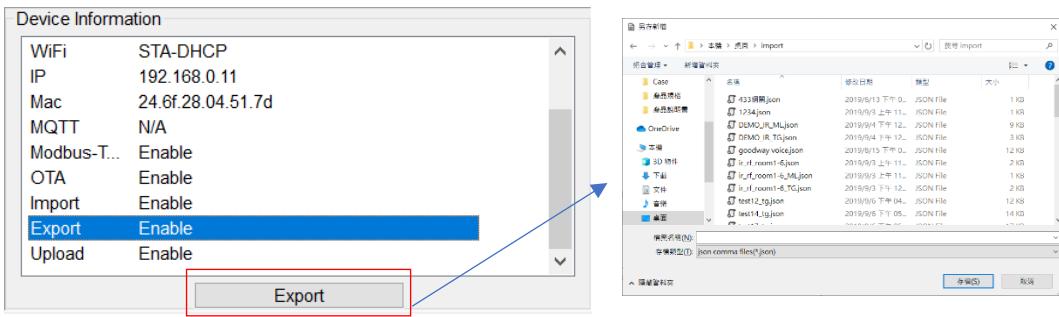
10.) Import:

Import configuration file from file , click 【Import】 button will display the import file selection dialog , user can select the desired file to import into the device



11.) Export:

Export configuration to file, click 【 Export】 button will display the export file directory dialog, user can select a file and save to file



12.) Upload:

Upload current setting parameters to the connected device

Device Information

WiFi	STA-DHCP
IP	192.168.0.11
Mac	24:6f:28:04:51:7d
MQTT	N/A
Modbus-T...	Enable
OTA	Enable
Import	Enable
Export	Enable
Upload	Enable

Upload

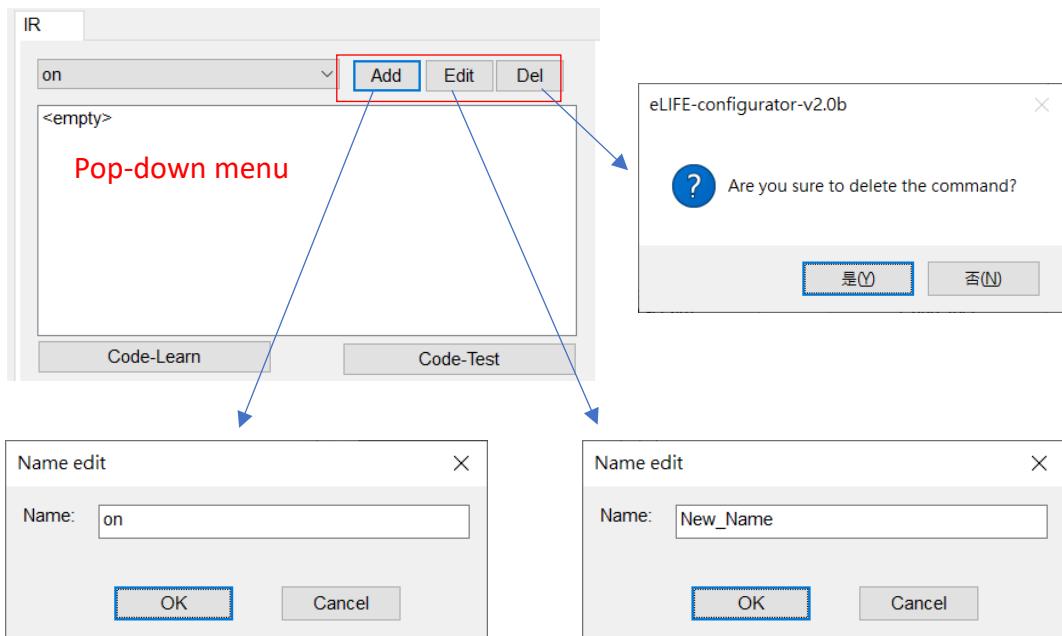
eLIFE-configuration-v2.0b X

i Device update success !!

確定

IR code edit and learning

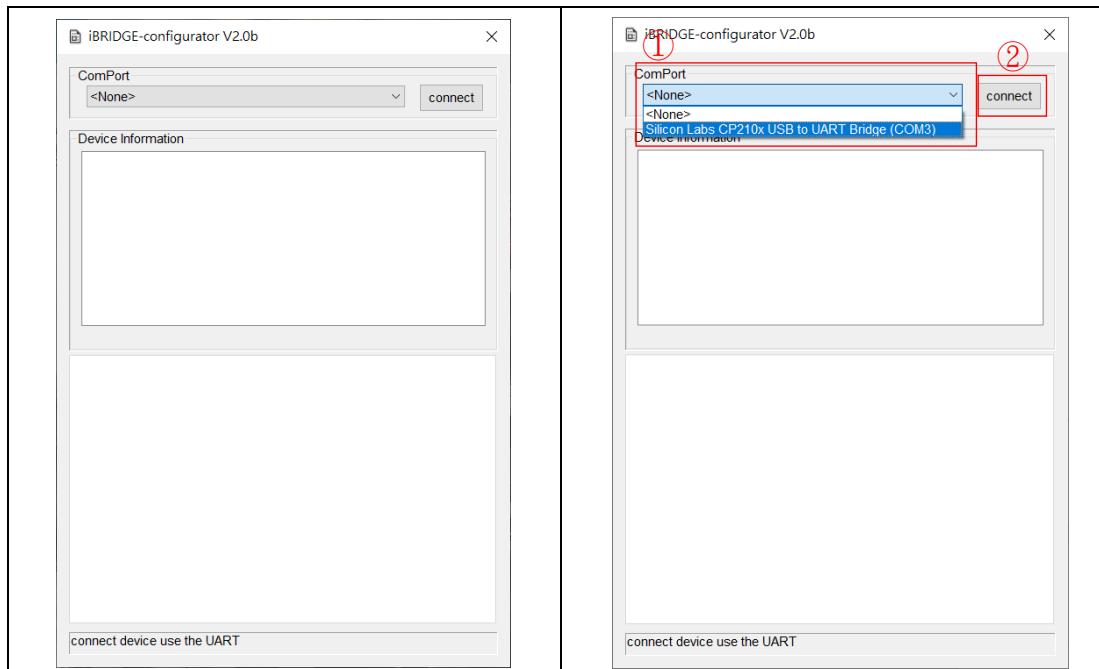
User can use the New 【Add】 /edit 【Edit】 /delete 【Del】 button to edit the IR device control scene



