

Quick Guide for PEL-2000A

I. Notice before launching PEL-2000A PC Software

- 1) The PEL-2000A PC Software installer package includes PC Software of PEL-2000A as well as 64bits LabVIEW 2014 Runtime Engine, and installer size is around 245.91MB.
- 2) If you encounter the failure to launch PEL-2000A PC Software, please try to reinstall the **64bits LabVIEW 2014 Runtime Engine**. (Install the latest RunTime Engine is not recommended)

<https://www.ni.com/en-us/support/downloads/software-products/download.labview-runtime.html#359539>

9539

LabVIEW Runtime

LabVIEW is systems engineering software for applications that require test, measurement, and control with rapid access to hardware and data insights.
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Supported OS Windows [View Readme](#)

Version 2014

Included Editions Runtime

Application Bitness 64-bit

Language English

Driver Software Included No

LabVIEW 2014 Runtime

Release Date
8/1/14

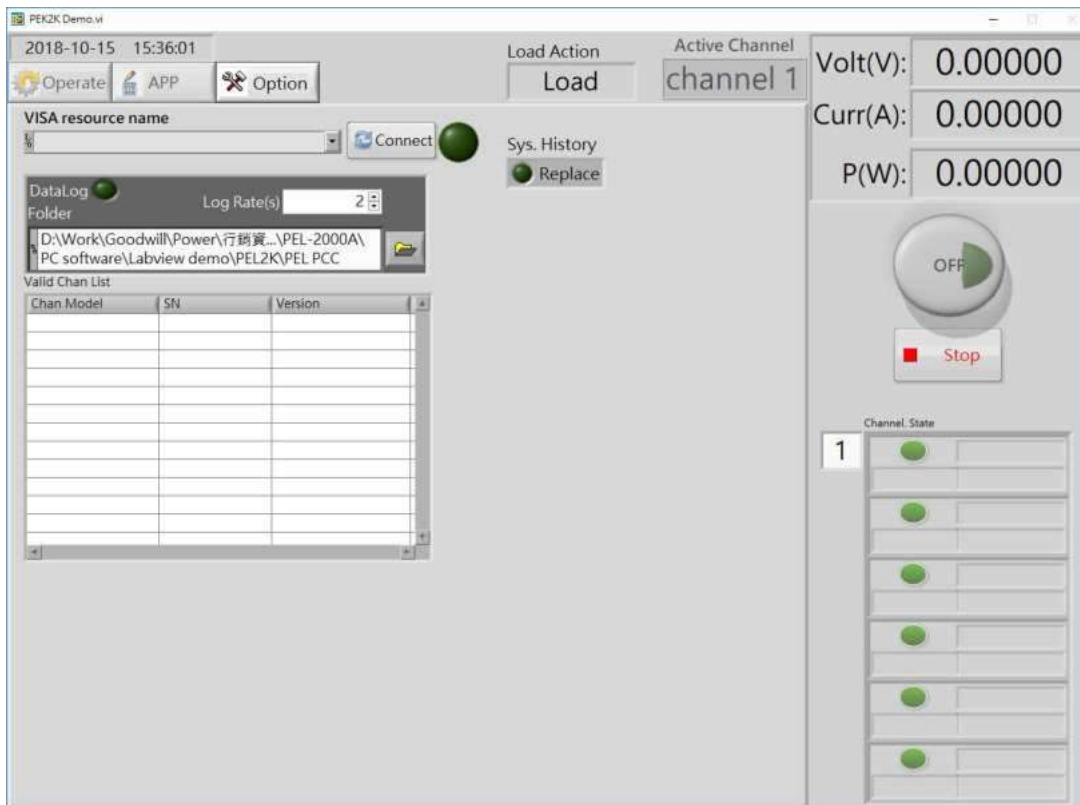
> Supported OS
> Language
> Checksum

DOWNLOAD

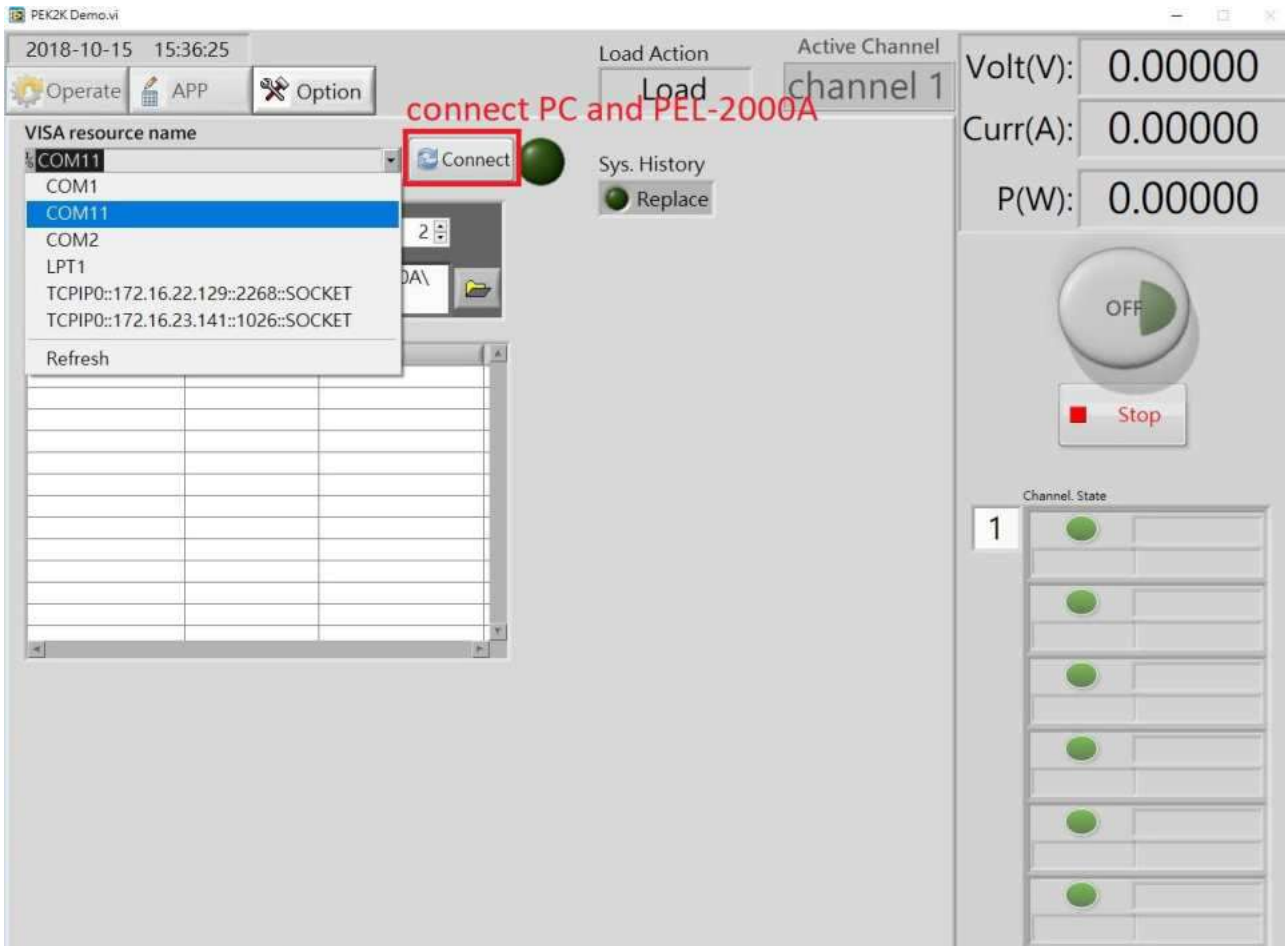
File Size
1.43 GB

II. Basic Functions for Software of the PEL-2000A

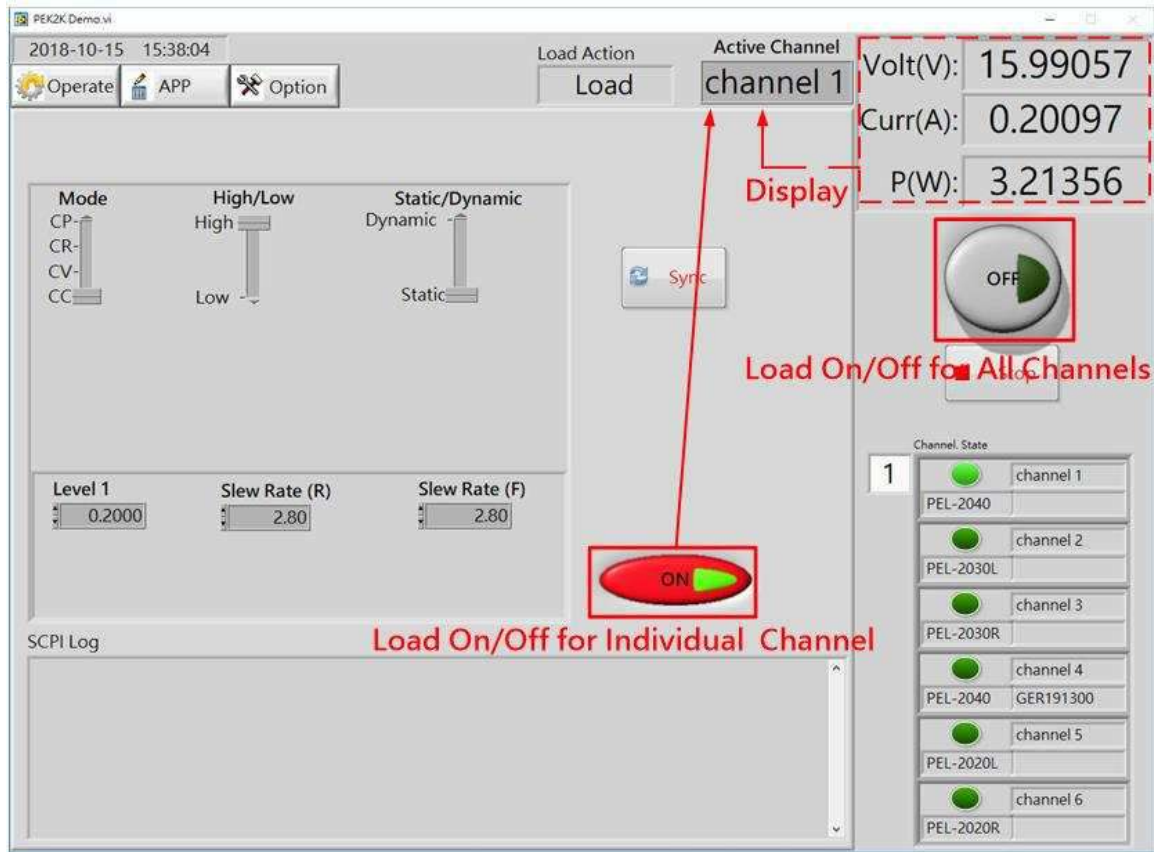
The beginning page of the PEL-2000A after launched PC Software as follows:



