

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#35>

[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

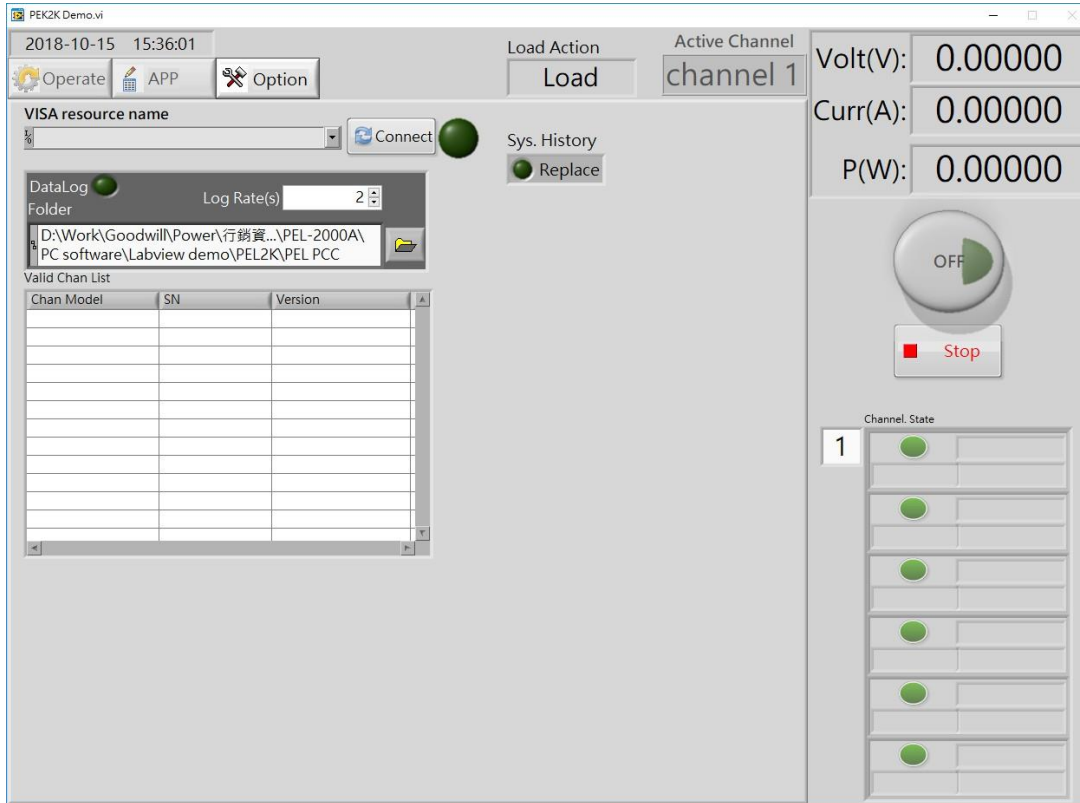
> Checksum

DOWNLOAD