Operation Instruction

1. Mesh mode operation step by step

<p>STEP 1: connect 『WTR-100C』 to the PC or NB through the USB data transfer cable</p> 	<p>STEP 2: check the virtual serial driver COM port Number on the windows device manager</p> 
<p>STEP 3:  run iBRIDGE-configurator.exe , after start will display the dialog</p>	<p>STEP 4: Connect device to configuration ① select the device COM port Number ① click 【connect】</p>



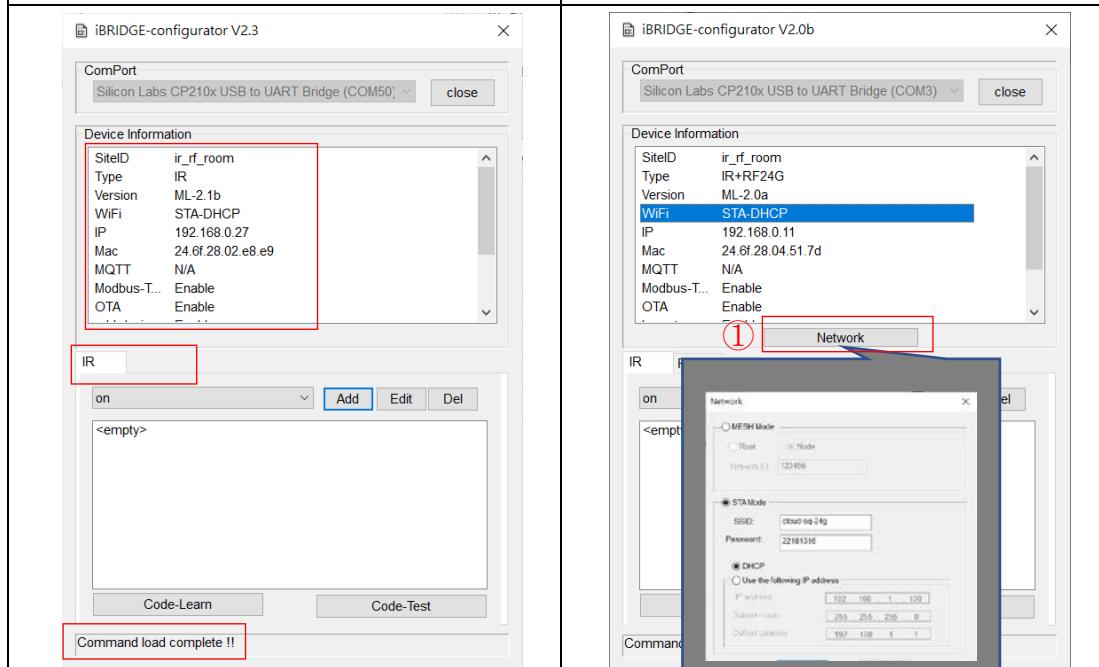
STEP 5:

If connect success, status field will display the **【Command load complete!!】** message

STEP 6:

Wi-Fi mode set

- ① click **【WIFI mode】** button



STEP 7:

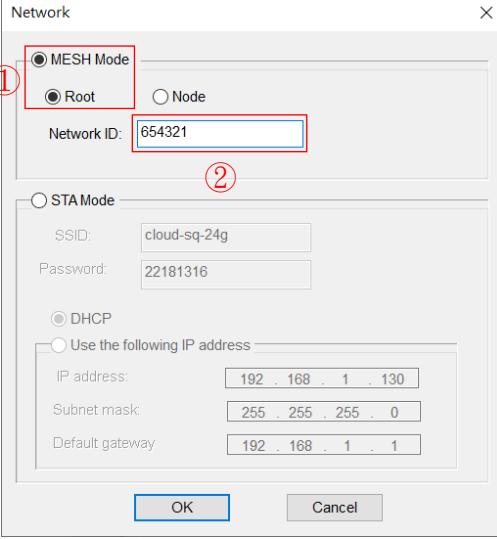
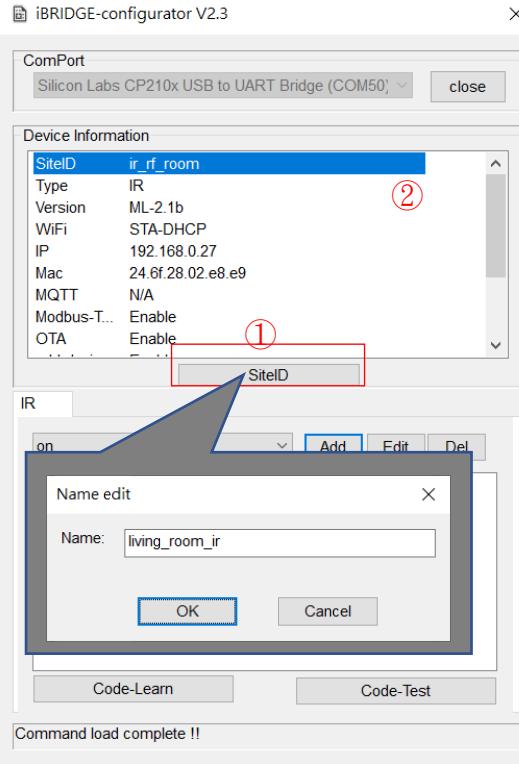
Wi-Fi setting change

