

PPS 1004A

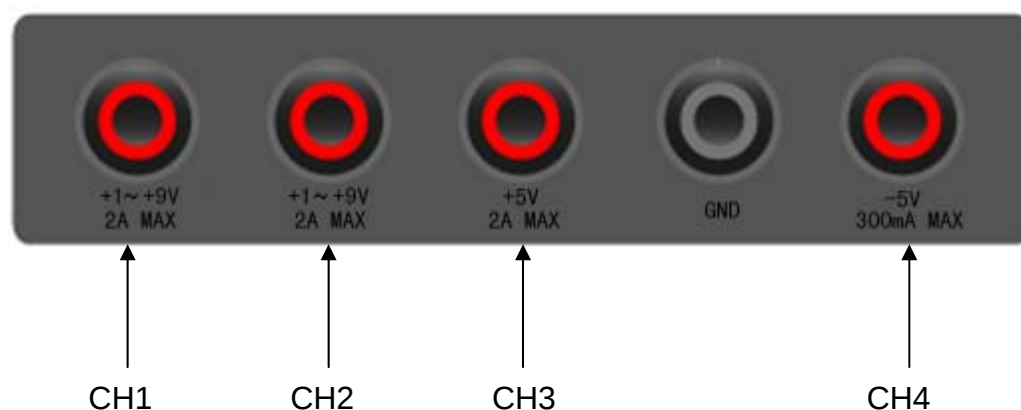
Programmable Power Supply

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Voltage source characteristics

1. Low ripple, low noise
 - Support high precision and dynamic programming output
 - Fast automatic test software
 - Data automatic storage function
 - 1) Software corrected standard instrument board design
 - 2) support USB2.0 communication
 - 3) Support UXI agreement
 - 4) DC Input power range of +12~+18
 - 5) Can match any other instrument
2. Voltage source specification
 - 1) Rated output voltage
 - CH1: +1V~+9V, Variable voltage output, 2000mA Max
 - CH2: +1V~+9V, Variable voltage output, 2000mA Max
 - CH3: +5V, 2000mA Max
 - CH4: -5V, 3000mA Max
 - 2) The voltage setting accuracy: 0.5%
 - Ripple wave: 5mVp-p
3. Mechanical properties
 - 1) Operation environment temperature: 0~40
 - 2) Operating humidity: 0-90%RH
 - 3) Storage environment temperature: -20~70
 - 4) Cooling mode: natural air cooling



Software Introduction

PPS1004A software, as a user simple operation and practical control software of QINGDAO HANTEK ELECTRONICS CO., LTD, is applicable for PPS1004A series power supply of our company. It allows users to achieve though the computer control in the power supply on the front panel.

