

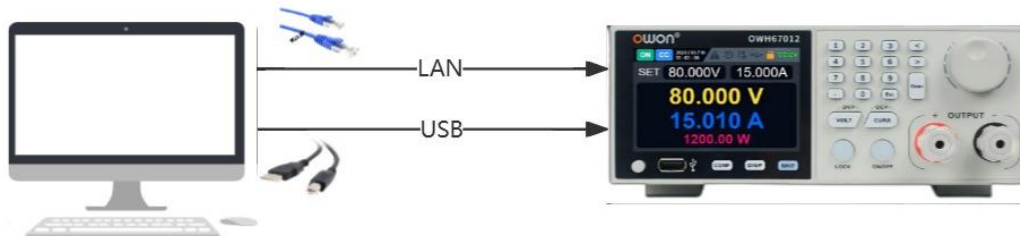
SPE Software Help Tool

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1. Connection method

USB serial port or Ethernet is supported by SPE series software as below.



1.1 USB series port communication

1.1.1 Driver Installation

1. Please find the document: " POWER-SPE-series-software".

2. Unzip and find the file : " CH340 Driver", as shown below:

bearer	2024/11/9 17:33
CH340 Driver	2024/11/11 13:00
iconengines	2024/11/9 17:33
imageformats	2024/11/9 17:33
platforms	2024/11/9 17:33
SPE-series-software	2024/11/11 12:58
styles	2024/11/9 17:33
translations	2024/11/9 17:33
translator	2024/11/9 17:33
D3Dcompiler_47.dll	2014/3/11 18:54
libEGL.dll	2020/11/6 17:00
libgcc_s_dw2-1.dll	2018/5/12 9:28
libGLSv2.dll	2020/11/6 17:00
libstdc++-6.dll	2018/5/12 9:28
libwinpthread-1.dll	2018/5/12 9:28
opengl32sw.dll	2016/6/14 21:08
POWER-SPE-series	2024/11/9 17:21

3. Double-click or right-click to unzip the CH341SER.zip package, and run the SETUP.EXE inside to directly install the CH340 driver, as shown below