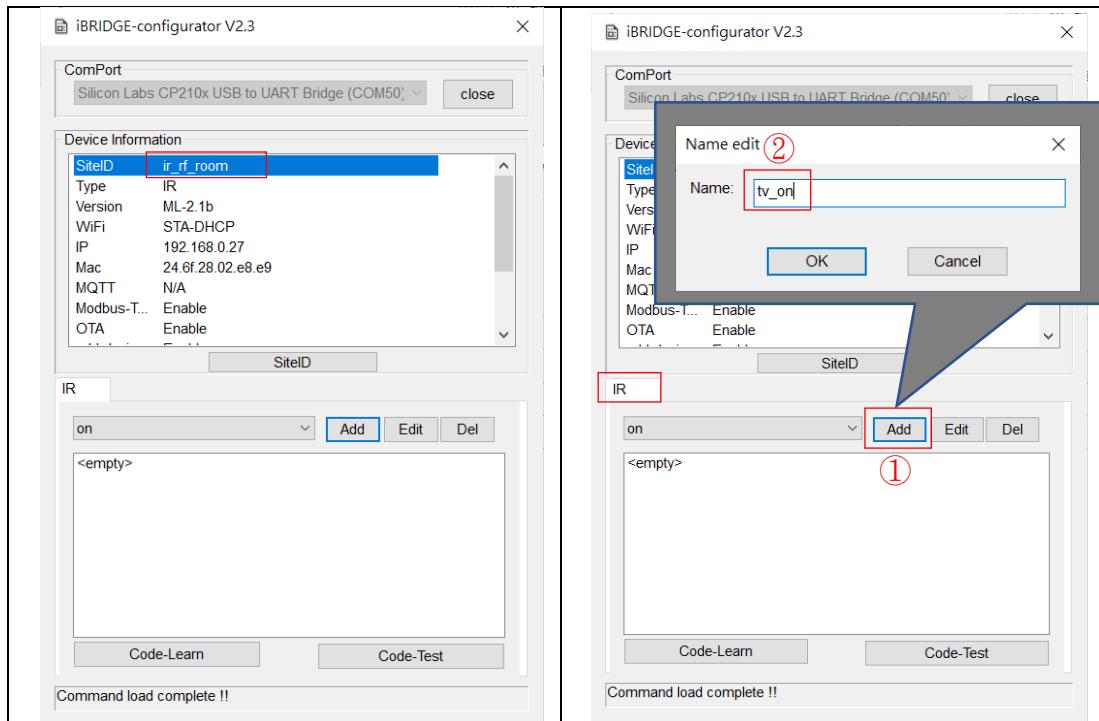
- ① Click MESH Mode, choice **【Root】**
- ② Network-ID can be any 6 digit number, ex:654321

STEP 8:

Name your SiteID

- ① Select the SiteID item and Click the **【SiteID】** button
- ② Pop up the name edit dialog, input your desired name,

 <div style="border: 2px solid red; padding: 5px; margin-top: 10px;"> <p>NOTE: every mesh network which the same Network-ID can only one Root , others will be Node</p> </div>	<p style="text-align: center;"><ex>:living_room_ir</p> 
<p>STEP 9: On Device Information area , the item SiteID will show the name which you input</p>	<p>STEP 10: How to add a IR control action ① Under the IR tab, click the 【Add】 button On the name field, input the name, ex: tv_on</p>

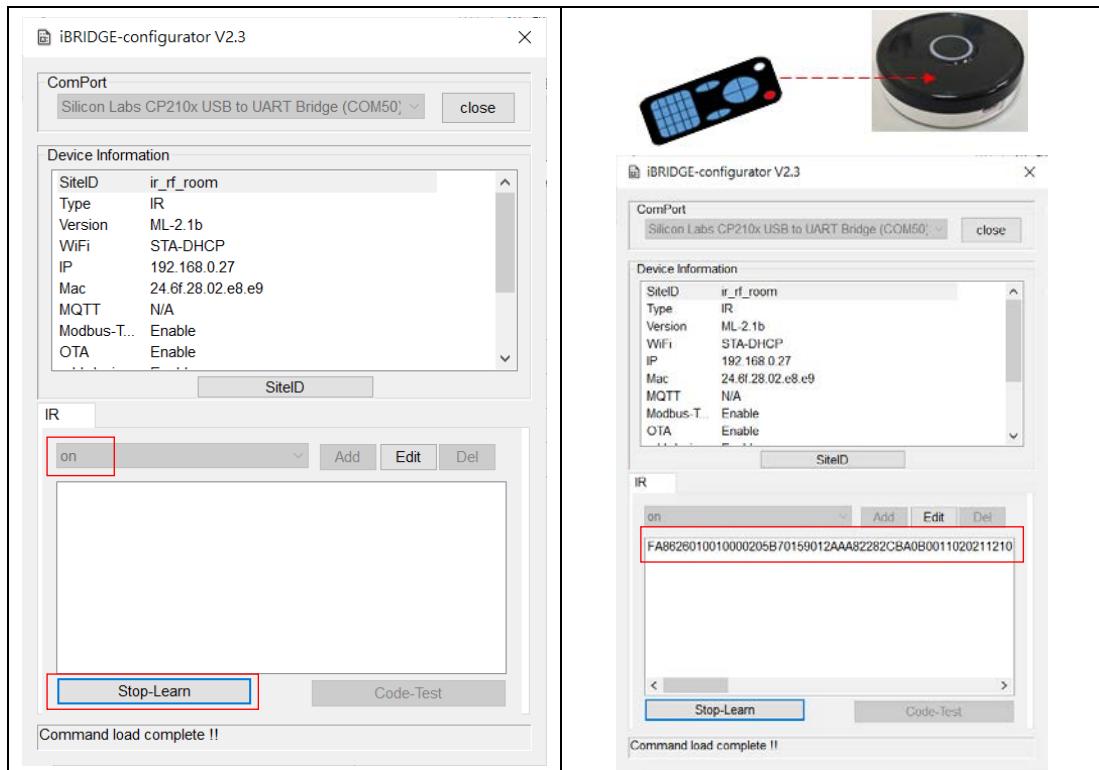


STEP 11:

IR code learning
click **【Code-Learn】** button, the label
will change to **【Stop-Learn】**, you are
on the IR leaning mode now

STEP 12:

Pick your TV remote controller and
press the “ON” button on the
controller, when the code show on the
filed , mean your learning code
success. (your IR controller should
direction to the **『IR/24G』** ,under
10-20 cm will be better signal
collection.