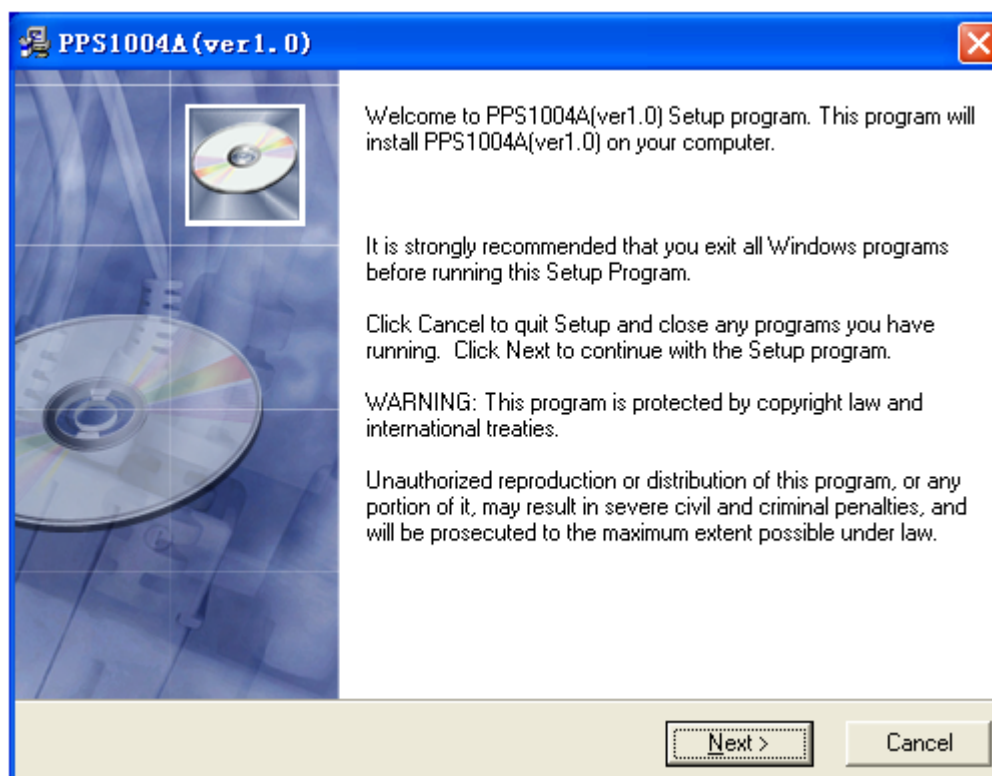
System Installation

Install software

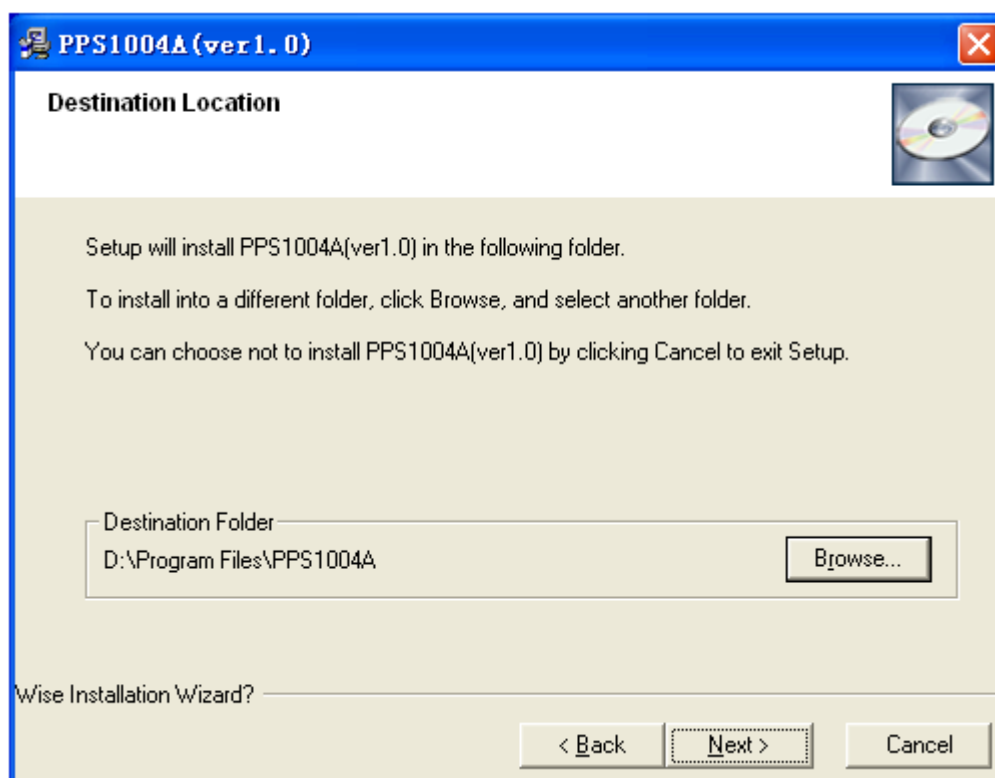
1. While in Windows, insert the installation CD into the CD-ROM drive.
2. The installation should start up automatically. Otherwise in Windows Explorer, switch to the CD-ROM drive and run "Setup.exe".