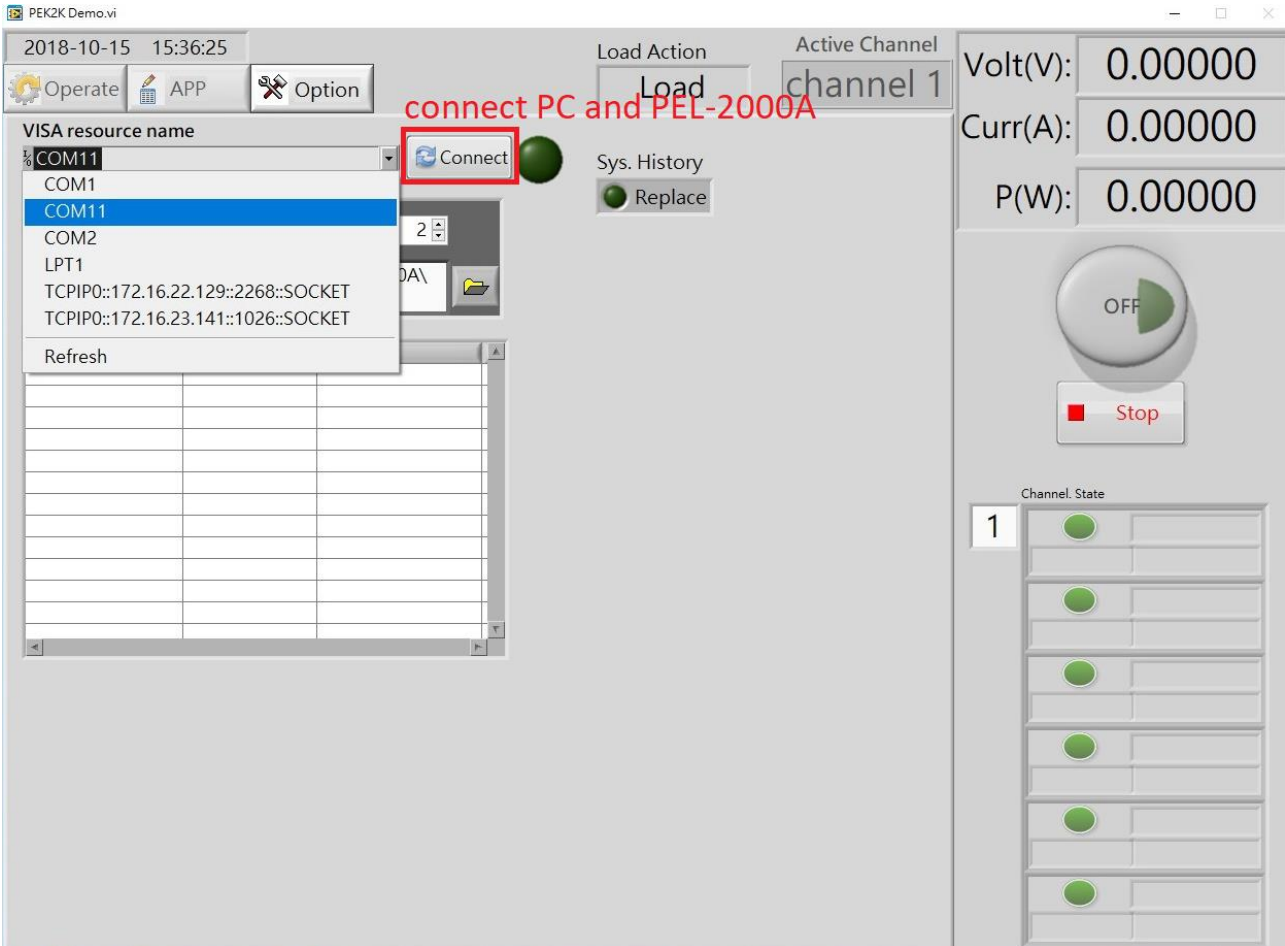
File Size
1.43 GB

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

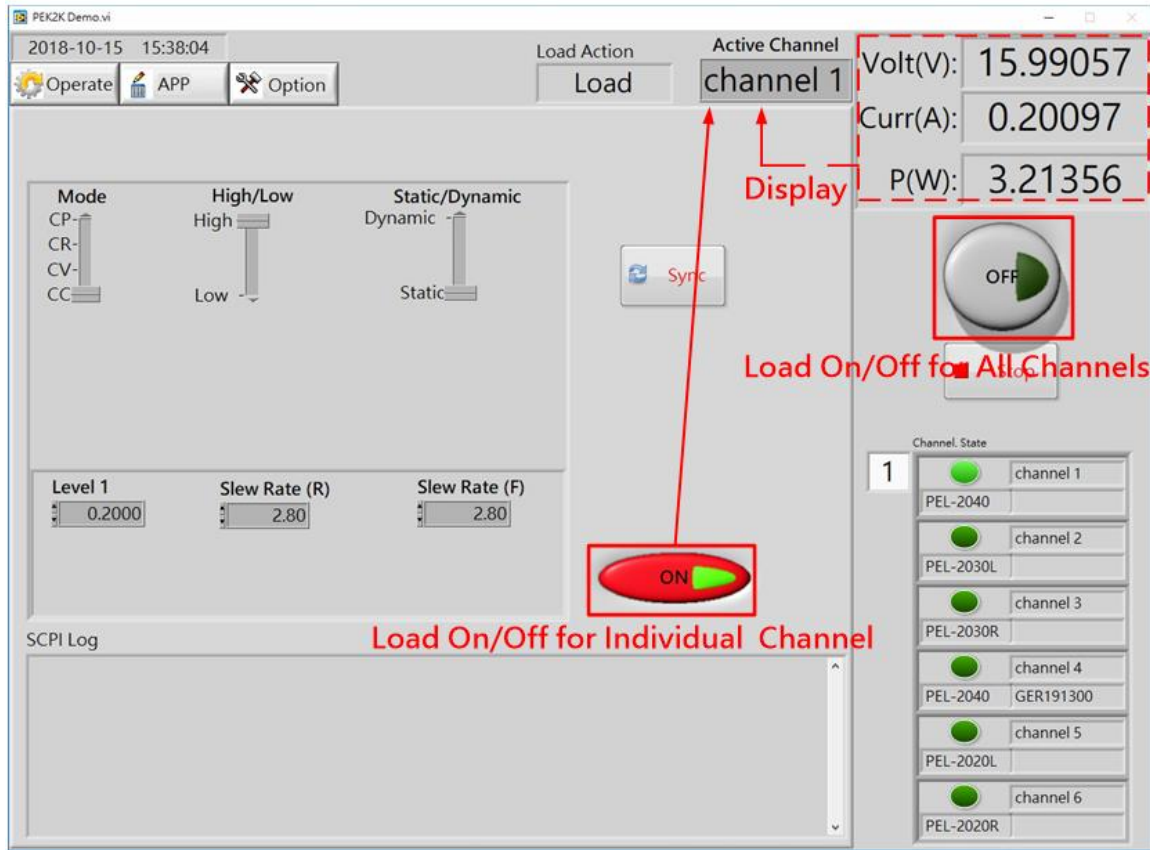
The beginning page of the PEL-2000A after