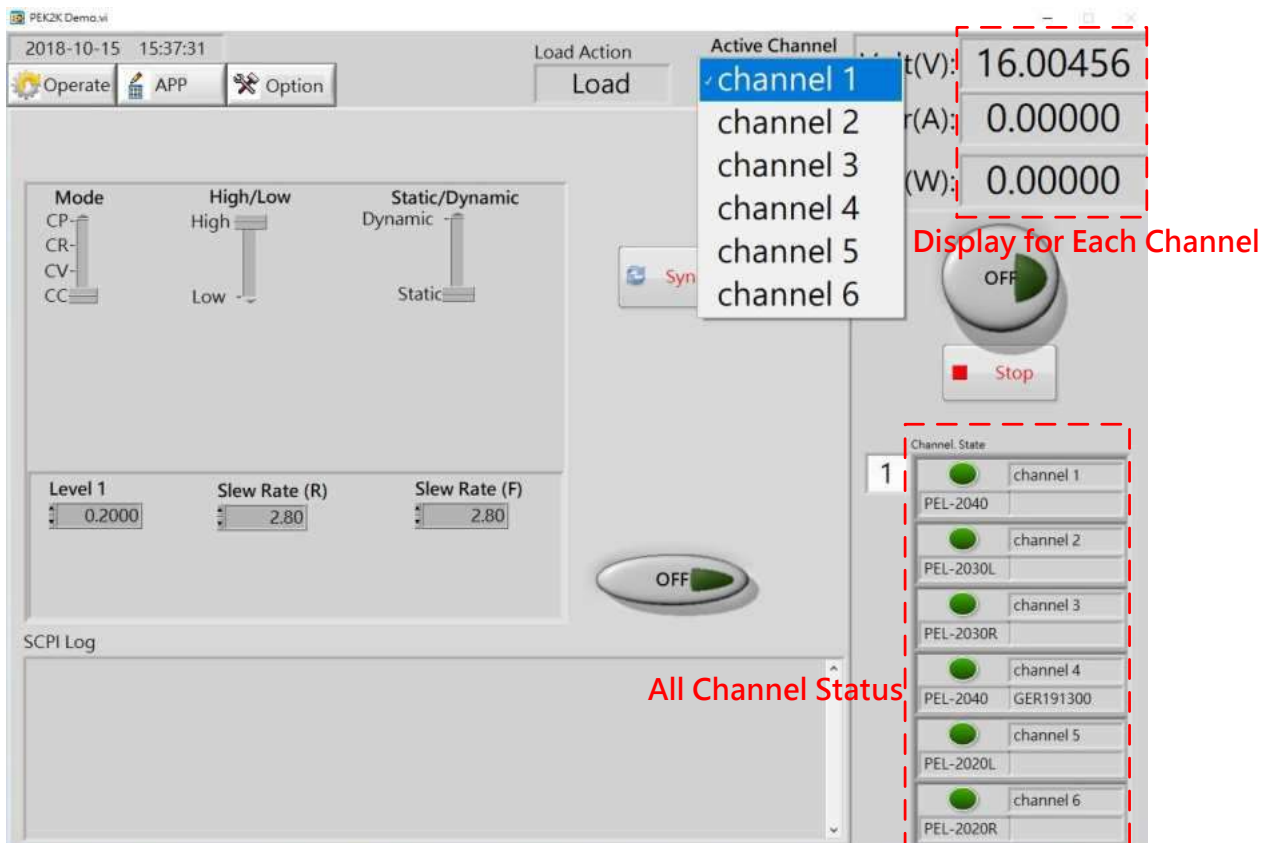
- 1 Set the corresponding USB communication port according to appearing USB port of your Device manager in your PC.



- 2 Press "Connect" button to connect PC Software and PEL-2000A, and entering basic operation for static function settings.



CC/CV/CR/CP setting page



III. Sequence Mode.

1 Switch to tag "APP" to set Sequence mode

Procedures:

Setup1: Edit the Sequence parameters

Setup2: Input parameters into Sequence List

Setup3: Check Sequence parameters

Setup4: Upload Sequence parameters to PEL-2000A

Setup5: Execute Sequence mode

Setup6: Load off Sequence mode

2018-10-15 15:38:55

Operate APP Option

Load Action Load

Active Channel channel 1

Volt(V): 16.00456
Curr(A): 0.00000
P(W): 0.00000

File Path(Load from/Save Into)
% <Not A Path>

Open Save

Set activate channel for Sequence mode

Seq Chan Enable

Seq. Action

Start	Stop	Mode	V-Range	Repeat	End of Seq Act.
1	2	CCL	High	0	0

Up Load

Step Parameter

Duration Slew Rate Up
3.0 0.28

Value Slew Rate Dn
1 0.28

Add Remove Clear

Step List

	Duration Time(s)	Level	SR Up	SR Dn
1	3	0.5	0.28	0.28
2	3	1	0.28	0.28

Channel State

1	channel 1
	PEL-2040
	channel 2
	PEL-2030L
	channel 3
	PEL-2030R
	channel 4
	PEL-2040 GER191300
	channel 5
	PEL-2020L
	channel 6
	PEL-2020R

Setup1 Setup2 Setup3 Setup4 Setup5 Setup6

2 Execute Sequence mode by pressing “Play” button

The screenshot displays the PEK2K Demo.vi software interface. At the top, the date and time are 2018-10-15 15:39:04. The interface includes a top bar with 'Operate', 'APP', and 'Option' buttons, and a 'Load Action' section with a 'Load' button. The 'Active Channel' is set to 'channel 1'. On the right, real-time measurements are shown: Volt(V): 16.00456, Curr(A): 0.00000, and P(W): 0.00000. Below these is a large 'OFF' button and a 'Stop' button. The main area is divided into several sections: 'File Path' (Load from/Save Into) with 'Open' and 'Save' buttons; 'Seq Chan Enable' with seven green indicator lights and 'Play' and 'Return' buttons; 'Seq. Action' with fields for Start (1), Stop (2), Mode (CCL), V-Range (High), Repeat (0), and End of Seq Act. (0), along with an 'Up Load' button; 'Step Parameter' with fields for Duration (3.0), Slew Rate Up (0.28), Value (1), and Slew Rate Dn (0.28), and 'Add', 'Remove', and 'Clear' buttons; and a 'Step List' table. The 'Channel State' section on the right lists six channels with their respective status indicators and labels.

Start	Stop	Mode	V-Range	Repeat	End of Seq Act.
1	2	CCL	High	0	0

Duration	Slew Rate Up	Value	Slew Rate Dn
3.0	0.28	1	0.28

Step	Duration Time(s)	Level	SR Up	SR Dn
1	3	0.5	0.28	0.28
2	3	1	0.28	0.28

Channel State	Label
1	channel 1
	PEL-2040
	channel 2
	PEL-2030L
	channel 3
	PEL-2030R
	channel 4
	PEL-2040 GER191300
	channel 5
	PEL-2020L
	channel 6
	PEL-2020R

3 Monitor different channel in Sequence mode

2018-10-15 15:42:24

Load Action: Sequence

File Path(Load from/Save into): D:\Work\Goodwill\Power\行...Labview demo\PEL2K\PEL2K\datalog\PEL-2040-3

Seq Chan Enable: [6 green indicator lights]

Seq. Action: Start: 1, Stop: 2, Mode: CCL, V-Range: High, Repeat: 0, End of Seq Act: 0

Step Parameter: Duration: 3.0, Slew Rate Up: 0.28, Value: 1, Slew Rate Dn: 0.28

Step	Duration Time(s)	Level	SR Up	SR Dn
1	3	0.5	0.28	0.28
2	3	1	0.28	0.28

Channel State:

- 1 channel 1: PEL-2040
- channel 2: PEL-2030L
- channel 3: PEL-2030R
- channel 4: PEL-2040 GER191300
- channel 5: PEL-2020L
- channel 6: PEL-2020R

Measurement values: t(V): 15.97378, r(A): 0.49509, (W): 7.90854

Buttons: Operate, APP, Option, Up Load, Stop

4 Output on All channels in Sequence mode

PEK2K Demo.vi

2018-10-15 15:39:17

Operate APP Option

Load Action: Sequence Active Channel: channel 1

Volt(V): 15.97238
Curr(A): 0.49509
P(W): 7.90784

File Path(Load from/Save Into): % <Not A Path>

Seq Chan Enable:

Seq. Action: Start: 1 Stop: 2 Mode: CCL V-Range: High Repeat: 0 End of Seq Act.: 0

Up Load

Step Parameter: Duration: 3.0 Slew Rate Up: 0.28 Value: 1 Slew Rate Dn: 0.28

Add Remove Clear

Step List:

	Duration Time(s)	Level	SR Up	SR Dn
1	3	0.5	0.28	0.28
2	3	1	0.28	0.28

Channel State:

1 channel 1
PEL-2040

channel 2
PEL-2030L

channel 3
PEL-2030R

channel 4
PEL-2040 GER191300

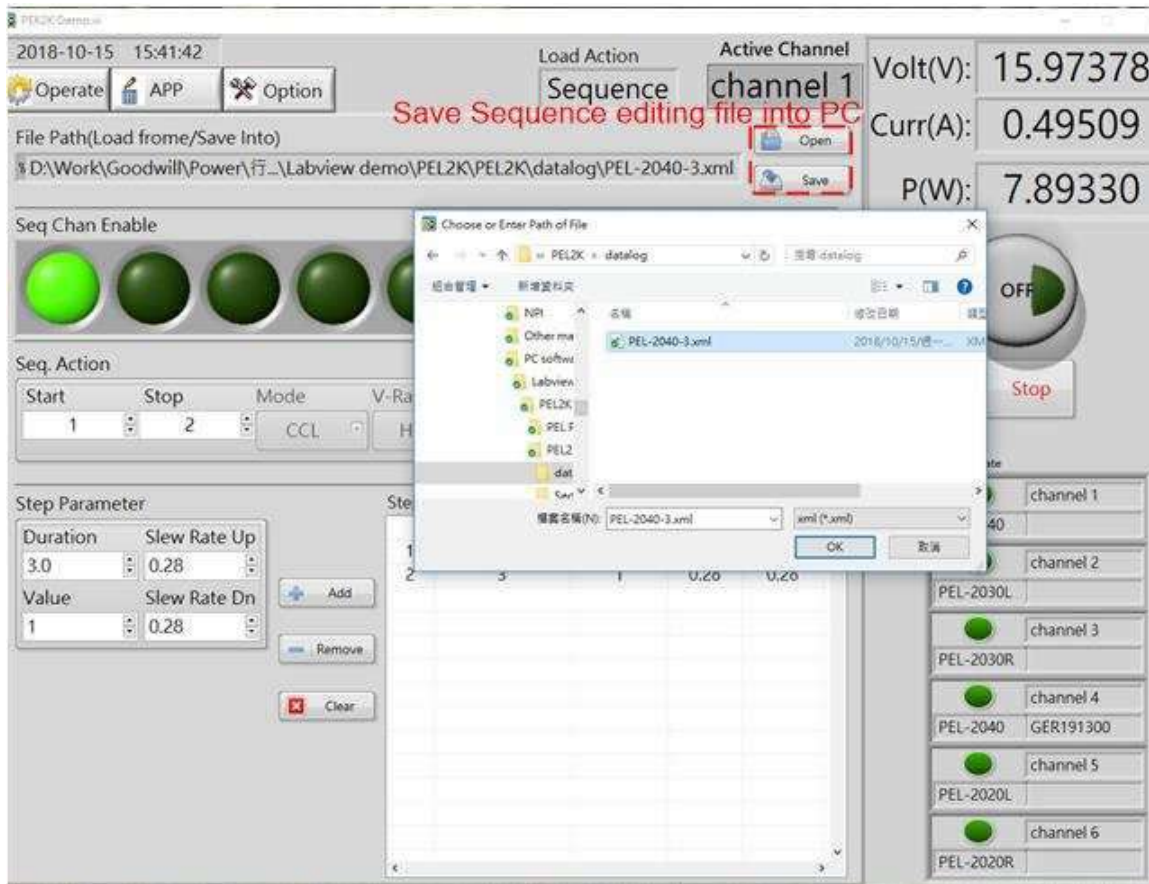
