

## PeakTech P 4096 Bench Multimeter Installation Guide

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**PeakTech®**

**PeakTech P 4096 Bench Multimeter Installation Guide**



## DMM Easy Control Software Guide

### Install Driver

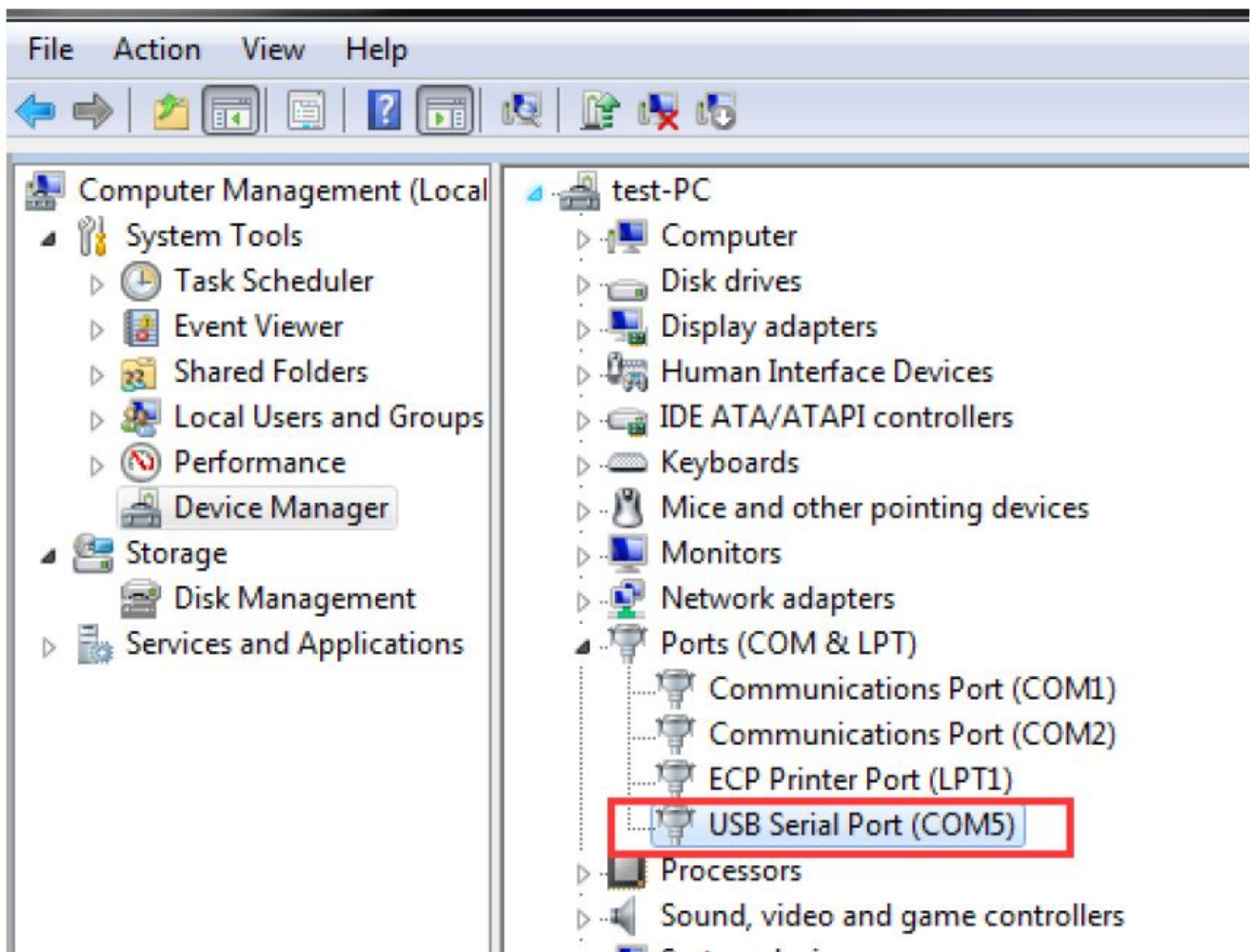
#### For P 4095 and P 4096

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.
- 3.



