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Part 1: How to connect the device

1.1 A single device is connected to PC via USB

Use the attached USB cable to connect the USB port of the PC to the USB port on the device panel, turn on the power, and wait until the booting is completed. This is only suitable for using a PC to control a single device at close range, as shown in figure 1:

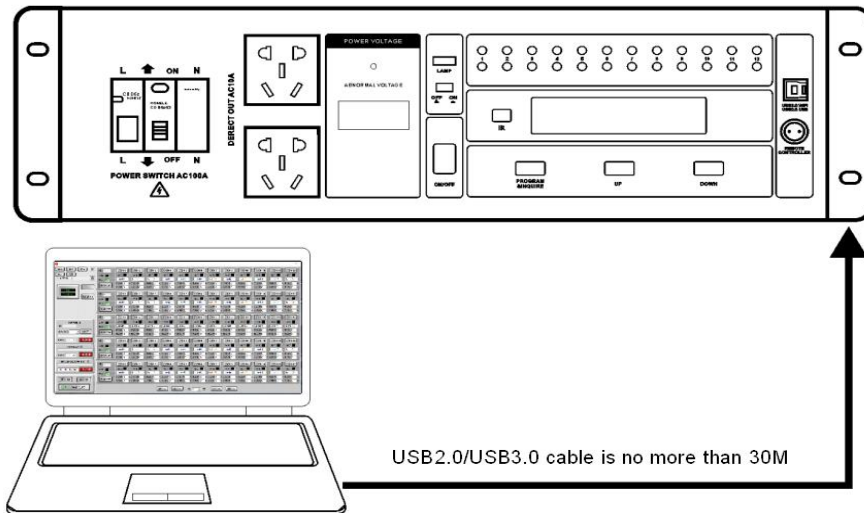


Figure 1

1.2 A single device is connected to PC via 485

Step 1: Set the device ID to 1. Power on and long press "PROGRAM & INQUIRE" button to make the LCD flash. Press "UP" and "DOWN" buttons to modify the ID value and set the ID to 1.

Step 2: Use the optional USB to 485 cable or other 485 cables to connect the USB port of the PC to the LINK IN port on the rear panel of the device. This is suitable for remote control of a single device with a PC, and the maximum distance can exceed 600m, as shown in Figure 2 below. The definition of the LINK IN and LINK OUT ports on the rear panel is shown in Figure 3.

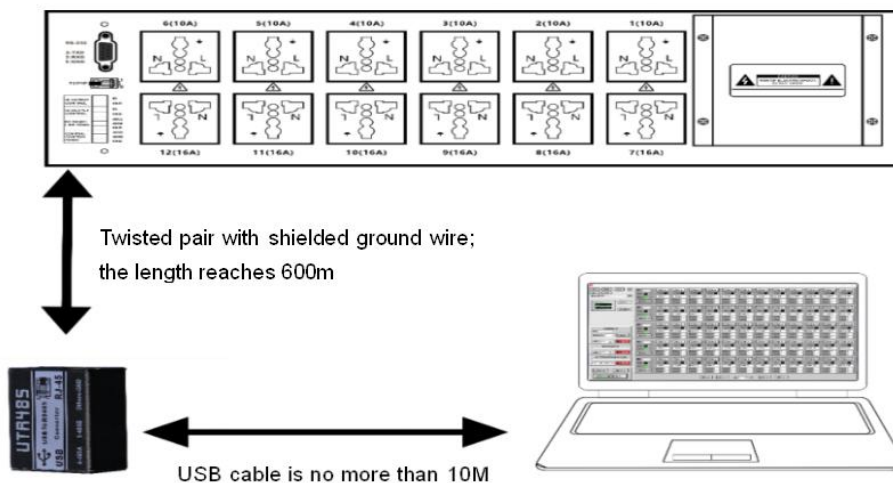


Figure 2

IR OUTPUT CONTROL	IR
	GND
IO OUTPUT CONTROL	IO
	GND
PC RS485 LINK RS485	485A
	485B
	GND
CENTRAL CONTROL RS485	485A
	485B
	GND

Figure 3

1.3 Multiple devices are connected to PC through 485

Note: When multiple devices are connected to the PC, the device ID must be set continuously from 1 and the ID number cannot be repeated. And a maximum of 250 devices can be connected.

Step 1: Set the device ID from 1 consecutively. Power on and long press "PROGRAM & INQUIRE" button to make the LCD flash, press "UP" and "DOWN" buttons to set the ID to 1. And then set other device ID using the same way.

Step 2: Use the optional USB to 485 cable or other 485 cables to connect the USB port of the PC to the LINK IN port on the rear panel of the device. Use twisted pair with shielded ground wire to connect device and device, as shown in Figure 4. the definition of the LINK IN and LINK OUT ports on the rear panel is shown in Figure 5.

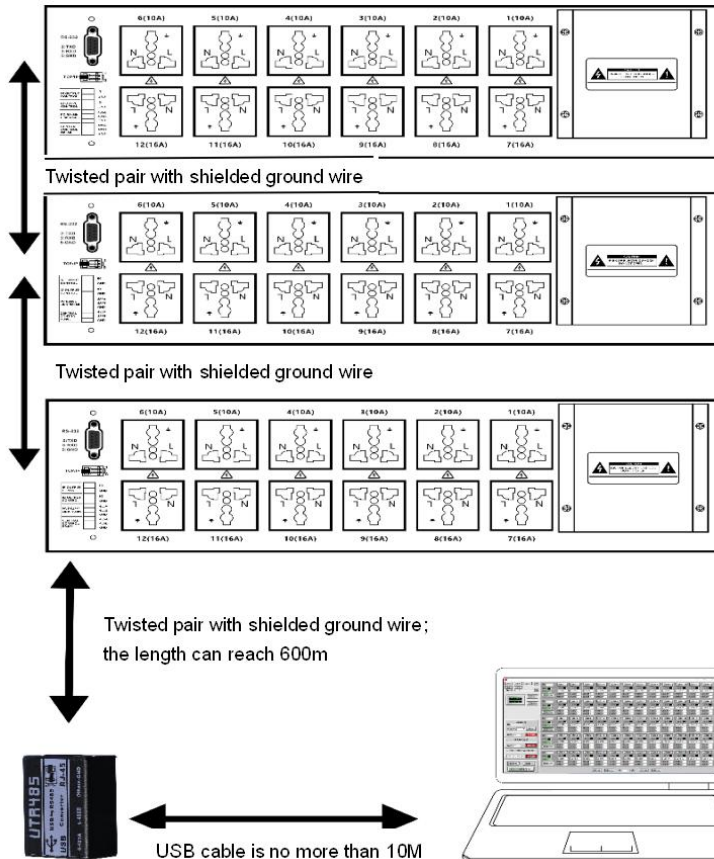


Figure 4

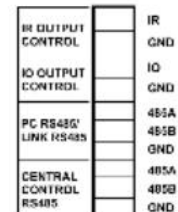


Figure 5

Step 3: Open the PC software and connect the device to the PC via 485 connection method.

1.4 How to connect the device to the central control

Connect a single device to the central control: connect the central control 485 control interface to the rear panel 485 or RS232 interface, as shown in Figure 6 below (central control 485 A is connected to CENTRAL CONTROL RS485 A; central control 485B is connected to CENTRAL CONTROL RS485 B).

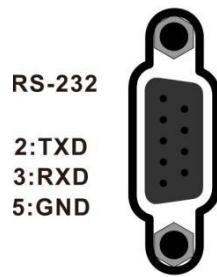


Figure 6

Connect multiple devices to the central control, as shown in Figure 7 below:

Note: When multiple devices are connected to the central control unit, the device ID must be set continuously from 1 and the ID number cannot be repeated. A maximum of 250 devices can be connected.

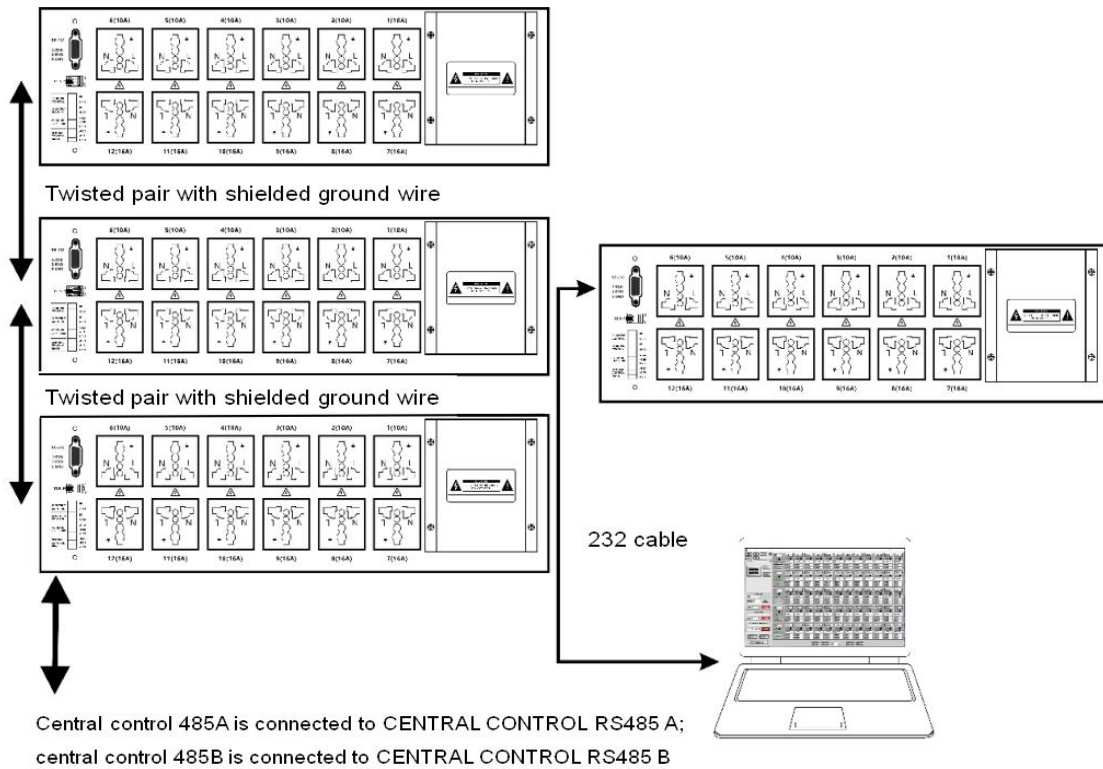


Figure 7

Central control code (applicable to central control RS485/RS232/TCP)

Baud rate (applicable to RS485/RS232): 9600 (AS-DV1.00)

For TCP command control, the port number is (this product does not support UDP): 8899

Read channel status: 0xD0 0xD0 0xD0 0x01 ID 0x01 0x01 0x00 0xEE

Return: 0xD0 0xD0 0xD0 0x03 ID 0x08 0xMM 0xMM 0xMM 0xMM 0xMM 0xMM 0xMM 0xMM 0xMM 0xEE

Note:

1. The ID is 1-250 (corresponding to the device ID to be read).

1.5 How to connect the device to the device

Note: To connect the device to the device, the ID of the device must be set continuously from 1 and the ID number cannot be repeated. A maximum of 250 devices can be connected.

Step 1: Set the device ID from 1 consecutively. Power on and long press "PROGRAM & INQUIRE" button to make the LCD flash, and press "UP" and "DOWN" buttons to set the ID to 1. Set other devices using the same method.

Step 2: Use twisted pair with shielded ground wire to connect device and device, the maximum distance can reach 600m, as shown in Figure 8.

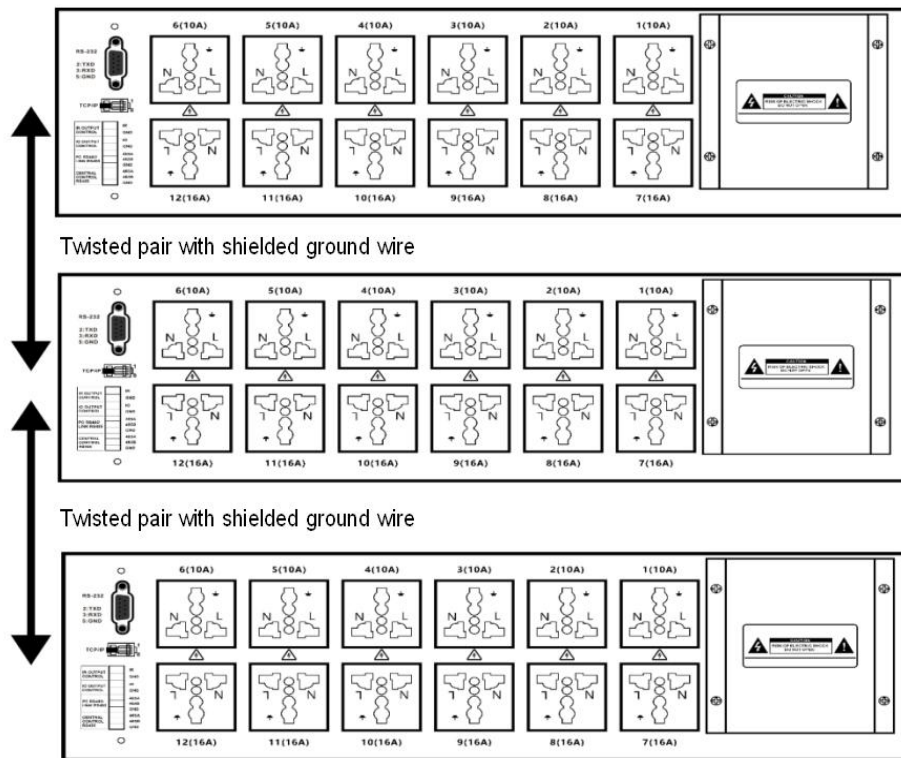


Figure 8

1.6 How to connect TCP IP

To connect TCP IP to PC, there are 3 methods

Network cable (Cat5 cable)

The first method: Device -----> PC

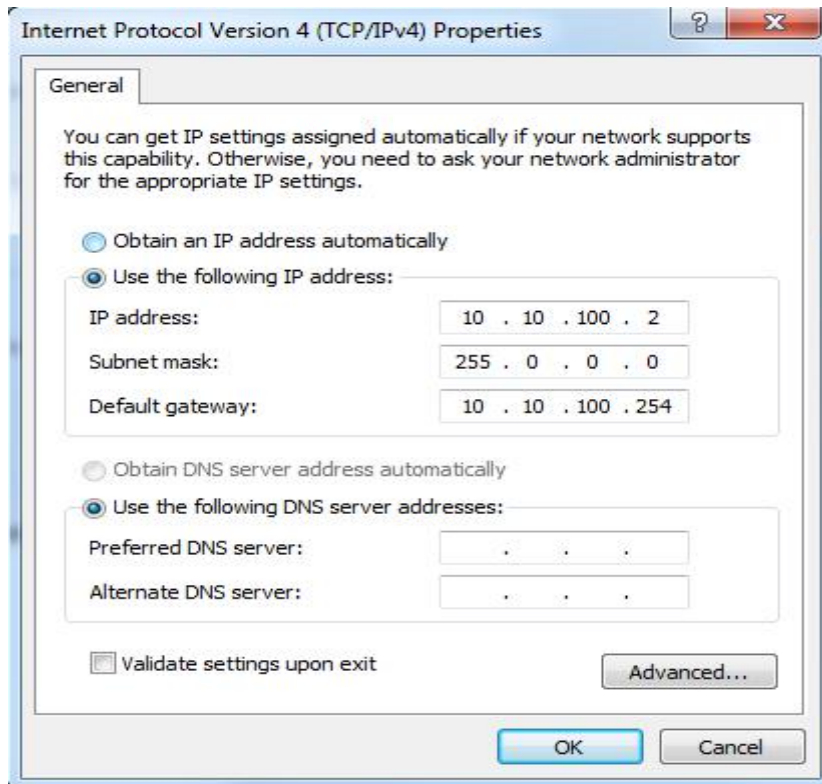


Figure 10

After the above steps are completed, the control software can be connected to the device.

Network cable (Cat5 cable) Network cable (Cat5 cable)

The second method: Device -----> router -----> PC

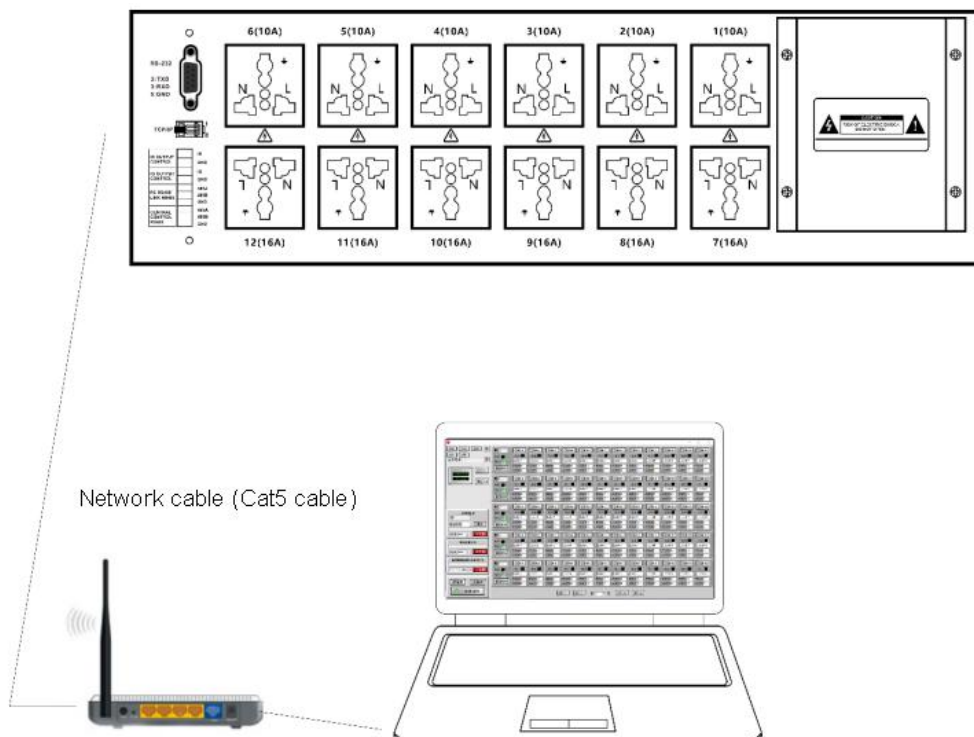




Figure 11

Step 1: Set the IP address of the device to be consistent with the IP address of the PC software (for example, the IP address of the device is IP SET 010.010.100.254 , and the IP address of the PC must be



Step 2: If the computer is connected to a wireless network, click  on the computer to select Open Network and Sharing Center to change the adapter settings, disconnect the wireless network, and then click the local connection. If the computer already starts a local connection  , click Open Network and Sharing Center to change the adapter settings. Click Local connection attributes to select Internet Protocol Version 4 (TCP/IPv4) , double-click to select Automatically obtain an IP address, as shown in Figure 12.

Step 3: Set the IP address of the router, log in to the initial address of the router (for example: if it is 192.168.1.1, enter 192.168.1.1 on the website), and enter the name and password of the router as shown in Figure 13, and click OK. Click Next as shown in Figure 14, select Static as shown in Figure 15, click Next, and enter the IP address 10.10.100.3 as shown in Figure 16. (Note: the last digit of the static IP address cannot be the same as the last digit of the local connection IP address, as shown in Figure 17) Click Next, select Do not modify the wireless security settings, as shown in Figure 18; click Next, and click Finish as shown in Figure 19.

Step 4: Click Local connection attributes to select Internet Protocol Version 4 (TCP/IPv4) , double-click to modify the IP address, and then click OK, as shown in the figure.

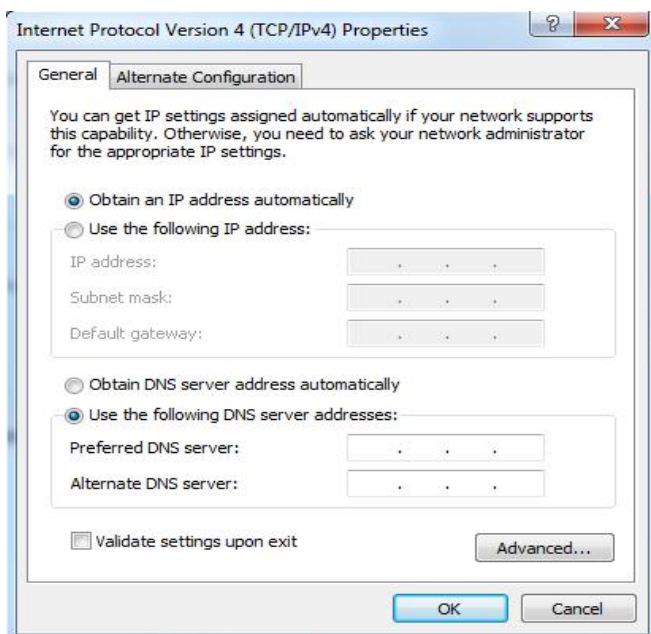


Figure 12



Figure 13

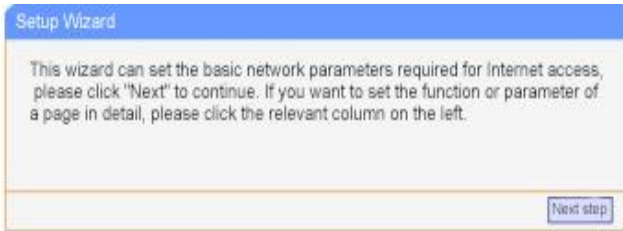


Figure 14

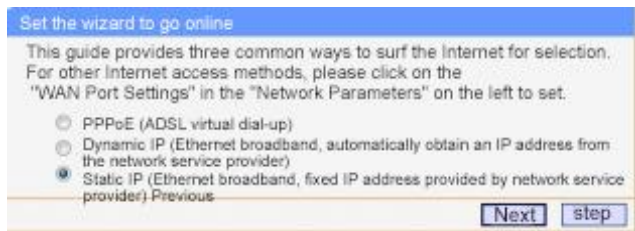


Figure 15

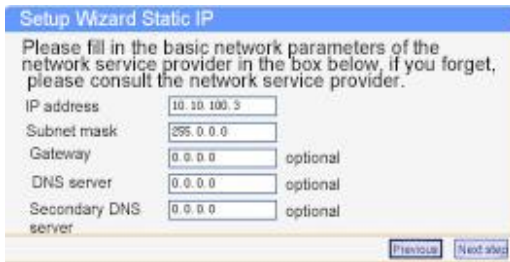


Figure 16

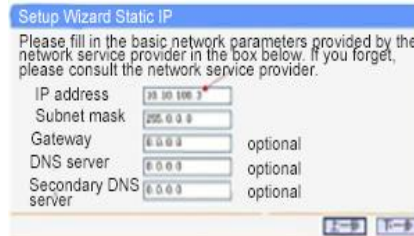


Figure 17



Figure 18

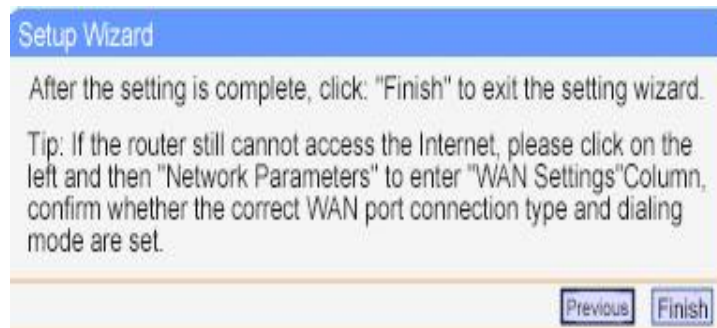


Figure 19

After the above steps are completed, the control software can be connected to the device.

Network cable (cat5 cable) Wireless network

The third method: Device -----> Router -----> PC

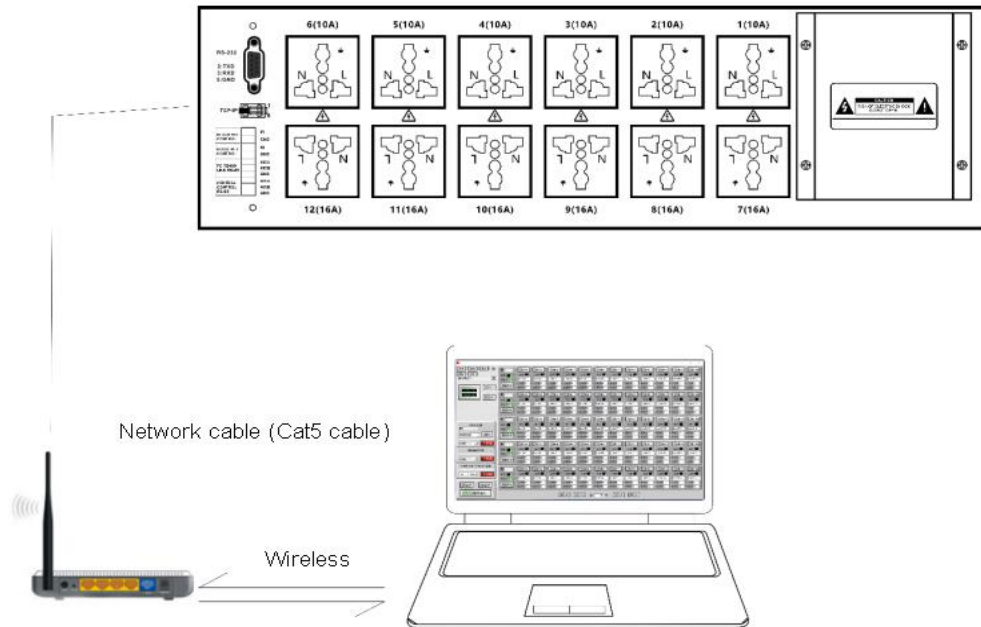





Figure 20

Step 1: Set the IP address of the device to be consistent with the IP address of the PC software (for example, the IP address of the device is **IP SET 010.010.100.254** , the IP address of the PC must be



Step 2: Click  on the computer to connect a wireless network, select the wireless IP name of the router as shown in Figure 21, and click Connect. Click to select "Connect to the network if not setting the network" as shown in Figure 22. Click the wireless network  , left click to select the status **Disconnect Status** , select the attributes, and select  , double-click to select Automatically obtain an IP address.

