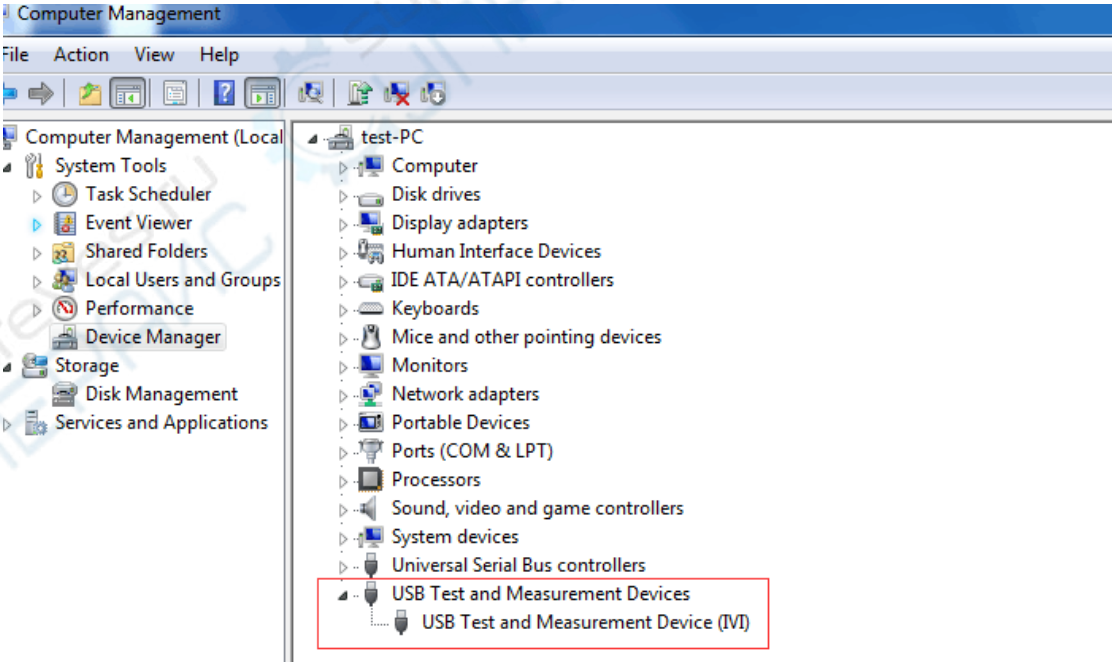
DMMEasyControl Software Guide

Install Driver

1. Before start DMMEasyControl, please download and install the driver from NIVISA:
   Open http://www.ni.com, search "**NI-VISA**", click the link of NI-VISA Download. In the download page, select the supported OS and version (the recommended version is **15.0.1**), and then download the driver.
   A warning information will pop out if you didn't install this driver before start.
2. Right click [**Computer**], you can find it on the desktop, or in [**Start**] menu. In the drop-down menu, click on [**Manage**], the "Computer Management" window opens.

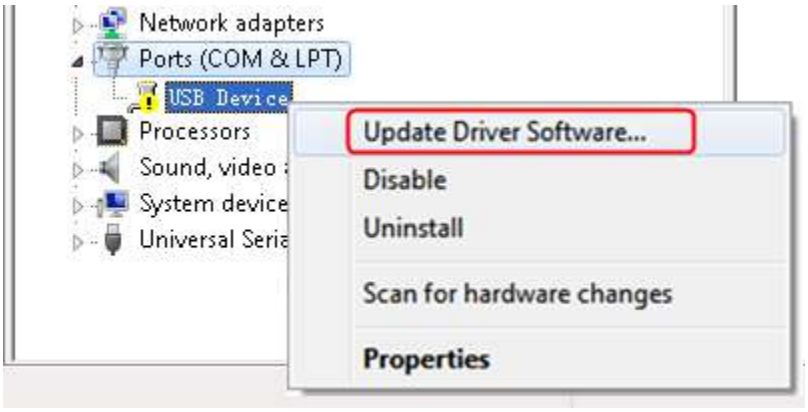
Click on "**Device Manager**" on the left hand side. On the right hand side, double click on "**USB Test and Measurement Devices**".