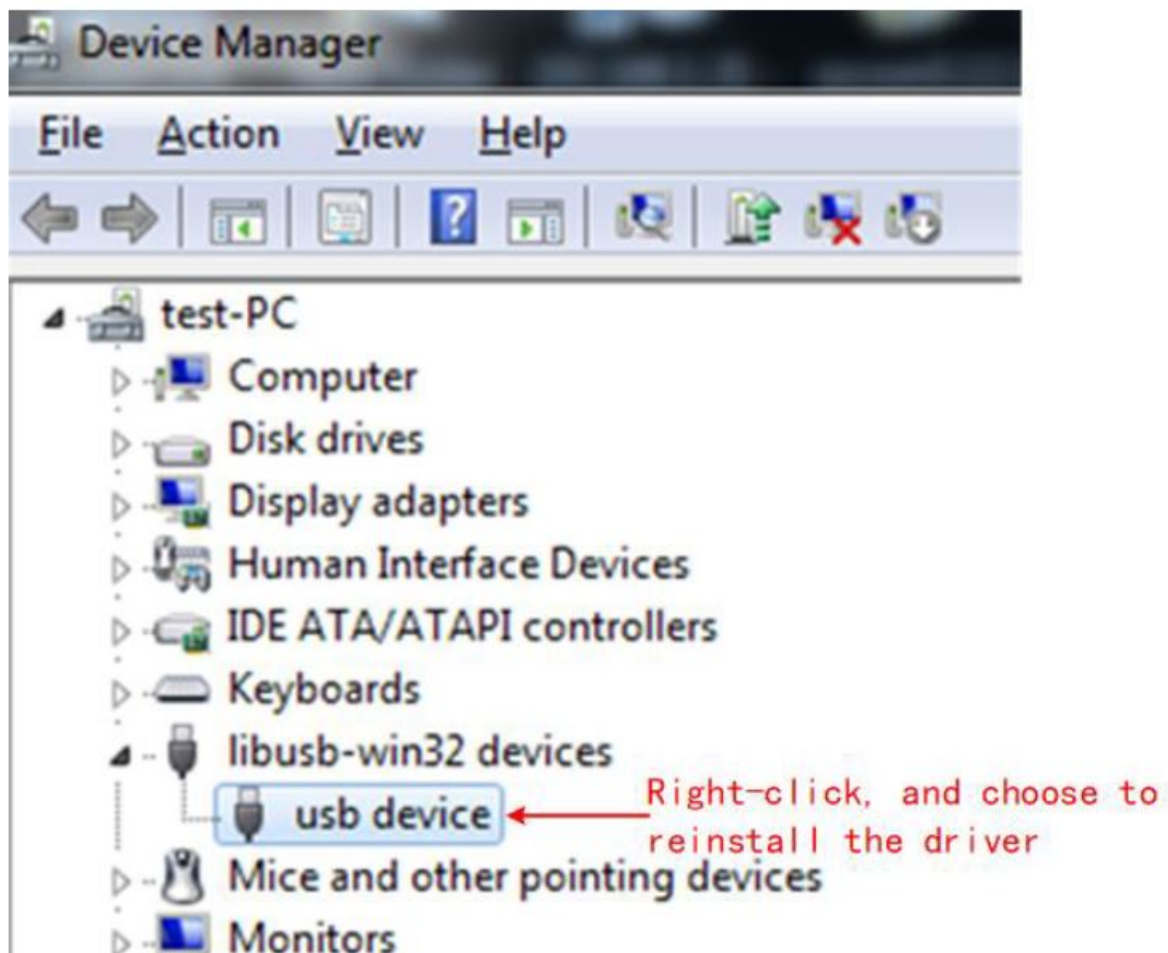
4. Click on "Device Manager" on the left hand side. On the right hand side, double click on "USB Test and Measurement Devices".

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

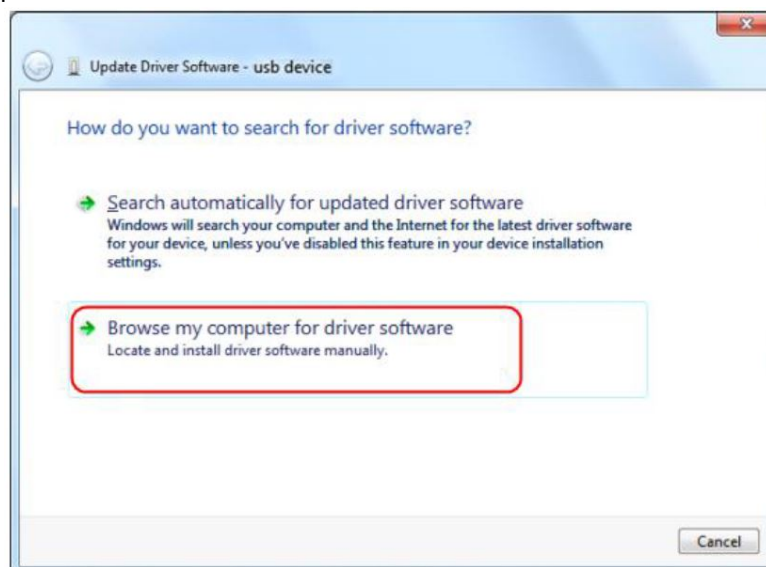


5. If "USB Test and Measurement Devices (IVI)" is not displayed, follow the steps below to install the driver manually.
6. 8. If "USB Test and Measurement Devices (IVI)" is not displayed, follow the steps below to install the driver manually.