Step 3: Please refer to Step 3 of The second method.



Step 4: Click the wireless network  , left click to select the status **Disconnect Status** , select the attributes, select  , double-click to modify the IP address, and then click OK, as shown in the figure.



Figure 21

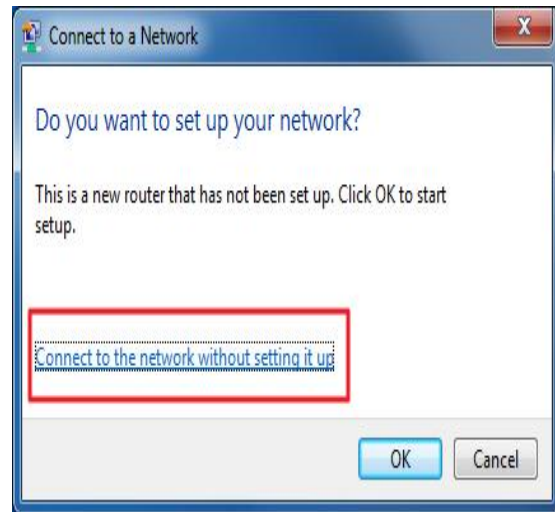


Figure 22

After the above steps are completed, the control software can be connected to the device.

Note: If you have used the second method and the third method, you want to use the second method later. To modify the last digit of the IP address, you can modify the value to (4-253), as shown in Figure 23.

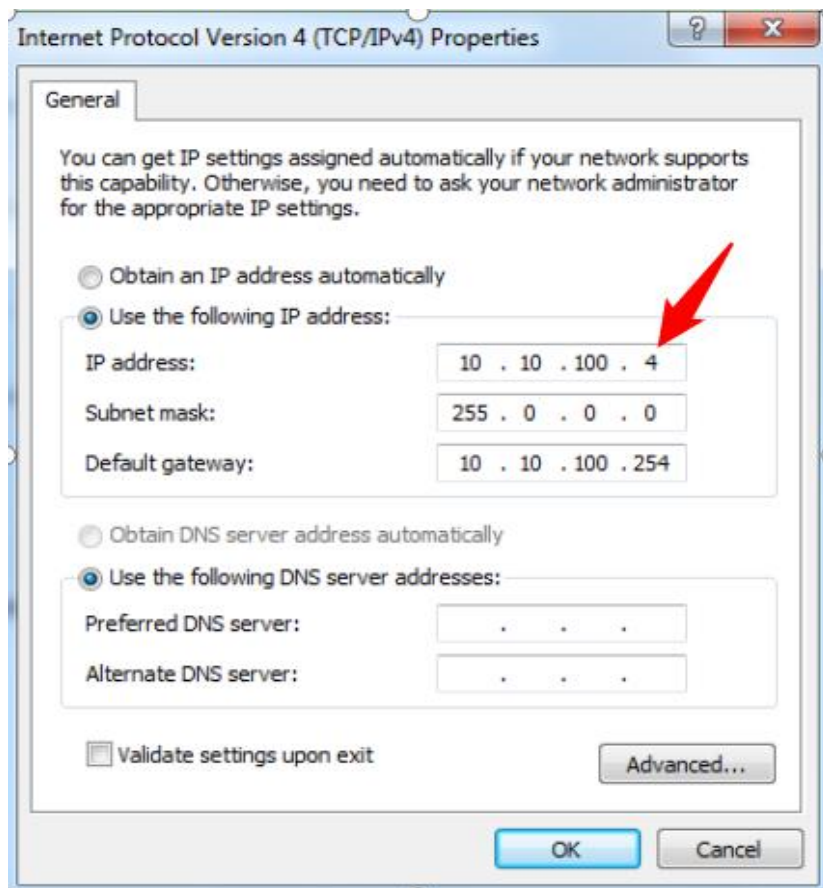


Figure 23

1.7 How to connect WIFI module

The computer can be connected to the network in 7 methods.

Note: The network connection requires an external wifi module. The connection between the wifi module and the controller is shown in Figure 24 below.

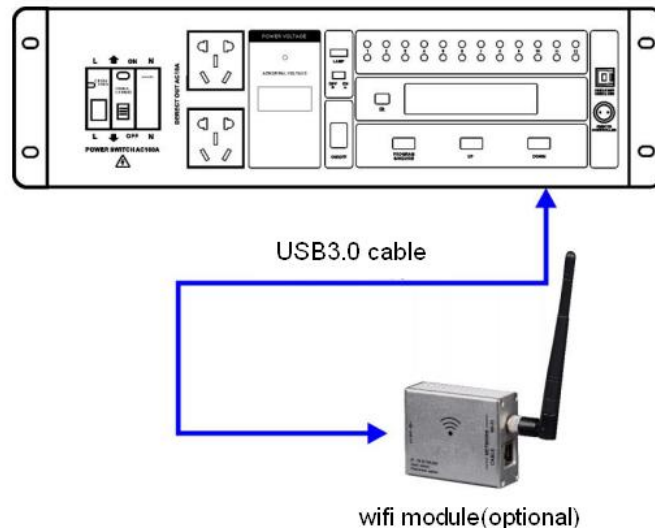


Figure 24

The first method: Device -----> wifi module -----> PC

After connecting the device according to the above figure, you need to change the way the computer obtains the IP address to Automatic (if your computer is already set to Automatic, there is no need to modify it).

After the above steps are completed, the control software can be connected to the device (reference for software connection operation)

USB3.0 cable Wireless network

The second method: Device -----> wifi module -----> PC

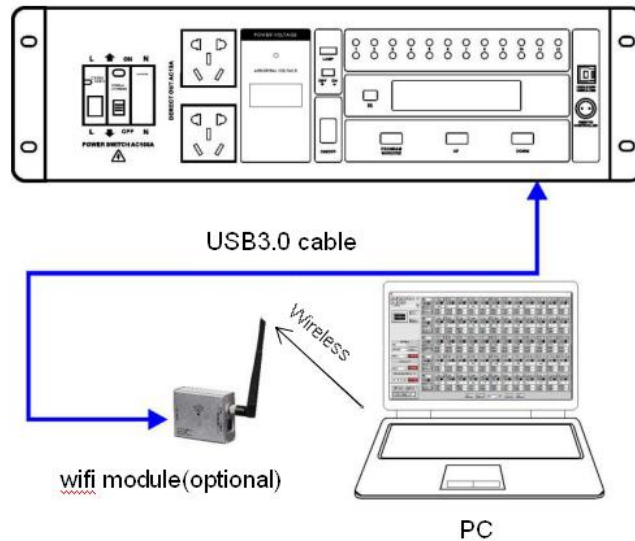


Figure 25

To connect with this method, first change the wireless mode to AP mode. For the modification method, please refer to "1.9.1.4 How to Interchange Station Mode and AP Mode".

Connection example under windows Xp system:

Turn on the wireless connection and search the wireless network to find the corresponding wireless network name of the device, as shown in Figure 26 below.



Figure 26



Figure 27

Select 'Connect still', if the connection is normal, it will be displayed as Figure 28 below.

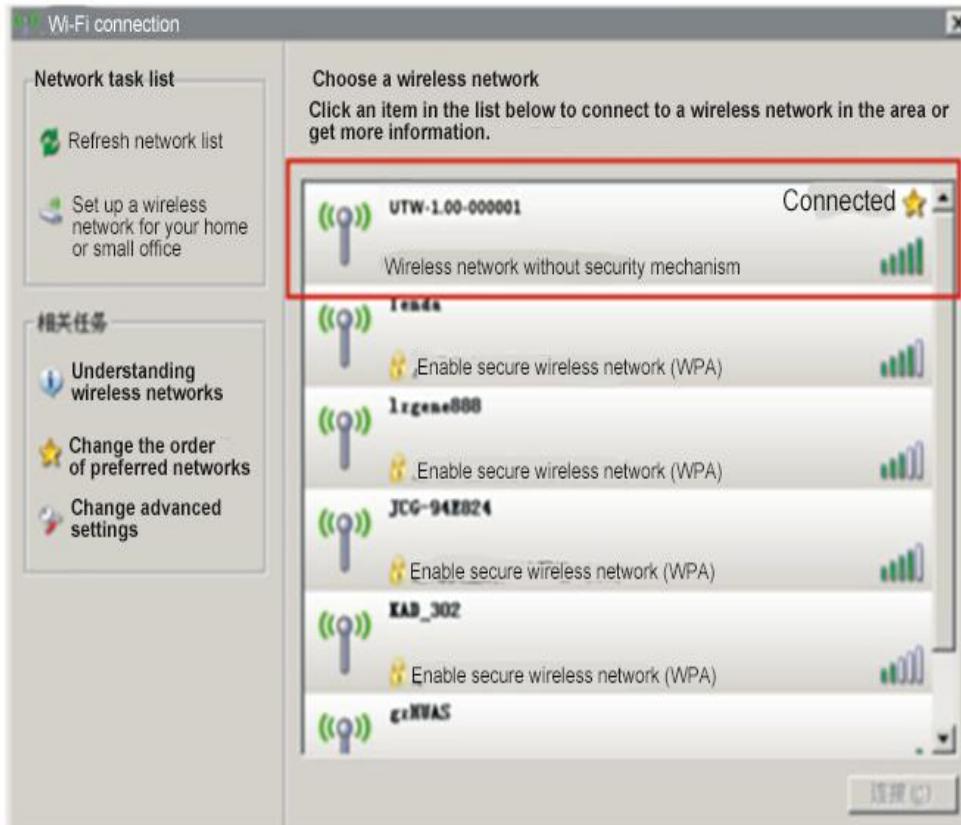


Figure 28

The WIFI module of the device is connected. Under the default settings of the module, the TCP/IP protocol option of the wireless network card attributes should be changed to Automatic. If it is not, please set it to Automatically obtain IP address, as shown in Figure 29.

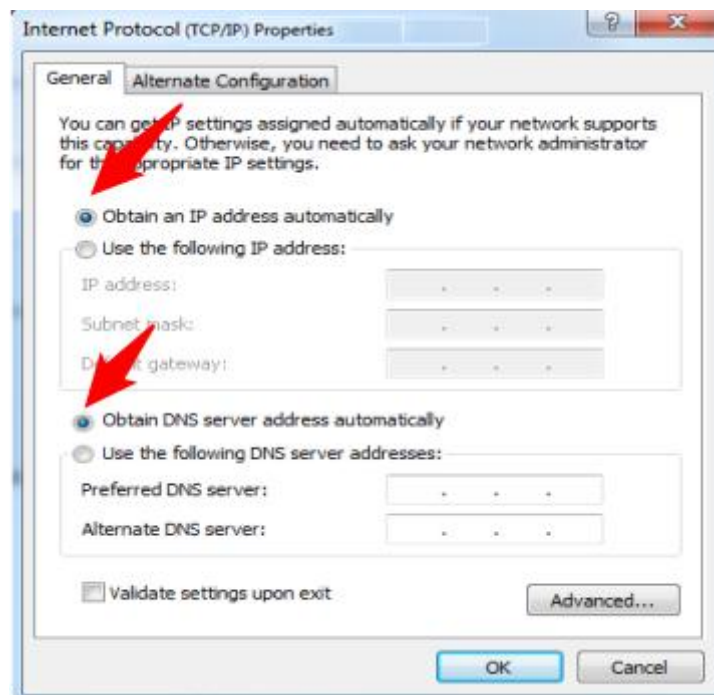


Figure 29

Connection example under windows 7 system:

Turn on the wireless connection and search the wireless network to find the corresponding wireless network name of the device, as shown in Figure 30 below.



Figure 30

Connect the network name of the corresponding device. If the connection is normal, it will be displayed as Figure 31 below.



Figure 31

USB3.0 cable Network cable (cat5) Network cable (cat5)

The third method: Device <-----> wifi module <-----> router <-----> PC

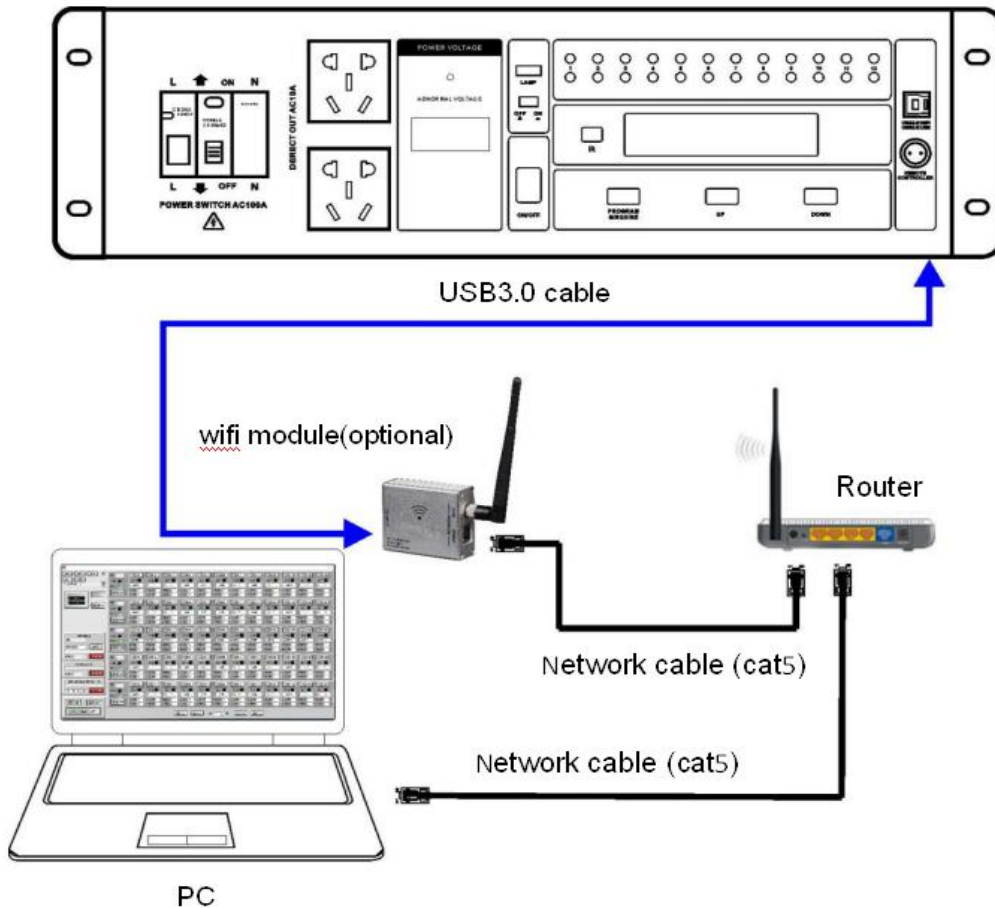


Figure 32

With this connection method, you can regard the device as a computer in a LAN, and the communication between the computer and the device is going through the LAN.

Step 1: First add the device to the LAN and assign a static IP to the device. For the setting method, please refer to "1.9.1.1 How to modify the IP address of AP mode"

Step 2: Connect the device according to the picture above, and make the computer and the device stay in the same network segment (if the gateway of the LAN is 192.168.1.1, the gateway of the device and the computer must be 192.168.1.1)

After the above steps are completed, the control software can be connected to the device.

USB3.0 cable Network cable (cat) Wireless network

The fourth method: Device <-----> wifi module <-----> router <----> PC

This connection method is similar to the third method, except that the router is connected to the computer via a wireless network.

USB3.0 cable Wireless Network cable (cat5)

The fifth method: Device <-----> wifi module <-----> router <-----> PC

This connection method is similar to the third one, except that the router is connected to the wifi module via a wireless network.

USB3.0 cable Wireless Wireless

The sixth method: Device <-----> wifi module <-----> router <-----> PC

This connection method is similar to the third one, except that the router is connected to the wifi module and the computer via a wireless network.

The seventh method:

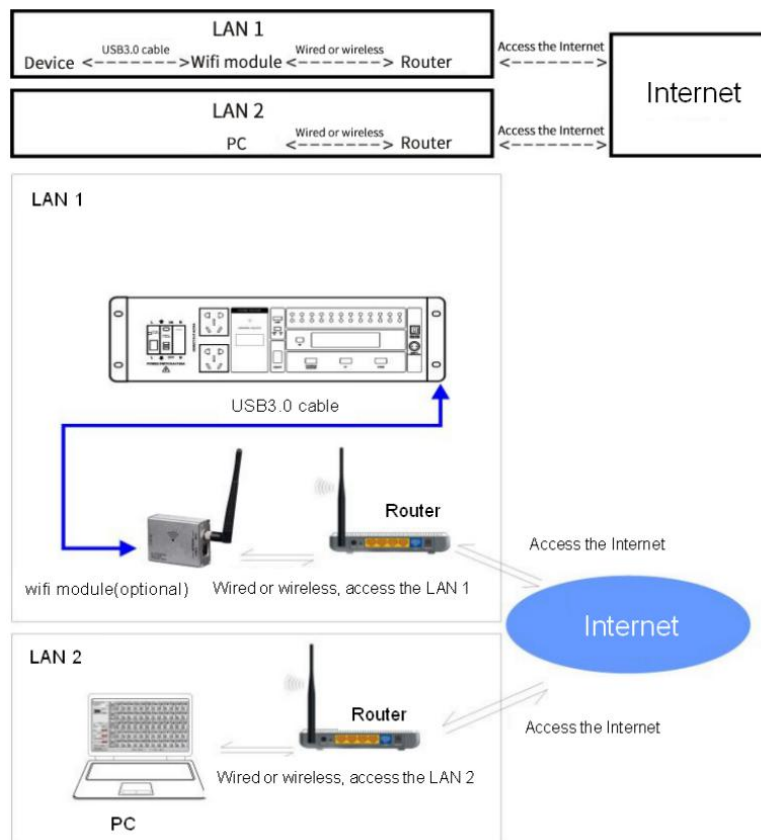


Figure 33

The third, fourth, fifth, and sixth methods are for communication within the same network segment. When the device is in another network segment, or even placed in a remote place, the seventh method is needed.

Connect the device according to the above figure. Generally, the computer on LAN 2 cannot connect to the device on LAN 1. We need to make the following settings.

I. Connect the wifi module to the LAN

Take a network cable with one end connected to the computer and the other end to the WiF module i. After connecting, open the web browser and enter: 10.10.100.254 in the address bar (the initial URL of the system. After modification, please use the modified address. Don't modify it randomly, so as not to forget it.). Enter the wifi module setting interface, the default user is admin, the default password is admin.

After entering the WIFI module interface, configure the following parameters:

a. Mode setting (as shown below)

1. Click "Mode Selection" in the left column.
2. Select "station mode" (the purpose of station mode is to allow the device to act as a customer service, client, and connect to the LAN 1).
3. Select "Transparent Transmission Mode" (it is not required; you can choose other modes here).
4. Press "OK" to save the configuration parameters.

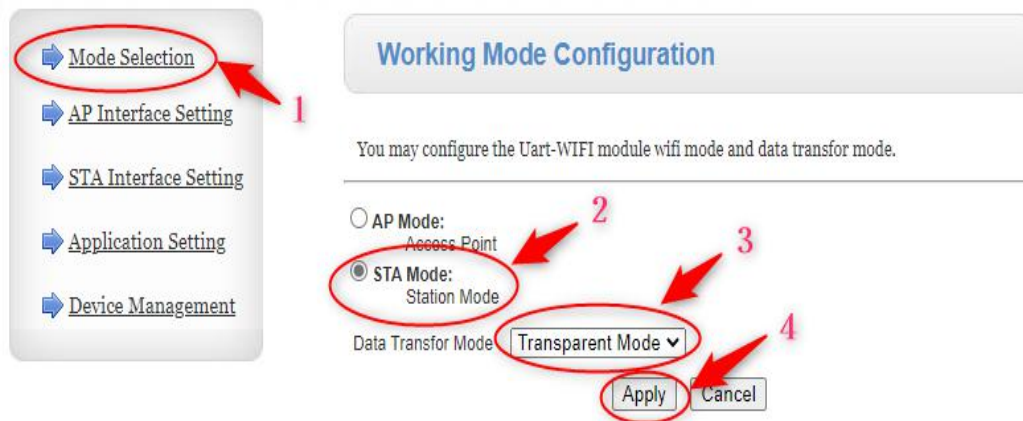


Figure 34

b. Wireless access point settings (Figure 35 below)

1. Click "Wireless Access Point Settings" in the left column.
2. Fill in the network name (give the device a name that is easy to identify).
3. Press "OK" to save the configuration parameters.

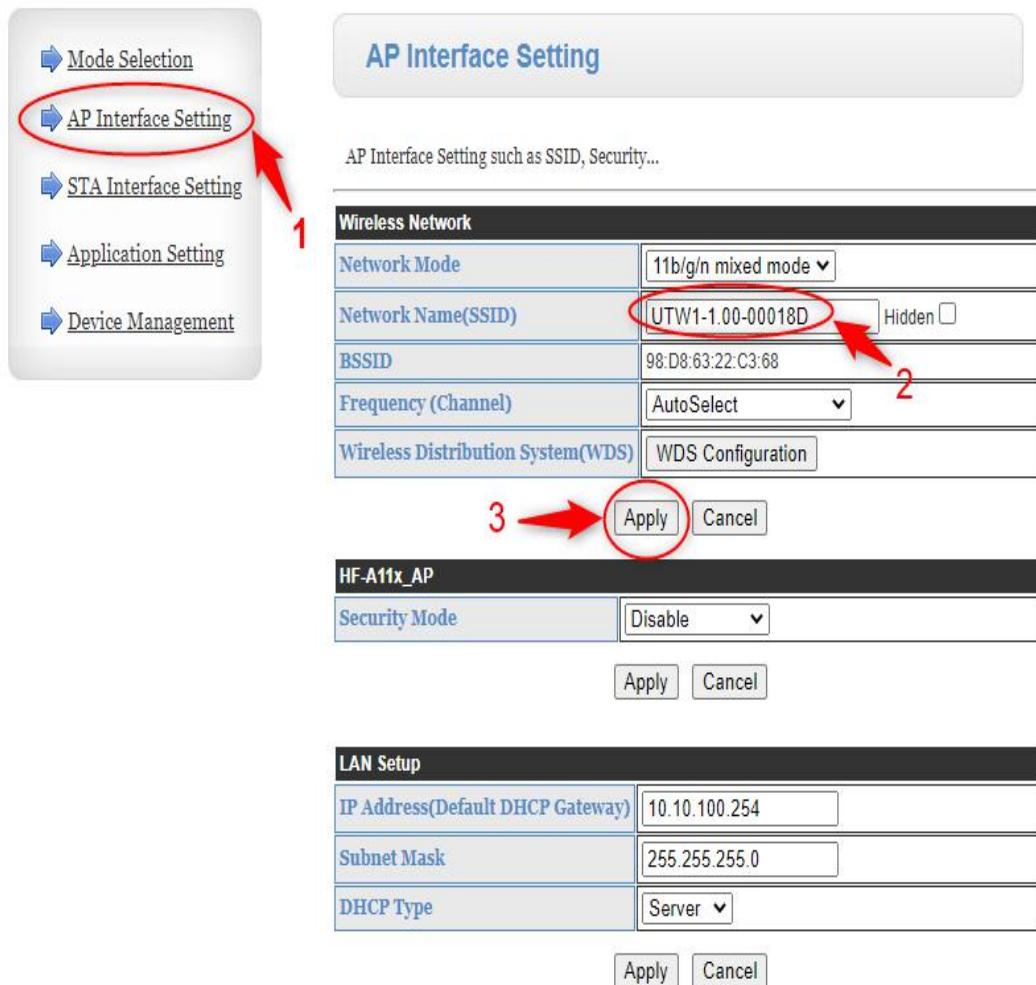


Figure 35

c. Wireless terminal settings (as shown in Figure 36)

1. Click "Wireless Terminal Settings" in the left column.
2. Click "Search" to search for WiFi hotspots in the LAN, select a WiFi hotspot and fill in the password to connect to the LAN 1.
3. Encryption mode, select Default, or the mode you need.
4. Fill in the password for accessing the WiFi hotspot.
5. Press "OK" to save the IP address settings of the configuration parameter module (select "Static Fixed IP").
6. Set the IP address (this IP address is used when accessing the Internet).
7. Set the subnet mask (consistent with the mask in LAN 1).
8. Set the gateway of the LAN (consistent with the mask in LAN 1).
9. Press "OK" to save the configuration parameters.

