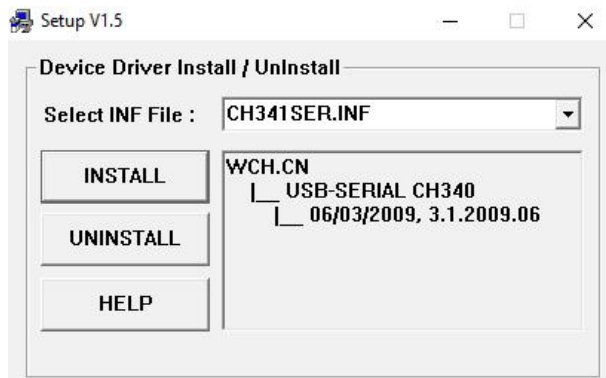


Single Channel DC_Power_Multimeter_Control Software Instruction

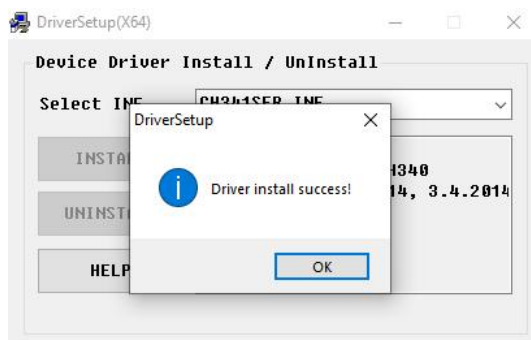
Please refer to our official website(www.owon.com.hk/download) to acquire PC software and relative files, including PC software, driver and software installation guide.

Install Driver

1. Click to unzip “driver.zip”, double-click USB-SERIAL_Install_Windows_Vx_x , decompress the serial port Chip Driver package and install the CH340 driver:



2. Click Install, wait for the installation to complete, click **OK**, as shown below:

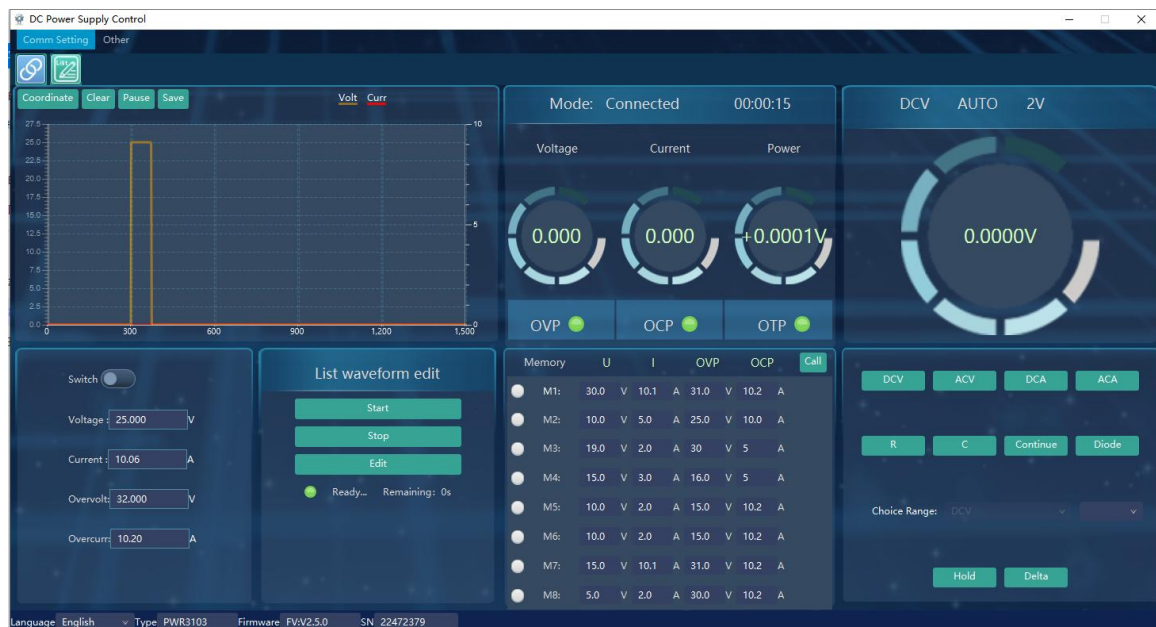


3. Go back to the computer and click **Device Manager** to check the COM number and driver, as shown below :



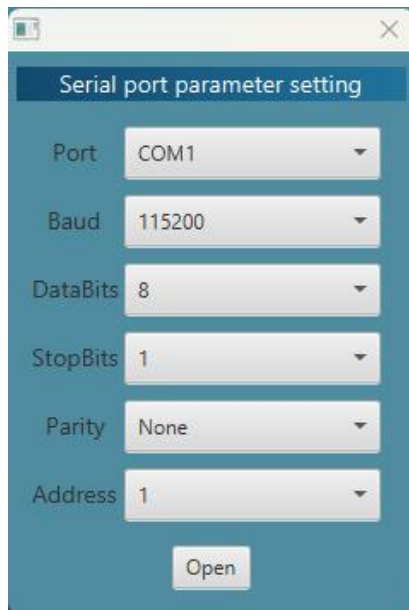
Software Operation

Click to unzip “PC software.zip”, double-click the right mouse button to open the “exe” file, save the other files. The initialization screen is displayed, as shown in the following figure.

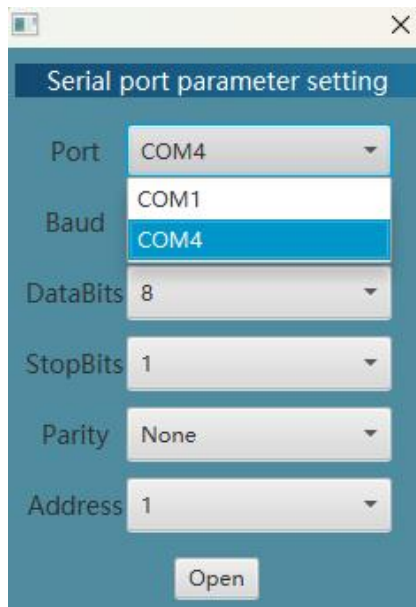


How to connect

1. Click “**Comm Setting**” from left-top Menu bar, the serial port parameter setting screen is displayed.



2. Set serial port parameters to set a port number, click the drop-down list, and select a COM number corresponding to the COM number of **"USB-SERIAL CH340"**. Other parameters are the default values.



3. Click **"Open"** to complete the control connection of the upper computer.

Serial port parameter setting

Port COM4

Baud 115200

DataBits 8

StopBits 1

Parity None

Address 1

Open

Interface Guide



Description:

- 1、 Measurement type indication.
- 2、 Range indication: Manu indicates manual range, Auto indicates automatic range.
- 3、 Current measuring range.
- 4、 Display area of the actual output value.
- 5、 Measurement button.
- 6、 Range selection.
- 7、 Difference value key.
- 8、 Reading hold button.
- 9、 Output OVP/OCP/OTP warning area.
- 10、 Quick set area.
- 11、 List waveform editing function area.
- 12、 Model information bar.
- 13、 Channel status area.
- 14、 Voltage/Current wave area.
- 15、 Quick key.
- 16、 Menu Bar.
- 17、 Actual output display area.
- 18、 Connection status.
- 19、 Display the power output duration.

Note:

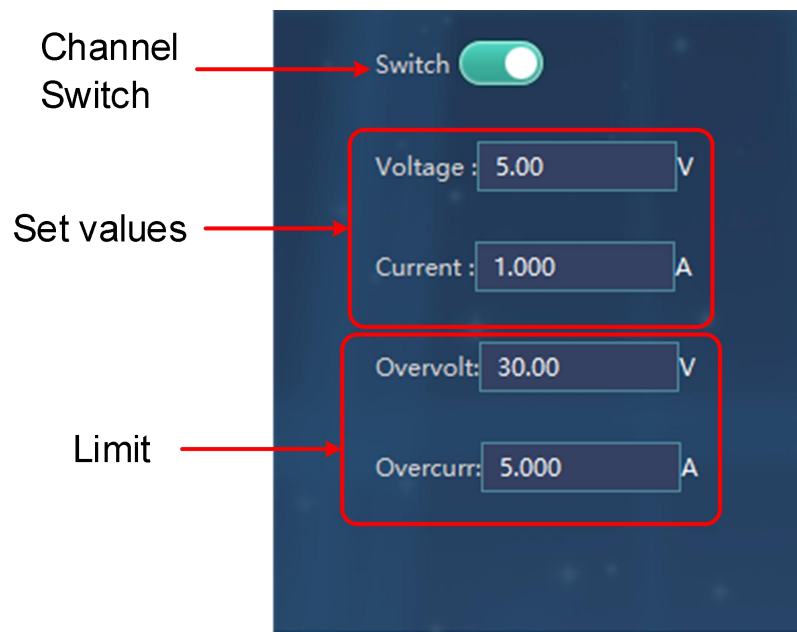
(1) 1~8 are multimeter Settings, 9~11, 13~15 and 17~19 are power Settings;