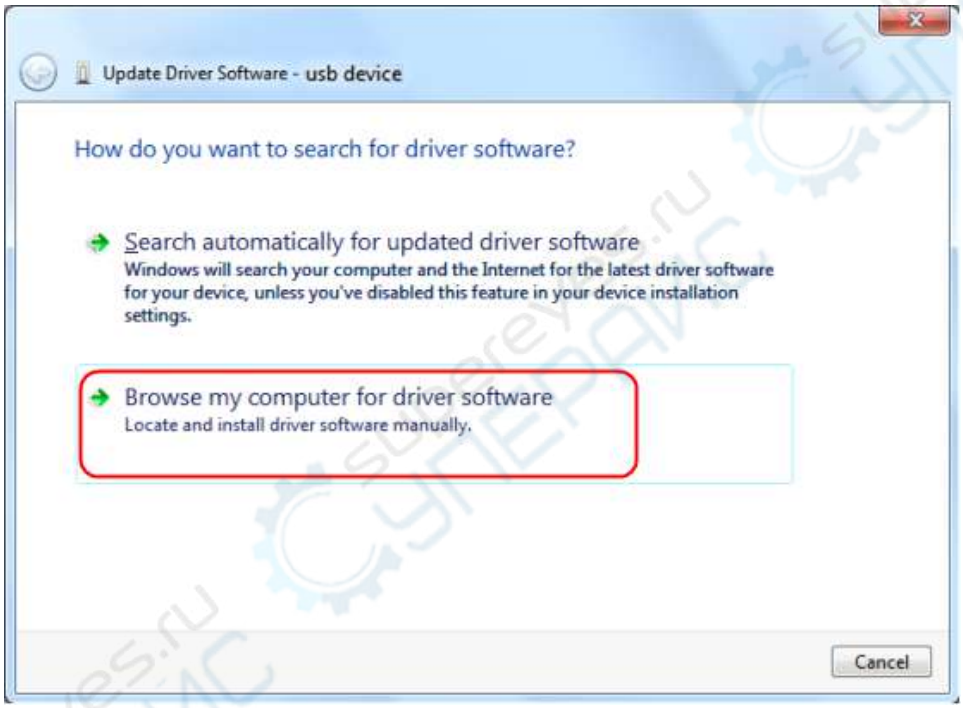
If "**USB Test and Measurement Devices (IVI)**" is displayed, that means the driver is installed successfully.

3. If "**USB Test and Measurement Devices (IVI)**" is not displayed, follow the steps below to install the driver manually.