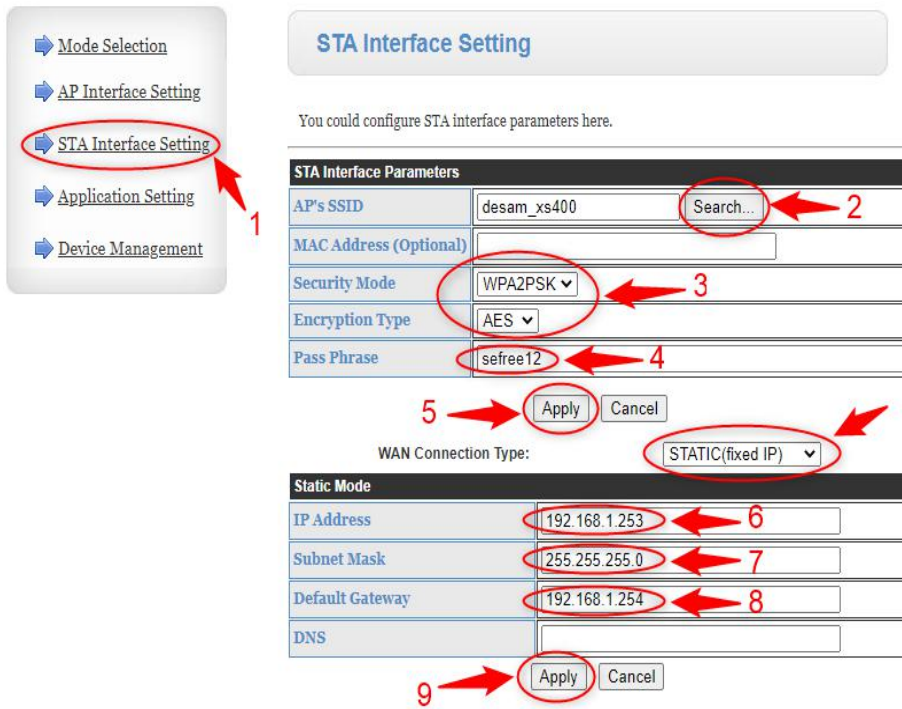


Figure 36

d. Serial port and other settings (as shown in Figure 37)

1. Click "Serial Port and Other Settings" in the left column.
2. Select "server" as the network mode (the purpose of setting it as server is to set the device as a server).
3. Press "OK" to save the configuration parameters.

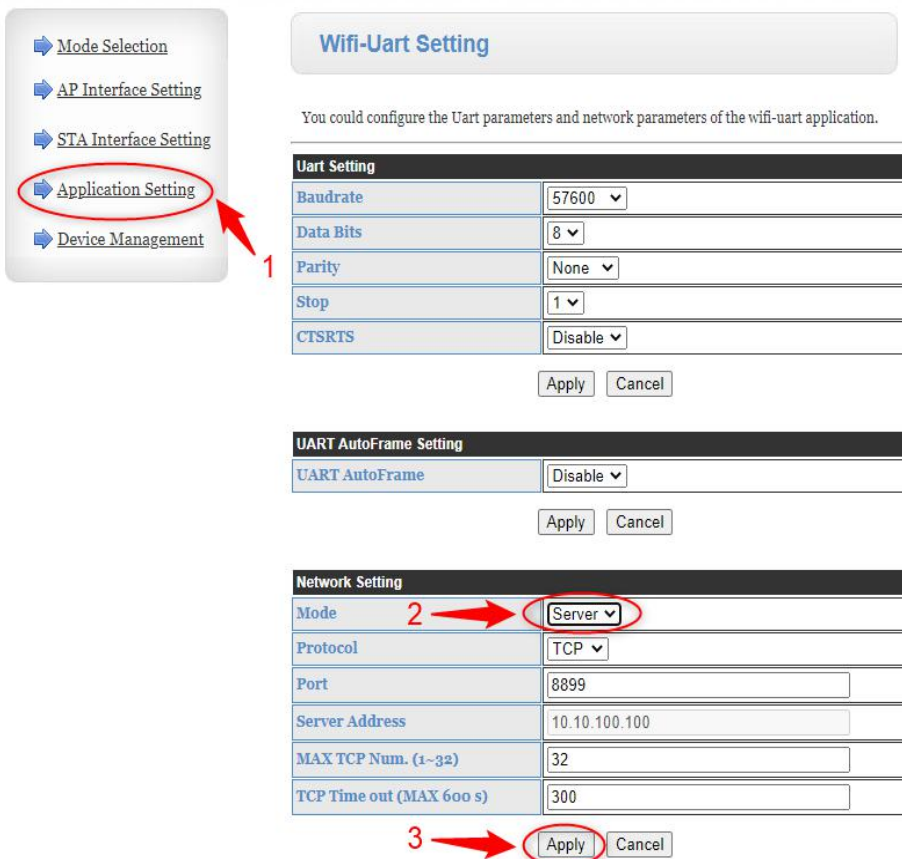


Figure 37

e. Module management settings (Figure 38 below)

1. Click "Module Management" in the left column.
2. Press "Restart" to update and take effect the parameters set in the first few steps.

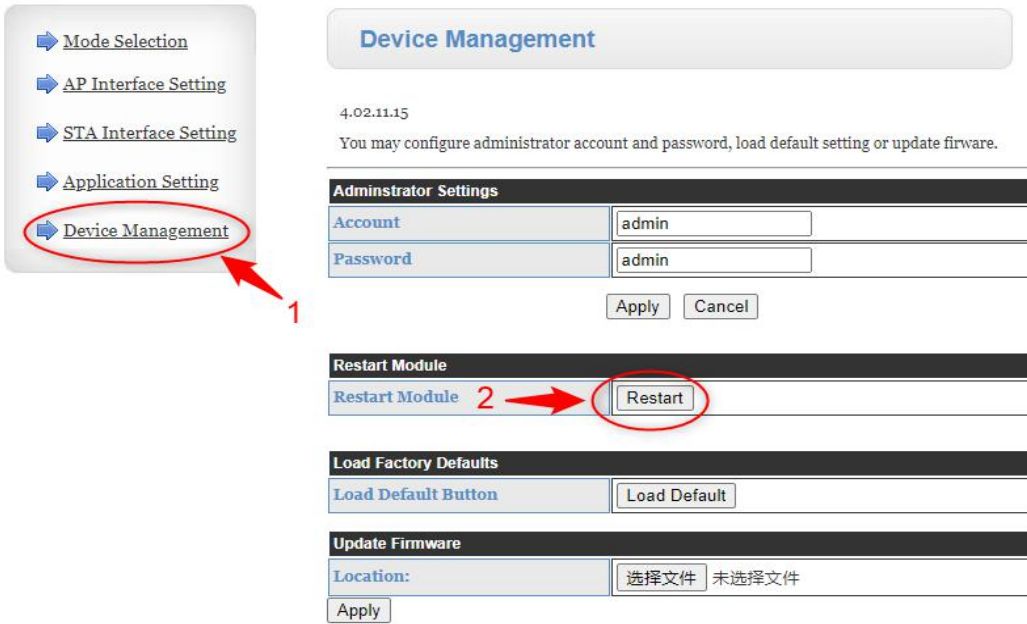


Figure 38

II. Settings of wifi module to access the Internet

Open the web browser and enter the gateway of the router connected to the Internet in the address bar: for example: fill in 192.168.1.1 to enter the router setting interface.

Because the router has a firewall, computers outside the Internet generally cannot directly access the devices in LAN 1. It is necessary to open an IP address on the router, and the DMZ controller of the router supports this function.

(DMZ is short for "demilitarized zone" in English. It is set up to solve the problem that users from the external network cannot access the internal network server after the firewall is installed. It is a buffer zone between a non-secure system and a secure system.)



Figure 39

DMZ controller settings:

As shown in Figure 40, DMZ status: select "Enable",

DMZ controller IP address: fill in the static IP of the external wifi to access the LAN (the IP address in Figure 26) to save the parameter settings.



Figure 40

To find the IP address of the LAN to the Internet, click "Operation Status" in the left column (Figure 41 below).

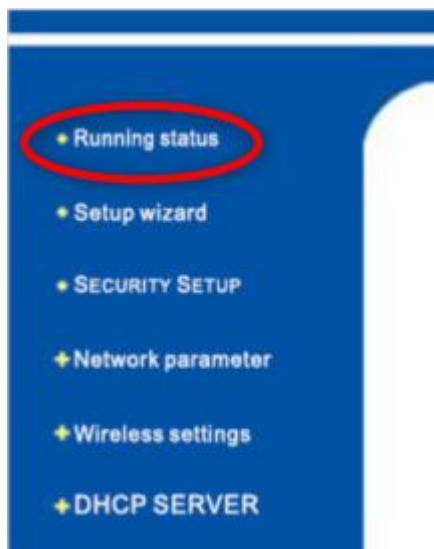


Figure 41

As shown in the figure below, write down the IP address of the LAN to the Internet.

(Note: This IP address must be a public IP. Open the website www.ip138.com, and you can find that your IP address is the same as your router's external IP address, and then your IP address is the public IP.).

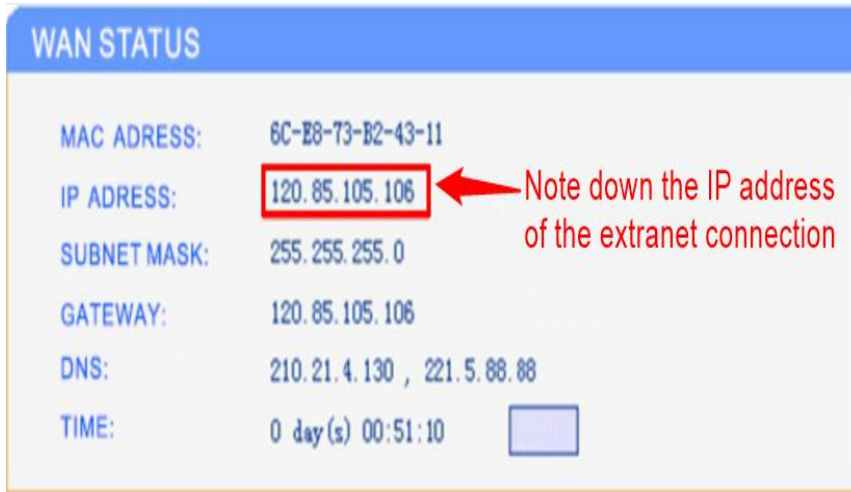


Figure 42

III. Use software to connect to the device via the Internet

Open the software and click Connect, as shown in the figure below. In the network connection, fill in the Internet IP address of the previous device (this tutorial is the ip address in the above figure)

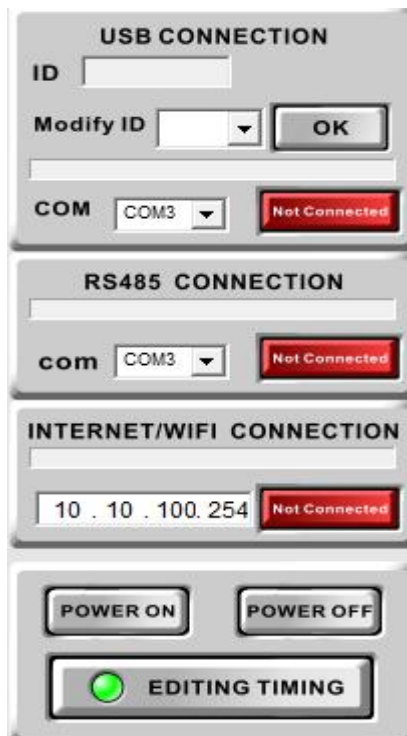


Figure 43

Click Connect, the following figure appears, which means the connection is successful, and you can adjust the parameters of the device.



Figure 44

1.8 How to query the port

1.8.1 Windows XP system port query

Open "Device Management" and enter as follows:

Right click on My Computer on the desktop to pop up the following window (see Figure 45 below).

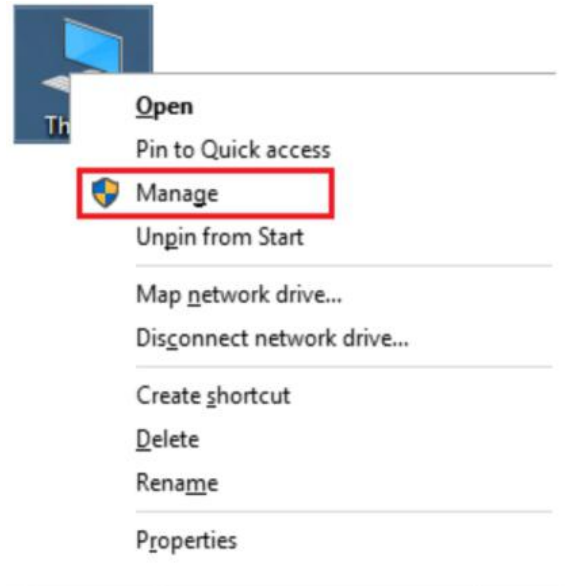


Figure 45

At this time, left click [Attributes], and the system attributes window will pop up(Figure 46 below).



Figure 46

Click [Device Manager] to appear a window(as shown in Figure 47), and you can view the corresponding port.

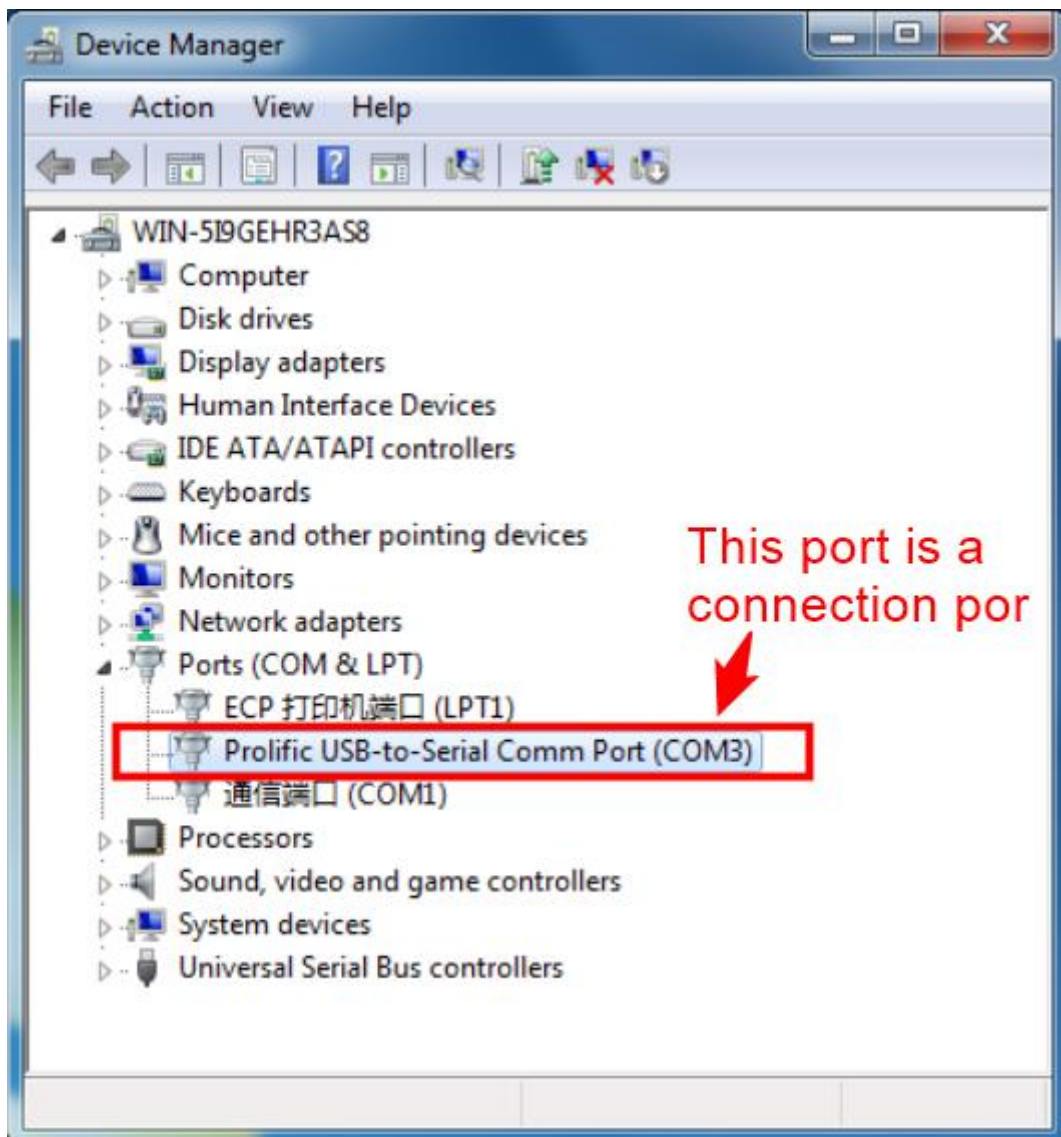


Figure 47

1.8.2 Windows 7 system port query

Right click on My Computer on the desktop to pop up the following window (Figure 48 below).

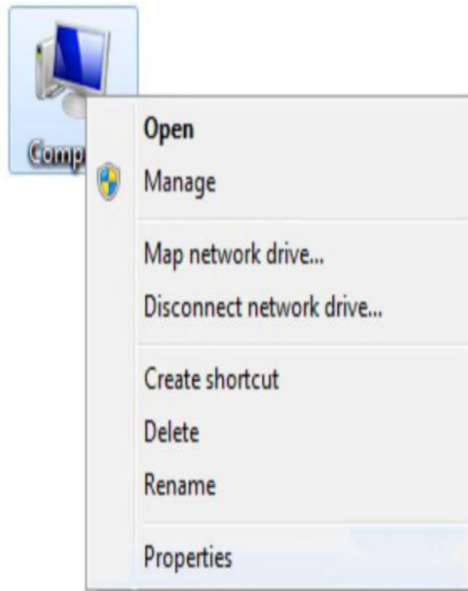


Figure 48

At this time, left click [Attributes], and the system attributes window will pop up again (Figure 49 below).

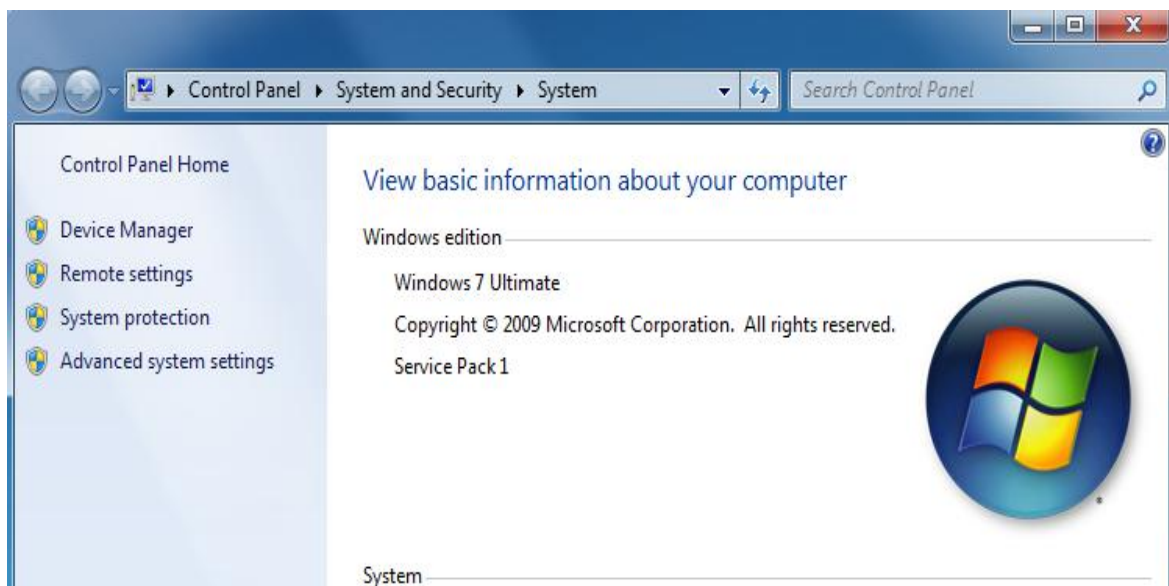


Figure 49

Click [Device Manager] to appear a window (as shown in Figure 50), and you can view the corresponding port.

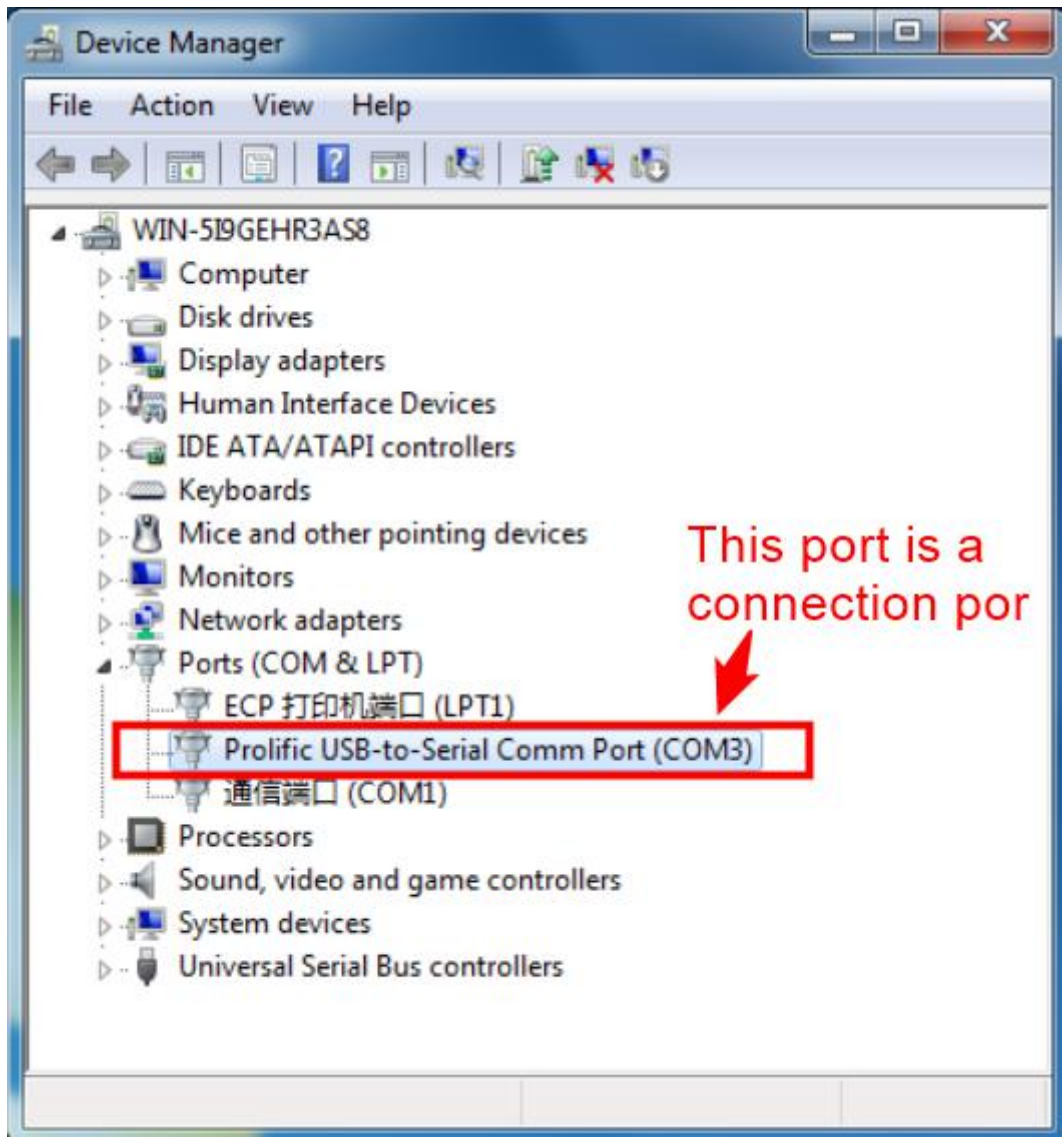


Figure 50

1.9 How to query and modify related parameters

1.9.1 How to modify the IP address in AP mode

For example: modify the IP address of the device to 192.168.1.2.

Step 1: Connect the device through the first or second method of network connection, and then enter the IP address of the device in the address bar of the IE browser (the factory default IP address of the device is 10.10.100.254). As shown in Figure 51.



Figure 51

Press Enter, and the following dialog box appears.



Figure 52

Step 2: Enter the user name: admin and password: admin and press Enter to enter the configuration interface of the web page, as shown in Figure 53 below.

