DMMEasyControl Software Guide

Install Driver

1. Before start DMMEasyControl, please download and install the driver from NIVISA:

Open <u>http://www.ni.com</u>, 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".

Ho	w do you want to search for driver software?
•	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
	Browse my computer for driver software Locate and install driver software manually.

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

Browse for driver	software on your cor	mputer		
Search for driver softw	are in this location:			
G:\libusvlv\USBDRV		-	Browse	do.
Include subfolders				10K
				E D
				401
	Parafala da d			
This list will show software in the s	rom a list of device d v installed driver software co ame category as the device,	mpatible with the devi	outer ce, and all driver	





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.

2		
Control	Record	About
Connec	et	

4. Select XDM2041/NDM2041, Click OK.

Dialog			×
eves	XDM3051/NDM .(DM3041/NDM	43051 M3041	
e ov	C XDM2041/ND	M2041	
	OK		

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

Select Connection		×
C Via USB		
C Via LAN		
• Via COM	ASRL3	
baud	data_bits	
115200 -	8 🗸	Default
parity	stop_bits	Derault
None	1	
ОК	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 Fre	eq Period
Res	Cont	Diode	Cap Ten	np Run/Stop
Configure the p	arameter in p	arameter setting	area.	
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.

Ma	oth	Limits	Statistics
Sample	s	16	
Max		-0.000)533V
Min		-0.000)571V
Aver		-0.000)551V

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.

E. Control Boost		C.C.N
• Trigger DCV	Math Limits Statistics	OF OF
-000.543	Low failures 29	2 SULLER
	Status Fail 🗲	Result
Low Limit High Limit Filter Input Z Ref	High limit 2.000 V	
DCV ACV DCI ACI Freq Period	High failures 0	2
Res Cont Diode Cap Temp Run/Stop	Dual ACV	

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:

 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			
Control	Record	АЪ	out
	Save		
	Stop		
	-		l

- 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 (\geq 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.

Record Setting		×
C Manual Recording	Record One 18	
C Decimal Point','?		
Automatic Recording		
C default	Configuration	
	Points: 110	Set value
Start Record	Intervals(ms): 350	

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		
Control	Record	About
	Save	
	Stop	

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

Record Setting		×	
		_	
 Manual Recording 	Record One		
C Decimal Point','?			
O Automatic Recording			
C default	C Configuration		
	Points:		
Start Record	Intervals(ms):	-	

XLS file format:

	D / m		ACTT / 11	DOT (A)	AGT (A)	F (U)	p · 1(a)	P (O)	a (R)	m (9m)
1	Date/lime		ACV (V	DUI (A)	ACI (A)	Freq (Hz)	Perioa (S)	Kes (52)	Cap (F)	Temp (C)
2	2017/5/26->14:14:42	0.286	-	-		-	-	-	-	-
3	2017/5/26->14:14:59	0.286	-	-	(1 si -		-	-	-	-
4	2017/5/26->14:15:00	0.286	-		1	-	-	-	-	-
5	2017/5/26->14:15:00	0.286	-		-	-	-	-	-	-
6	2017/5/26->14:15:01	0.286	-		- F		-	-	-	-
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	- // -	- 1	-	-	-	-	-	-
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	C	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