4. Click Install, wait for the installation to complete, and click "OK", as shown below:



5. Return to the computer, click Device Manager, and check the COM port number and driver, as shown below:

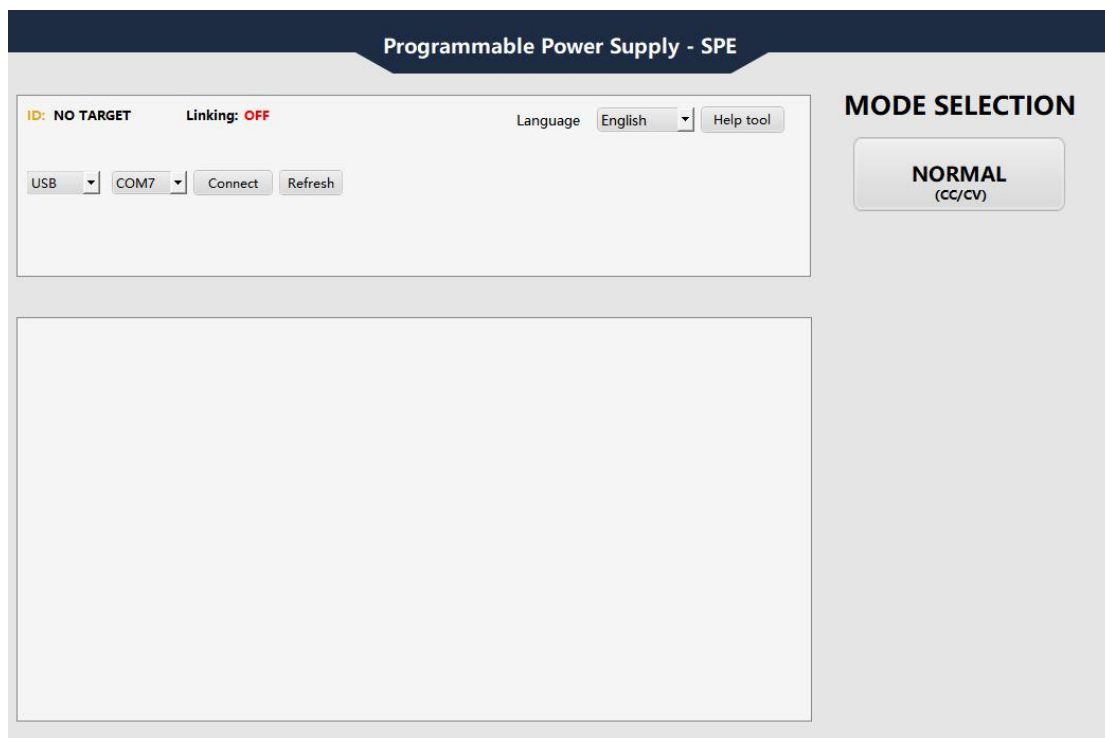


1.1.2 Hardware connection

1. Run "POWER-SPE.exe" file as below,



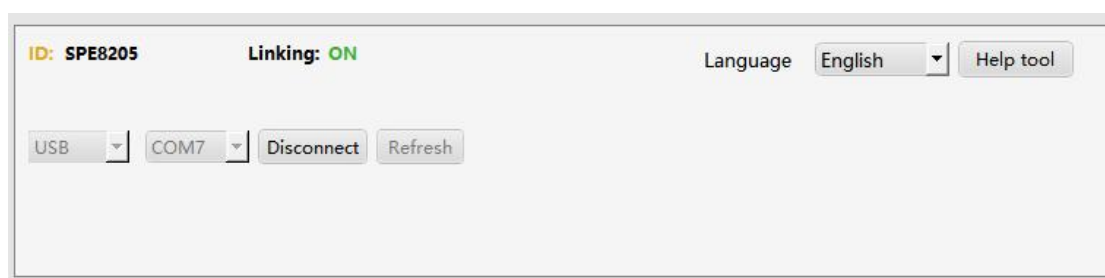
2.The front page is shown as below:



3.Please select the “USB” and COM, if not available, please click “Refresh”. Then click “connect” button



4. ID and connection status would be shown when connection is successful.



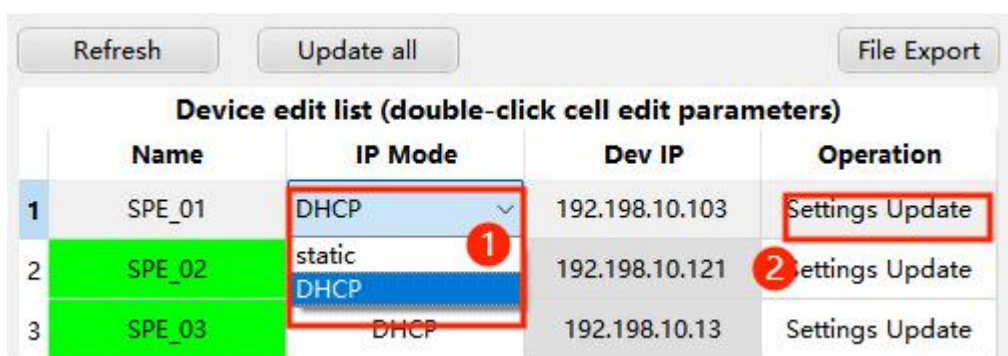
1.2 Ethernet connection

Users can use the SPE series software to directly connect and control the SPE8x0x product, or they can obtain the IP mode and IP address of the SPE8x0x through this software configuration.

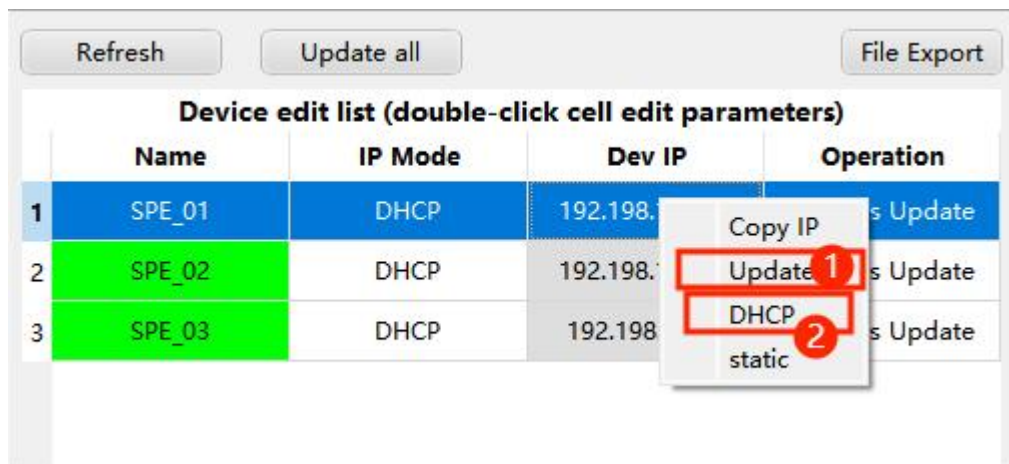
The following introduction to obtain DHCP and static IP address.