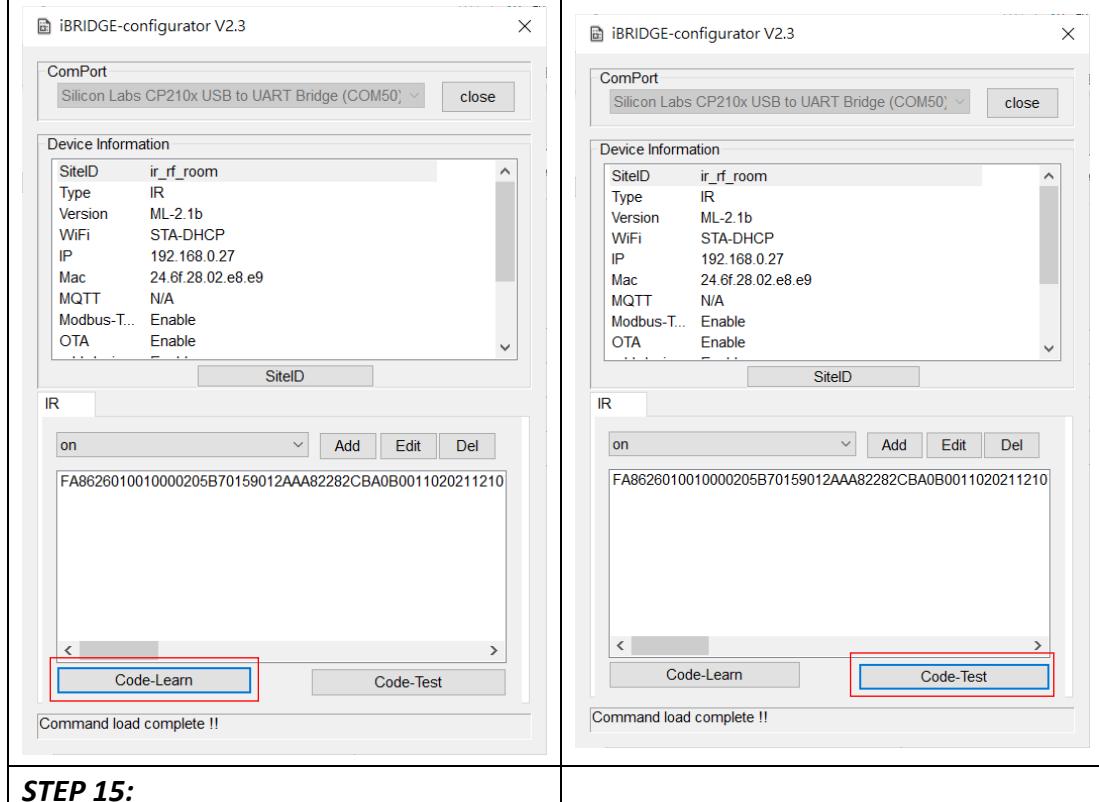


STEP 13:

After collect every action you want, click the **【Stop-Learn】** button , the button label will change to **【Code-Learn】** , new exit the learn mode

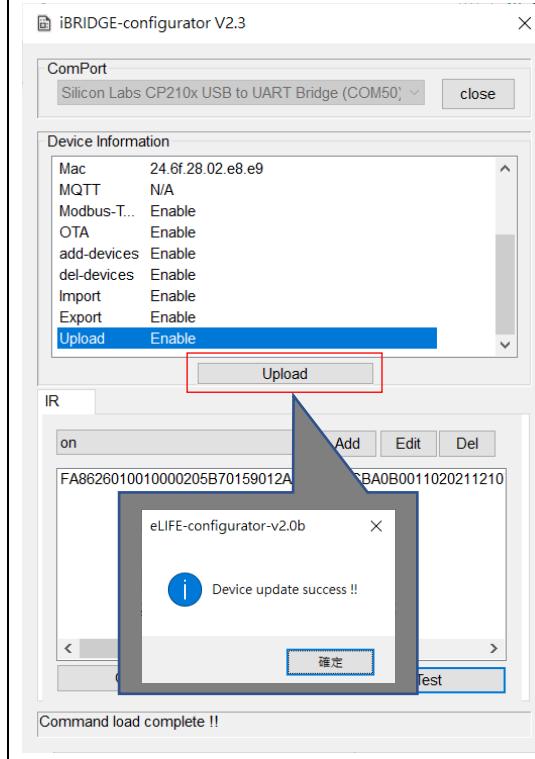
STEP 14:

You can click the **【Code-Test】** button, this will send out all the learned code, make sure the TV is turn on as your expect

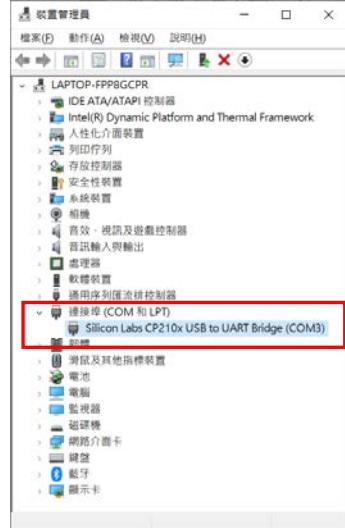
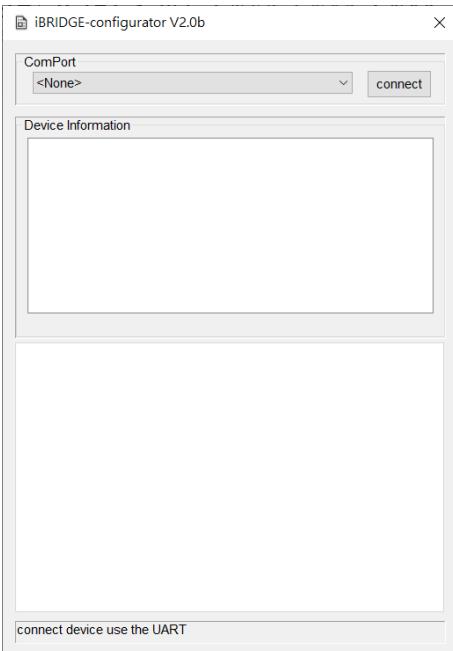
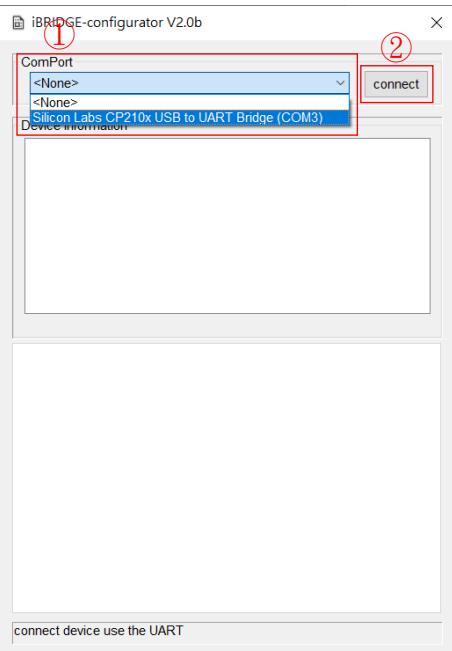