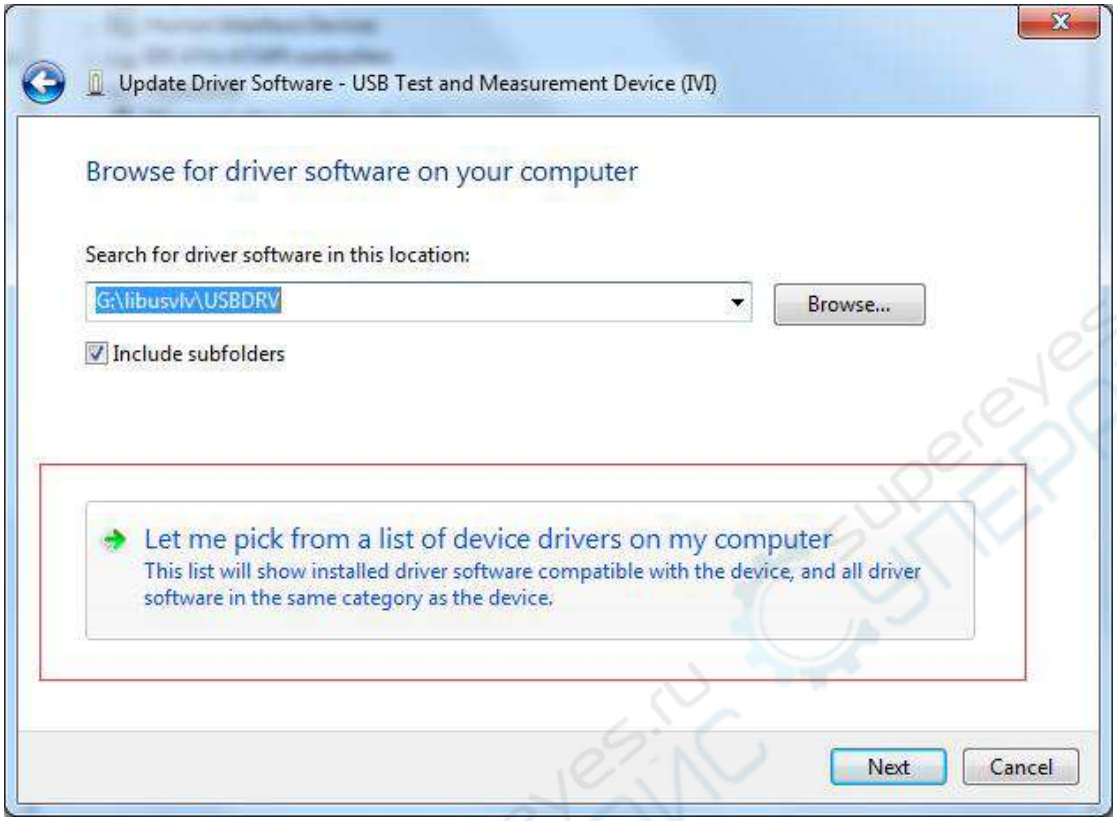
Right click the unknown device icon, in the drop down menu, click "**Update Driver Software...**".



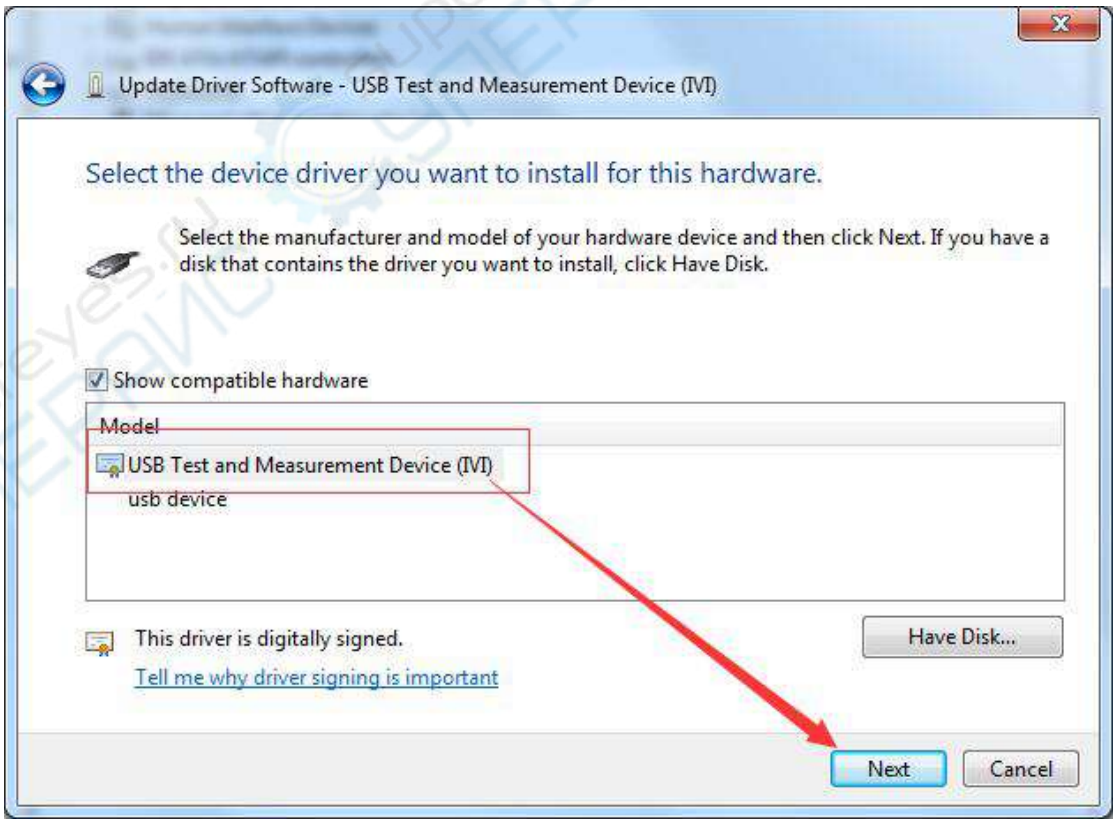
Select "**Browse my computer for driver software**".