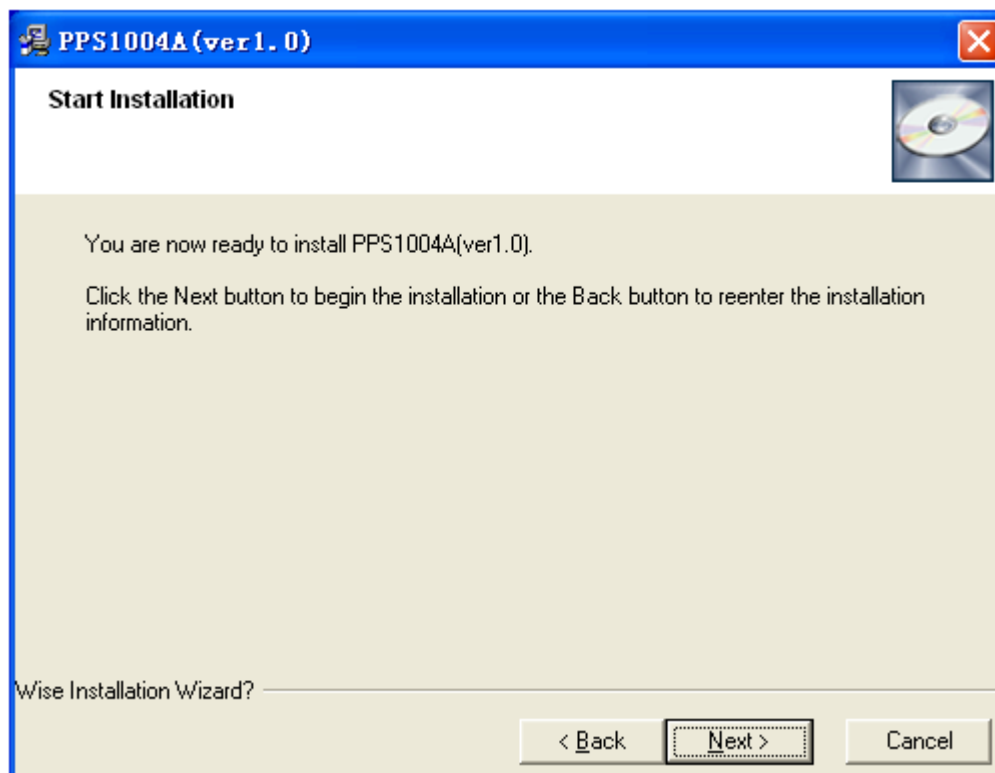
3. The PPS1004A installation is started. Click 'Next' to continue.