STEP 15:

After every test action is set complete, you should click the 【Upload】 button to upload the command scene to the device. You can repeat step11-14

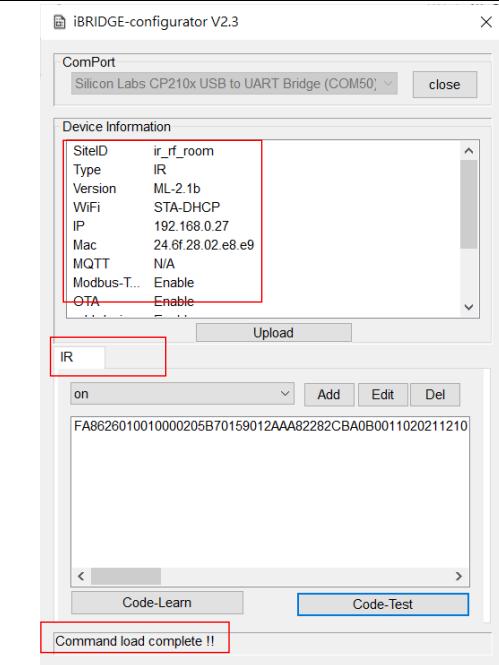


STA Mode operation step by step

<p>STEP 1: connect 『IR/24G』 to the PC or NB through the USB data transfer cable</p>	<p>STEP 2: check the virtual serial driver COM port Number on the windows device manager</p>
	
<p>STEP 3: run iBRIDGE-configuration.exe , after start will display the dialog</p>	<p>STEP 4: Connect device to configuration ② select the device COM port Number ③ click 【connect】</p>
	

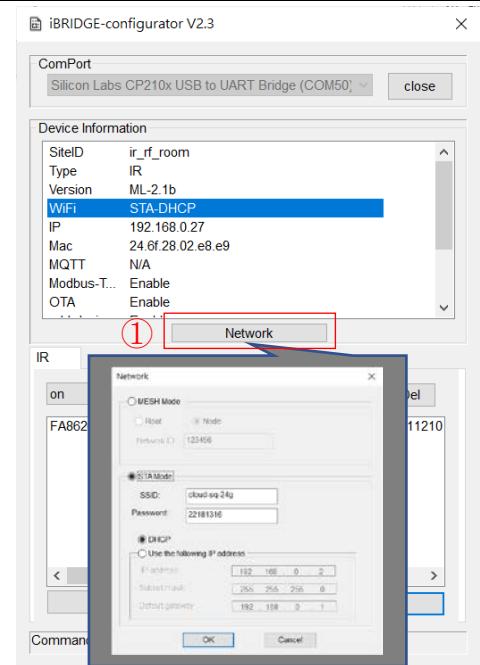
STEP 5:

If connect success, status field will display the 【Command load complete!!】 message