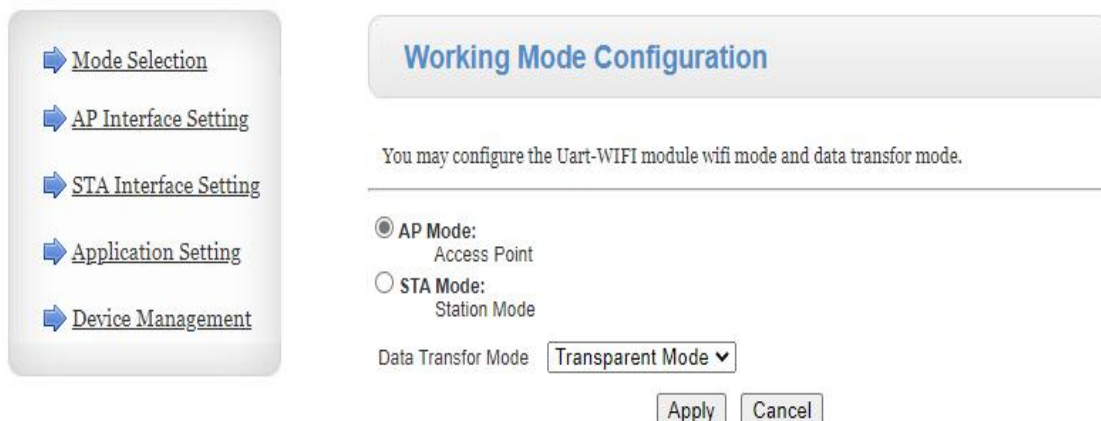


Figure 53

Step 3: Click [Wireless Access Point Settings] on the above interface, as shown in Figure 54 below.

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

Working Mode Configuration

You may configure the Uart-WIFI module wifi mode and data transfer mode.

AP Mode:
Access Point

STA Mode:
Station Mode

Data Transfer Mode Transparent Mode ▾

Figure 54

Step 4: Click [Wireless Access Point Settings] on the above interface to enter the following interface.

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

AP Interface Setting

AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	UTW1-1.00-00018D <small>Hidden <input type="checkbox"/></small>
BSSID	98:D8:63:22:C3:68
Frequency (Channel)	AutoSelect ▾
Wireless Distribution System(WDS)	<input type="button" value="WDS Configuration"/>

HF-A11x_AP	
Security Mode	Disable ▾

LAN Setup	
IP Address(Default DHCP Gateway)	10.10.100.254
Subnet Mask	255.255.255.0
DHCP Type	Server ▾

Figure 55

Step 5: After modifying the IP address in the "IP address" column under "LAN parameter settings" shown in Figure 55 above (the IP address ranges from 0.0.0.0~255.255.255.255), continue to follow the network name modification steps to complete the modification of the IP address. And then click [OK] as shown in Figure 56 below.

AP Interface Setting

AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▼
Network Name(SSID)	UTW1-1.00-00018D <input type="checkbox"/> Hidden
BSSID	98:D8:63:22:C3:68
Frequency (Channel)	AutoSelect ▼
Wireless Distribution System(WDS)	WDS Configuration

Apply Cancel

HF-A11x_AP	
Security Mode	Disable ▼

Apply Cancel

LAN Setup	
IP Address(Default DHCP Gateway)	10.10.100.254
Subnet Mask	255.255.255.0
DHCP Type	Server ▼

Apply Cancel

Figure 56

Step 6: Click [OK] to enter the interface as shown in Figure 57 below.

Set Successfully, Restart to use new setting.

Restart button in Device Management

- Mode Selection
- AP Interface Setting
- STA Interface Setting
- Application Setting
- Device Management

Figure 57

Step 7: click "Module Restart" in Figure 57 above, enter the interface shown in Figure 58 below.

Mode Selection

AP Interface Setting

STA Interface Setting

Application Setting

Device Management

Device Management

4.02.11.15

You may configure administrator account and password, load default setting or update firmware.

Administrator Settings	
Account	admin
Password	admin

Apply Cancel

Restart Module	
Restart Module	Restart

Load Factory Defaults	
Load Default Button	Load Default

Update Firmware	
Location:	选择文件 未选择文件

Apply

Figure 58

Restart the device and the IP address of the device is now changed to 192.168.1.2.

1.9.2 How to modify the IP address in Station mode

The following is an example of changing the IP address to 192.168.1.2.

Step 1: After connecting the device through any of the network connection methods, enter the IP address of the device whose IP address needs to be modified in the address bar of the IE browser or My Computer (the factory default IP address of the device is 10.10.100.254) As shown in Figure 59 below.



Figure 59

Press Enter and the following dialog box appears.



Figure 60

Step 2: Enter user name: admin and password: admin. Press Enter to enter the configuration interface of the web page, as shown in Figure 61 below.

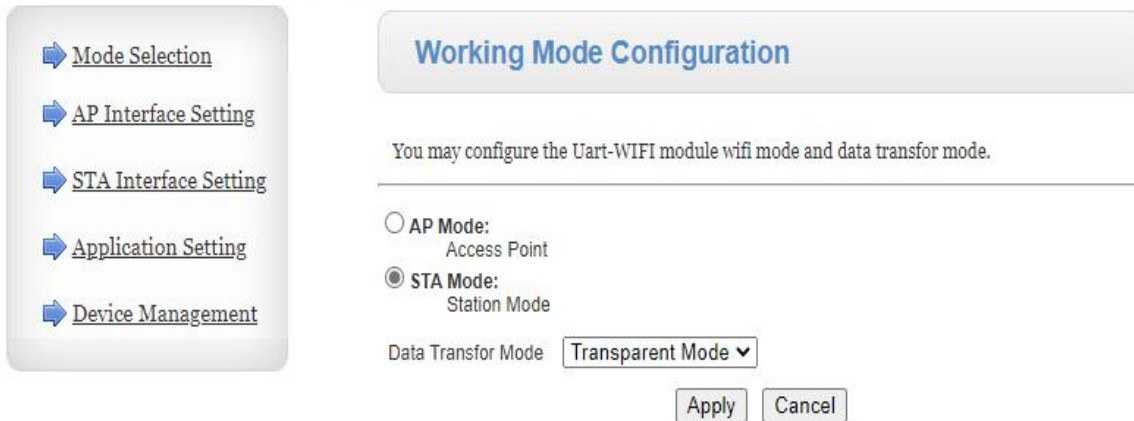


Figure 61

Step 3: Click [Wireless Terminal Settings] to enter the interface shown in Figure 62 below.

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

STA Interface Setting

You could configure STA interface parameters here.

STA Interface Parameters	
AP's SSID	desam_xs400 <input type="text" value="Search..."/>
MAC Address (Optional)	<input type="text"/>
Security Mode	WPA2PSK ▼
Encryption Type	AES ▼
Pass Phrase	<input type="text"/>

WAN Connection Type: STATIC(fixed IP) ▼

Static Mode	
IP Address	<input type="text" value="192.168.1.253"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.1.254"/>
DNS	<input type="text"/>

Figure 62

Step 4: Select "Fixed (Static IP)" in the above "Module IP Address Settings" (if it is already "Fixed (Static IP)", do not select it), as shown in Figure 63.

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

STA Interface Setting

You could configure STA interface parameters here.

STA Interface Parameters	
AP's SSID	desam_xs400 <input type="text" value="Search..."/>
MAC Address (Optional)	<input type="text"/>
Security Mode	WPA2PSK ▼
Encryption Type	AES ▼
Pass Phrase	<input type="text"/>

WAN Connection Type: STATIC(fixed IP) ▼

Static Mode	
IP Address	<input type="text" value="192.168.1.253"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.1.254"/>
DNS	<input type="text"/>

Figure 63

Step 5: After selecting "Fixed (Static IP)", enter the following interface shown in figure 64.

- [Mode Selection](#)
- [AP Interface Setting](#)
- [STA Interface Setting](#)
- [Application Setting](#)
- [Device Management](#)

STA Interface Setting

You could configure STA interface parameters here.

STA Interface Parameters	
AP's SSID	desam_xs400 <input type="text" value="Search..."/>
MAC Address (Optional)	<input type="text"/>
Security Mode	WPA2PSK ▼
Encryption Type	AES ▼
Pass Phrase	<input type="text"/>

WAN Connection Type: STATIC(fixed IP) ▼

Static Mode	
IP Address	<input type="text" value="0.0.0.0"/>
Subnet Mask	<input type="text" value="0.0.0.0"/>
Default Gateway	<input type="text" value="0.0.0.0"/>
DNS	<input type="text"/>

Figure 64

Step 6: Configure the corresponding parameters in the dialog box shown in Figure 65 below. Enter the IP address (IP address ranges from 0.0.0.0~255.255.255.255) in the same network segment as the router. For example, if the router IP address is 192.168.1.1, the device IP address can be from 192.168.1.0 to 192.168.1.255, except for the IP address of the router; the IP address of each device should be different (for example, if the IP address of device 1 is set to 192.168.1.2, then the IP address shown in Figure 65 can be used). Enter 255.255.255.0 in "Subnet Mask" column, and enter router IP address 192.168.1.1 in "Gateway Settings" column, and then click "OK". Configure Equalizer 2 and enter 192.168.1.3.

WAN Connection Type: STATIC(fixed IP) ▼

Static Mode	
IP Address	<input type="text" value="192.168.1.2"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.1.1"/>
DNS	<input type="text"/>

Figure 65

Step 7: Click [OK] and restart the wifi module. After the restart is completed, the IP address is successfully modified.

1.9.3 How to query device IP address

1.9.3.1 How to query the device IP address in AP mode

In AP mode, how to query the IP address of the Windows XP device.



Step 1: Click the wired mode icon  /wireless mode icon  at the bottom right of the screen, and the following dialog box will pop up.



Figure 66

Step 2: Click "Support" on Figure 66 above to enter the following interface, where the red box shows the IP address of the device, 10.10.100.254.

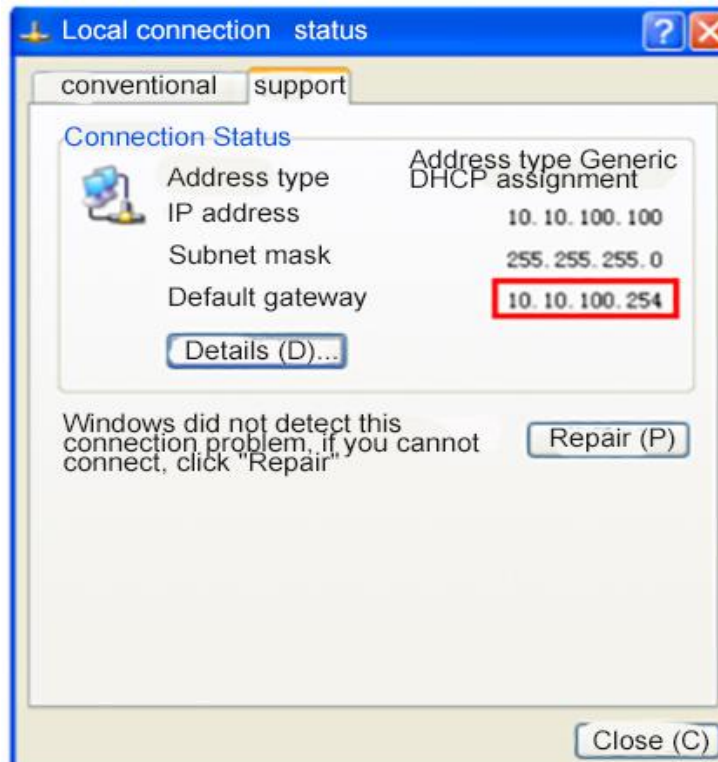




Figure 67

In AP mode, how to query the IP address of the windows 7 device.

Step 1: Click the wired mode icon  /wireless mode icon  at the bottom right of the screen, and the following dialog box will pop up.

Step 2: Click "Open Network and Sharing Center" as shown in the above picture (in the red box), and the following figure 68 will pop up.

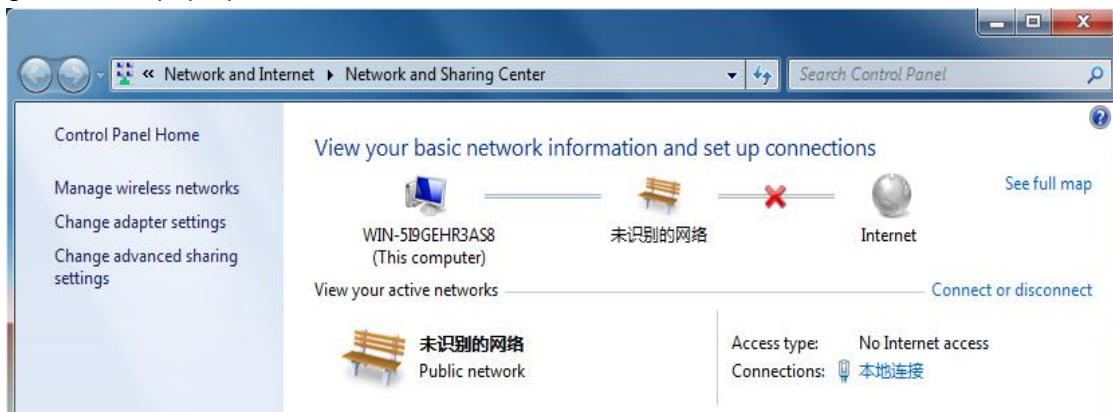


Figure 68

Wireless connection

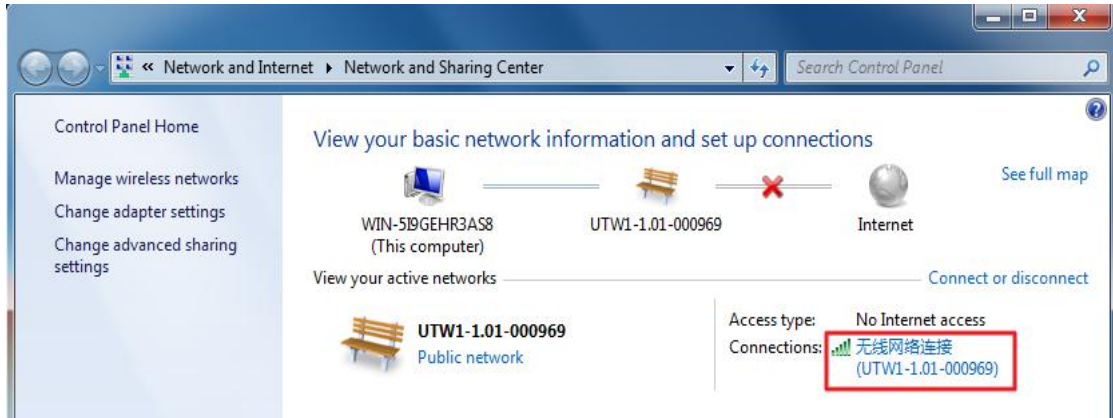


Figure 69

Step 3: Click the position of the red box in the above figure, and the following dialog box will pop up:

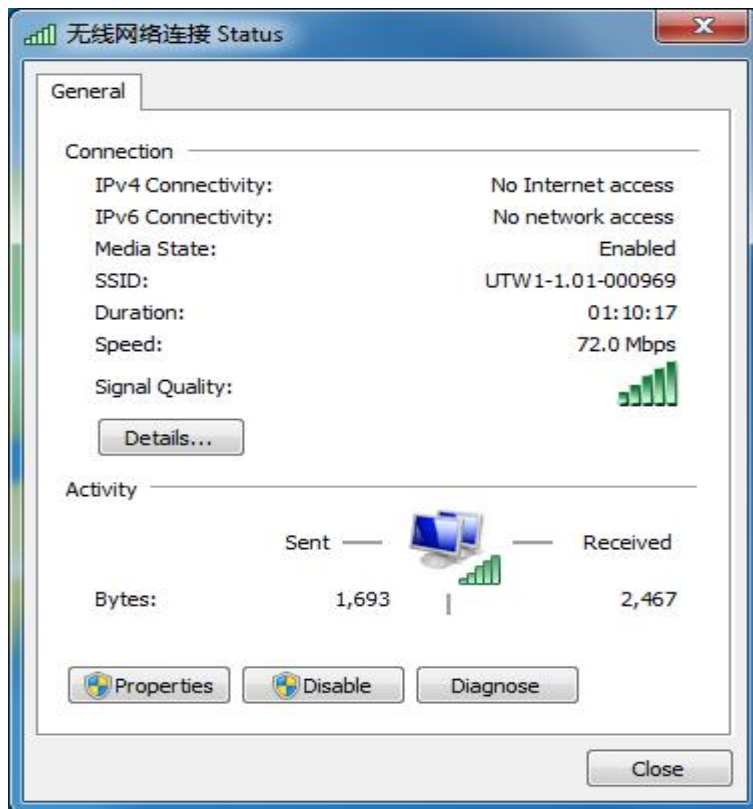


Figure 70

Step 4: Click "Details (E)..." in the figure above (in the red box), the following dialog box will pop up, where the red box displays the device IP address, 10.10.100.254.

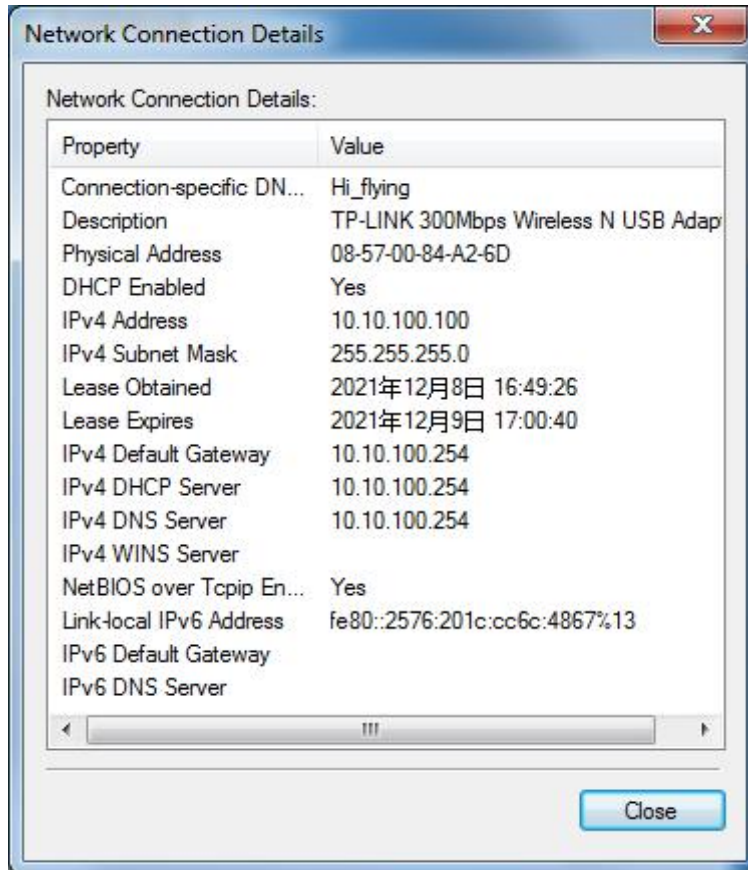


Figure 71

1.9.3.2 How to query the device IP address in Station mode

The IP address in Station mode is assigned by the router, and the IP address is not the IP of the wifi module itself; it needs to be checked in the wifi module setting interface. The specific checking method is as follows:

Refer to 1.6 How to Connect the Network: The first method is to connect the device, refer to the above How to query the IP address in AP mode, and query the IP address of the wifi module itself, 10.10.100.254.

Step 1: Enter the queried IP address in the address bar of IE browser or My Computer as shown in the figure below.

Note: Please check whether the device is successfully connected to the computer before modifying the IP address.



Figure 72

Step 2: Enter the user name: admin and password: admin, press Enter to enter the configuration interface of the web page, find the interface as shown in the figure below, and the IP address in the red box is the IP address of the machine in Station mode: 192.168.1.2.

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

STA Interface Setting

You could configure STA interface parameters here.

STA Interface Parameters	
AP's SSID	HF-A11x_AP <input type="text" value="Search..."/>
MAC Address (Optional)	<input type="text"/>
Security Mode	OPEN ▾
Encryption Type	NONE ▾

WAN Connection Type: STATIC(fixed IP) ▾

Static Mode	
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS	<input type="text"/>

Figure 73

1.9.4 How to exchange Station mode and AP mode

Take a network cable to connect one end to the computer and the other end to the WiFi module. And open the web browser and enter 10.10.100.254 in the address bar to enter the WiFi module setting interface. The default user is admin, the default password is admin, and then log in.

Find "Mode Selection" and select the mode you want (as shown in Figure 74)

- ➔ [Mode Selection](#)
- ➔ [AP Interface Setting](#)
- ➔ [STA Interface Setting](#)
- ➔ [Application Setting](#)
- ➔ [Device Management](#)

Working Mode Configuration

You may configure the Uart-WIFI module wifi mode and data transfer mode.

AP Mode:
 Access Point

STA Mode:
 Station Mode

Data Transfer Mode: Transparent Mode ▾

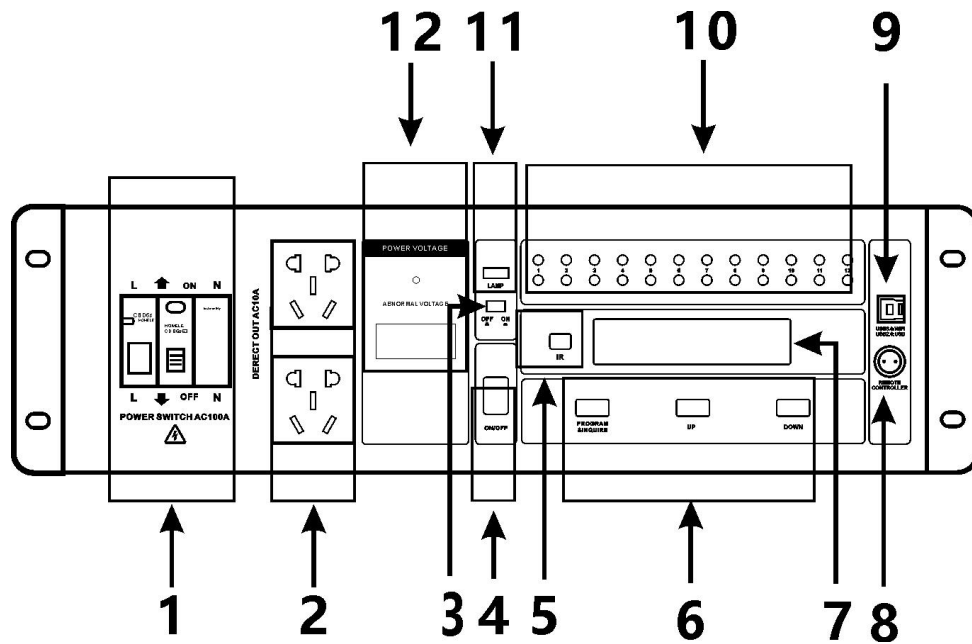
Figure 74

Part 2: How to operate the device

2.1 Feature

- ✧ The rear panel is designed with 12 national standard power sockets, of which there are 6 10A and 6 16A sockets, and the total output does not exceed 40A; each channel is independent with high performance, using RFI/EMI power filters to provide clean and stable power supply.
- ✧ The front panel is designed with 2 normally open 10A power sockets.
- ✧ Use 3-core single-phase power wiring interface.
- ✧ Support a digital voltage indication function, indicating the grid voltage in real time.
- ✧ Support password lock function to better protect on-site installation and performance, avoiding accidental touch.
- ✧ Support channel delay editing function, and support setting the delay time of channels.
- ✧ Integrated RS485 remote control function, support various control methods such as USB, RS485, RS232, WIFI (optional), remote Internet control (optional).
- ✧ Support Timed on/off task, and the timed duration can be set up to 12 months. The device adopts 32-bit ARM processor control, making the time more accurate and the performance more stable.
- ✧ Support cascading of multiple power sequencers (same type) through LINK IN and LINK OUT network ports; support setting the device address code through the buttons on the front panel.
- ✧ Support under voltage/over voltage detection and alarm function.
- ✧ The LCD intuitive operation interface quickly and accurately displays the operation status and operation results of the device.
- ✧ Equipped with a USB lamp holder; when it is switched on, you can plug in the USB lamp, which is convenient for operation in low light conditions.
- ✧ Support infrared learning/emission control function, connect external infrared emission stick, control the projector to turn on or off when the channel is turned on or off.
- ✧ Support turning off the power of a certain output channel through the hardware emergency switch.

2.2 Front panel



- 1. Power switch
Power switch with leakage protection.
- 2. Power socket
As soon as the device is powered on, there is a power output, and each supports a maximum current of 16A or 10A.
- 3. DJ light control button
Press ON to turn on the DJ light, and press OFF to turn off the DJ light.
- 4. Sequential switch
Long press: Press and hold the button for 2 seconds, the output channels are turned on in the order of (1-12); when they are turned off, they are turned off in the order of (12-1).
Short press: Short press the sequential switch to enter the individual control interface of (1-6) single output channel, short press the sequential switch twice to enter the individual control interface of (7-12) single output channel, short press PROGRAM&INQUIRE to turn on and off the channel switch; short press "UP" to select the previous channel, short press "DOWN" to select the next channel, and short press the sequential switch three times to return to the main interface.
- 5. Infrared learning window
For learning infrared remote control
- 6. Program setting button
Long press PROGRAM&INQUIRE once, the LCD displays the ID setting; long press PROGRAM&INQUIRE twice, the LCD displays the setting interface of year, month, date and time; long press PROGRAM&INQUIRE three times, the LCD displays the IP address; long press PROGRAM&INQUIRE four times, the LED displays the maximum voltage limit (exceeding the voltage limit

will affect normal use); long press PROGRAM&INQUIRE five times, the LED displays the minimum voltage limit (only exceeding the voltage limit can realize normal use); long press PROGRAM&INQUIRE six times, the LED displays the voltage calibration interface. Press "UP" and "DOWN" to modify the value. Long press PROGRAM&INQUIRE seven times, the LED displays the device version and model.