Taking the configuration of DHCP for multiple online devices as an example, the steps for the host computer to configure the SPE8x0x device are as follows:

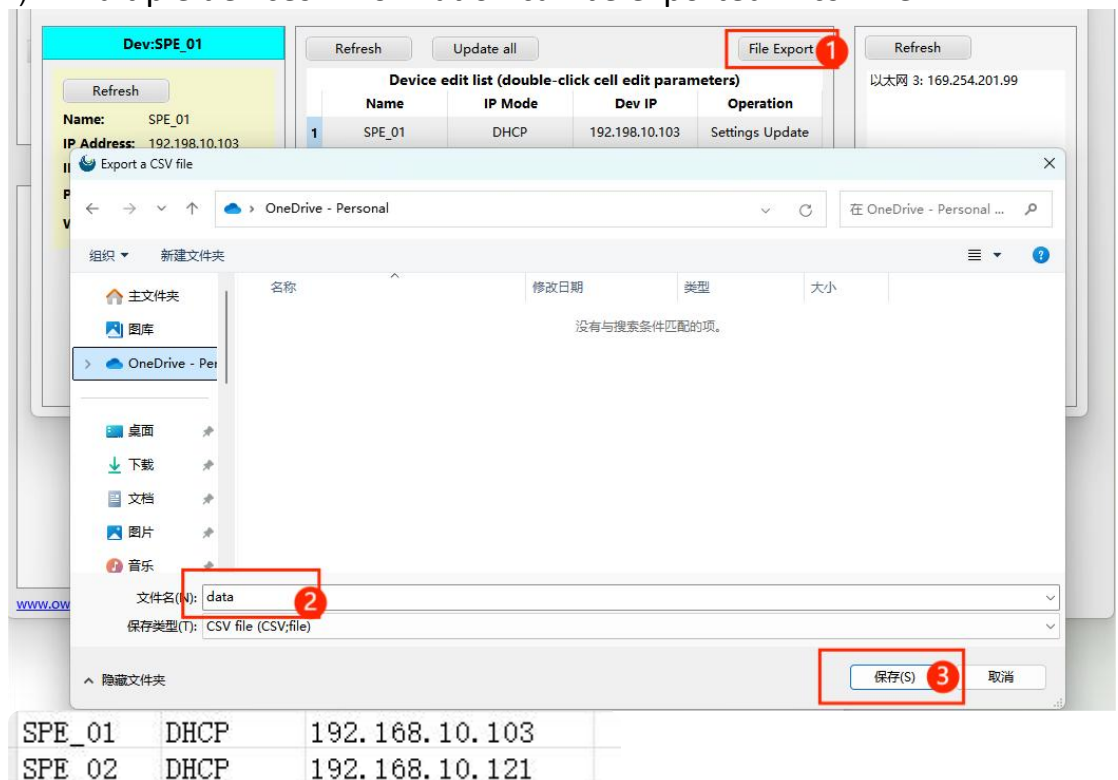
- a) Connect multiple devices to the router device(the device is connected to the router via a network cable)
- b) Search the online device list, select all IP modes, edit the configuration to DHCP, confirm the modification, you can modify a single device, or modify the selected device in batches by right-clicking.