launched PC Software as follows:



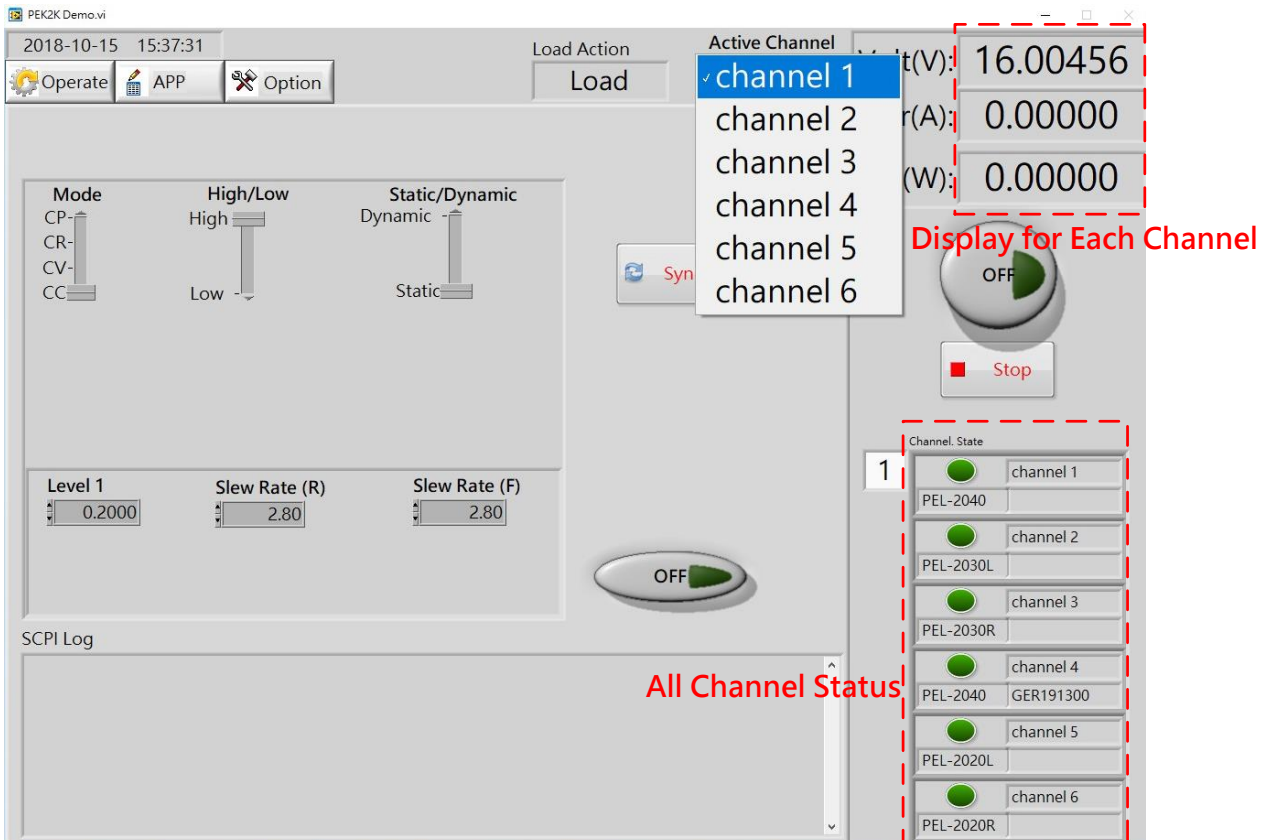
1 Set the corresponding USB communication port according to appearing USB port of your Device manager in your PC.