(2) 12 and 16 are common part.

How To Use Power

Channel Status Area

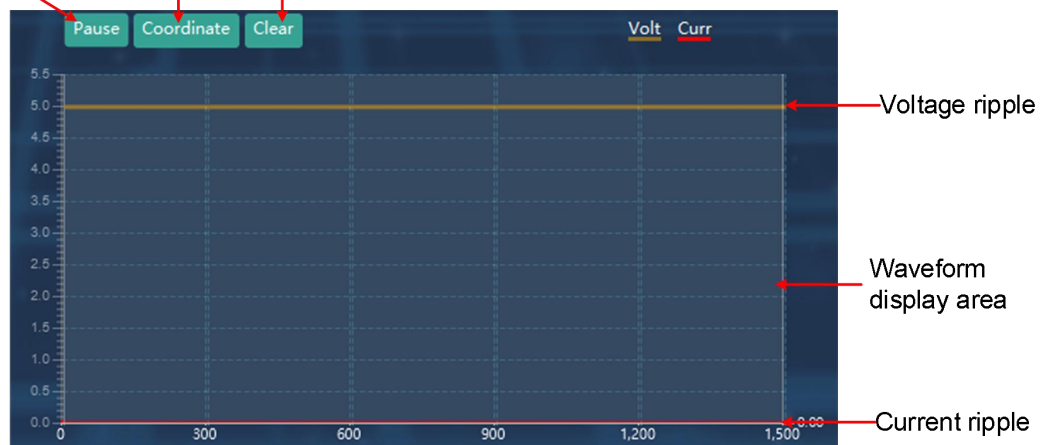
Parameter setting: Enter the required parameters in the parameter editing box and press Enter to complete the parameter setting.



Voltage/Current waveform Area

When the channel is open, the Voltage/Current curve of the channel can be observed in the waveform area.

Pause/recover waveform output Coordinate setting key Clear key

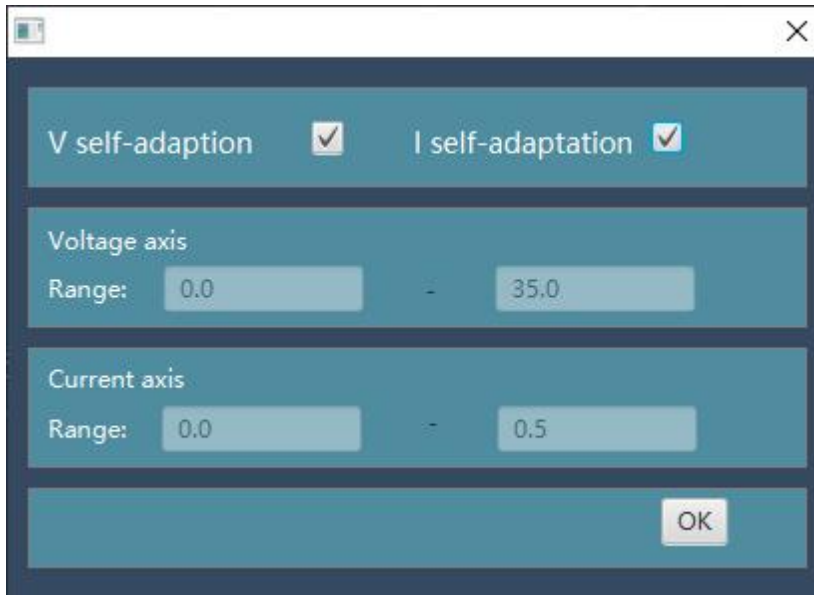


Coordinate

Click the “**Coordinate**” setting in the voltage/Current waveform display area to jump out of the setting interface and select the adaptive mode or manually enter the numerical mode.