channel 5
PEL-2020L

channel 6
PEL-2020R

ON Stop

5 Save Sequence editing file into PC by saving file.

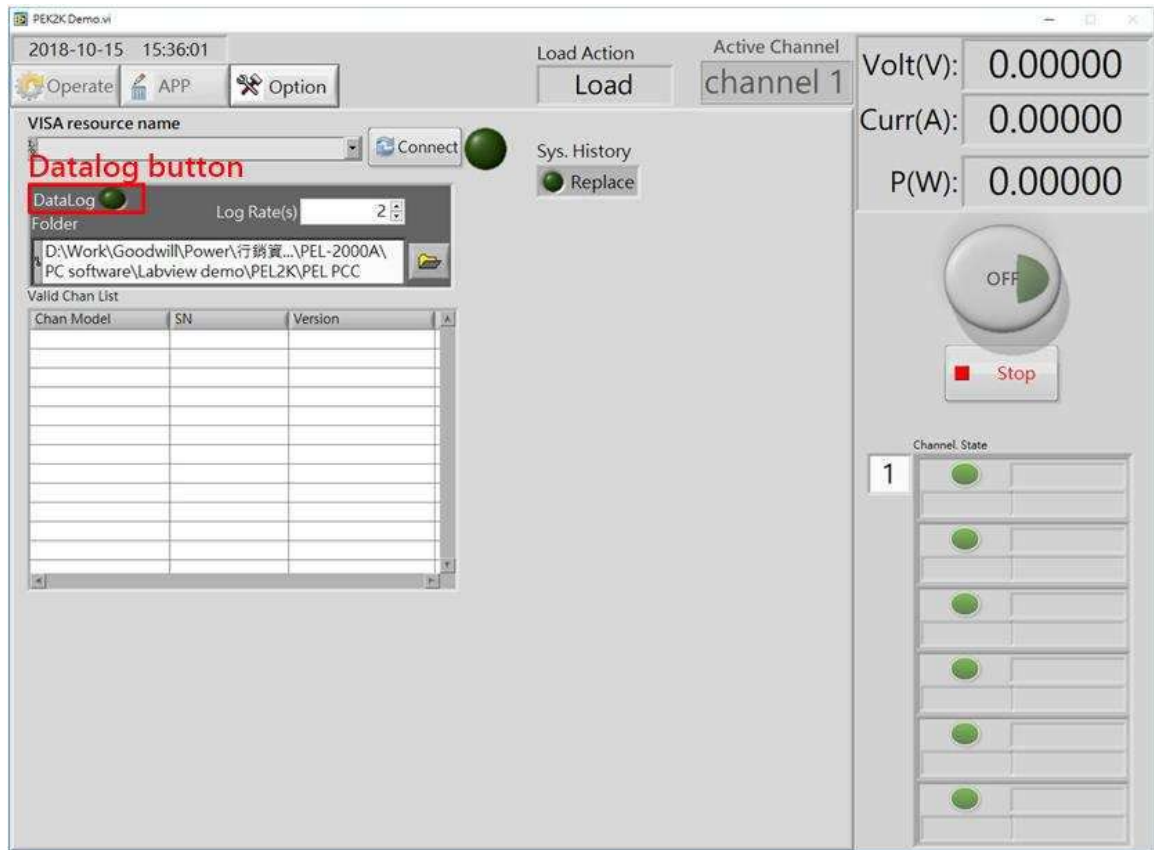
Recall Sequence editing file into PC by opening file



IV. Data Log Function.

1 Switch to Tag Option

2 Press Datalog button for Enable Data log function



3 Check the datalog file as below, the default file format is *.xml that users can open it by Excel for analysis.