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

Seq Chan Enable

Setup5 Play

Seq. Action

Start Stop Mode V-Range Repeat End of Seq Act.

1 2 CCL High 0 0

Up Load Setup4

Step Parameter

Duration Slew Rate Up

3.0 0.28

Value Slew Rate Dn

1 0.28

Setup1

Step List Setup3

	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
- channel 2
- channel 3
- channel 4
- channel 5
- channel 6

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 several control panels:

- Operate Panel:** Contains buttons for 'Operate', 'APP', and 'Option'.
- File Path:** Shows '<Not A Path>' with 'Open' and 'Save' buttons.
- Seq Chan Enable:** A row of eight circular indicators, with the first one lit green. 'Play' and 'Return' buttons are to the right.
- Seq. Action:** Fields for Start (1), Stop (2), Mode (CCL), V-Range (High), Repeat (0), and End of Seq Act. (0). Includes an 'Up Load' button.
- Step Parameter:** Fields for Duration (3.0), Slew Rate Up (0.28), Value (1), and Slew Rate Dn (0.28). Includes 'Add', 'Remove', and 'Clear' buttons.
- Step List:** A table with columns: Duration Time(s), Level, SR Up, and SR Dn.

	Duration Time(s)	Level	SR Up	SR Dn
1	3	0.5	0.28	0.28
2	3	1	0.28	0.28
- Active Channel:** 'channel 1'.
- Measurement Readings:** Volt(V): 16.00456, Curr(A): 0.00000, P(W): 0.00000.
- Channel State:** A vertical list of channels 1 through 6, each with a green indicator and a label (e.g., 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).
- Control Buttons:** A large 'OFF' button with a play icon, a 'Stop' button with a red square, and an 'Up Load' button.

3 Monitor different channel in Sequence mode

The screenshot displays the PEK2K Demo software interface in Sequence mode. The top status bar shows the date and time (2018-10-15 15:42:24) and the Load Action set to Sequence. A dropdown menu for 'Active Channel' is open, listing channels 1 through 6, with 'channel 1' selected. The right side of the interface shows real-time measurements: Voltage (V) at 15.97378, Current (A) at 0.49509, and Power (W) at 7.90854. Below these are 'OFF' and 'Stop' buttons. The 'Seq Chan Enable' section features seven indicator lights, with the first one (channel 1) being green. The 'Seq. Action' section includes 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. The 'Step Parameter' section has input fields for Duration (3.0), Slew Rate Up (0.28), Value (1), and Slew Rate Dn (0.28), with 'Add', 'Remove', and 'Clear' buttons. The 'Step List' table contains two steps:

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

The 'Channel State' panel on the right lists channels 1 through 6, each with a green indicator light and a label: channel 1 (PEL-2040), channel 2 (PEL-2030L), channel 3 (PEL-2030R), channel 4 (PEL-2040 GER191300), channel 5 (PEL-2020L), and channel 6 (PEL-2020R).