➤ 7. LCD display

The display shows ID, year, month, date, time, IP address, maximum voltage limit, minimum voltage limit, voltage calibration, version and model, and output channel individual control.

➤ 8. Long-distance control aviation socket

➤ 9. USB/WIFI connection socket

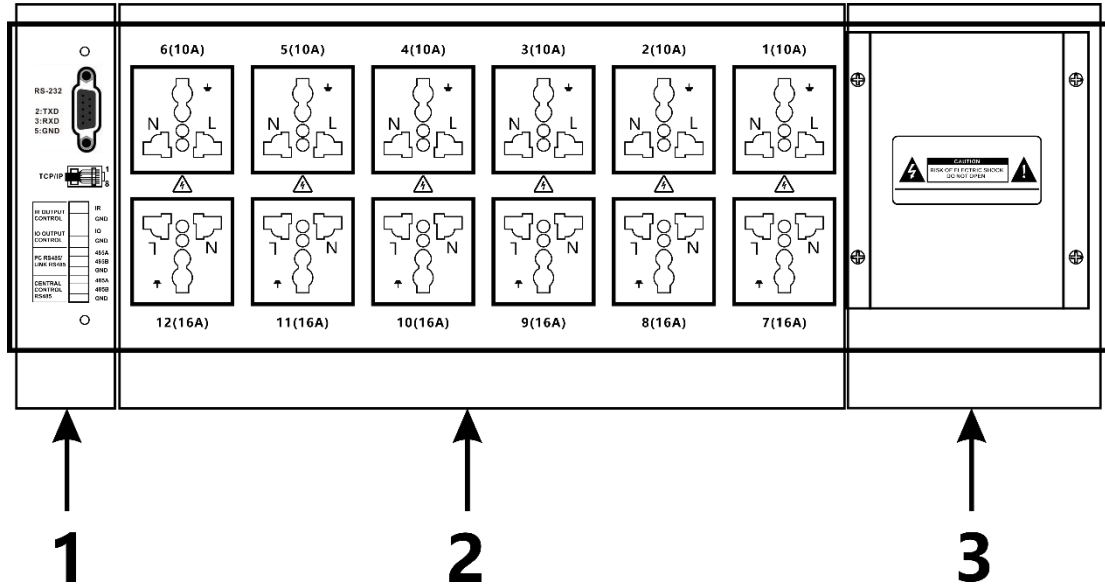
➤ 10. Emergency channel status indicator

➤ 11. DJ light connection socket

➤ 12. Power supply and voltage indication

Input and output power supply and voltage indication. The alarm lamp will light up if the voltage exceeds the maximum limit or is lower than the minimum limit.

2.3 Rear panel



- 1. Central control 232/TCP IP/cascade/central control 485 connection serial port/infrared emission port
- 2. Twelve power output sockets
- 3. Power input connector

2.4 Specification

Model	T-6412P
Working voltage	Single phase 220V
Working frequency	50Hz/60Hz(±5%)
Power input	Connect to single-phase 3-core connector, 3-core 100A cable input
Power control	Single-phase 2-core 100A air switch, support current limit and short circuit protection
Voltage display	LCD display
Control interface	TCP, IP, WIFI, RS485, RS232, external (remote) control
Sequential channel	12 independently controlled sequential channels (6 10A sockets, 6 16A sockets)
Output current	1-6 channels, maximum current 10A; 7-12 channels, maximum current 16A
Power output	The total output does not exceed 40A
Sequential interval	1-999 seconds, can be set and changed by yourself
Sequential switch	PC software lock, can be turned off
Grounding resistance	$R \ll 100M\Omega$
Power filter	12 channels, and each channel has a separate power filter

Product size	482×403×132mm (W×D×H)
Packaging size	1PC: 602×532×230mm/0.0736mm ³ (W×D×H)
Net weight	8.5kg
Gross weight	9.7kg
Installation height	3U

2.5 Menu setting

The panel is shown in Figure 1 below:

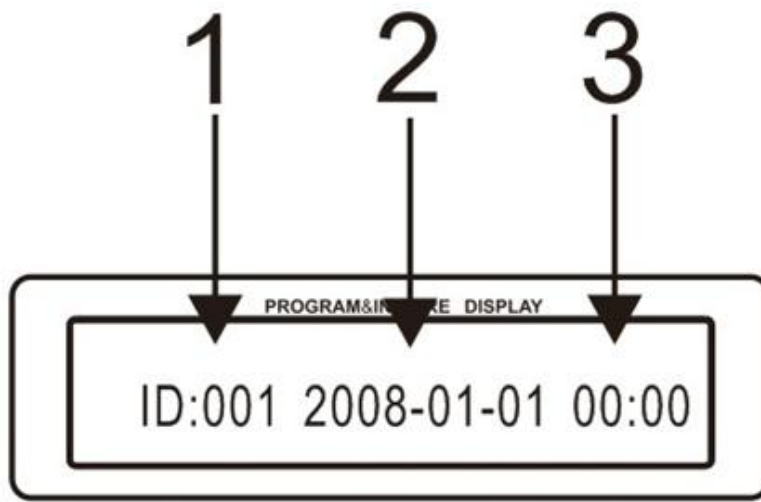


Figure 1

2.5.1. ID setting

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INQUIRE" once to make the LCD flash and enter the ID setting state (ID SET);

Step 3: Press "UP" to increase the ID value, and press "DOWN" to decrease the ID value. As long as the ID value is flashing, the modified ID value can be saved.

2.5.2 Year, month, date, time setting

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INQUIRE" twice (long press "PROGRAM&INQUIRE" once, the LCD flashes and enters the ID setting state, and then long press "PROGRAM&INQUIRE" again to make the LCD flash and enter the setting state of year, month and date (TIME SET));

Step 3: When LCD is flashing "Year", press "UP" to increase the value, and press "DOWN" to decrease the value;

Step 4: Short press "PROGRAM&INOUIRE" to make the LCD switch from "Year" to "Month", press "UP" to increase the month value, and press "DOWN" to decrease the month value;

Step 5: Short press "PROGRAM&INOUIRE" to make the LCD switch from "Month" to "Date", press "UP" to increase the date value, and press "DOWN" to decrease the date value;

Step 6: Short press "PROGRAM&INOUIRE" to make the LCD flash and enter the time setting;

Step 7: LCD is flashing "Hour", press "UP" to increase the hour value, and press "DOWN" to decrease the hour value;

Step 8: Short press "PROGRAM&INOUIRE" to make the LCD switch from "Hour" to "Minute", press "UP" to increase the value, and press "DOWN" to decrease the value;

Step 9: Short press "PROGRAM&INOUIRE" to make the LCD switch from "Minute" to "Second", and press "UP" and "DOWN" to return to 0.

2.5.3. IP setting

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INOUIRE" three times (long press "PROGRAM&INOUIRE" once, the LCD flashes and enters the ID setting state, and then long press "PROGRAM&INOUIRE" again to make the LCD enter the setting state of year, month and date, and then press "PROGRAM&INOUIRE" once to make the LCD flash and enter IP setting (IP SET));

Step 3: Short press "PROGRAM&INOUIRE" to make the LCD switch to other IP values; for the flashing IP value, press "UP" to increase the value, and press "DOWN" to decrease the value;

Step 4: After modifying the IP value, long press "PROGRAM&INOUIRE" to save the value and return to the menu.

2.5.4. Over-limit prompt: set the maximum voltage limit

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INOUIRE" -> "ID setting state", long press "PROGRAM&INOUIRE" -> "Year, month, date setting", and repeat this operation until you enter the maximum voltage limit setting "Abnormal voltage max";

Step 3: Press "UP" to increase the voltage value when the LCD is flashing, and press "DOWN" to decrease the voltage value. After increasing or decreasing the value, you can press and hold "PROGRAM&INOUIRE" to edit the next function.

2.5.5. Over-limit prompt: set the minimum voltage limit

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INOUIRE" -> "ID setting state", long press "PROGRAM&INOUIRE" -> "Year, month, date setting", and repeat this operation until you enter the minimum voltage limit setting "Abnormal voltage min";

Step 3: Press "UP" to increase the voltage value when the LCD is flashing, and press "DOWN" to decrease the voltage value. After increasing or decreasing the value, you can press and hold "PROGRAM&INOUIRE" to edit the next function.

2.5.6. Voltage calibration settings

Step 1: Power on the device;

Step 2: Long press "PROGRAM&INOUIRE" -> "ID setting state", long press "PROGRAM&INOUIRE" -> "Settings of year, month and date", and repeat this operation until you enter the voltage calibration interface "Calibration voltage";

Step 3: Def is the default reference voltage, which cannot be modified; New can be edited and input with the value to calibrate the voltage. Press "UP" to increase the voltage value when the LCD is flashing, and press "DOWN" to decrease the voltage value. After increasing or decreasing the value, the modification is completed.

2.6 Wiring method for remote control

The device power sequencer can be turned on and off by the remote control interface buttons.

The wiring diagram is shown in Figure 1 below:

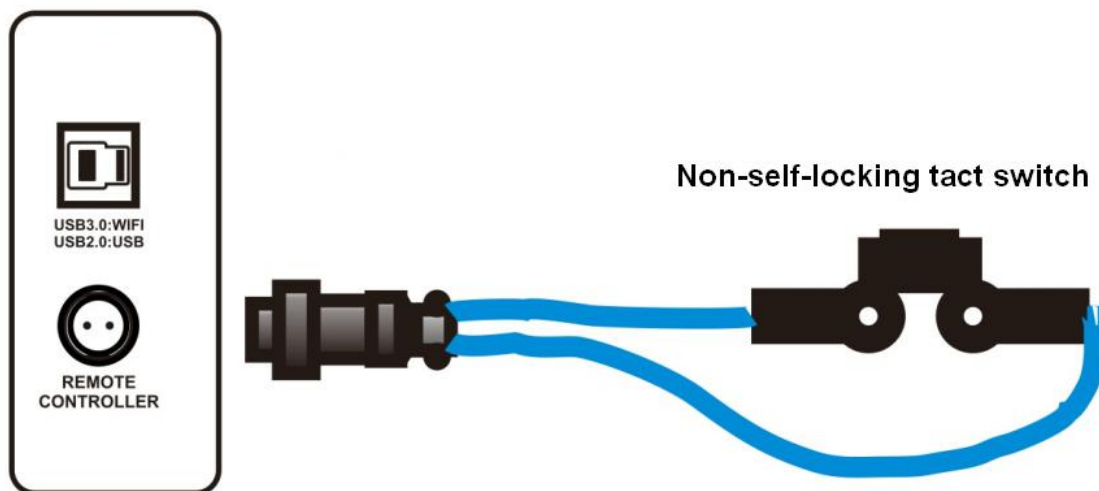


Figure 1

Part 3: Installation and use of PC software

The first time you use this device, you need to install a USB driver program and PC control software.

3.1 Installation of USB driver

Find the CD that came with it and put it in the CD drive of your computer.

Open the CD-ROM drive and the folder "Application" in the CD-ROM drive (see Figure 2 below)



名称	修改日期	类型	大小
Application	2012/8/3 15:47	文件夹	

Figure 2

Open the folder "USB_Driver" in the copied folder "Application", find the "USB_Driver" file (as shown in Figure 3), double-click to run it and install the USB driver.



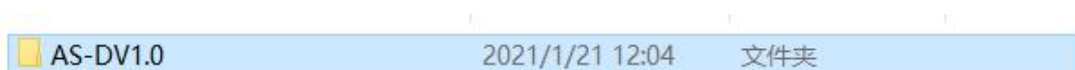
Figure 3

(Hint: USB driver installation does not require any settings; just press "Next" until the installation is completed)

3.2 Software installation

Find the CD that came with it and put it in the CD drive of your computer.


Open the CD-ROM drive and the folder "Application", and copy "AS-DV1.0" (here version 1.0) in the folder to any place on the computer (see Figure 4 below).



AS-DV1.0	2021/1/21 12:04	文件夹
----------	-----------------	-----

Figure 4

Open the "AS-DV1.0" software in the copied folder "AS-DV1.0" (Figure 5 below), and double-click to run the software.



AS-DV1.0.exe	2020/1/13 11:11	应用程序	34,173 KB
--------------	-----------------	------	-----------

Figure 5

3.3 Software connection



Figure 6

1. For the connection between PC and device, please refer to "Part 1: How to connect the device".

3.4 Troubleshooting

(1) A problem with one of the computer, USB cable and the device will cause the single device to fail to connect

(2) If multiple devices cannot be connected, there may be a problem with the 485 converter

(3) Possible problems with the computer:

a. The USB port is damaged, please replace it before connection.

b. The COM port cannot be detected, which means that the USB driver is not installed correctly. Please reinstall the USB driver before connection.

c. The computer software does not start normally, please turn off the software, and restart the software before connection.

d. There is a problem with the computer system. Please reinstall the system or replace it before connection.

(4) Possible problems with the USB cable:

a. The USB plug is damaged, please replace the USB cable and connect again.

b. The USB port is not detected, please unplug the USB cable, and plug it again before connection.

(5) Possible problems with the device:

a. The device does not start, please turn on the device and connect again.

b. The device is still in the process of starting and has not entered the normal working state. Please wait for the device to work normally.

c. The USB port of the device is faulty, please apply for maintenance.

(6) Possible problems with the 485 converter:

a. There is an error in the connection of the network cable from the 485 converter to the device. Please replace the network cable before connection.

b. The 485 converter is damaged, please replace the 485 converter before connection.

(7) Possible problems when the wifi module signal is not searched:

a. Check whether the wireless mode is AP mode.

As for the modification method, please refer to "1.8.1.4 How to exchange Station mode and AP mode".

3.5 Software interface operation

3.5.1 Connecting the software to the PC and modifying the ID via software



Figure 7

1. How to connect the PC software.

Please refer to Part 1 How to connect the device.

2. Modify the device ID via software .

Step 1: Connect the device and PC via USB.

Step 2: Modify the ID value and click OK, as shown in Figure 8 below.

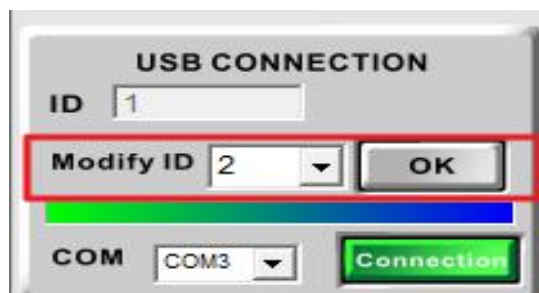


Figure 8

3.5.2 Introduction to software function

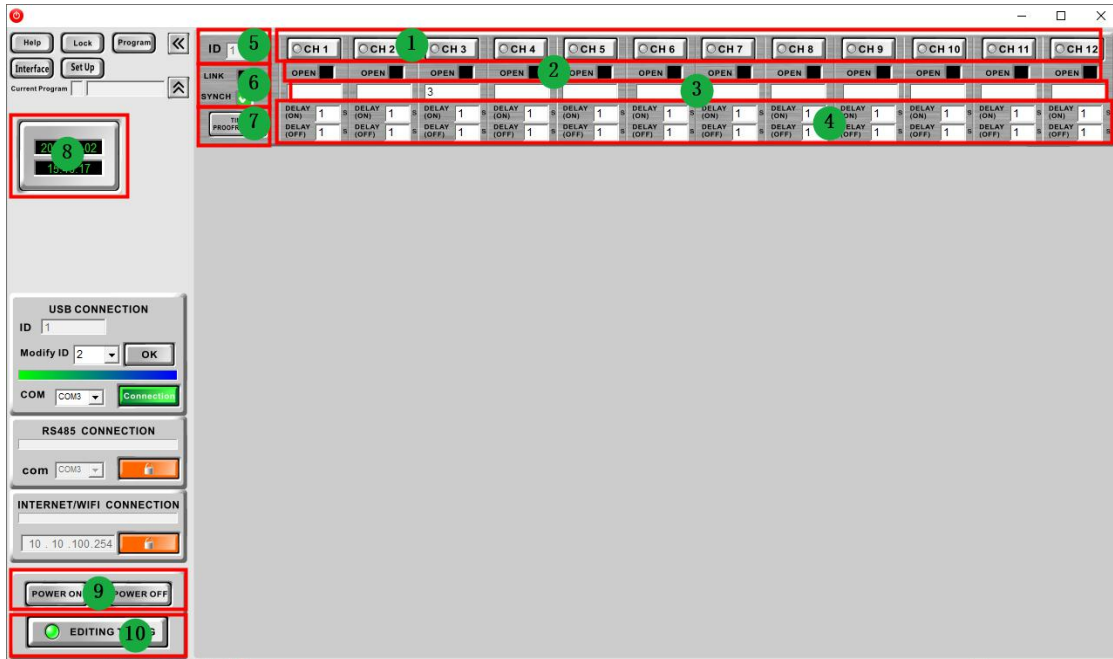


Figure 9

1. The state control of the sequencer channel.

Click the button to switch the state of the corresponding channel. When the button light turns green, it means that the corresponding channel light is on. See Figure 10 below.



Figure 10

2. Channel normally open option.

Click the option box to change the channel normally open state. When checked, the channel is in the normally open state. When the channel is in the normally open state, the channel will always be in an output voltage state (to supply power to some special equipment that can never be powered off), and cannot be closed. It must cancel the normally open state before closing. See Figure 11 below.



Figure 11

3. Channel label.

Mark the channel label.

4. Channel delay on/off.

When the sequencer is turning on or off, the delay parameter of the action between channels, ranging from 0~999 (seconds).

5. Display the ID number of the device currently being edited.

6. The working state of the sequencer.

The device can work in two states, cascade state and sync state. Click to switch the working state of the device.

The difference between cascade state and sync state:

1) All states are the same under the working conditions of a single device.

The difference lies in the power-on action and the power-off action when cascading. There are three situations:

① All cascade devices are in cascade state.

When the sequencer is in cascade, execute the power-on action in turn starting from the device with ID 1 according to the delay on parameters; execute the power-off action in turn starting from the device with the max ID according to the delay off parameters (the channels that have been set to "normally open" will always be in the open state).

② All cascade devices are in sync state.

When the sequencer is in cascade, turn on the power and all the devices will power on according to the delay on parameters; turn off the power and all devices will power off according to the delay off parameters.

③ Cascade devices have both cascade state and sync state.

When the sequencer is in cascade, turn on the power and all the devices in the sync state will power on according to the delay on parameter. The devices in the cascade state start from the device with ID 1, and turn on the power sequentially according to the delay on parameters. Turn off the power, and all devices in the sync state will power off according to the delay off parameters. The devices in the cascade state start from the device with the max ID, and turn off the power in sequence according to the delay off parameters (the channels that have been set to "normally open" will always be in the open state).

7&8. Time calibration and display.

Click the button to enter the time setting menu. As shown in Figure 12 below.



Figure 12

9. Power on and off

Click to turn on or turn off the power. When the device is in cascade, please refer to the above 6. "The working state of the sequencer" for the power on or off actions.

10. Edit timed

Click "Edit timed" to enter the timed power-on or power-off editing interface, and set the timed power on or off parameters in this interface. As shown in Figure 13 below, please refer to 3.5.3 Details of the "Edit timed" function.

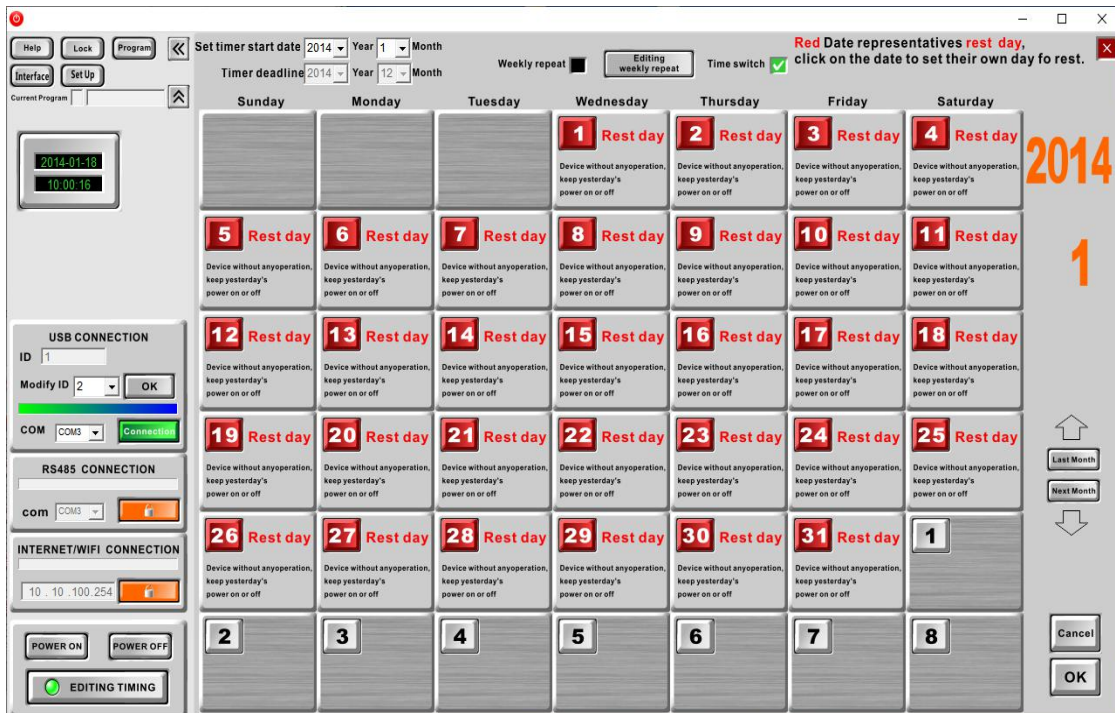


Figure 13

3.5.3 Details of the "Edit timed" function

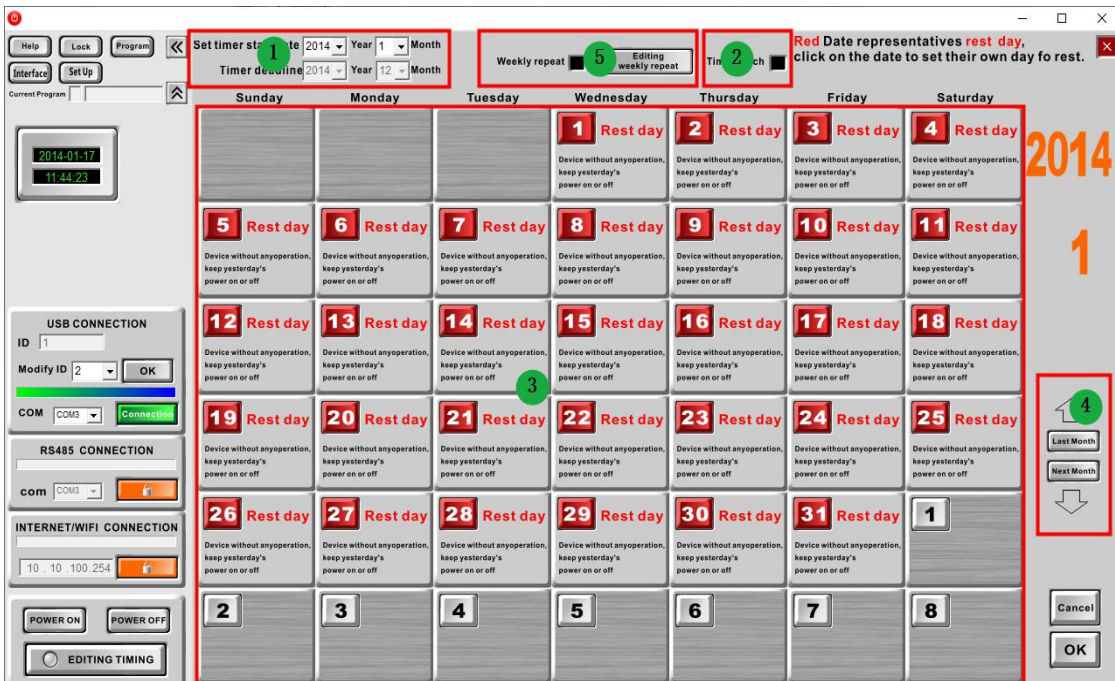


Figure 14

Note: 1. When using the Timed on/off function, the device ID must be 1. When the ID is not 1, the function is invalid.

2. When the timed start date is changed, the timed parameters that have been set will be invalid. Please modify the start date carefully.

① Set the timed start time.