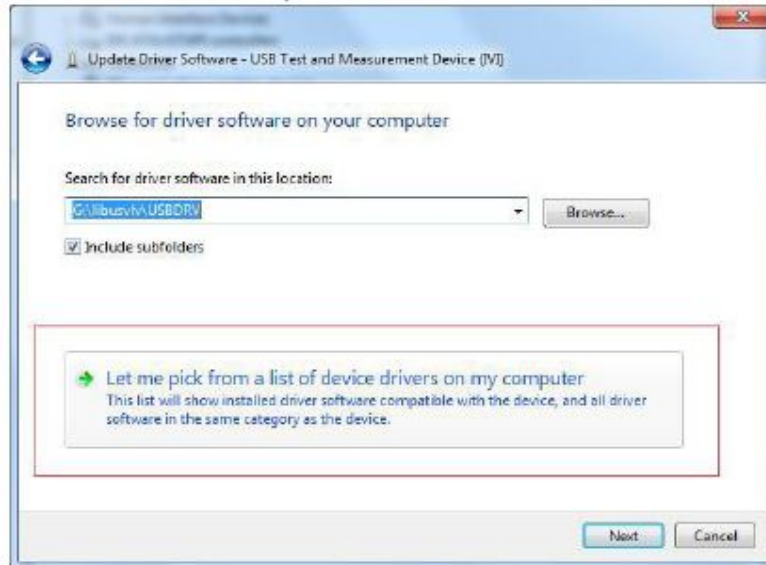
Right click the unknown device icon, in the drop down menu, click "Update Driver Software...".



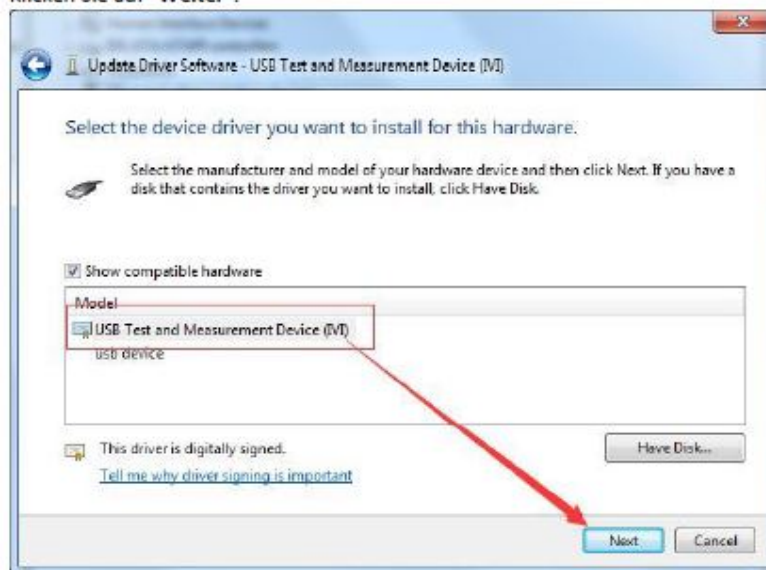
Select "Browse my computer for driver software".



Wählen Sie einen Verzeichnispfad für den Treiber und klicken Sie auf "Weiter".



Klicken Sie auf "Weiter".

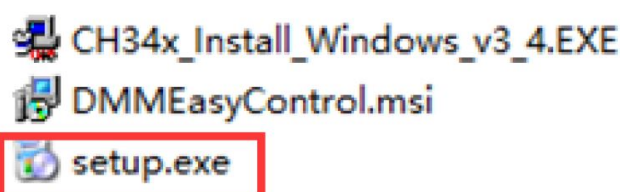


After installing successfully, click "Close".

In Device Manager, check if "USB Test and Measurement Devices (IVI)" is displayed under USB Test and Measurement Devices.

#### For P 4094 (available in COM port)

- 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.
- Find "setup.exe" in the installation package, and click to install the software as prompted.