Adaption mode

Click "☐" next to electric pressure shaft adaptive and current adaptive, and the state is "☒". Click "**OK**" to realize the adaptive mode.



The screenshot shows a dialog box titled 'Coordinate' with a close button (X) in the top right corner. It contains two sections: 'V self-adaption' and 'I self-adaption', both with checked checkboxes. Below these are two sections for range settings: 'Voltage axis' with a range from 0.0 to 35.0, and 'Current axis' with a range from 0.0 to 0.5. An 'OK' button is located at the bottom right.


Manually enter a numerical mode

Enter the desired coordinates and click” **OK**” to confirm the input.



The screenshot shows the same 'Coordinate' dialog box, but in manual mode. The checkboxes for 'V self-adaption' and 'I self-adaption' are now unchecked. The range settings for 'Voltage axis' (0.0 to 35.0) and 'Current axis' (0.0 to 0.5) remain the same. The 'OK' button is still at the bottom right.

List waveform editing Area

1. Click  in the upper left corner or directly click “**edit**” in the List waveform editing area. Input the required voltage, current, time, and Y/N after the serial number in the table (unchangeable) (when set to Y, the

data is normally output; when set to N, the data is not output). The number of data groups can be set to 1-100;

2. Parameter setting: Enter the required parameters in the parameter editing box and press “**Enter**” to complete the parameter setting.
3. Set the start group number, end group number, and period for data output in sequence. Click “**Start**” to output data in sequence;
4. Click “**Stop**” to stop data output.



ID	Voltage(V)	Current(A)	Delay(S)	Y / N
1	5	1	2	Y
2	5	1	2	Y
3	5	1	2	N
4	5	1	2	Y
5	5	1	2	Y
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Quick Set Area

We can set 8 groups of common values (M1-M8) by ourselves, which is convenient for subsequent direct calls.

Set the parameter

Let's take setting the M1 parameter as an example:

Click  after M1 to make it the selected state . In U/I/OVP/OCP, input the required voltage/current/output overvoltage/output overcurrent values, and so on, up to 8 groups of values can be input.

Memory	U	I	OVP	OCP	Call
<input checked="" type="radio"/> M1:	5	V 1	A 30	V 5	A
<input type="radio"/> M2:	5	V 1	A 30	V 5	A
<input type="radio"/> M3:	5	V 1	A 30	V 5	A
<input type="radio"/> M4:	5	V 1	A 30	V 5	A
<input type="radio"/> M5:	5	V 1	A 30	V 5	A
<input type="radio"/> M6:	5	V 1	A 30	V 5	A
<input type="radio"/> M7:	5	V 1	A 30	V 5	A
<input type="radio"/> M8:	5	V 1	A 30	V 5	A

Call the numerical

Let's take setting the M1 parameter as an example:

Click ☒ after M1 to make it the selected state ☒, Click the **"Call"** in the upper right corner of the quick setting area to quickly deliver the four parameters U/I/OVP/OCP to the power supply.

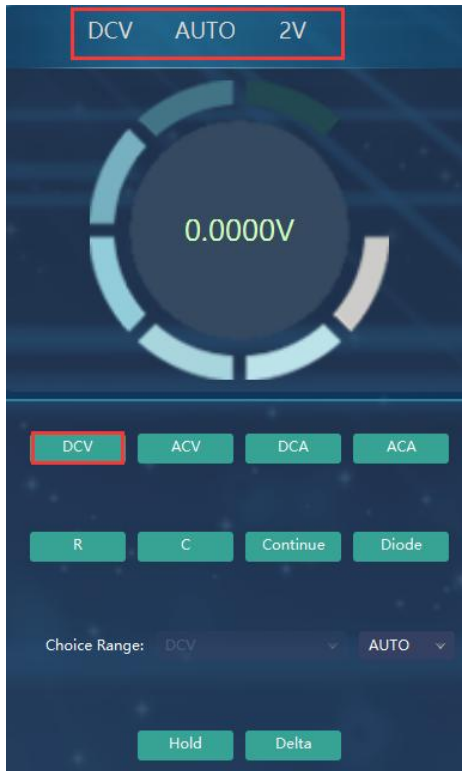
Memory	U	I	OVP	OCP	Call
<input checked="" type="radio"/> M1:	5	V 1	A 30	V 5	A
<input type="radio"/> M2:	5	V 1	A 30	V 5	A
<input type="radio"/> M3:	5	V 1.0	A 30	V 5	A
<input type="radio"/> M4:	5	V 1	A 30	V 5	A
<input type="radio"/> M5:	5	V 1	A 30	V 5	A
<input type="radio"/> M6:	5	V 1	A 30	V 5	A
<input type="radio"/> M7:	5	V 1	A 30	V 5	A
<input type="radio"/> M8:	5	V 1	A 30	V 5	A