**STEP 6:**

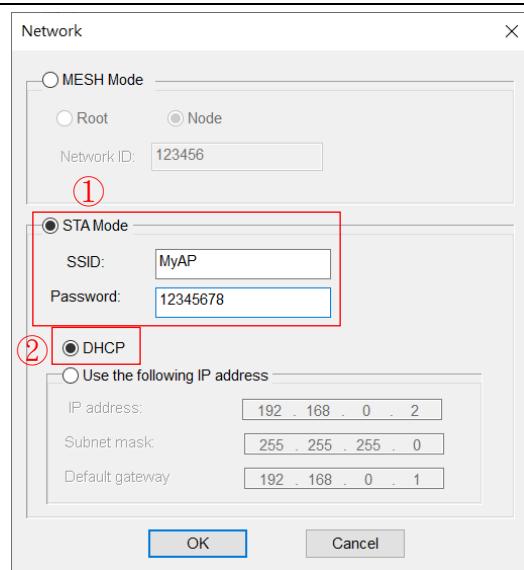
Wi-Fi mode set

- ① click 【WIFI mode】 button

**STEP 7:**

Parameter modify

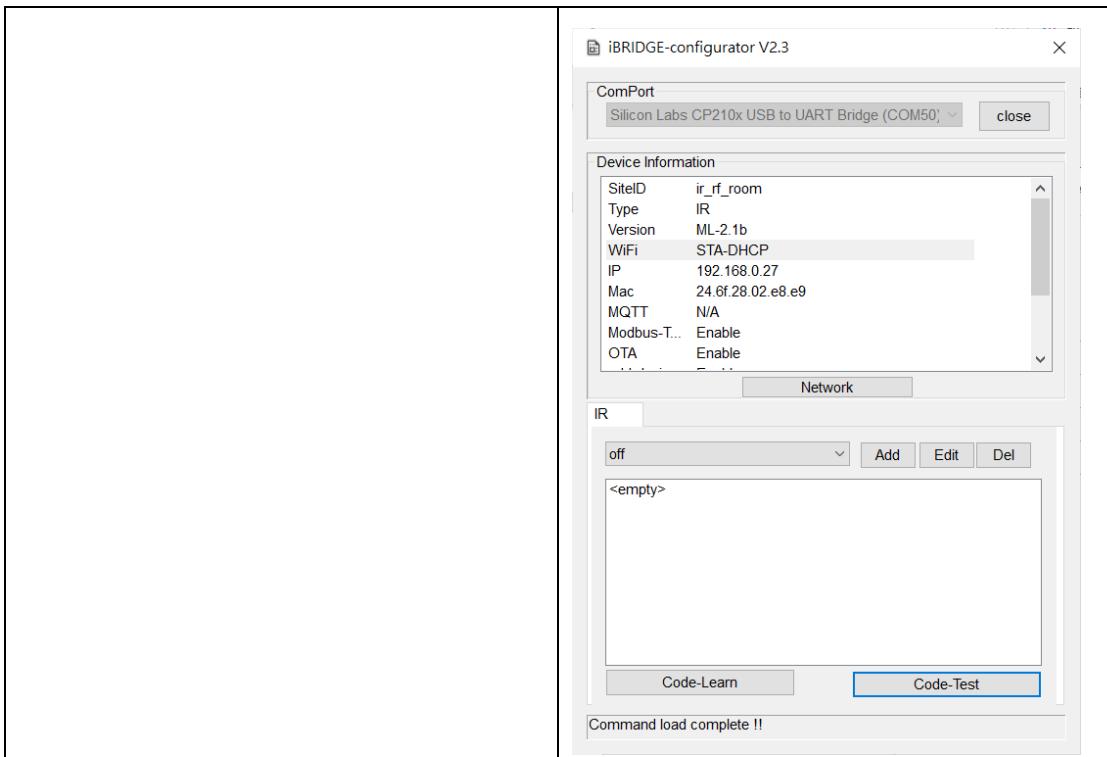
- ① click 【STA Mode】 button to pop up the dialog and fill in your AP SSID and Password
- ② choose 【DHCP】

**STEP 8:**

After you change and confirm the network setting, the inform will refresh and update to the last message

- ① the new IP will display





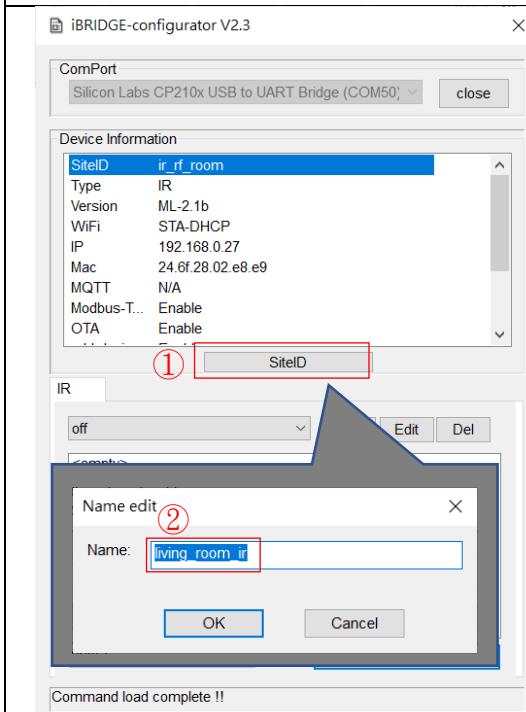
STEP 9:

Edit your SiteID name

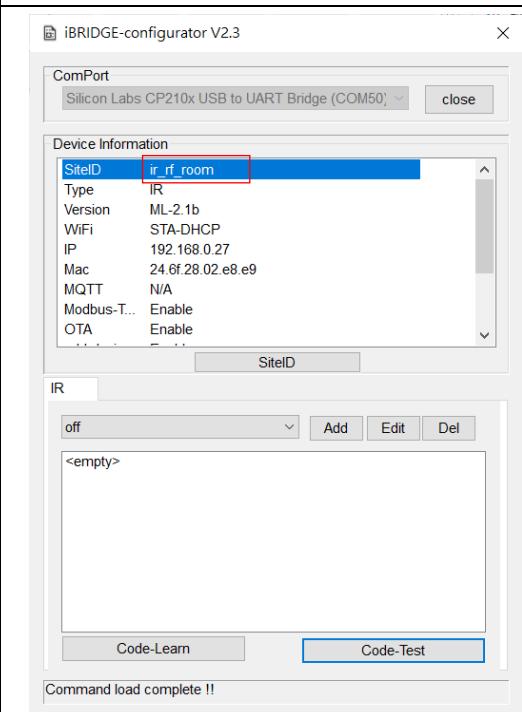
- ① Select the SiteID item and click the **【SiteID】** button
- ② Popup the name edit dialog and input name. ex: `living_room_ir`

STEP 10:

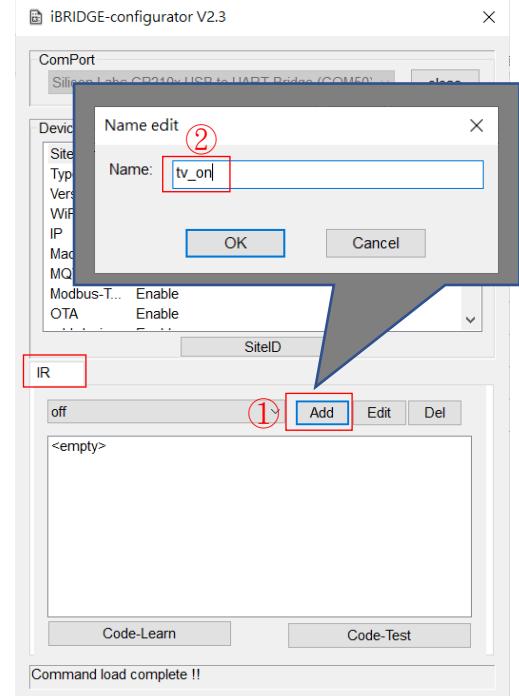
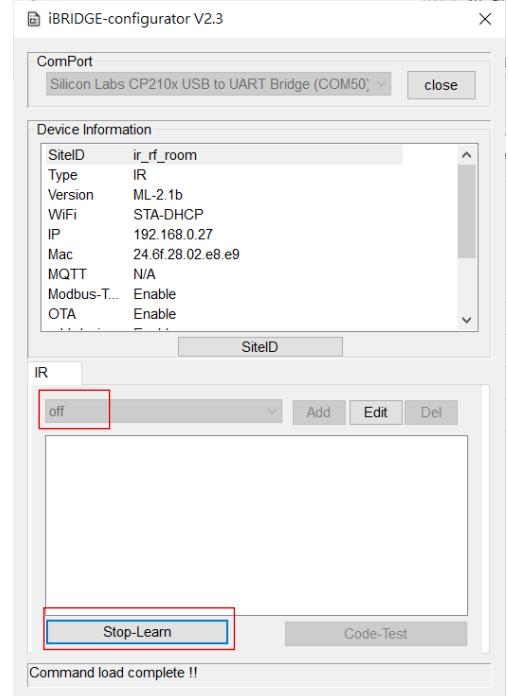
On Device Information area , the item SiteID will show the name which you input