Select a directory path for the driver, and click "**Next**".



Click "**Next**".



After installing successfully, click "**Close**".
In Device Manager, check if "**USB Test and Measurement Devices (IVI)**" is displayed under USB Test and Measurement Devices.

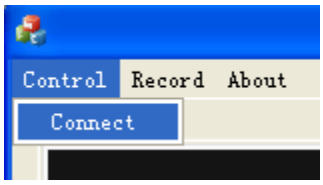
Install Software

Install DMMEasyControl.

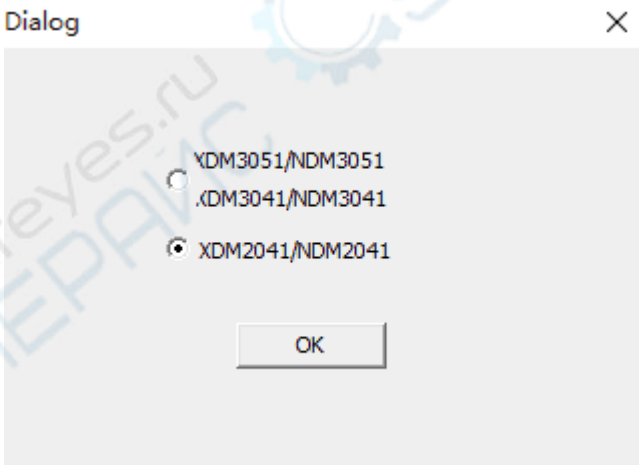
How to Connect

Bench multimeter support VGA communication with PC.