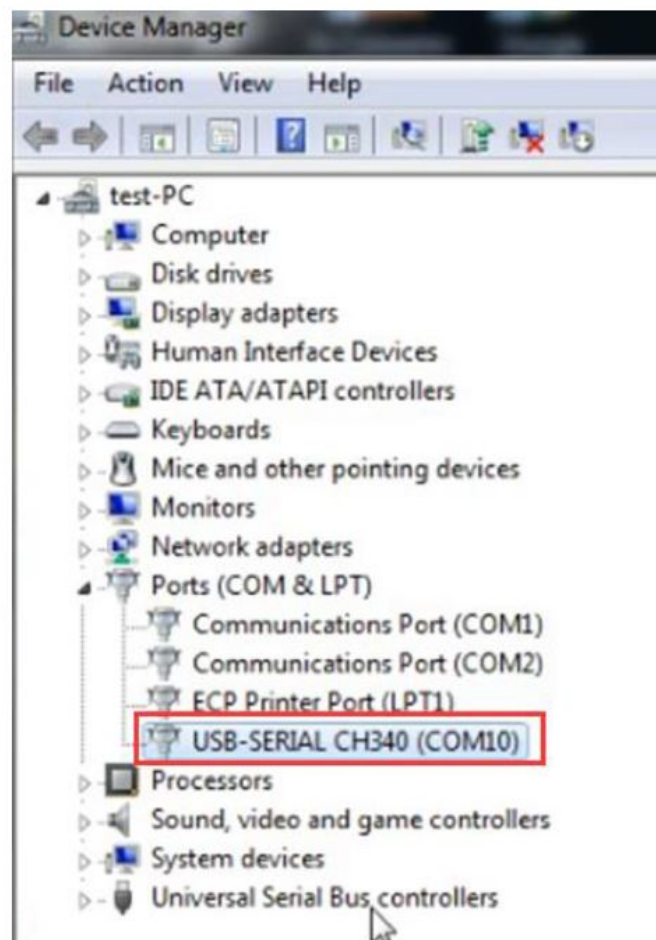
- Drive selection: Find the "My Computer" or "Computer" icon on the computer desktop, right-click the icon, and



then click “Manage” to open the Computer Management window.



- Select the serial port driver corresponding to the connection cable of the instruct mint (Note: Use different serial port connection cable, the driver may be differed nit), as shown in the figure below:



- After completing the above installation steps, you can use the multimeter PC software.

### How to Connect

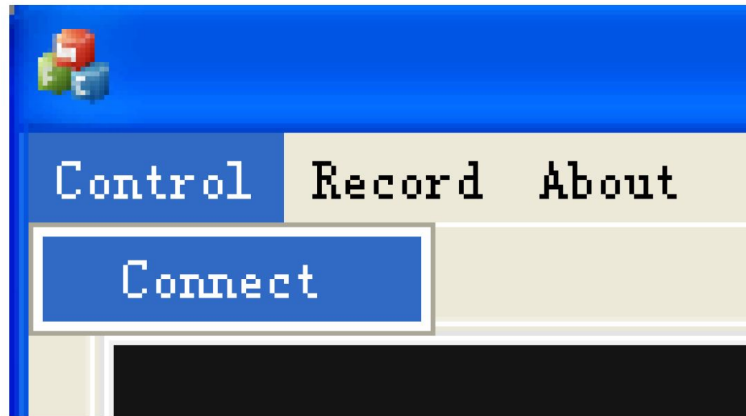
The desktop multimeter can communicate with the computer through its own interface, which is USB, LAN or COM interface .

**For P 4095 and P 4096**

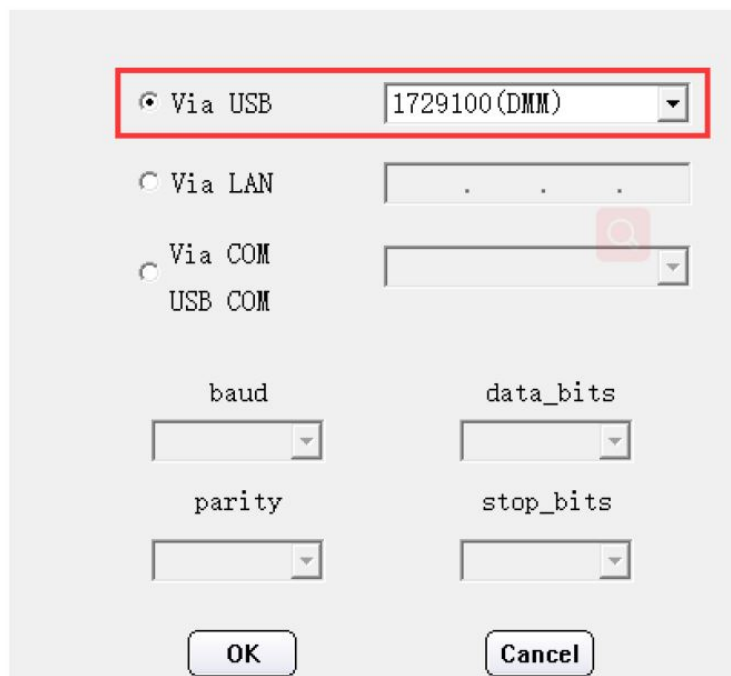
**Connect by USB**

- Start DMMEasyControl.
- **Connection Use** USB cable to connect the bench multimeter USB port with PC USB port.