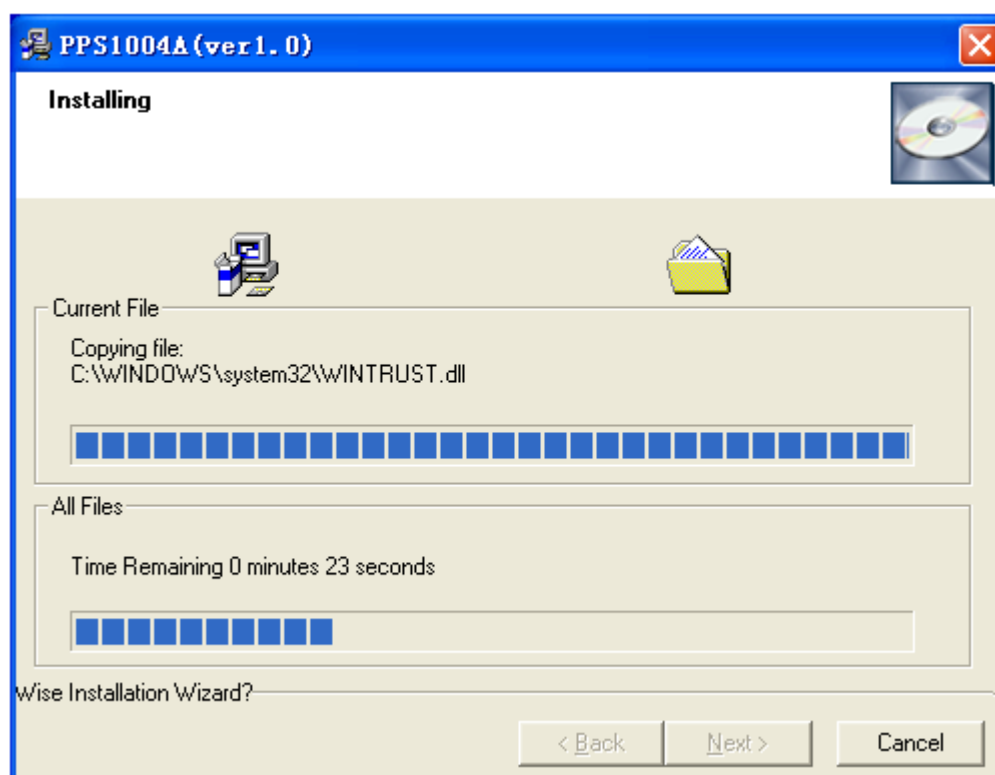
4. Choose a destination directory. Click 'Next' to continue.



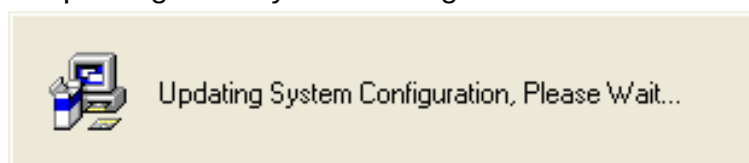
5. Check the setup information. Click Next to start copying of files.



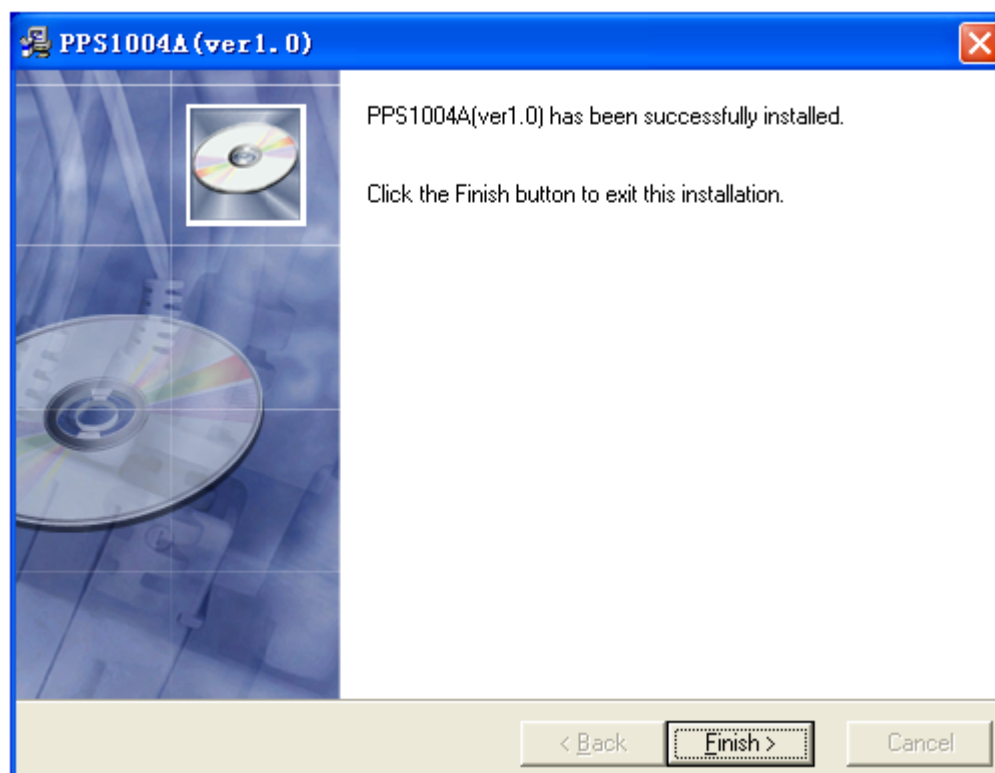
6. This status dialog is displayed during copying of files.