4 Output on All channels in Sequence mode

The screenshot displays the PEK2K Demo.vi software interface. At the top, the date and time are 2018-10-15 15:39:17. The 'Load Action' is set to 'Sequence' and the 'Active Channel' is 'channel 1'. The 'File Path' is '<Not A Path>'. The 'Seq Chan Enable' section shows eight channels, with the first one (channel 1) being green and the others dark green. The 'Seq. Action' table is as follows:

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

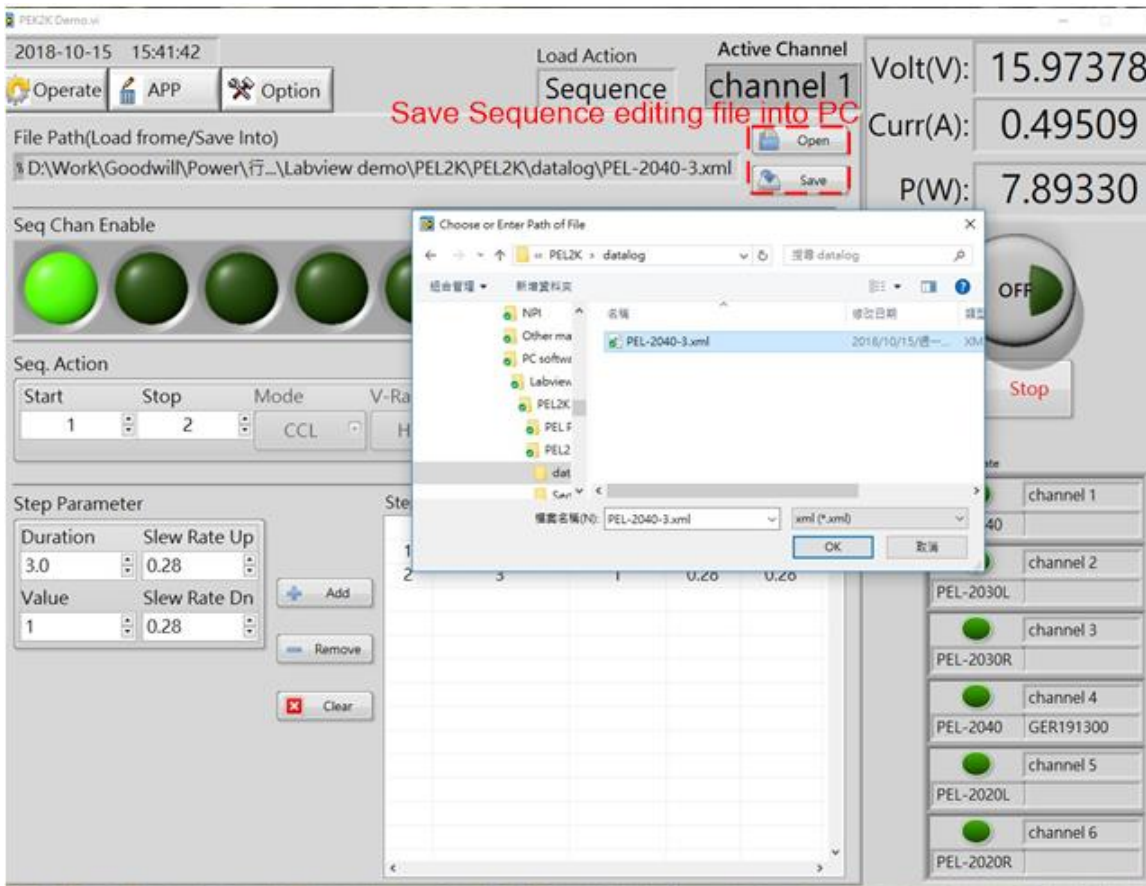
The 'Step Parameter' section includes 'Duration' (3.0), 'Slew Rate Up' (0.28), 'Value' (1), and 'Slew Rate Dn' (0.28). The 'Step List' table is as follows:

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

On the right side, the 'Channel State' section shows six channels, each with a green indicator light and a label: channel 1 (PEL-2040), channel 2 (PEL-2030L), channel 3 (PEL-2030R), channel 4 (PEL-2040 GER191300), channel 5 (PEL-2020L), and channel 6 (PEL-2020R). The 'Volt(V): 15.97238', 'Curr(A): 0.49509', and 'P(W): 7.90784' are displayed at the top right. A large red 'ON' button and a smaller red 'Stop' button are also visible.

5 Save Sequence editing file into PC by saving file.

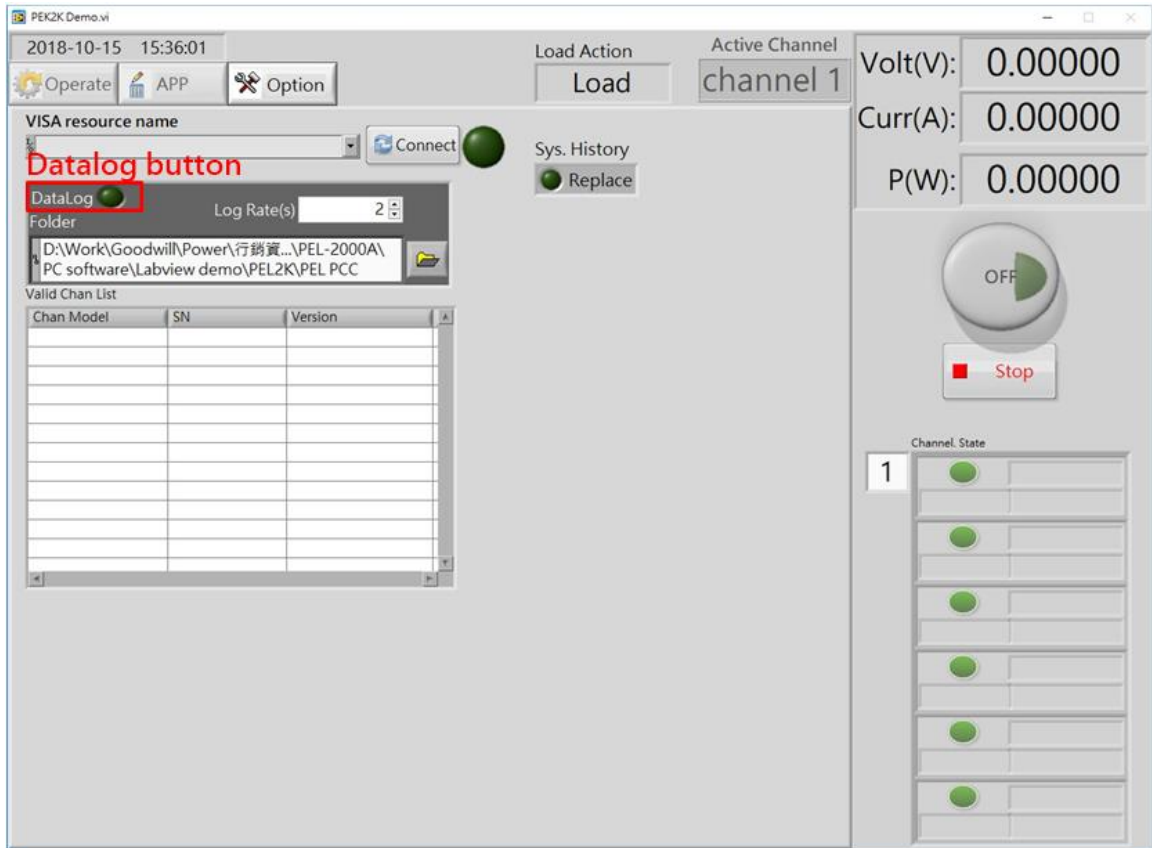
Recall Sequence editing file into PC by opening file



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.