How To Use Multimeter

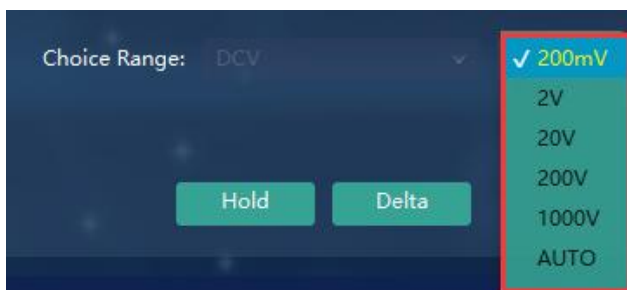
Select Function

Voltage, resistance, capacitance, on-off, and diode tests are illustrated using DC voltage as an example.

- (1) Click **"DCV"** at the bottom, and the corresponding information will be displayed on the top, as shown in the following figure. When switching functions, click the corresponding function button, and the instrument interface will switch to the corresponding function.

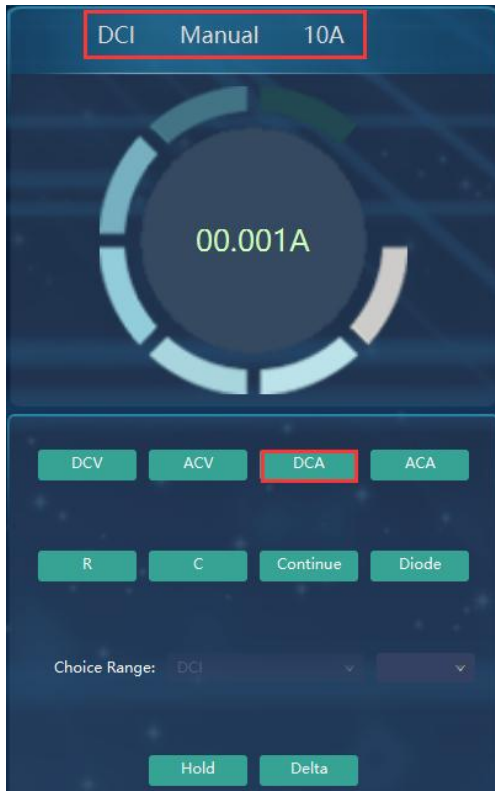


- (2) Insert the black test pen into **COM** input terminal and the red test pen into **VΩ→←** input terminal respectively.
- (3) Connect the other ends of the red and black test pens to the tested point respectively, and read the displayed value.
- (4) Under the range selection function, click the right drop-down box to select the appropriate range.



The current test is illustrated with an example of DC current.

- (1) Click "**DCA**" at the bottom, and the corresponding information will be displayed on the top, as shown in the following figure. When switching functions, click the corresponding function button, and the instrument interface will switch to the corresponding function.



- (2) Insert the black test pen into **COM** input terminal and the red test pen into **A** input terminal respectively.
- (3) Connect the other ends of the red and black test pens to the tested point respectively, and read the displayed value.
- (4) Under the range selection function, click the right drop-down box to select the appropriate range.



Reading Hold Mode

Under Reading Hold Mode, current reading can remain on the display screen.

- (1) Press **Hold** button, and the current reading will be held and the display screen will show **Hold**.
- (2) Then press **Hold** button again to exit this mode.



Relative Measurement

Reading under relative measurement is the difference between the stored reference value and the input signal.

- (1) Press **Delta** button to enter the relative value measurement mode, **Delta** will be displayed on the multimeter interface, Δ (current reading) will be displayed on the instrument display screen. The measured value when pressing the button will be stored as the reference value. In this mode, Δ (current reading) = input value – reference value.
- (2) Then press **Delta** button again to exit this mode.