7. Updating Your System Configuration.



8. The installation is complete.



Note: If you encounter any firewall prompts, please select the allow operation.



After the installation, there will be a shortcut on the desktop PPS1004A.

Install Driver

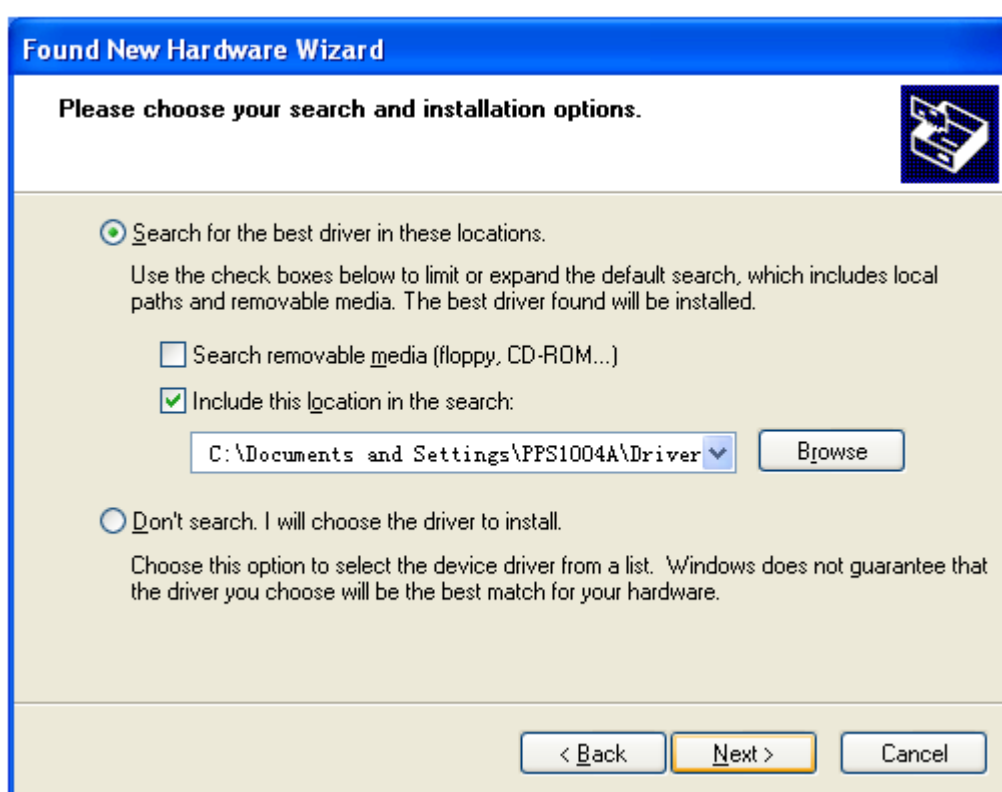
1. Connect the A-Type Plug of USB cable to your PC's USB port.
2. Connect the B-Type Plug of USB cable to PPS1004A's USB port.
3. New hardware is found.