- **Connection Setting** Click Control on left-top side of software menu bar, select Connect on list.



- Select Via USB and choose the corresponding serial number on list(Select the port with the suffix DMM, as shown in the red box in the figure below). Click OK.

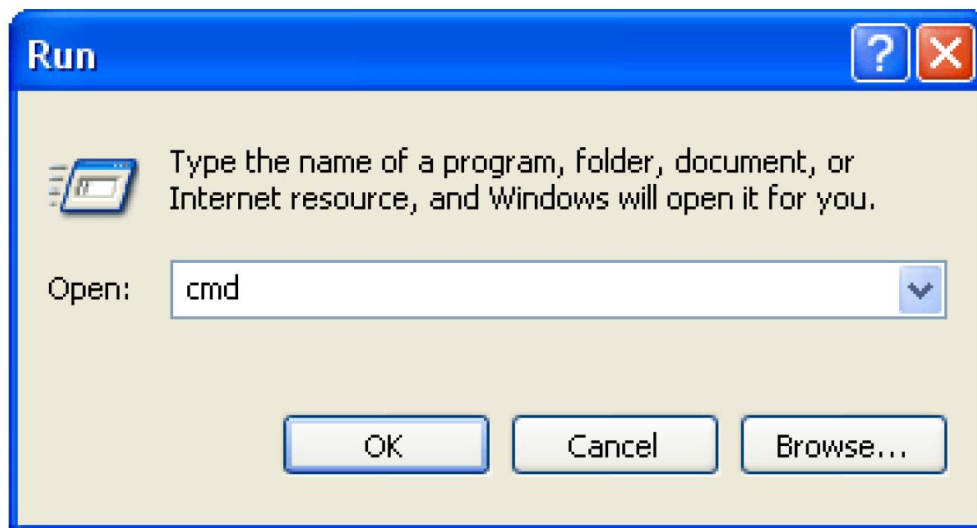


How to check serial number in bench multimeter Press on multimeter front panel, select Next, select System Info, the serial number (Sternum) will display on screen.

