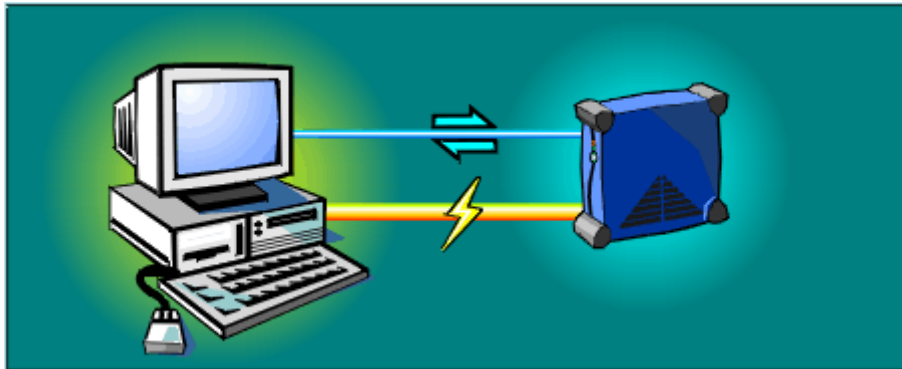


User Manual

| | |
|-------------------------------------------------|----|
| 1 System summarize | 1 |
| 2 System circumstance require..... | 2 |
| 3 Hardware installation | 2 |
| 4 Software installation | 2 |
| 5 Operation..... | 3 |
| 5.1 Software main figure: | 3 |
| 5.2 Software Set..... | 4 |
| 5.3 Real-time information display..... | 10 |
| 5.3.1 Data | 11 |
| 5.3.2 Sketch Map | 11 |
| 5.3.3 Graph..... | 12 |
| 5.4 UPS rating parameter query and setting..... | 12 |
| 5.5 EventLog..... | 16 |
| 5.6 DataLog..... | 17 |
| 5.7 DataLog Set..... | 17 |
| 5.8 Equip Operation | 18 |
| 5.8.1 Search..... | 18 |
| 5.8.2 Append | 19 |
| 5.8.3 Property | 19 |
| 5.8.4 Delete Control Language and Help..... | 20 |

1 System summarize

Muser4000 is software for cooperating with PC and KSTAR UPS. Its major function is as following:



- Manage the communication connection with UPS.
- Monitor all current data from UPS.
- Display UPS work state with figure.
- Setting UPS parameter.
- Log all events and alarm information.
- Log timed current data from UPS.

2 System circumstances requirements

RS-232 communication port: COM1-COM4

Operating system:

- Microsoft Windows 98
- Microsoft Windows 2000
- Microsoft Windows NT
- Microsoft Windows Me
- Microsoft Windows XP

3 Hardware installation

Muser4000 hardware installation steps

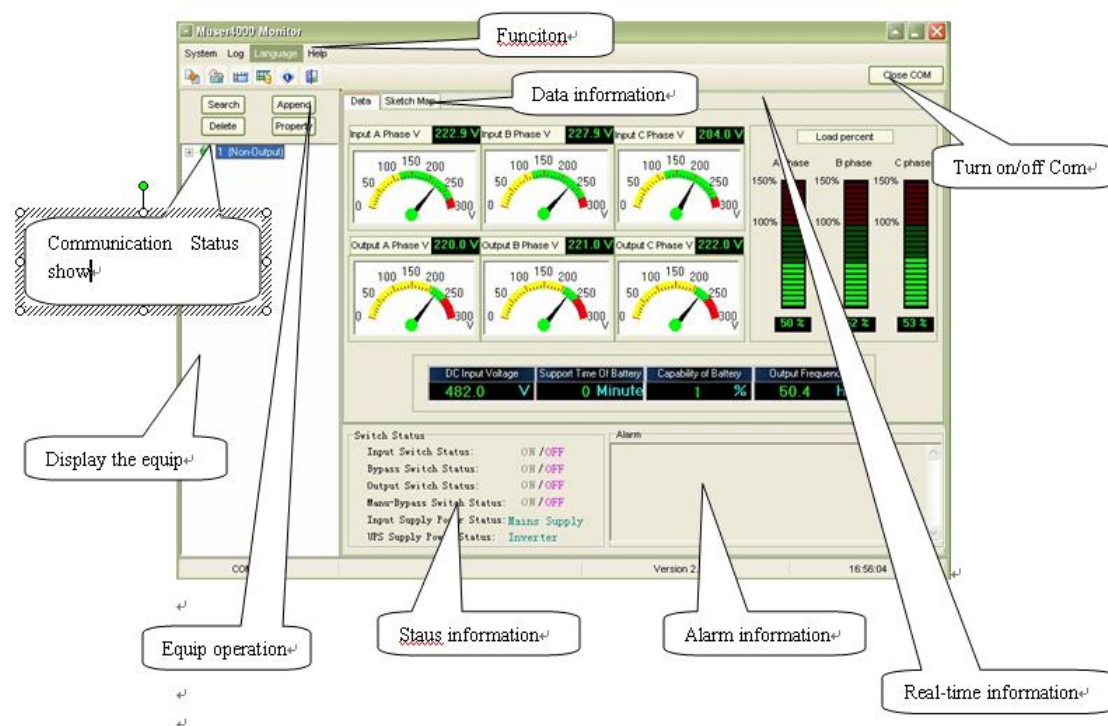
- Connect UPS and PC with serial port cable.
- Male serial port connects to the RS232 communication port of UPS.
- Female serial port connects to the RS232 communication port of PC.