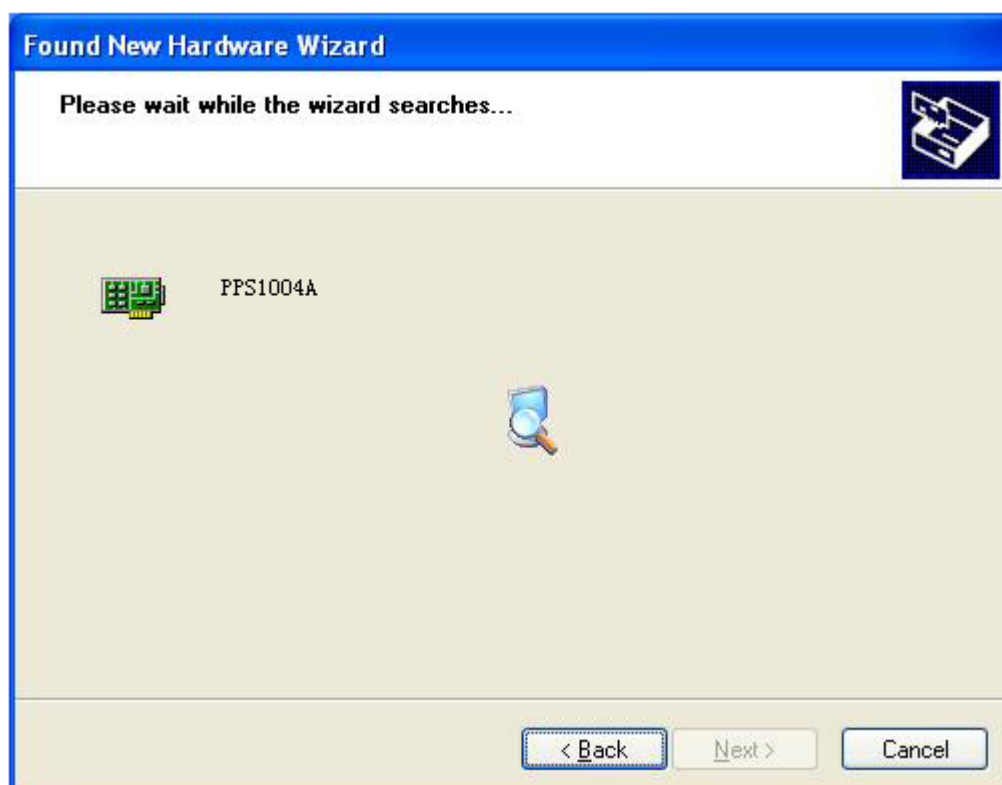
4. New hardware search wizard starts.



5. New hardware search wizard starts to search the driver.



6. New hardware search wizard starts to search.



7. New hardware wizard installs software.



8. Finish new hardware search wizard.



System Requirement

Minimum System Requirements

Operating System

Window XP/VISTA/Win 7

Processor

Upwards of 1.00G processor

Memory

128M byte

Disk Space

500M disk free space

Screen resolution

800 x 600

Contact Us

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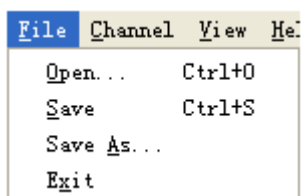
E-mail: service@hantek.com support@hantek.com

Function Introduction

- ◆ Menu
- ◆ Voltage Setting
- ◆ Mode setting
- ◆ Waveform Display

Menu

1. File: Save data as .txt, .xls, and .doc file.



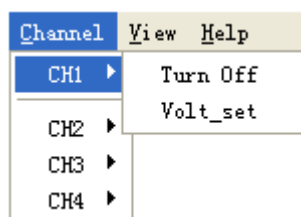
Open: Open a document saved according to the specified format

Save: Save a document generated according to mode selection in the form of text files

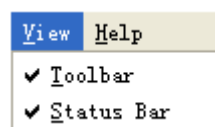
Save as: Save a document generated according to mode selection in the form of text files or Excel or Word