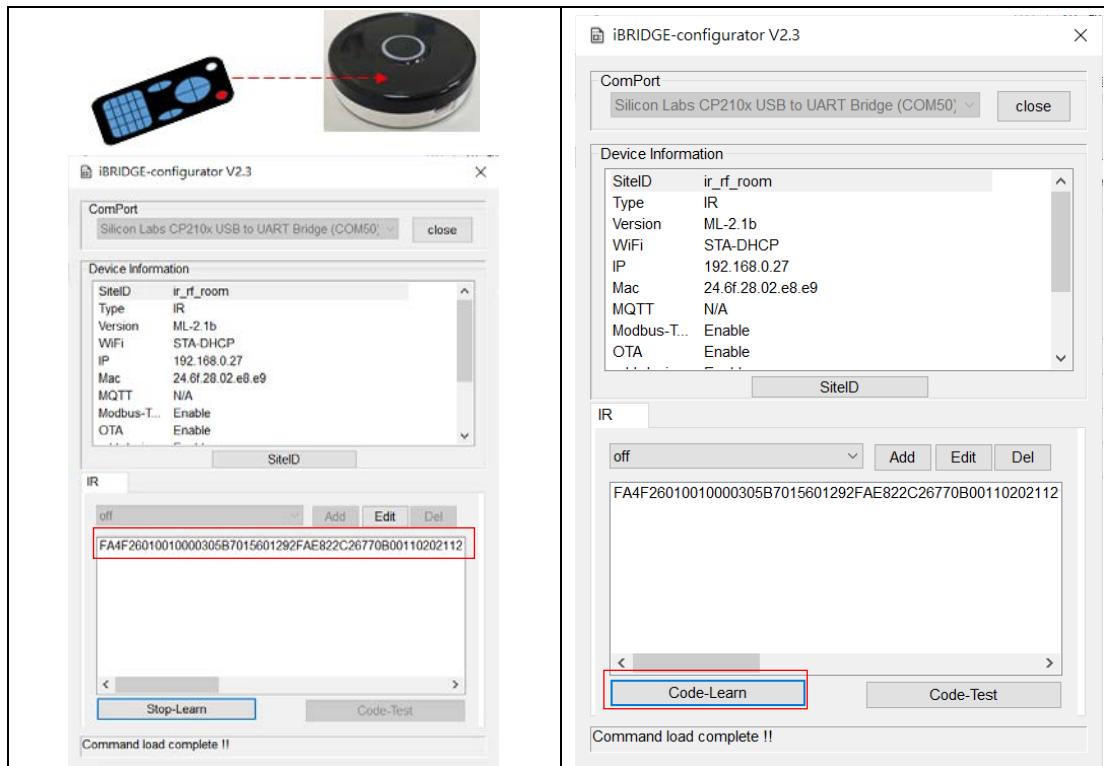


STEP 11:



STEP 12:

<p>How to add a IR control action</p> <p>② Under the IR tab, click the 【Add】 button</p> <p>③ On the name field, input the name, ex: tv_on</p> 	<p>IR code learning</p> <p>click 【Code-Learn】 button, the label will change to 【Stop-Learn】 , you are on the IR leaning mode now</p> 
<p>STEP 13:</p> <p>Pick your TV remote controller and press the “ON” button on the controller, when the code show on the filed , mean your learning code success. (your IR controller should direction to the 『IR/24G』 ,under 10-20 cm will be better signal collection.</p>	<p>STEP 14:</p> <p>After collect every action you want, click the 【Stop-Learn】 button , the button label will change to 【Code-Learn】 , new exit the learn mode</p>