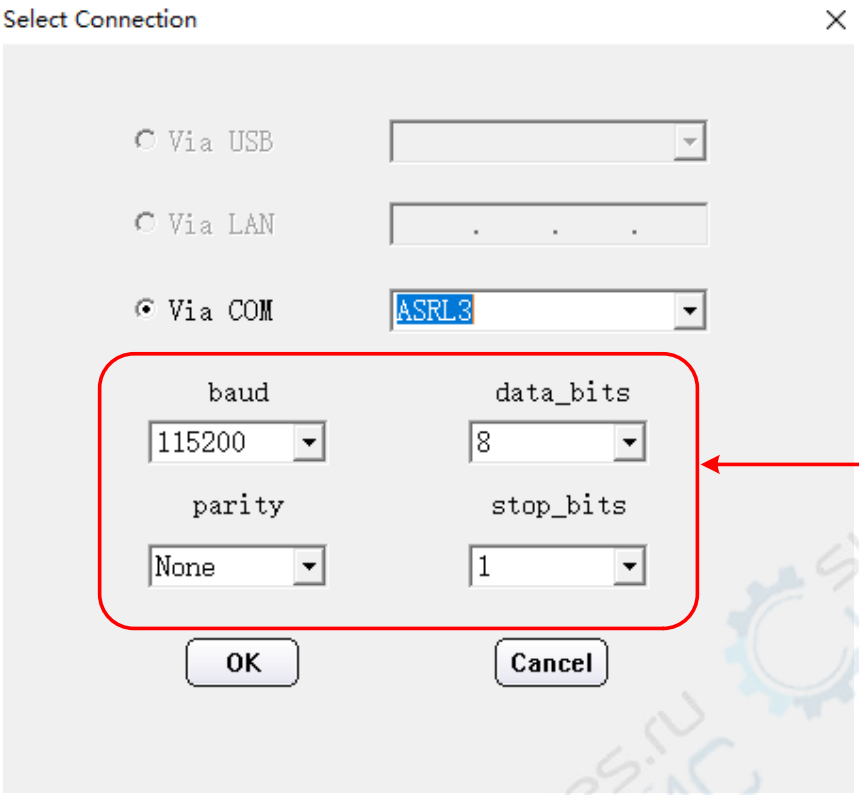
1. Start DMMEasyControl.
2. **Connection：** Use VGA cable to connect the bench multimeter VGA port with PC USB or VGA port.
3. **Connection Setting：** Click **Control** on left-top side of software menu bar, select **Connect** on list.



4. Select XDM2041/NDM2041, Click OK.

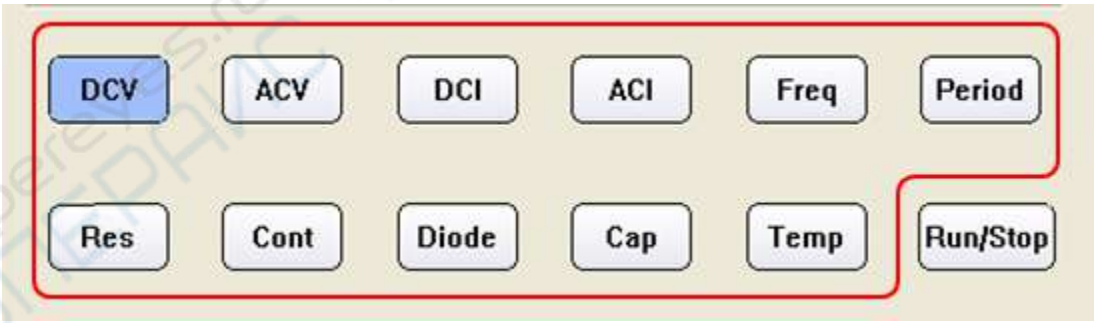


5. Select Via COM, and choose the corresponding serial number on the list. Click OK.



Select and Configure Measurement

Click measure button in function area to start measure, they are: DC voltage, AC voltage, DC current, AC current, Frequency, Period, Resistance, Continuity, Diode, Capacitance and Temperature.