Exit: Exit PPS1004A

2. Channel: Turn on/off each channel, set voltage of CH1 and CH2.



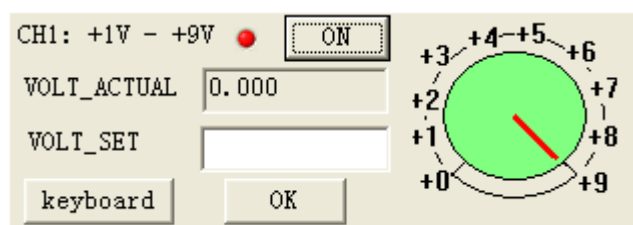
3. View: Turn on/off toolbar and status bar.



4. Help: Open help file.

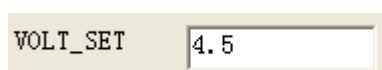
Voltage Setting

Click “OFF” key to open CH1. The left light turns red, and we will see the following picture:

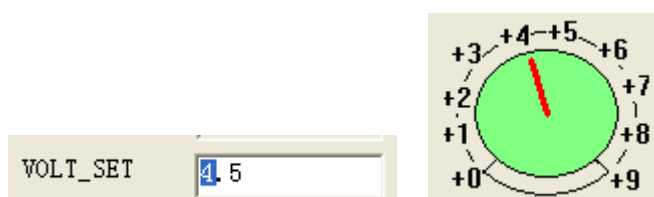


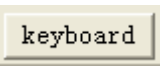
There are three ways to set the volt value.

1. Click the right green panel, the voltage value will display in “VOLT_SET” column.



Slide the mouse wheel and select the value you want to set, then click the right panel.



2. Click  key, then the following dialog will display:



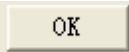
Set a voltage value and click “SET” key. The value will display in “VOLT_SET” column.

VOLT_SET 4.5

3. Please input the volt value in “VOLT_SET” column directly.

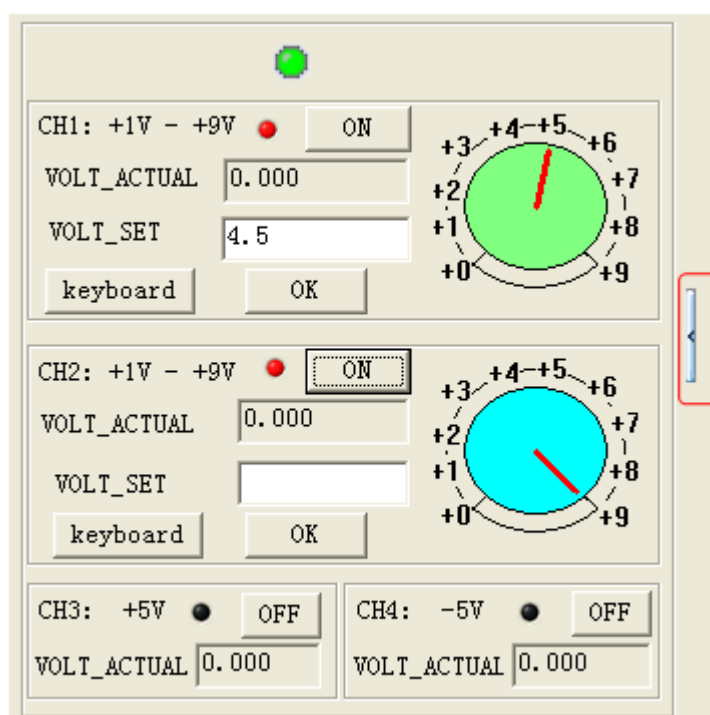
VOLT_SET 4.5

Note: Input voltage rang is from 0.600V to 9.000V.

After setting voltage, click  key, actual output voltage displays in “VOLT_ACTUAL” column.

VOLT_ACTUAL 4.501

Click the following key to expansion PPS1004A interface.