	Name	IP Mode	Dev IP	Operation
1	SPE_01	DHCP	192.198.10.103	Settings Update
2	SPE_02	static	192.198.10.121	Settings Update
3	SPE_03	DHCP	192.198.10.13	Settings Update



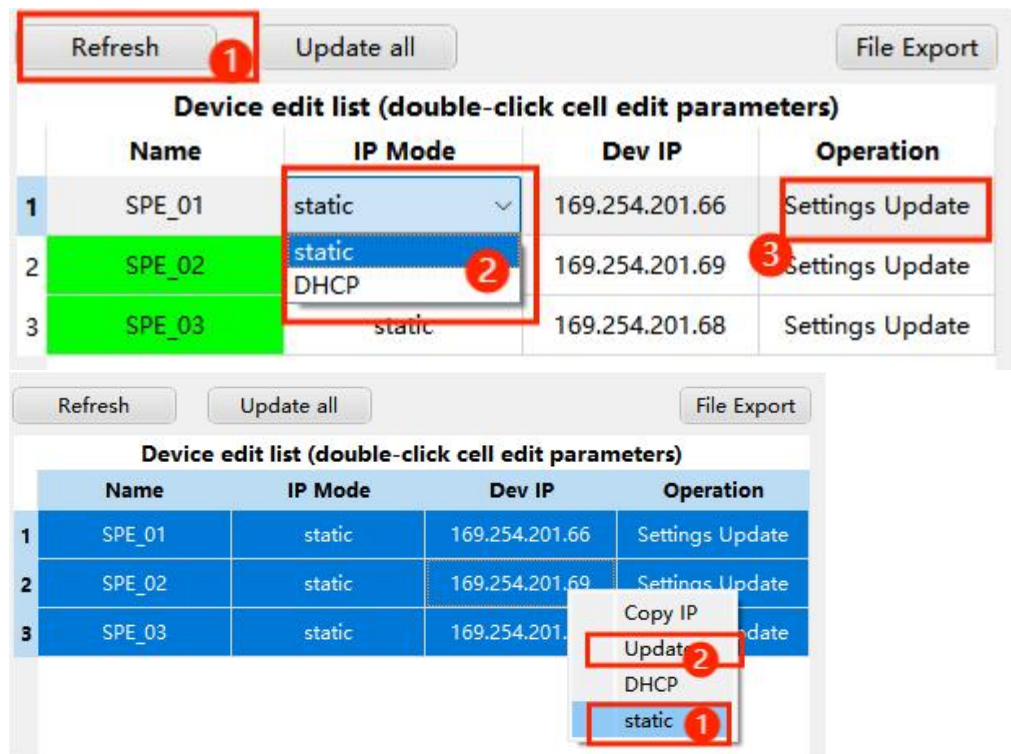
a) Multiple devices' information can be exported in csv file.



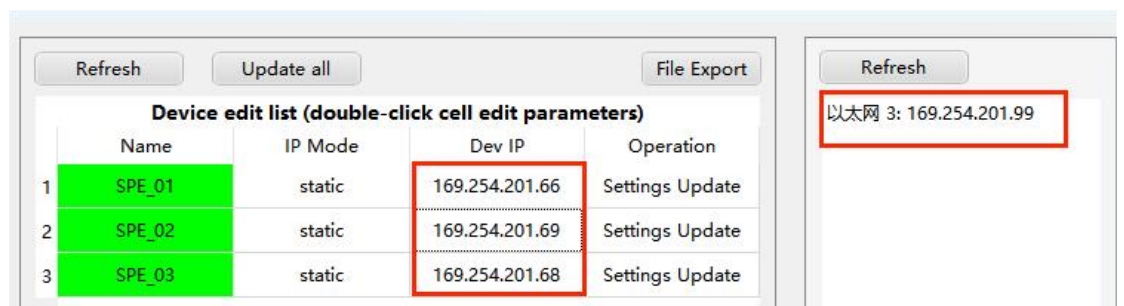
(b)The user system can connect to the new device through the latest device dynamic IP address.

Configuring a static IP address is similar to configuring a dynamic IP address.