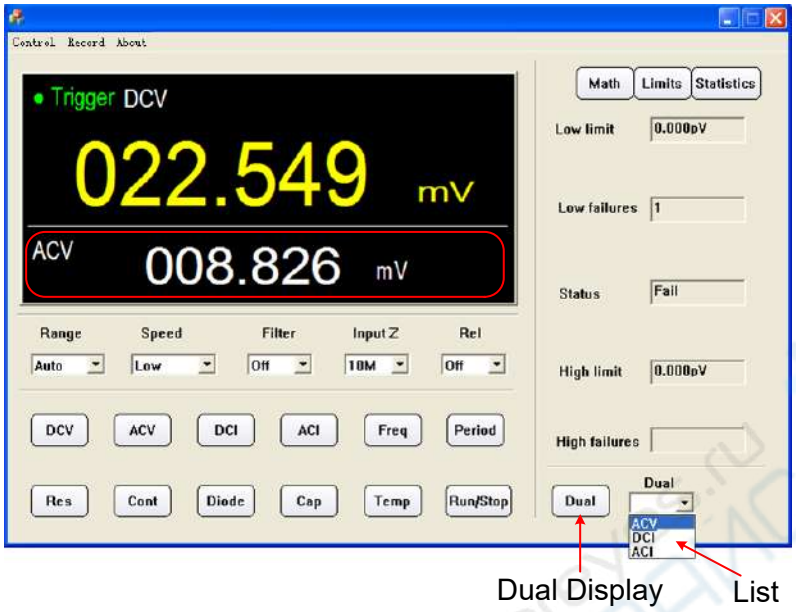


Configure the parameter in parameter setting area.

Dual Display

After selecting measure subject, click **Dual**, right side drop down list will show the supported sub-display subject. Select the sub-display subject and begin dual display mode.

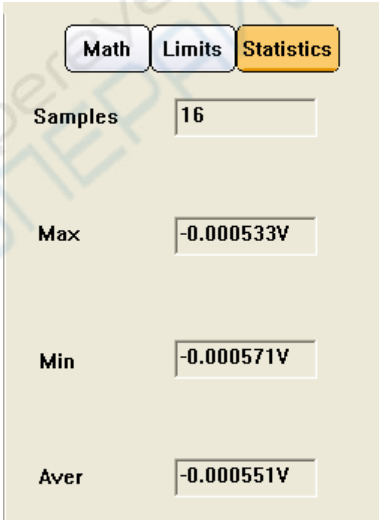
Note: If **Dual** is in grey, it means the measure subject doesn't support dual display.



Statistics

Click **Statistics** to start the function, the result display under the button line, they are: Sample amount, Maximum value, Minimum Value, Average value.

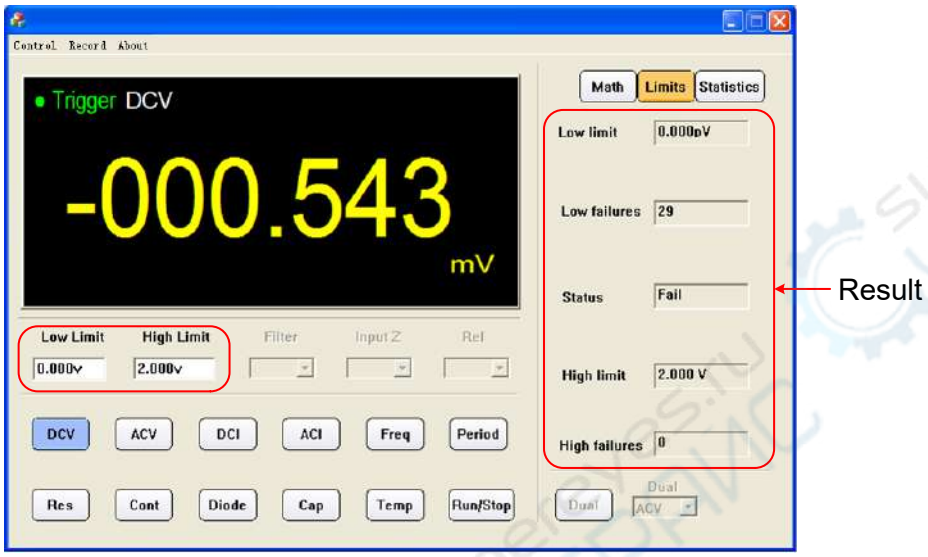
Note: If **Statistics** is in grey, it means the measure subject doesn't support statistics mode.



Limit Value Mathematics

Click **Limit** to start this function. Set the high and low limit value in parameter area. Limit result displays under the button line, they are: Low limit, low limit break times, limit mathematics status (Pass means the readings don't exceed the limit, Fail means exceeding), High limit, High limit break times.