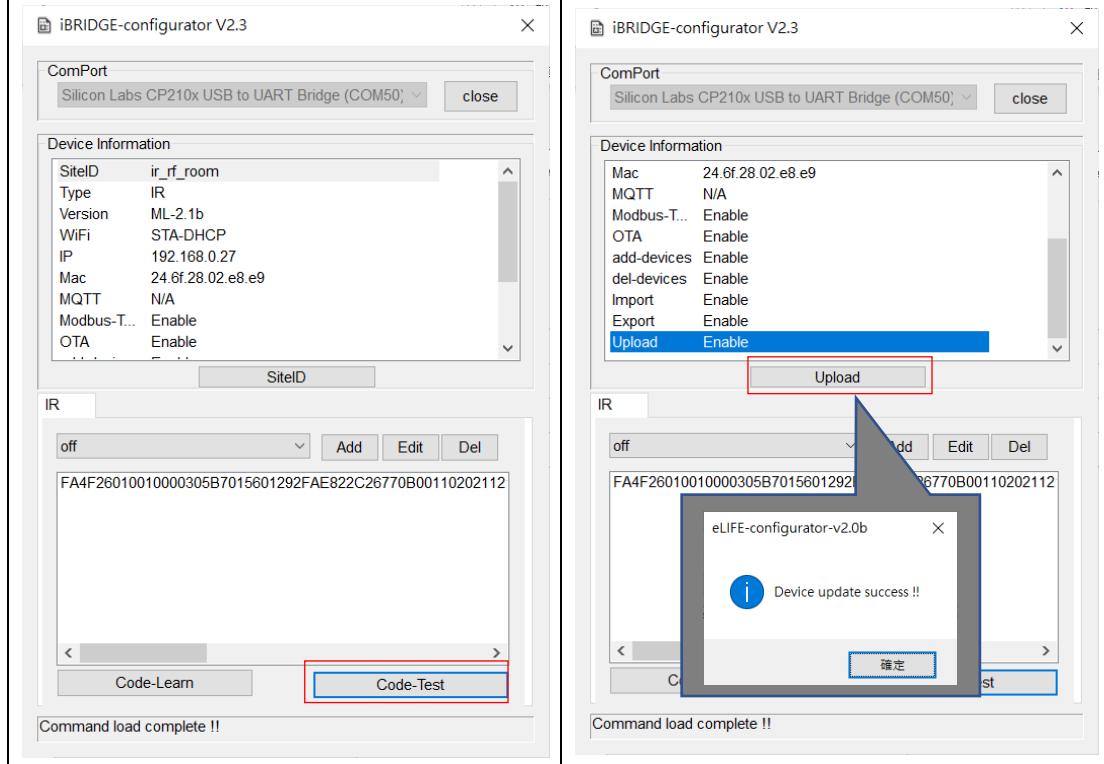


STEP 15:

You can click the 【Code-Test】 button, this will send out all the learned code, make sure the TV is turn on as your expect

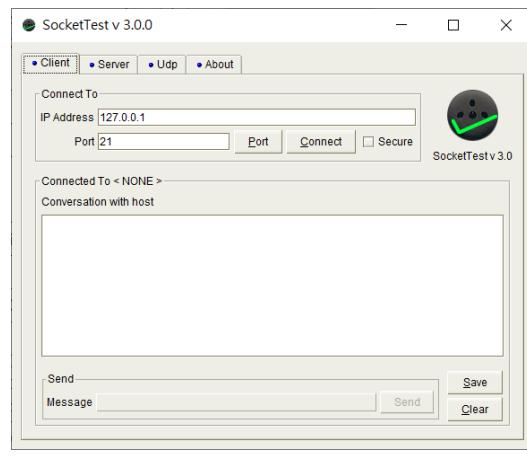
STEP 16:

After every test action is set complete, you should click the 【Upload】 button to upload the command scene to the device. You can repeat step12-15



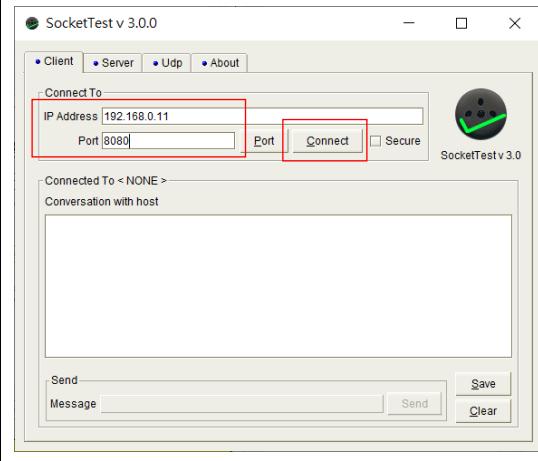
STEP 17:

You can use the " SocketTest.exe" TCP win application (not support the Chinese and blank string) for test
 ✎ kindly download from webby yourself

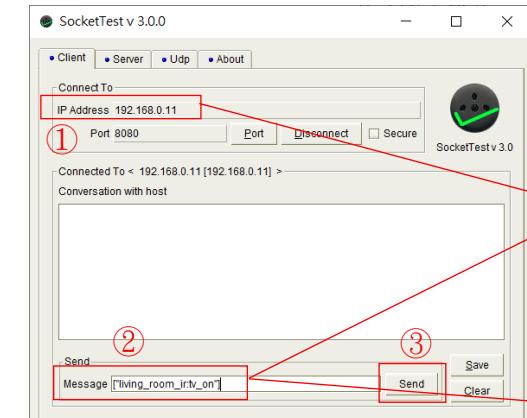
**STEP 18:**

Parameters set

- ① Input the IP and Port
- ② Click the 【Connect】 button

**STEP 19:**

- ① Confirm parameter is correct
- ② Input the json command format and click 【Send】 then confirm A/C is open

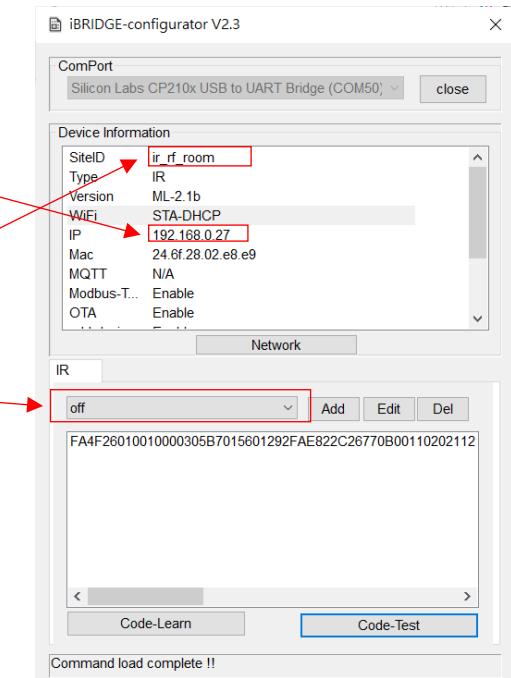


Command format: ["siteID:Cmd"]

EX: ["living_room_ir:tv_on"]

Command format: ["siteID:Cmd","siteID:cmd"]

EX: ["living_room_ir:tv_on", "living_room_ir:yv_off"]



Product Specification:

Wireless	<i>Wi-Fi 802.11 b/g/n (802.11n, up to 150Mbps)</i>
IR transmit distance	<i>10M</i>
IR input	<i>Carrier Frequency 38KHz</i>
Power supply	<i>micro USB Adapter 5VDC, 1A</i>
Operation temperature	<i>0~40°C</i>
Certification	<i>CE & FCC</i>

Warning:

15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 15.105 This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

15.21

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible

RF Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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