Set the start date, this device can set 12-month timed parameters. When the start date is changed, the parameters that have been set will become invalid. Please carefully modify the start date.

② Timed on/off.

When checked, the Timed on/off function is enabled.

③ Monthly timed parameter setting.

Edit this parameter to change the monthly timed data.

④. Save the edited Timed on/off data.

⑤. Monthly repeat and weekly repeat.

This device has two timed modes. When "Repeat weekly" is checked, the timed parameter uses weekly repeat data; when it is not checked, the monthly timed parameter is used.

Example 1, use monthly repeat mode, set the current time to March 12, 2015, set the sequencer to turn on at 8 AM on March 15, 2015, and turn off at 12 AM, turn on at 14 PM, and turn off at 22 PM.

Step 1: Select the start date as January 2015 (the timed date that needs to be edited must be within the "Timed start date" and "Timed end date"), as shown in the red box in Figure 15 below.

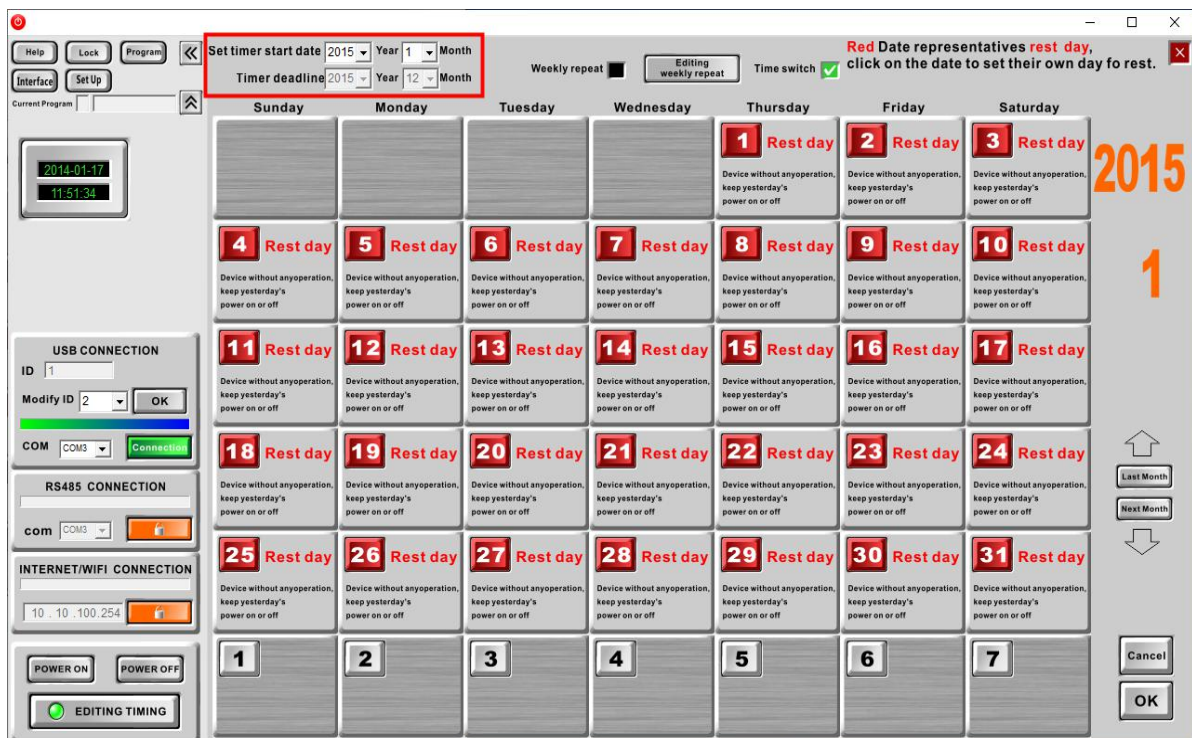


Figure 15

Step 2: Click "Previous Month" and "Next Month", and select the timed editing interface as March 2015, as shown in the red box in Figure 16 below.

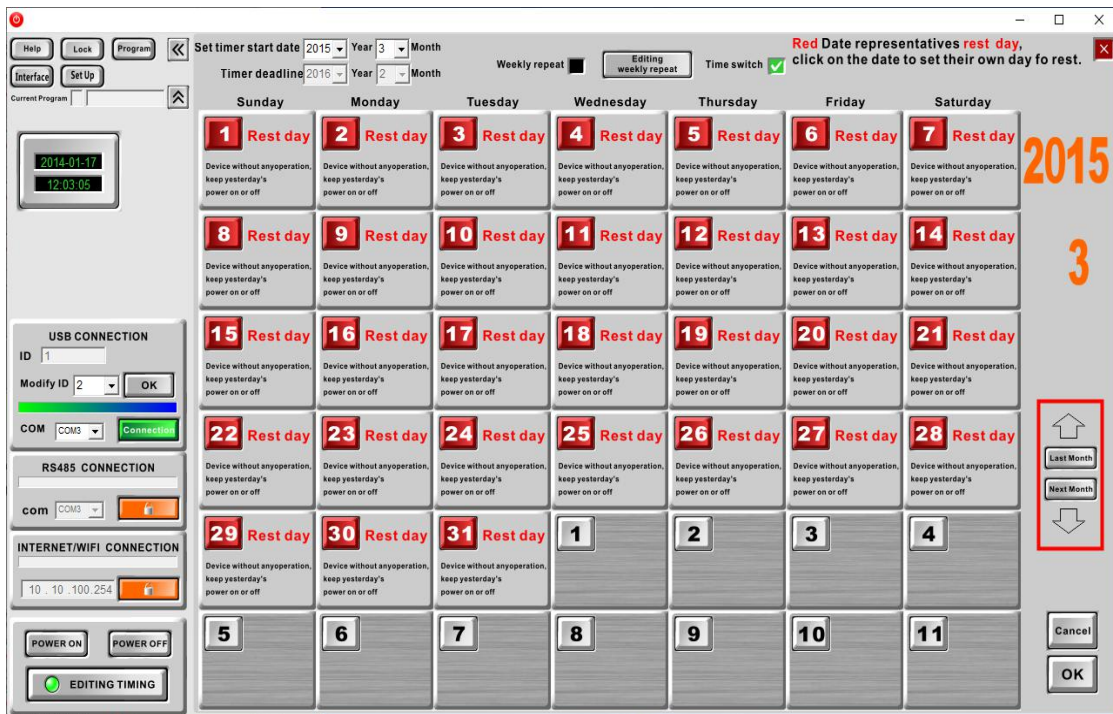


Figure 16

Step 3: Click the number 15 (the red box in Figure 17 below), switch the off day to working day (Figure 18 below), and then click "Edit" (Figure 18 below), in the pop-up window, set the data to that the sequencer is turned on at 8am and turned off at 12am, and then press Add to set the data as the sequencer is turned on at 14pm and turned off at 22pm, and click OK (see Figure 19 below) to return to Timed function editing interface.

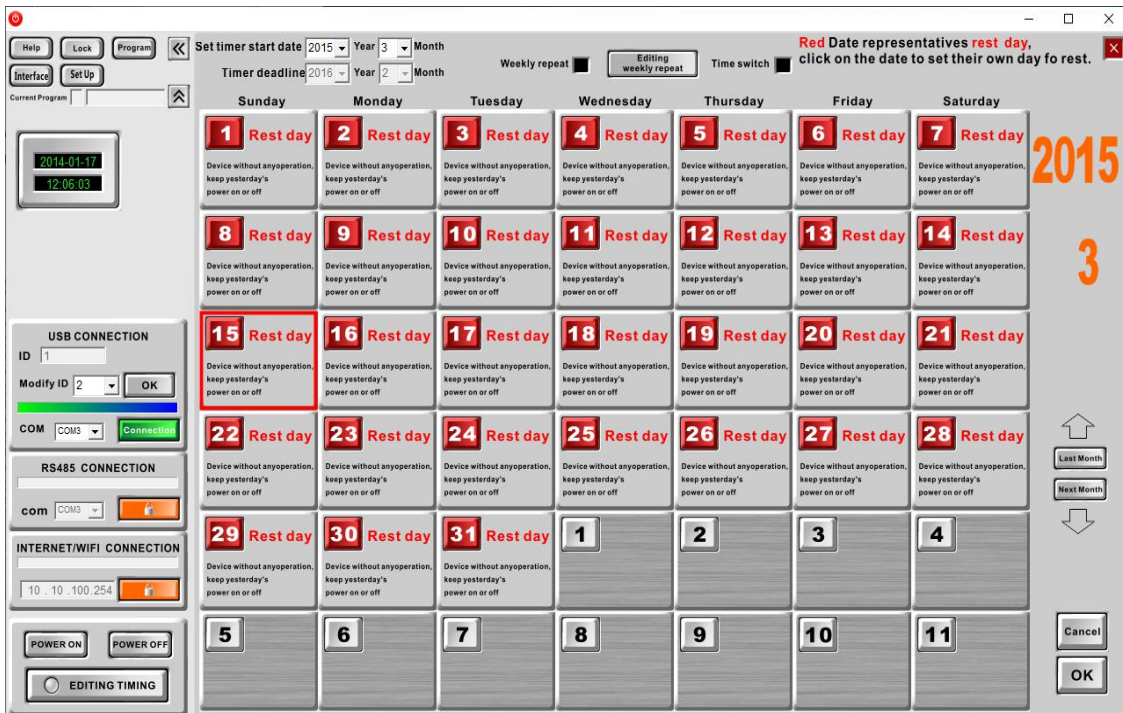


Figure 17



Figure 18



figure 19

Step 4: Click OK to save the current configuration to the device (see Figure 20 below). After the above 4 steps, the sequencer will be automatically turned on at 8 AM, off at 12 AM, and on at 14 PM, and off at 22:00 on March 15, 2015.

The edited interface is as shown in the figure below.

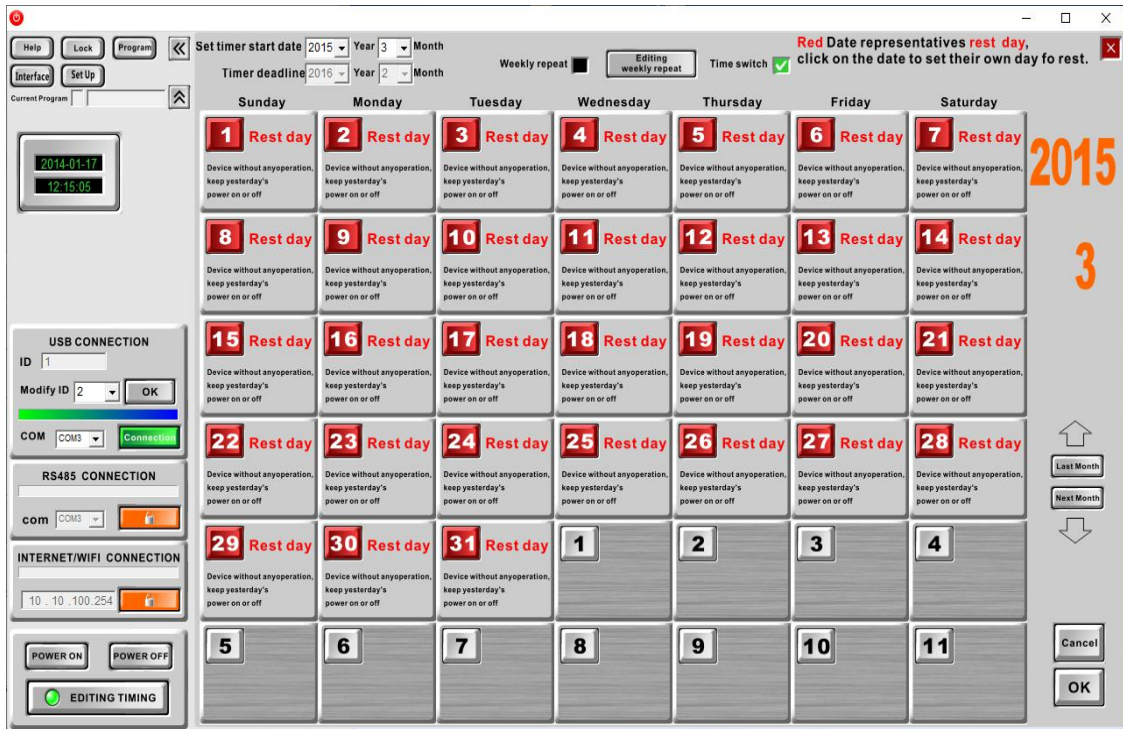


Figure 20

"Weekly repeat" timed mode.

When "Weekly repeat" is checked, the timed data is repeating the data of "Weekly repeat". As shown in Figure 21 below.

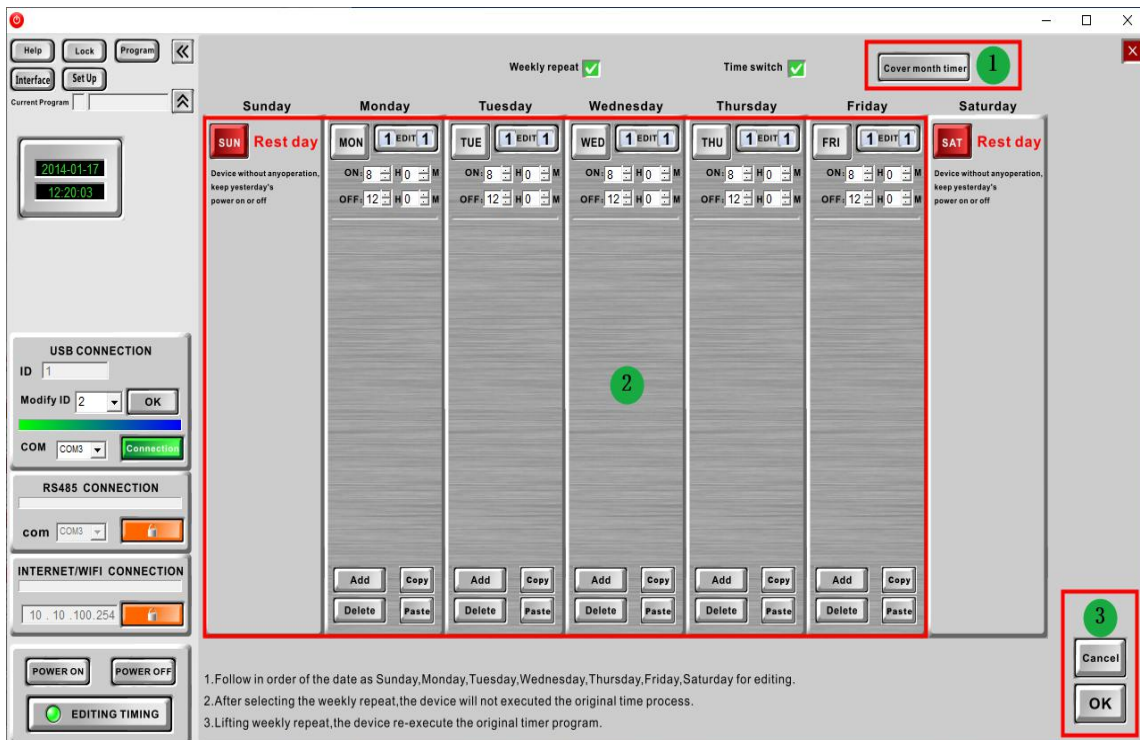


Figure 21

①. Overwrite monthly timed.

Click the button, and the edited weekly timed data will be overwritten to the editing area of monthly timed parameter on a weekly basis.

②. Weekly timed data editing area.

③. Download the edited weekly timed data to the device.

Example 1: Use "Weekly repeat" function, every Monday to Friday the sequencer is turned on at 8AM and turned off at 12AM, and turned on at 14PM and turned off at 22PM; it is disabled on Saturday and Sunday.

Step 1: Check "Timed on/off", check "Weekly repeat" to enable the "Weekly repeat" function, as shown in the red box in Figure 22 below.

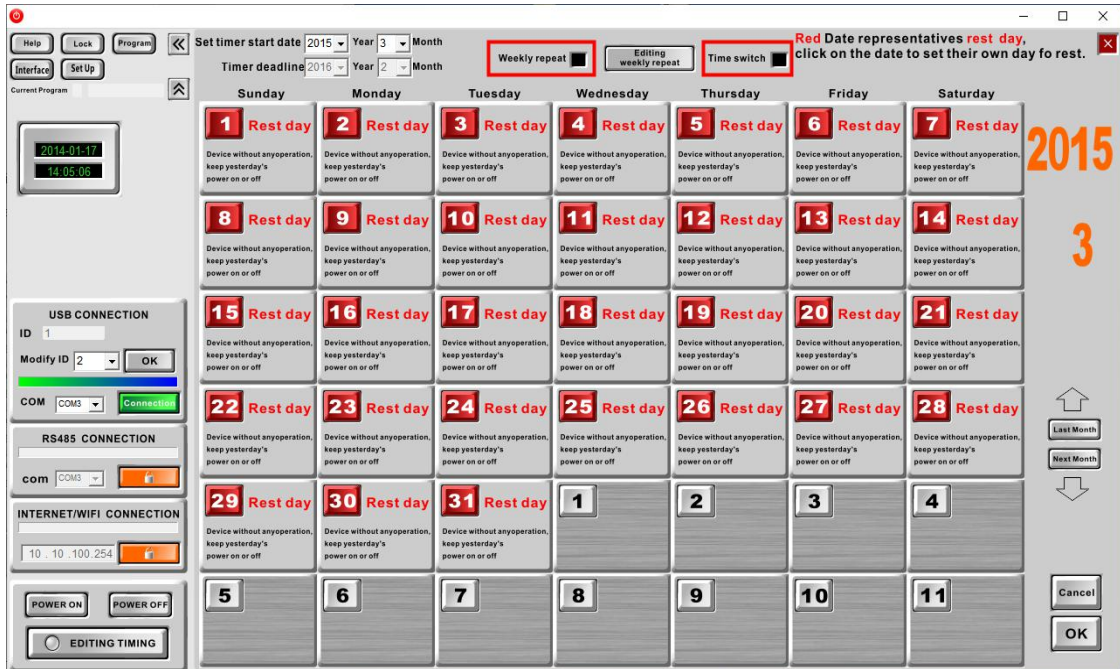


Figure 22

Step 2: Set Saturday and Sunday as off days.

Click the Saturday and Sunday buttons to switch to the off day (the red box in Figure 23 below).

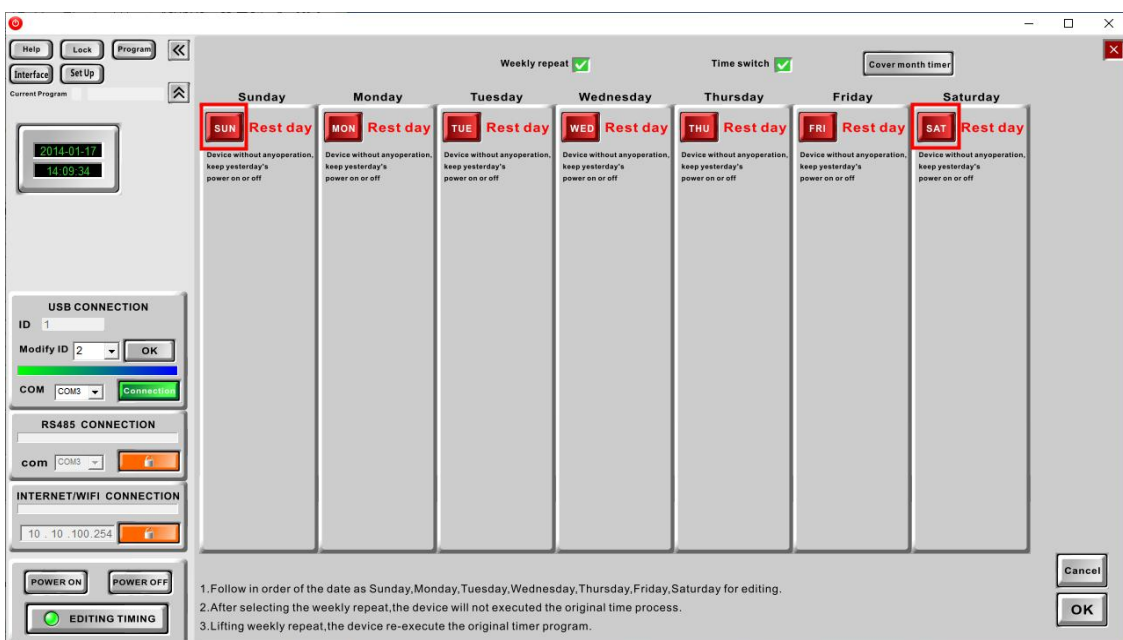


Figure 23

Step 3: set the sequencer to turn on at 8 am from Monday to Friday, turn off at 12 am, turn on at 14 pm, and turn off at 22:00.

Click Monday to switch to the working day state, and edit the timed parameters as shown in Figure 23. In the same way, edit Tuesday to Friday, as shown in Figure 25 below. Click OK to save the edited data to the device.

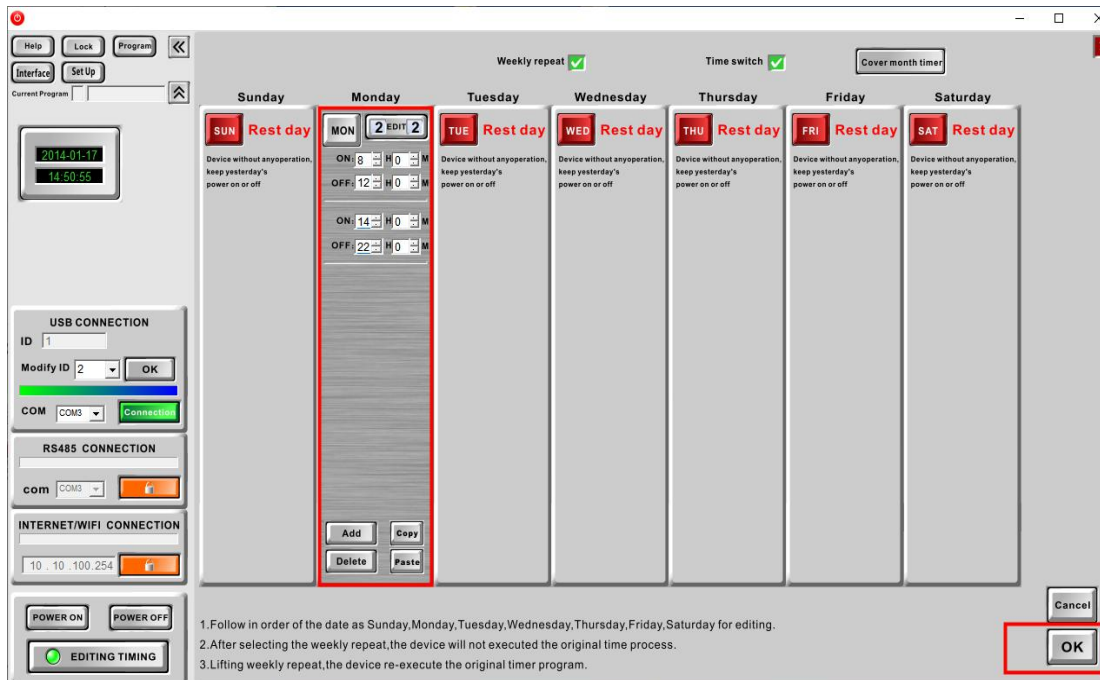


Figure 24

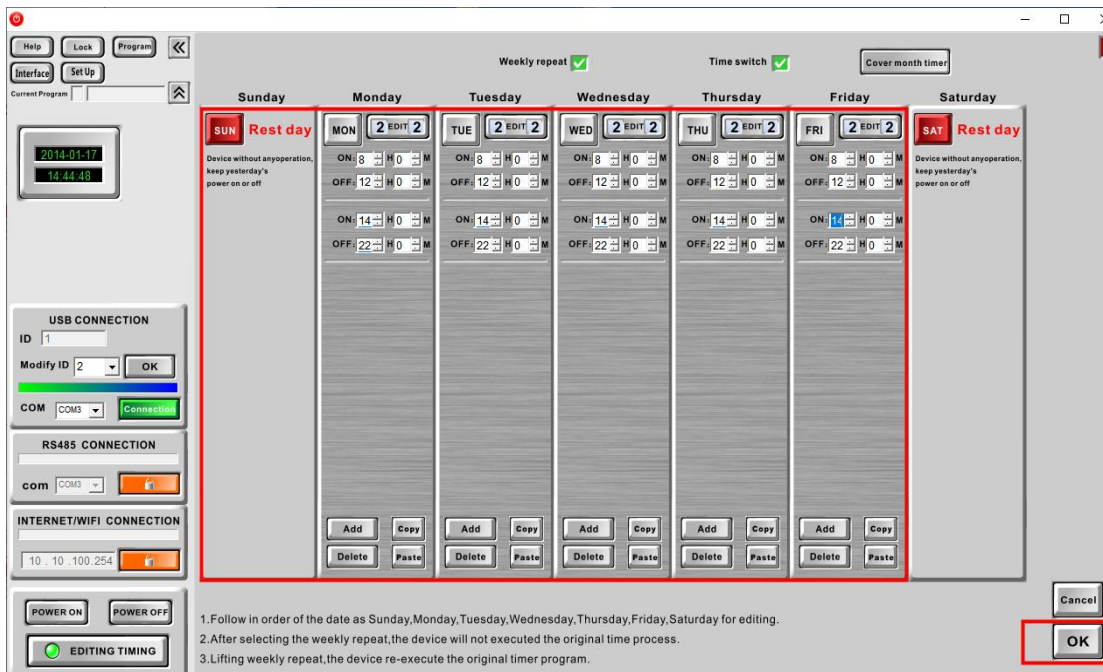


Figure 25

Example 2: Use "Overwrite monthly timed" to edit the parameters of the monthly timed from January to December. Set the current time to January 2015, and national holidays, Saturdays, and Sundays need to be set as off days. On the other days, it will be turned on at 7 am, turned off at 12, turned on at 13:00, and turned off at 22:00.