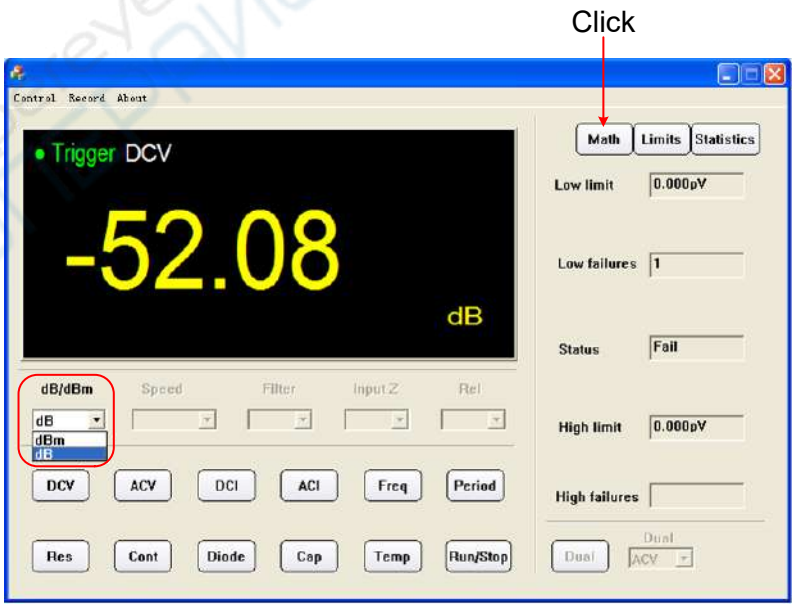
Note: If **Limit** is in grey, it means the measure subject doesn't support limit value mode.



dB/dBm Mathematics

Click **Math**, select dB or dBm in parameter area to begin mathematics.

Note: If **Math** is in grey, it means the measure subject doesn't support dB or dBm mathematic.

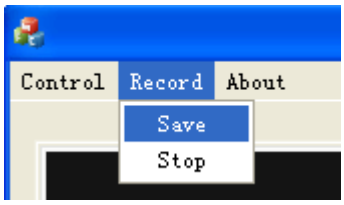


Data Record Function

Data record function includes manual record and auto record. Data could be saved as XLS format after record.

Auto Record：

1、 Click left-top menu and select Record, select Save from pull-down menu. Choose the save path, input the folder name and click Save.

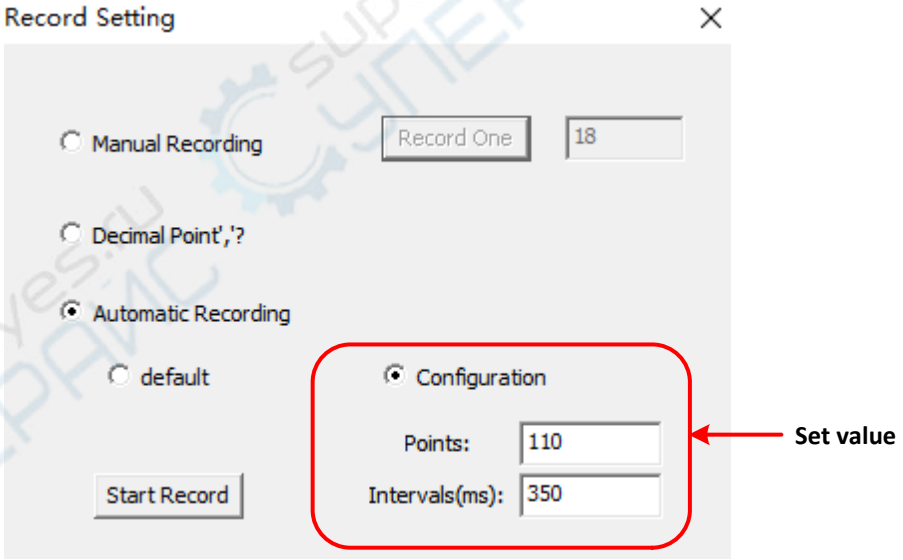


2、 Enter the setting interface, select Automatic Recording .