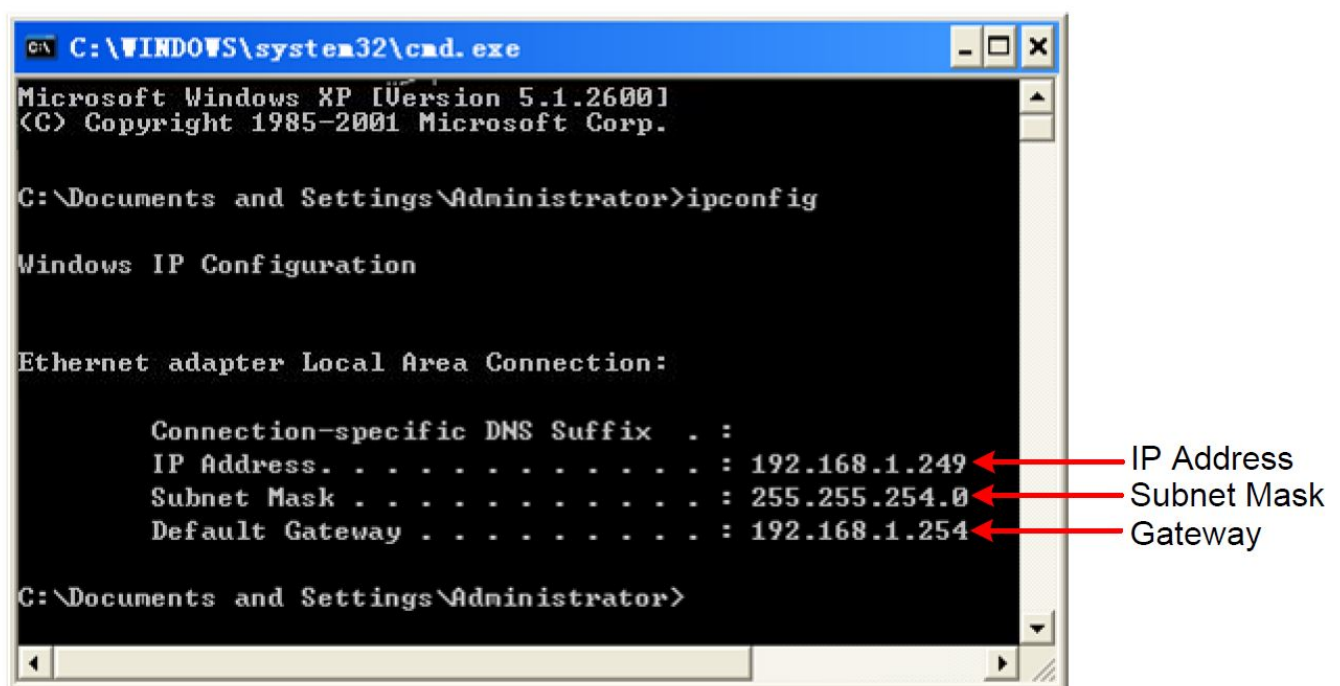
## Connect by LAN

- **Connection Use** LAN cable to connect the bench multimeter LAN port with PC LAN port.
- View the network parameters of the computer.

Click on your Start button, and then hitting Run, and type in CMD in the box and hit Enter to bring up your command prompt.



Type in IPCONFIG after the new prompt that is opened in the Dos window. This will bring up the network information on your system.



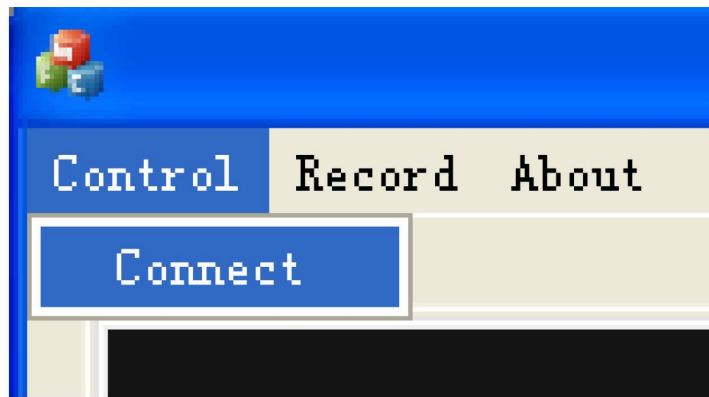
- Set the network parameters of the multimeter.

Press the front panel key, press the NET Type softkey to select LAN. Press the LAN Setting softkey, set the IP address, subnet mask, gateway, port. IP address: The first three bytes is same as the IP of computer, the last byte should

be different. Here, we set it to 192.168.1.99. Subnet mask and gateway should be the same as the computer. Set port as "3000". Restart the multimeter for the parameter changes to take effect.

- Set the network parameters of the Software. Start DMMEasyControl. Click Control on left-top side of software menu bar, select Connect.



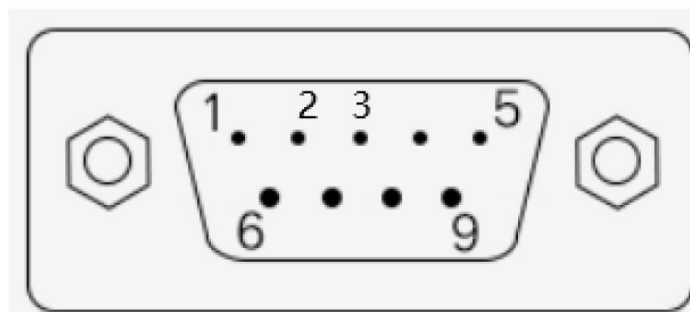


Select Via LAN, then set the IP to the same as multimeter. Click OK. (The software port is 3000 by default, can not be edited.)

#### For P 4094 Connect by COM

- Start DMMEasyControl.
- Connection Use RS232 cable to connect the bench multimeter COM port with PC USB or RS232 port.

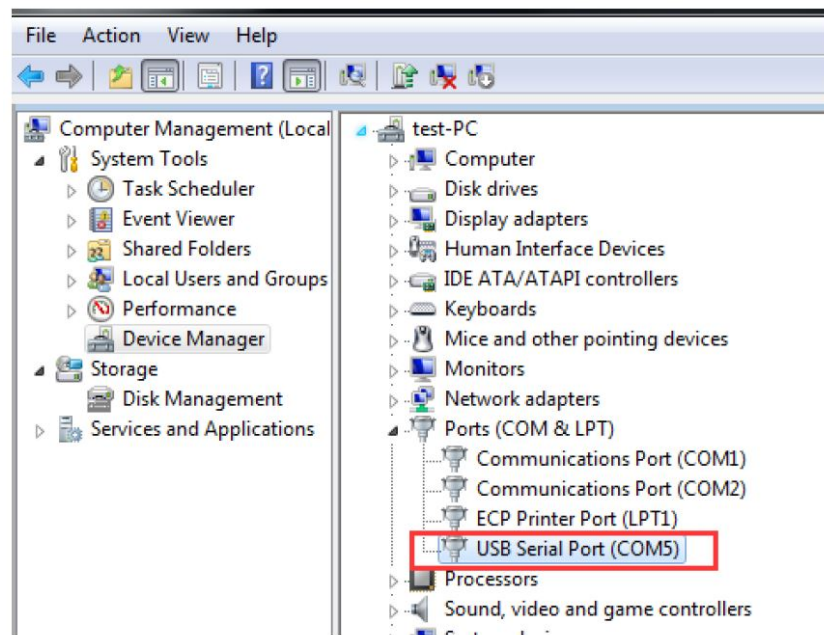
**Note** that DB9 male connector is defined as follows:



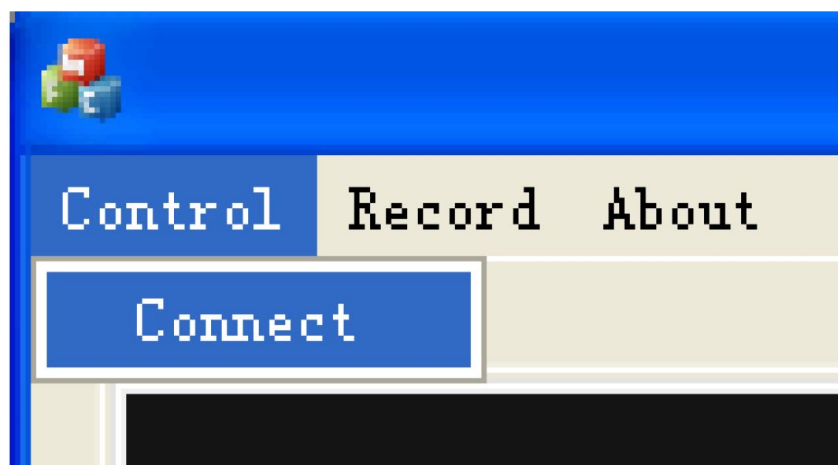
Pin	Function
2	Data transmission TXD
3	Data receiving RXD

- After installing “NI-VISA”, check the port of “Device Manager” in Computer

Management of PC, as shown in the red box in the figure below.



- Connection Setting Click Control on left-top side of software menu bar, select Connect on list.



- Select Via COM, and choose the corresponding serial number on the list(Select the port with the suffix DMM, as shown in the red box in the figure below). Click OK.

Select Connection

☐ Via USB

☐ Via LAN

☒ Via COM

USB COM

ASRL5 (DMM)  
 ASRL5 (DMM)  
 ASRL100

baud
 115200

data\_bits
 8

parity
 None

stop\_bits
 1

Default

OK
 Cancel

## 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.

DCV
 ACV
 DCI
 ACI
 Freq
 Period

Res
 Cont
 Diode
 Cap
 Temp
 Run/Stop

Konfigurieren Sie den Parameter im Parametrierbereich.