Step 1: Connect the PC software to the device, ①Set the start date to January 2015. ②Check the "Timed on/off" function. ③Click "Edit weekly repeat" (as shown in Figure 26), and edit all data as shown in Figure 27.

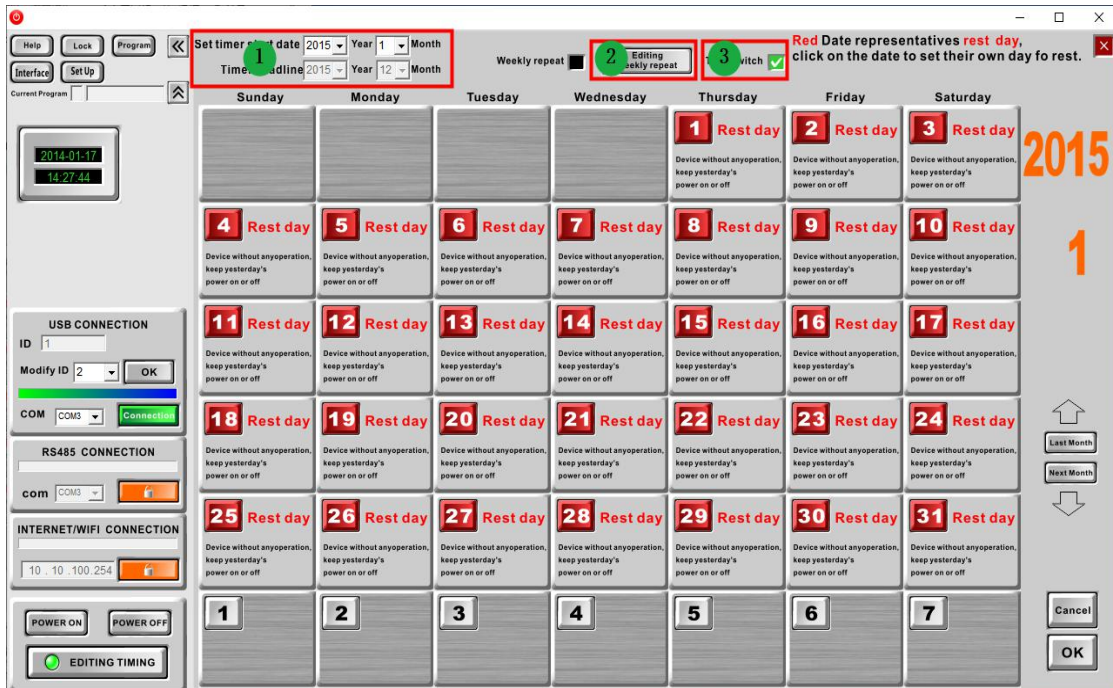


Figure 26

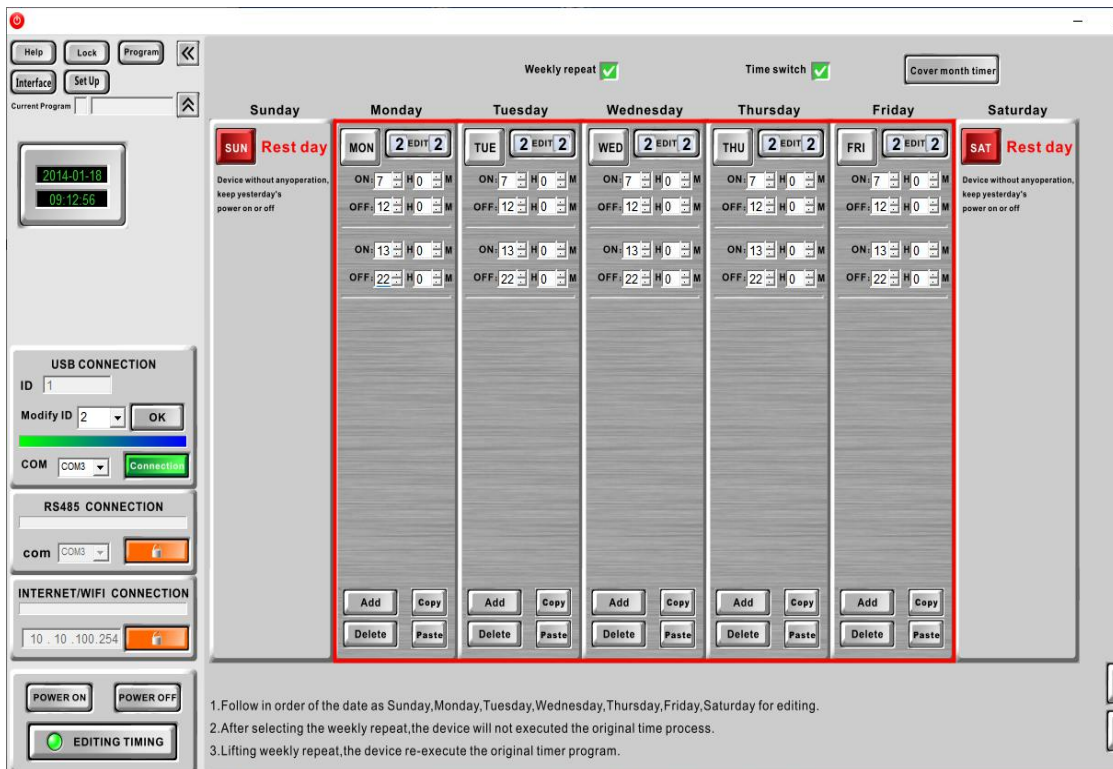


Figure 27

Step 2: Click "Overwrite monthly timed" (as shown in Figure 28) to overwrite the data to the monthly timed. As shown in Figure 29 below.

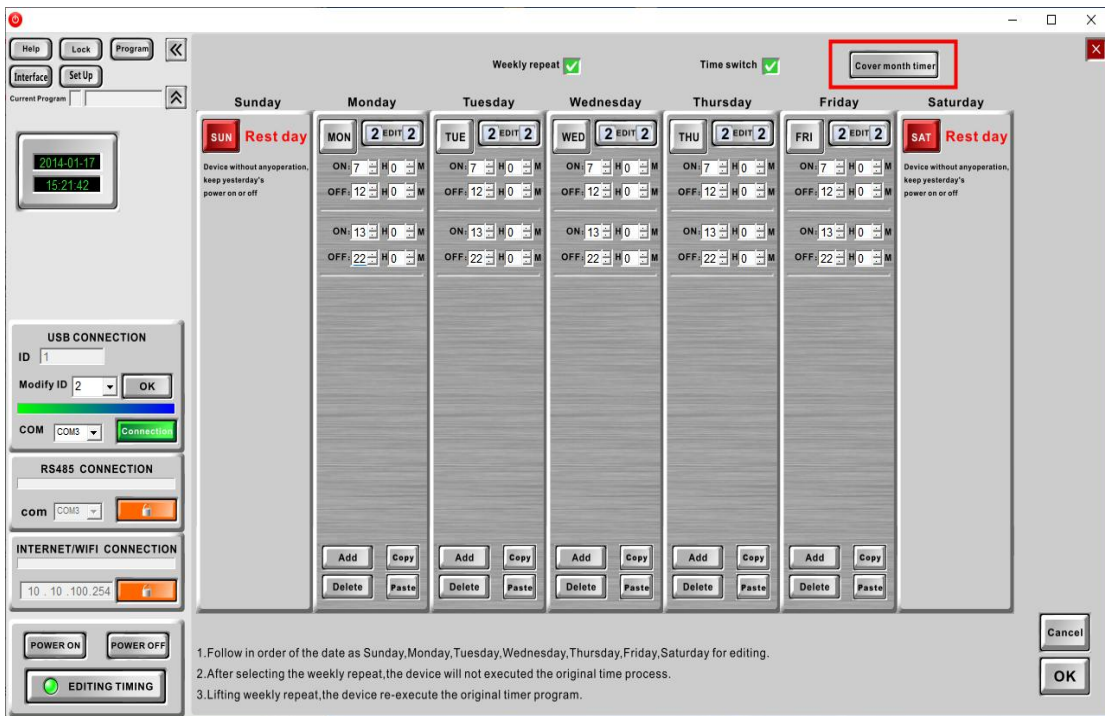


Figure 28

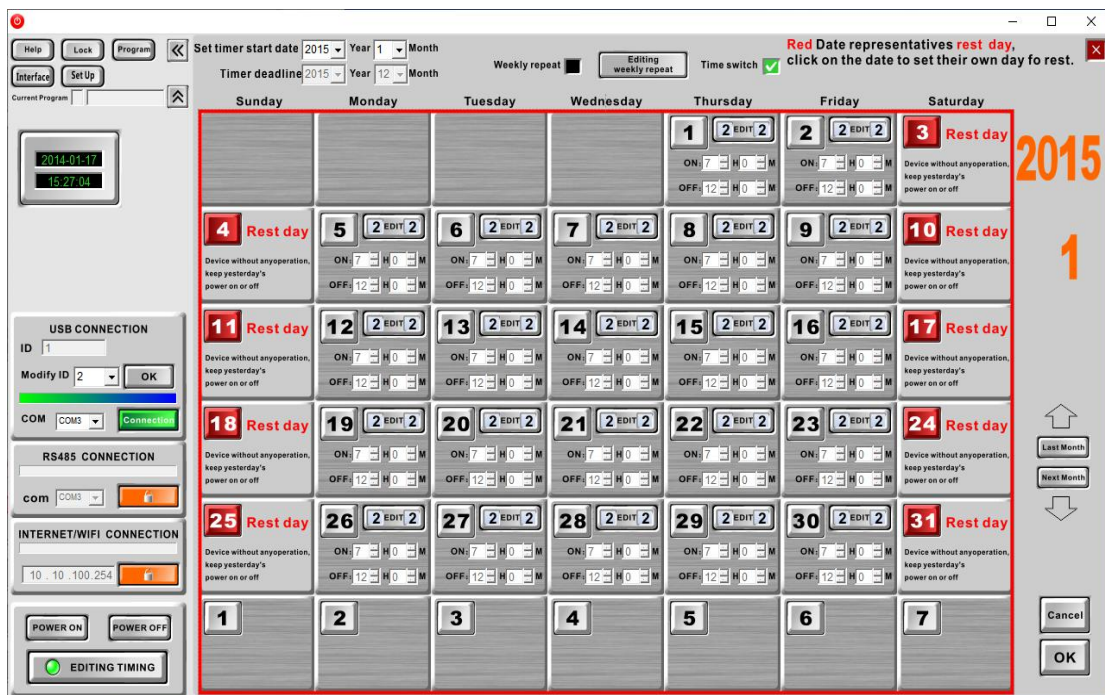


Figure 29

Step 3: Change national holidays to off days. Among them are New Year's Day, Spring Festival, Tomb-sweeping Day, Labor Day, Dragon Boat Festival, Mid-Autumn Festival, and National Day. As shown in Figure 30 below, the National Day holiday schedule from October 1st to 7th will be switched to off days, and October 10th will be set as a working day. Click OK to save the data to the device.

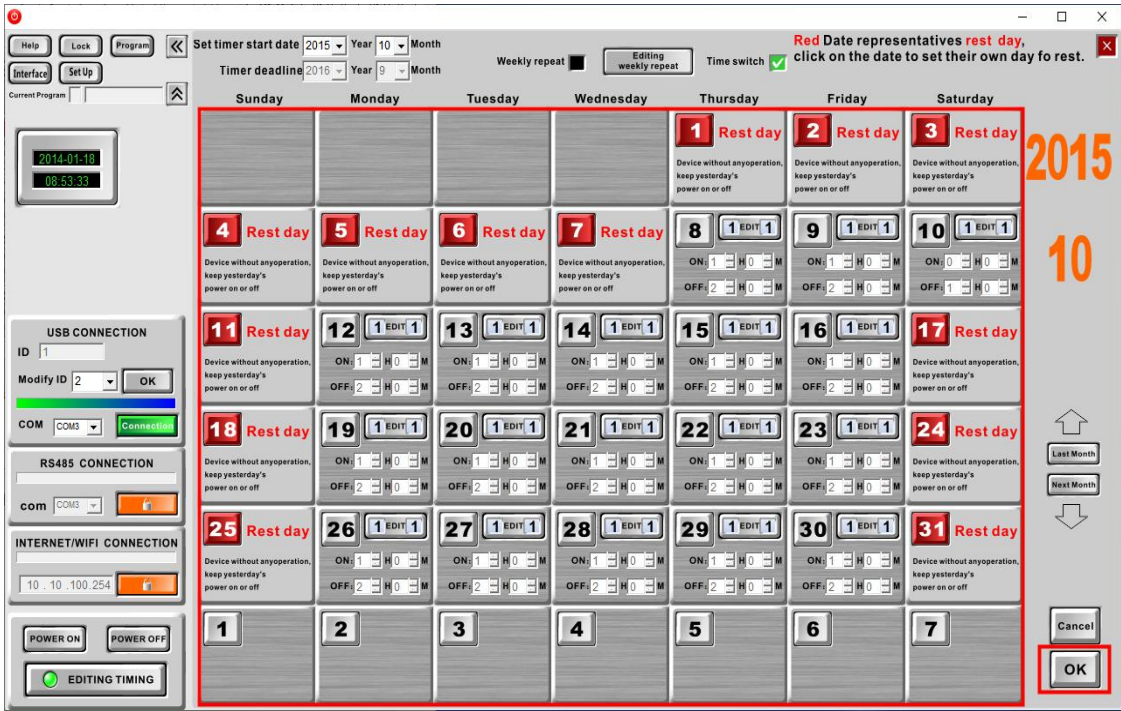


Figure 30

3.5.4 PC software lock and device function lock

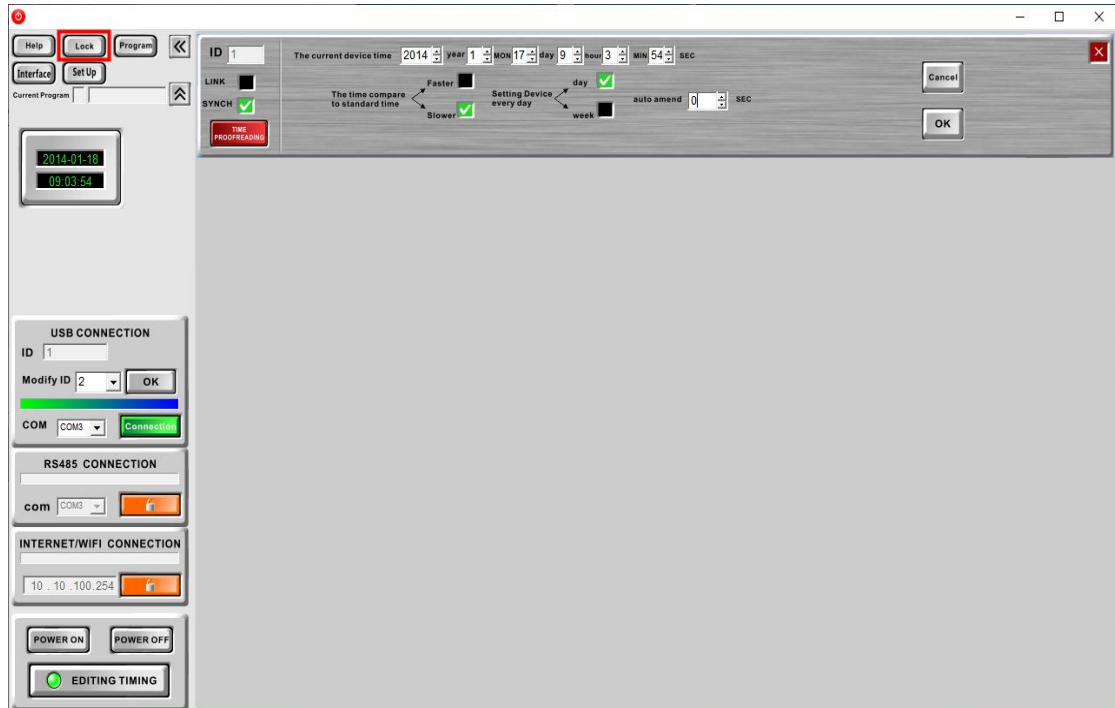


Figure 31

Click Lock in Figure 30 above, and the function menu as shown in Figure 32 will pop up.

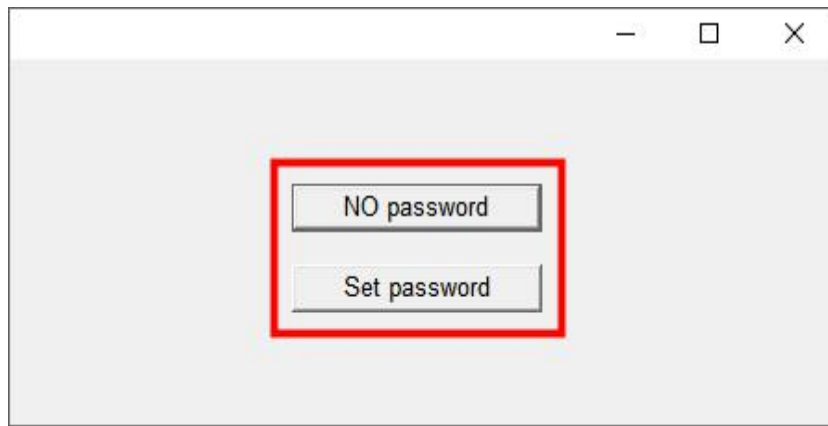


Figure 32

Choose any method to enter the lock selection interface, as shown in Figure 33 below.

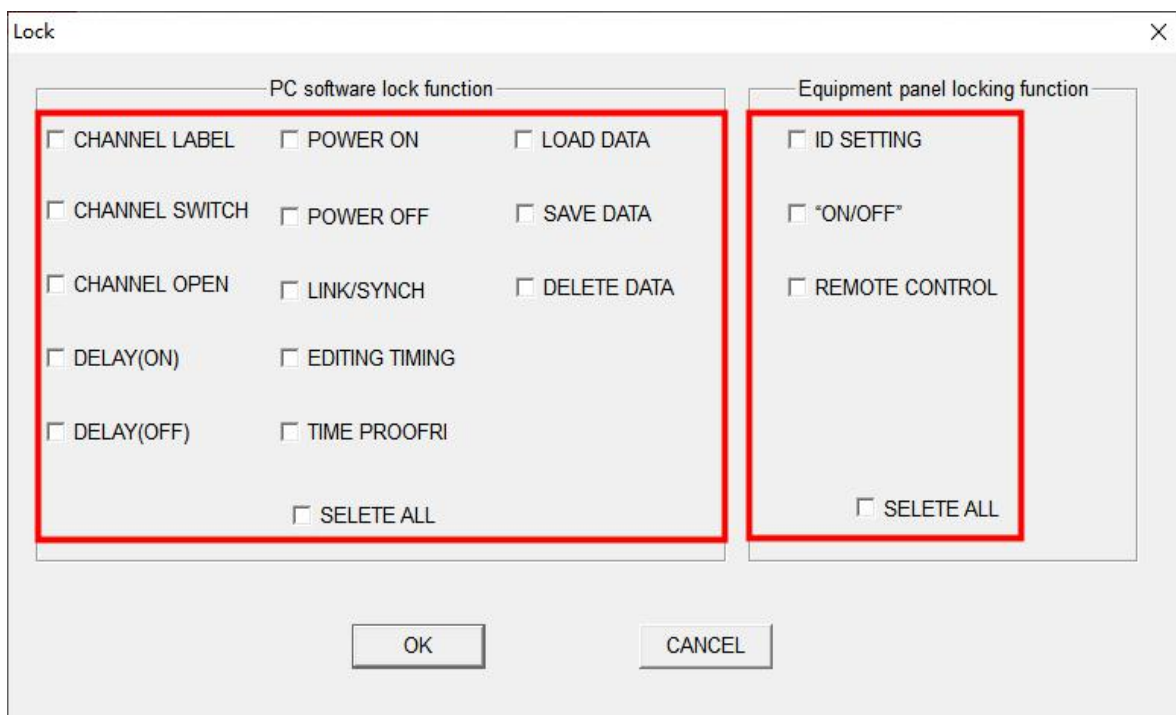


Figure 33

1. PC software function lock:

- Channel label
- Channel switch
- Normally open channel
- Delay on
- Delay off
- Power on
- Power off
- Cascade/Sync

- Edit timed
- Modify time
- Invoke data
- Save data
- Delete data

2. Device panel function lock:

- ID setting
- "ON/OFF" button
- Remote control switch

3.5.5 Data invocation and storage

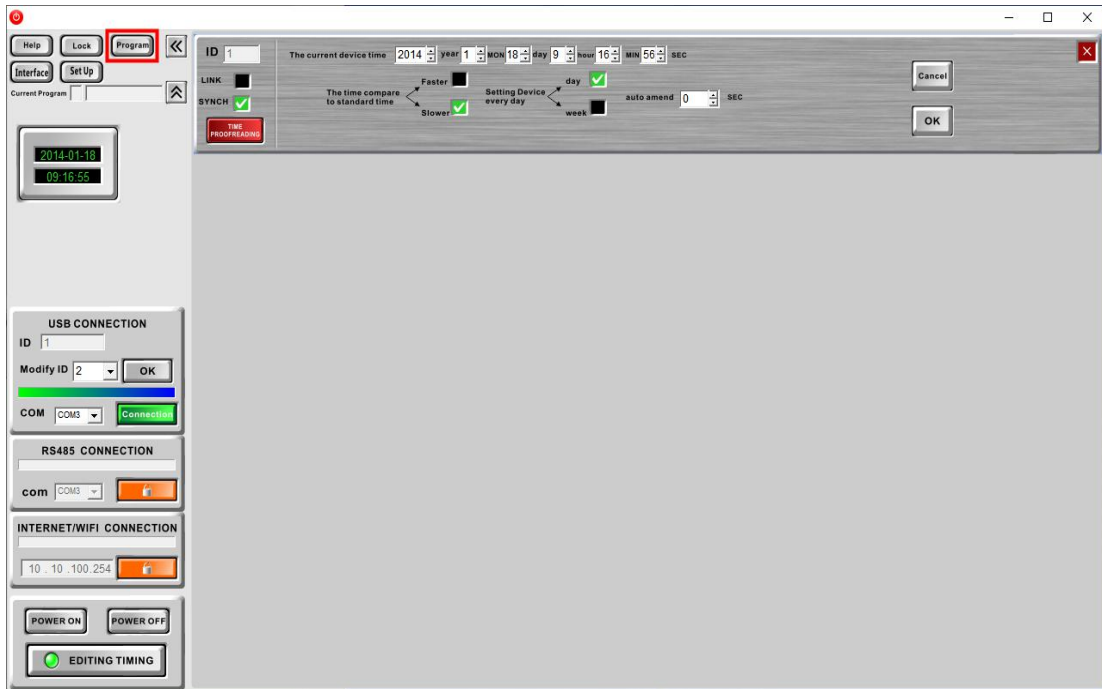


Figure 34

Click "Program" in the red box in Figure 33 above, and the settings dialog box shown in Figure 35 will pop up.