Then, you will observe the following waveform in right waveform area.



Mode Setting

User can set voltage value continuously by PPS1004A.

Step	Number	Volt
1	1	1.000
2	1	1.889
3	1	2.778
4	1	3.667

1. Mode

There are two modes to set a list file. You can select 1*10 or 2*5 mode.

1*10: Set a ten-step list file;

2*5: Set two five-step list files.

2. Edit List

- ① When select 2*5 mode, there are two types 1 and 2 in “Number” column.
- ② If select number 2, it begins to edit number 2 list file from sixth step.
- ③ User can select the start and stop steps.
- ④ When set voltage, please select “Volt” and input the voltage rage. Then

click **Set** key. This list will edit the step voltage value and set correctly according to the linear mode.

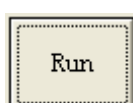
- ⑤ To clear the setting and voltage, please click **Clear** key.

- ⑥ Click **CH1/CH2** key to select CH1/CH2 and set voltage.

- ⑦ After setting voltage, click **Run** key. It will set a voltage value in the list when click “Run” key every time. And the actual output voltage displays in “VOLT_ACTUAL” column.

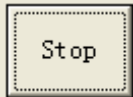
VOLT_ACTUAL	4.496
VOLT_SET	

At the same time, you will observe the waveform in the right area.



If click the  key constantly, it will set the voltage value in the list circularly.

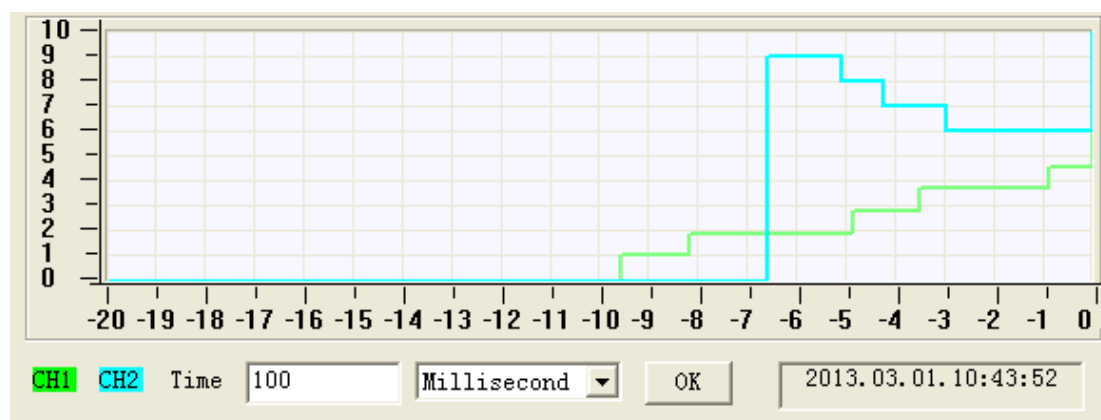


⑧ Click the  key to stop setting voltage. And the actual output voltage displays in "VOLT_ACTUAL" column.

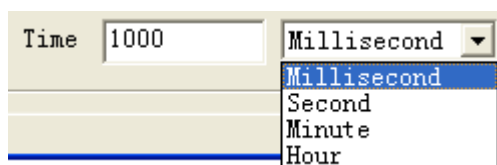
VOLT_ACTUAL	0.000
VOLT_SET	

Waveform Display

After setting the voltage value, you will observe waveform on right waveform area.



Set time interval in the following dialog:



The screenshot shows a user interface for setting a time interval. It consists of a text input field labeled 'Time' containing the value '1000', and a dropdown menu currently displaying 'Millisecond'. The dropdown menu is open, showing four options: 'Millisecond' (highlighted in blue), 'Second', 'Minute', and 'Hour'.

Note: If select “Millisecond”, input time interval range is from 100 to 1000.

If select Second, Minute and Hour, input time interval range is from 1 to 100.