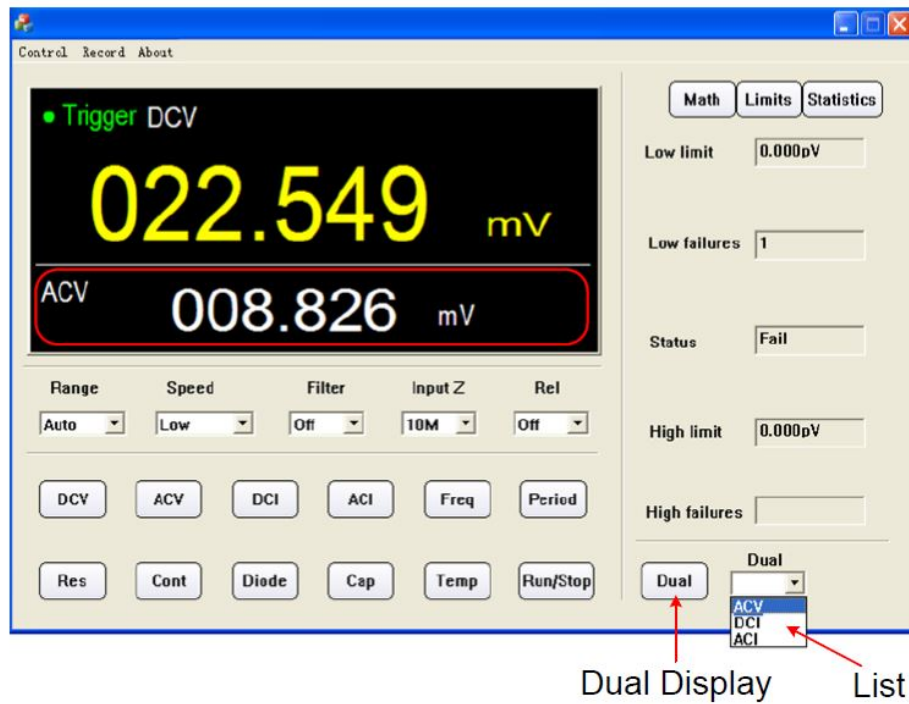
Range
 Speed
 Filter
 Input Z
 Rel

Auto
 Low
 Off
 10M
 Off

## 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.

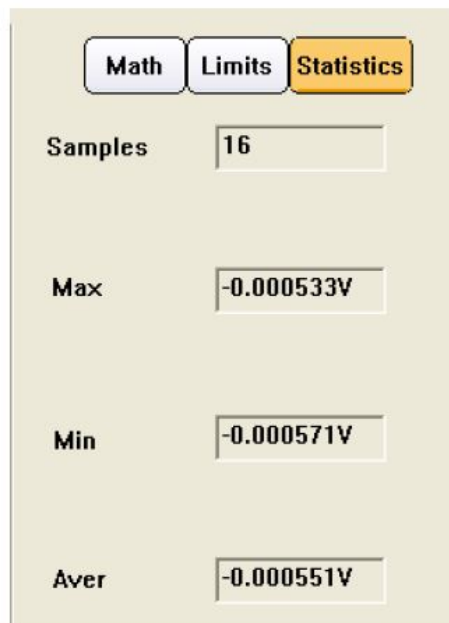
**Note:** If Dual is in grey, it means the measure subject doesn't support dual display.



## Statistics

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

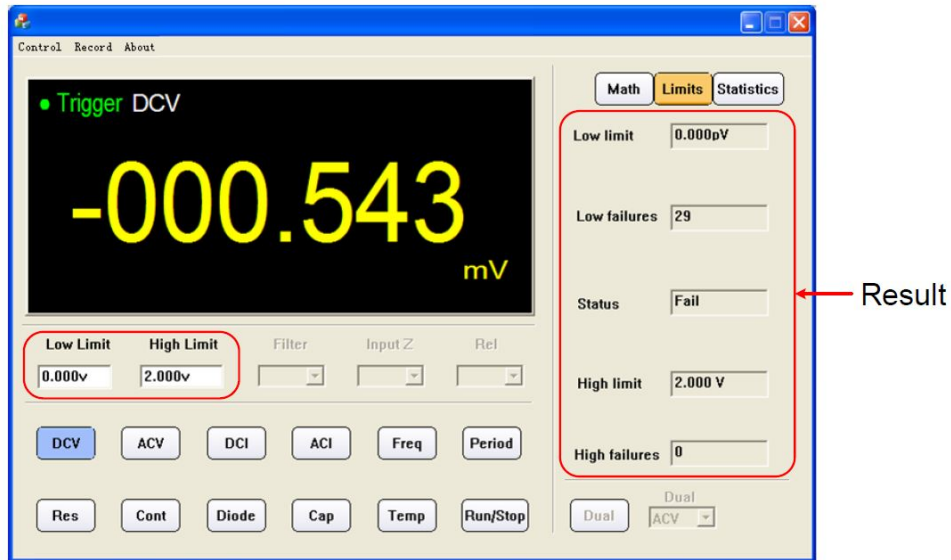
**Note:** If Statistics is in grey, it means the measure subject doesn't support statistics mode.



## 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 could be saved as XLS format after record. Click left-top menu and select Record, select Save from pull-down menu. Choose the save path, input the folder name and click save. Data will be saved in this way. Click the Record and select Stop can stop saving data.





## XLS file format:

1	Date/Time	DCV (V)	ACV (V)	DCI (A)	ACI (A)	Freq (Hz)	Period (S)	Res ( $\Omega$ )	Cap (F)	Temp ( $^{\circ}\text{C}$ )
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	-	-	-	-	-	-	-

Item	Configuration
Operating system	Windows XP SP2 / Windows 7 / Windows 10
CPU	Dual-core 2 GHz
RAM	2 GB @ 2.20Hz
Storage space occupied by files	300MB
Drive	NI-VISA 15.0.1
GPU	Intel®G41 Express Chipset(Microsoft Corporation_WDDM1.1)
Sound card	DirectX® compatible

## Computer configuration

The minimum computer configuration is as follows:

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## Documents / Resources



**PeakTech P 4096 Bench Multimeter** [pdf] Installation Guide  
P 4096 Bench Multimeter, P 4096, Bench Multimeter, Multimeter

References

- [NI Engineer Ambitiously - NI](#)
- [NI Engineer Ambitiously - NI](#)
- [P Home](#)
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