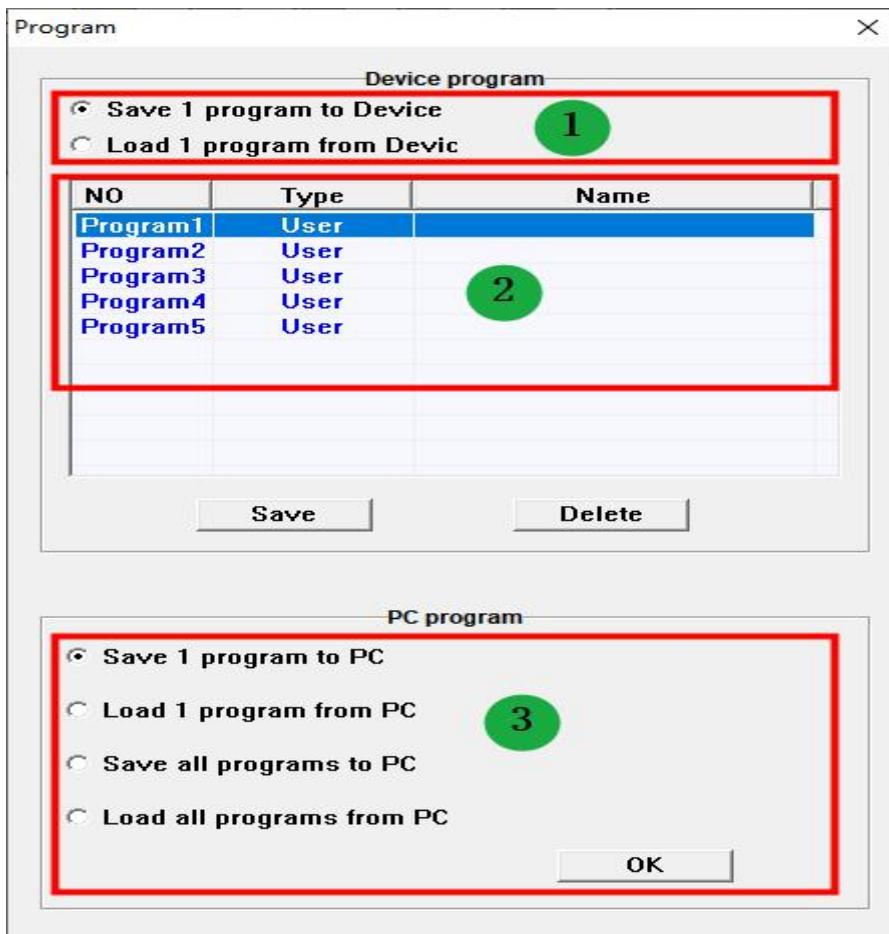


Figure 35

- ① Device program: invoke and save when the data is saved in the device.
- ② List the data stored in the device. If the device stores data, it can be displayed here. You can specify the number and name to save the data to the device or load the data to the device, or you can specify a group of data to delete.
- ③ Computer program: invoke and save when the data is saved on the computer.

3.5.6 Interface information and central control code

Click "Program" in the red box in Figure 35, and the dialog box shown in Figure 37 will pop up.

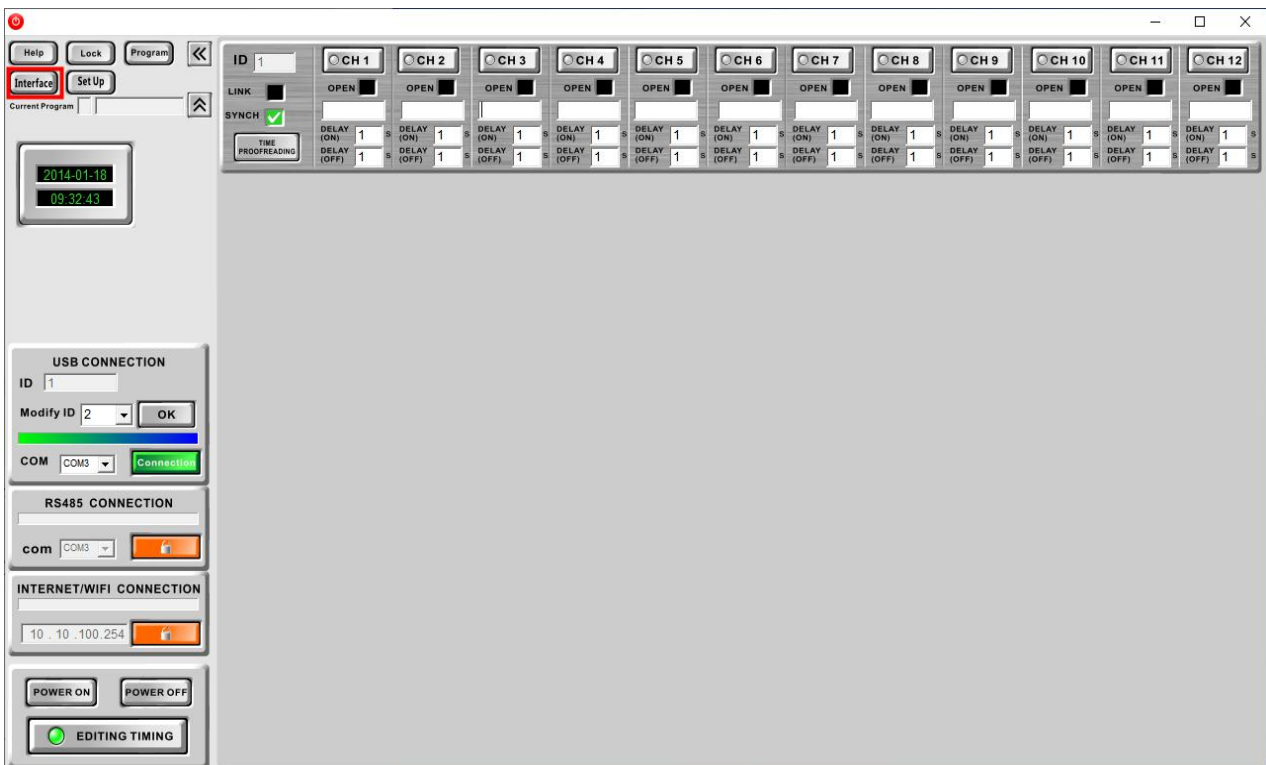


Figure 36

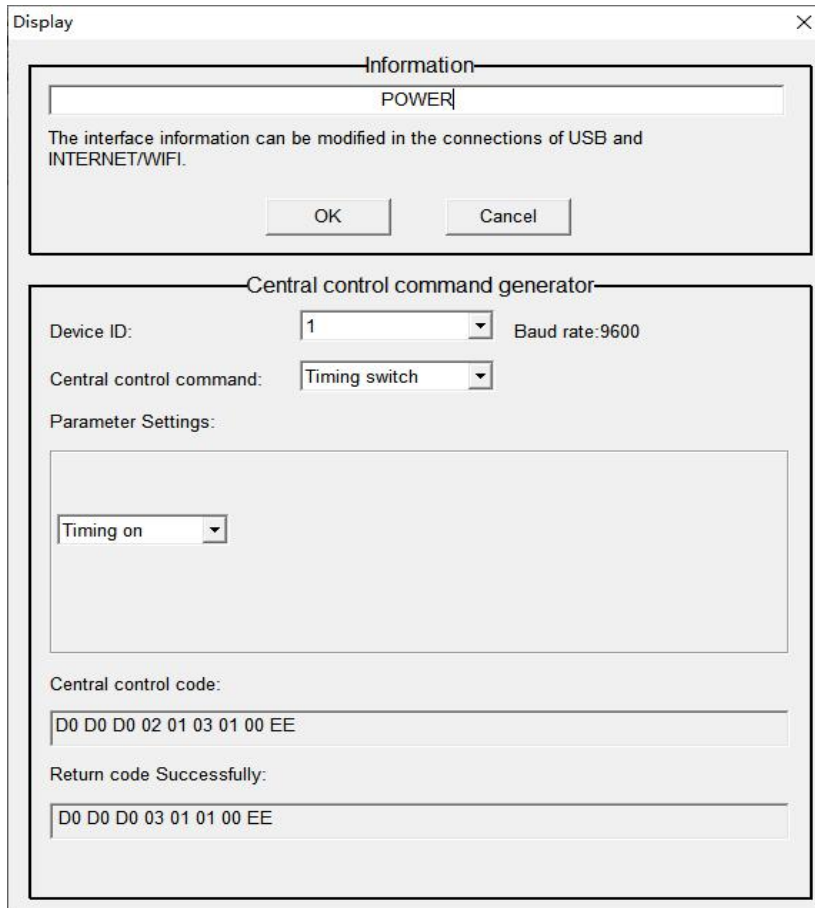


Figure 37

The logo displayed on the LCD screen can be modified in the machine column;

The central control command generator can generate codes corresponding to central control commands.

3.5.7 Infrared learning and linkage function

3.5.7.1 Infrared learning function

Click Setting in Figure 37, and the function menu as shown in the figure below will pop up.

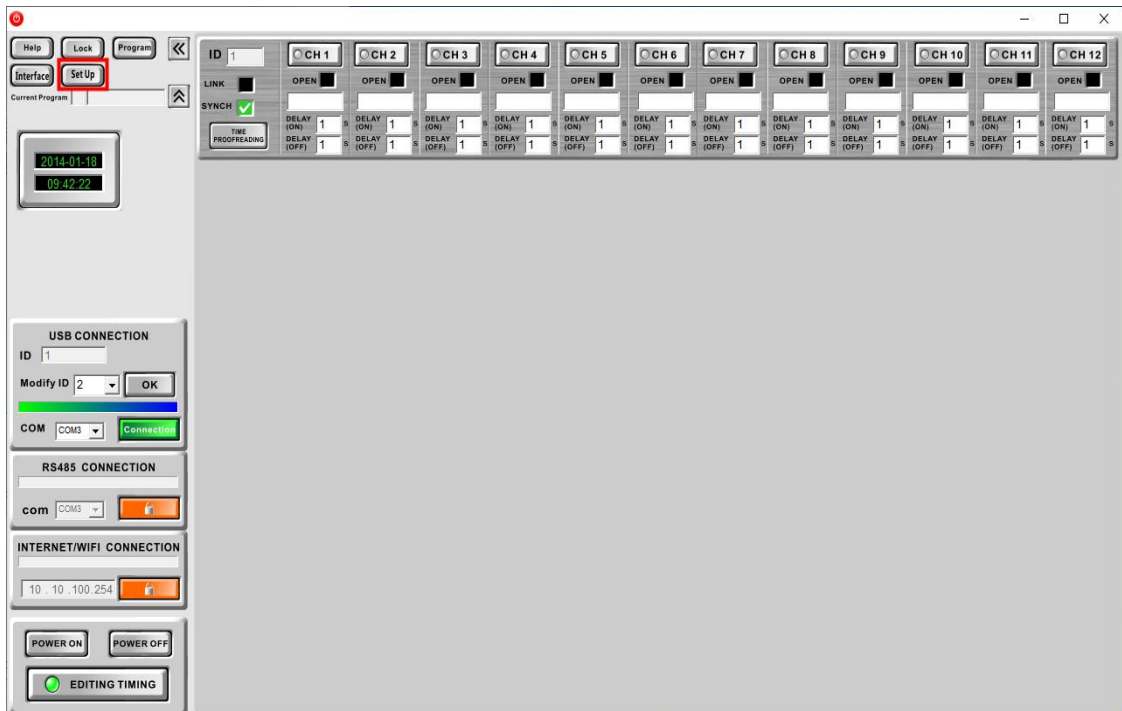


Figure 38

Click Infrared learning in Figure 38 to enter the infrared learning interface, as shown in Figure 40.

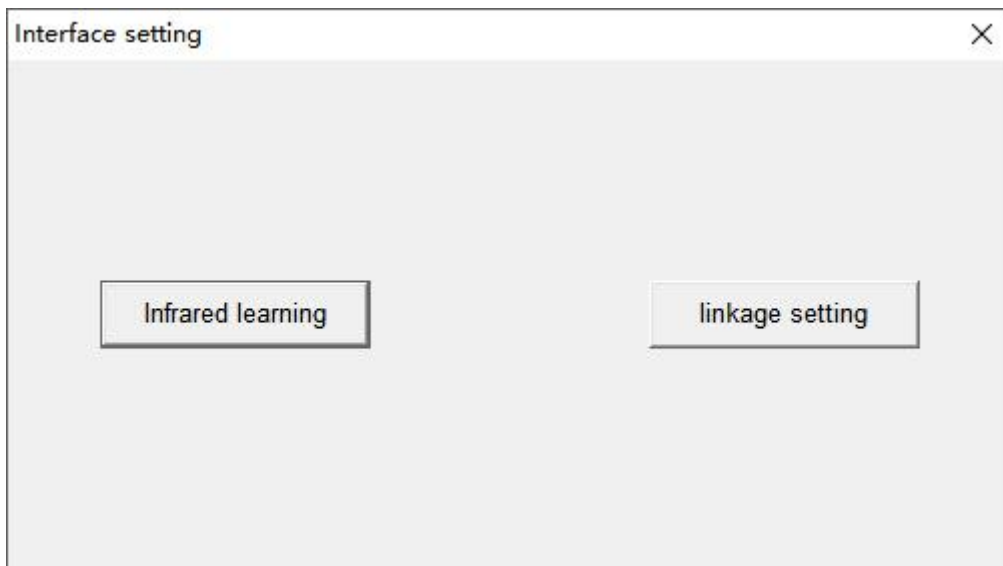


Figure 39

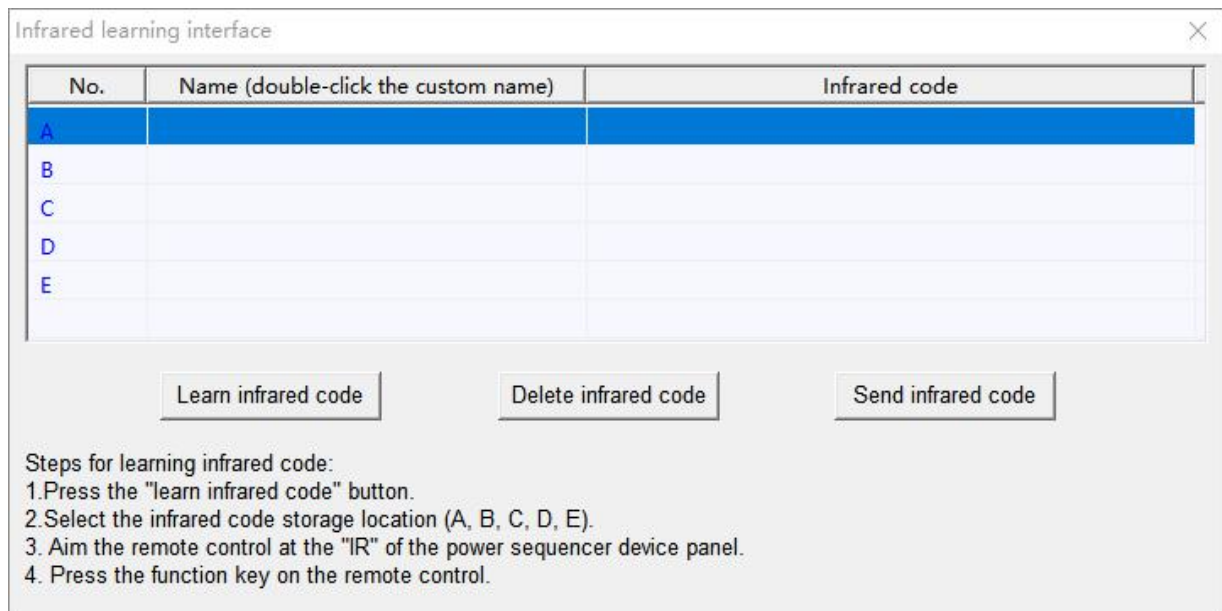


Figure 40

Click Learn infrared code, point the infrared learning window with the infrared remote control, and press the button that needs to be learned.

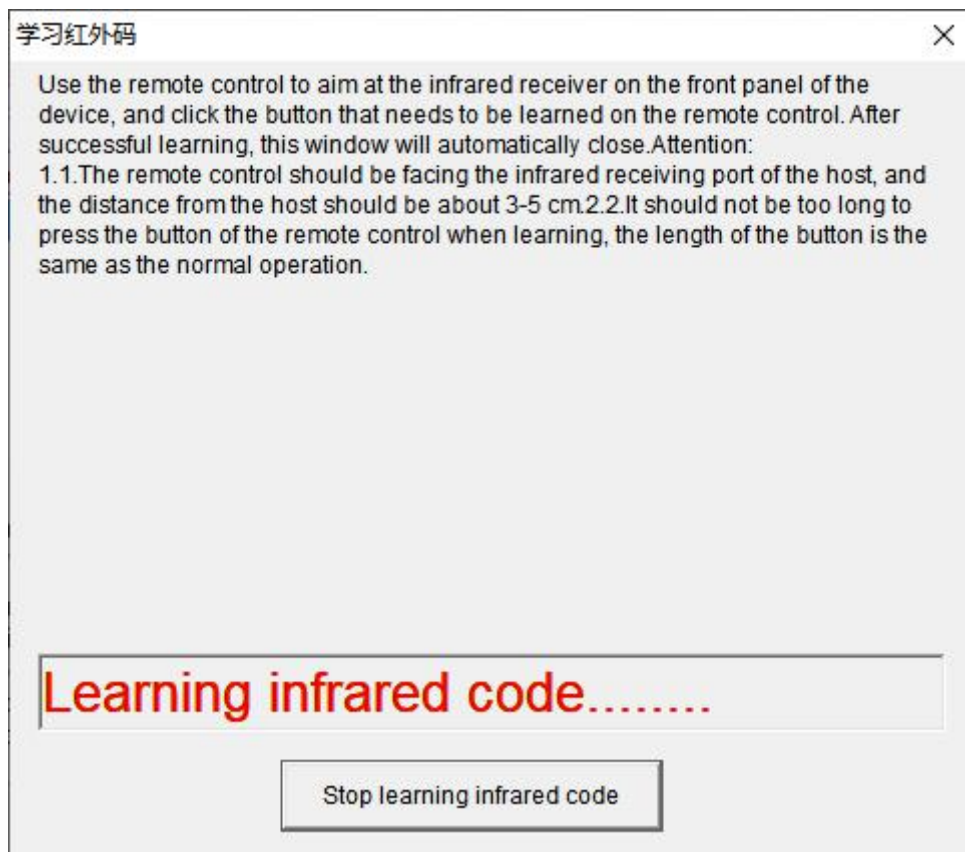


Figure 41

After learning the infrared code, insert the infrared transmitter into the rear panel (as shown in Figure 42), click Transmit infrared code on Figure 3 to control the infrared transmitter to send the infrared code.

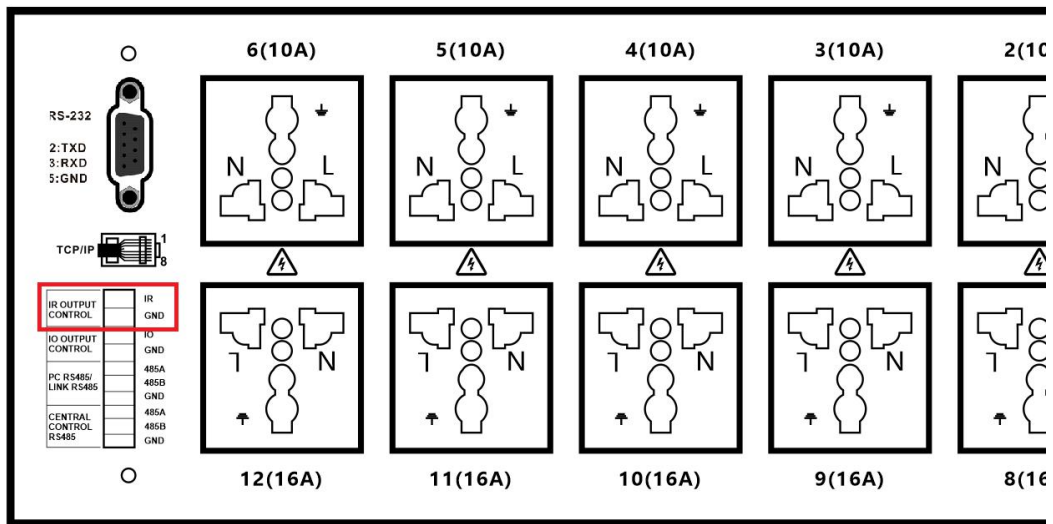


Figure 42

3.5.7.2 Linkage function

Click Linkage setting in the setting interface (Figure 43) to enter the main interface of linkage setting (Figure 44).

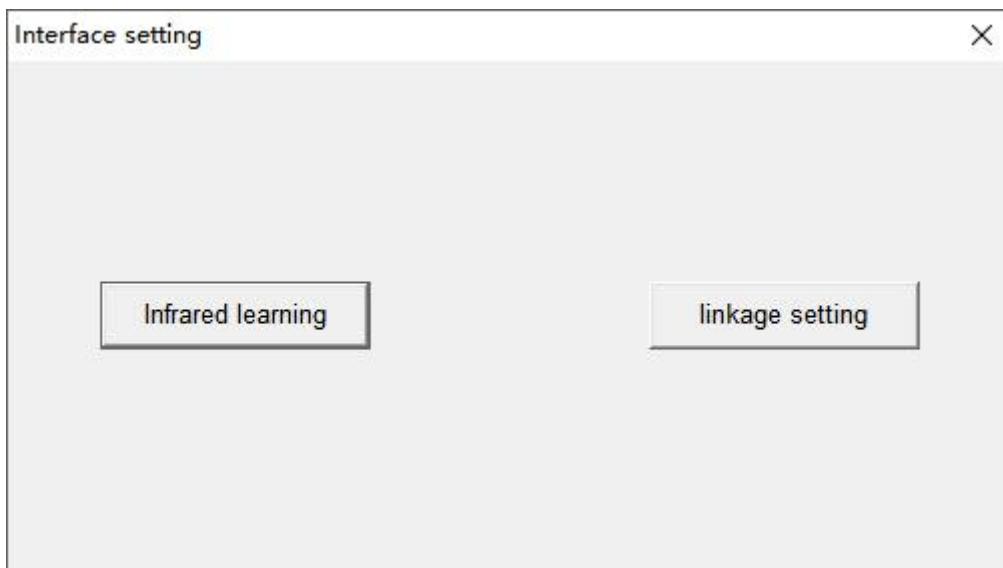


Figure 43

Channel No.	Open linkage	Close linkage	Set up
Channel1	Channel open,Delay99min 11ms,	Delay99min 11ms, Channel closed	Linkage settings
Channel2	Channel open,Delay99min 11ms, IO "High level"	IO "Low level"Delay99min 11ms, Channel closed	Linkage settings
Channel3	Channel open,Delay99min 11ms, IO "Low level"	IO "High level"Delay99min 11ms, Channel closed	Linkage settings
Channel4	Linkage Open	Linkage Closed	Linkage settings
Channel5	Linkage Open	Linkage Closed	Linkage settings
Channel6	Linkage Open	Linkage Closed	Linkage settings
Channel7	Linkage Open	Linkage Closed	Linkage settings
Channel8	Linkage Open	Linkage Closed	Linkage settings
Channel9	Linkage Open	Linkage Closed	Linkage settings
Channel10	Linkage Open	Linkage Closed	Linkage settings
Channel11	Linkage Open	Linkage Closed	Linkage settings
Channel12	Linkage Open	Linkage Closed	Linkage settings

Figure 44

Click Linkage setting.

Linkage settings X

Open linkage setting: After opening the channel, delay a time (if there is a delay time set), then send the infrared code or execute the IO port action.

Channel No.	Delay(min)	Delay(s)	Linkage infrared emission name	Linkage IO output	
CH1	0	0	Do not send linkage data	Not control	<input checked="" type="checkbox"/> Open linkage 01

Closed linkage setting: send infrared code or execute IO port action, delay a time (if delay time is set), and then close the channel.

Channel No.	Linkage infrared emission name	Linkage IO output	Delay(min)	Delay(s)	
CH1	Do not send linkage data	Not control	0	0	<input checked="" type="checkbox"/> Close linkage 01

Figure 45

Enable linkage setting:

Serial number: indicates the corresponding channel.

Delay: press On or Off, and the channel will open or close after the delay time.

Linkage infrared transmission name: transmit the infrared codes learned by using the infrared learning function.

Linkage IO output: control the rear panel IO to be high or low level (as shown in Figure 46).

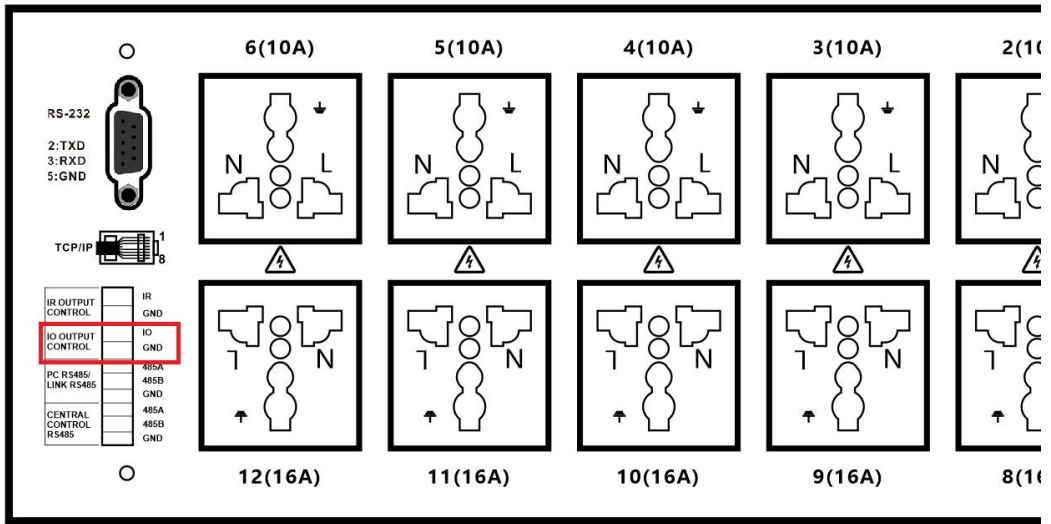


Figure 46

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