3、 Select default， click Start Record ， then the data will be recorded automatically.

4、 Select Configuration， enter the record points and interval time (≥ 300 ms) in the interface, click Start Record, then the data will be recorded automatically

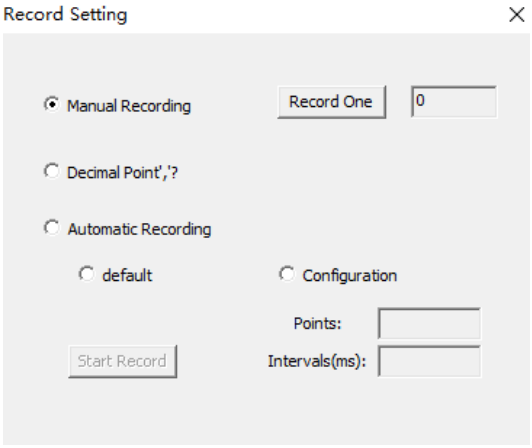
5、 Click the **Record** and select **Stop** to stop saving data.



Manual Record：

1、 Click left-top menu and select **Record**, select **Save** from pull-down menu. Choose the save path, input the folder name and click **Save**.

2、Enter the setting interface, select **Manual Recording**, click **Record One**, save data once with one click, click ⊠ to stop saving data.



XLS file format:

	Date/Time	DCV (V)	ACV (V	DCI (A)	ACI (A)	Freq (Hz)	Period (S)	Res (Ω)	Cap (F)	Temp (℃)
2	2017/5/26->14:14:42	0.286	-	-	-	-	-	-	-	-
3	2017/5/26->14:14:59	0.286	-	-	-	-	-	-	-	-
4	2017/5/26->14:15:00	0.286	-	-	-	-	-	-	-	-
5	2017/5/26->14:15:00	0.286	-	-	-	-	-	-	-	-
6	2017/5/26->14:15:01	0.286	-	-	-	-	-	-	-	-
7	2017/5/26->14:15:01	0.286	-	-	-	-	-	-	-	-
8	2017/5/26->14:15:01	0.286	-	-	-	-	-	-	-	-
9	2017/5/26->14:15:02	0.286	-	-	-	-	-	-	-	-
10	2017/5/26->14:15:02	0.286	-	-	-	-	-	-	-	-
11	2017/5/26->14:15:03	0.286	-	-	-	-	-	-	-	-
12	2017/5/26->14:15:03	0.286	-	-	-	-	-	-	-	-
13	2017/5/26->14:15:03	0.286	-	-	-	-	-	-	-	-
14	2017/5/26->14:15:04	0.286	-	-	-	-	-	-	-	-
15	2017/5/26->14:15:04	-	3.099	-	-	-	-	-	-	-
16	2017/5/26->14:15:05	-	3.099	-	-	-	-	-	-	-
17	2017/5/26->14:15:05	-	3.099	-	-	-	-	-	-	-
18	2017/5/26->14:15:05	-	3.1	-	-	-	-	-	-	-
19	2017/5/26->14:15:06	-	3.1	-	-	-	-	-	-	-
20	2017/5/26->14:15:06	-	3.1	-	-	-	-	-	-	-
21	2017/5/26->14:15:07	-	3.1	-	-	-	-	-	-	-
22	2017/5/26->14:15:07	-	3.099	-	-	-	-	-	-	-
23	2017/5/26->14:15:07	-	3.099	-	-	-	-	-	-	-
24	2017/5/26->14:15:08	-	3.099	-	-	-	-	-	-	-
25	2017/5/26->14:15:08	-	3.1	-	-	-	-	-	-	-
26	2017/5/26->14:15:09	-	3.1	-	-	-	-	-	-	-

V1.0.0