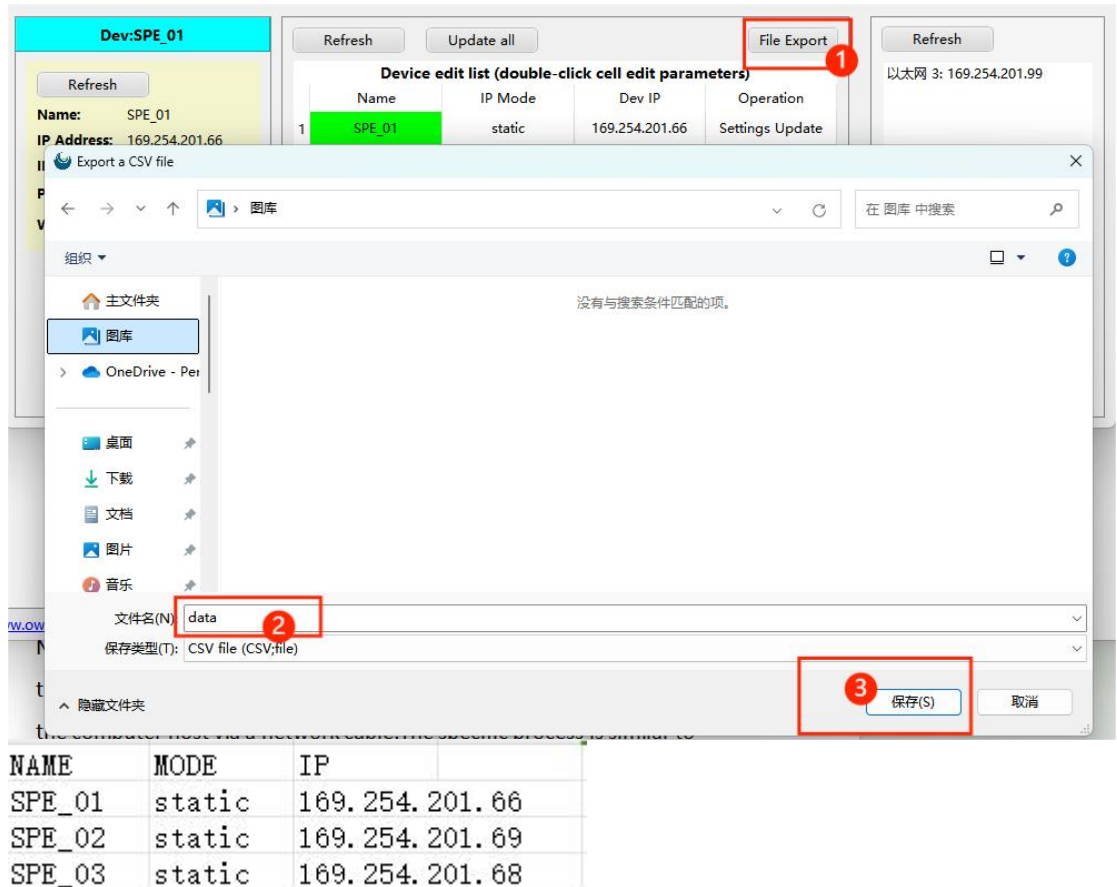
- Connect multiple devices to the router device
- Search the online device list, select all IP modes, edit the configuration to static IP, confirm the change, you can modify a single device, or modify the selected device in batches by right-clicking.



- c) Edit the IP address at the same time and change the device's IP address to the same network segment as the host Ethernet IP address



- d) Multiple devices' information can be exported in csv file.



Note: If the user does not have a router device, then can use a computer to configure the device one-to-one, the device is directly connected to the computer host via a network cable, The specific process is similar to the multiple device configuration method.

2.SPE software operation guide

2.1 CC/CV Mode

User can use USB series /LAN port to remote control SPE series product, here is CC/CV MODE main page.



2.1.1 CC/CV operation introduction

1. Parameters input edit box.

User can input the targeted voltage and current setting and OCP, OVP.

Note: the new data in the edit box would take effect only when “Update” button or “Enter” Key is pressed.

This screenshot shows the 'Voltage/Current Settings' and 'Parameter Setting' sections of the interface. The 'Voltage/Current Settings' section has two input fields: 'Voltage Setting (V)' with a value of 20.00 and 'Current Setting (A)' with a value of 0.000. The 'Parameter Setting' section has a 'Protection Settings' section with two input fields: 'OVP' with a value of 80.00 V and 'OCP' with a value of 31.000 A.

2. Display area.

The output data (Output voltage, Current and Power) can be display in this area in the form of numbers and curves.

When output is turned off, then you can export the data in csv.file.

Note that the data can be recorded up to 24 hours and the data sampling interval is 1 second.





Time(s)	Volt(V)	Curr(A)
0	19.988	0
1	20	0
2	20	0
3	20	0
4	20	0
5	20	0
6	20.097	0
7	20.199	0
8	20.296	0
9	20.397	0
10	20.4	0
11	20.5	0
12	20.79	0
13	20.996	0
14	21.094	0
15	21.574	0