4 Software installation

- Put UPS CD into CD-ROM.
- Run setup.exe program, and default the program will be installed into "C:\ Program Files\Muser4000".
- When UPS install done, user can run this program.

5 Operation

5.1 Software main figure:



Turn on/off Com: Indicator on express the corresponding serial port is open, indicator off express the corresponding UPS is close.

Communication Status show: Red light means communication error, Green light means communication OK.

Equip operation: Click append/delete/search/property button to manage the equipment.

Real-time information: Display the real-time information of main monitor UPS.

Data information: Display the real-time data information of main monitor UPS.

Status information: Display the real-time status information of main monitor UPS.

Alarm information: Display the real-time alarm information of main monitor UPS.

5.2 Software Parameter Setting

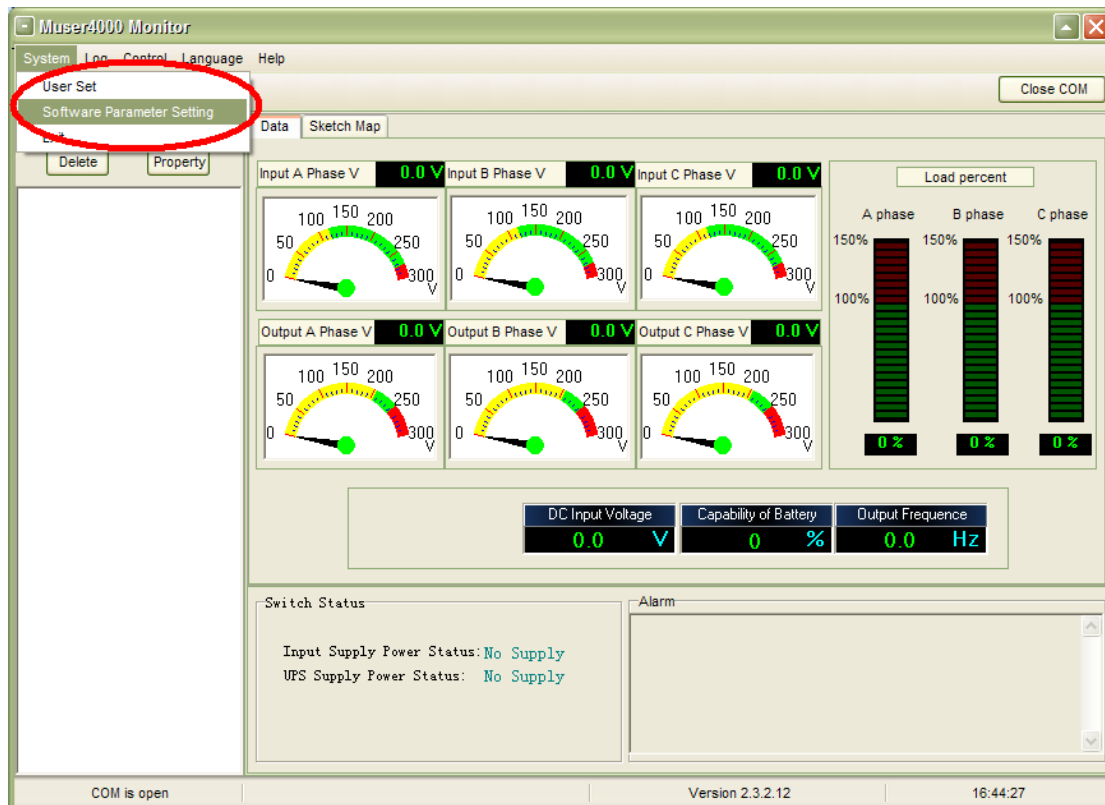
HIP/HPM3320-SA

The latest muser4000 Software Version 2.3.2.12

- choose “System”



- choose: “Software Parameter Setting”



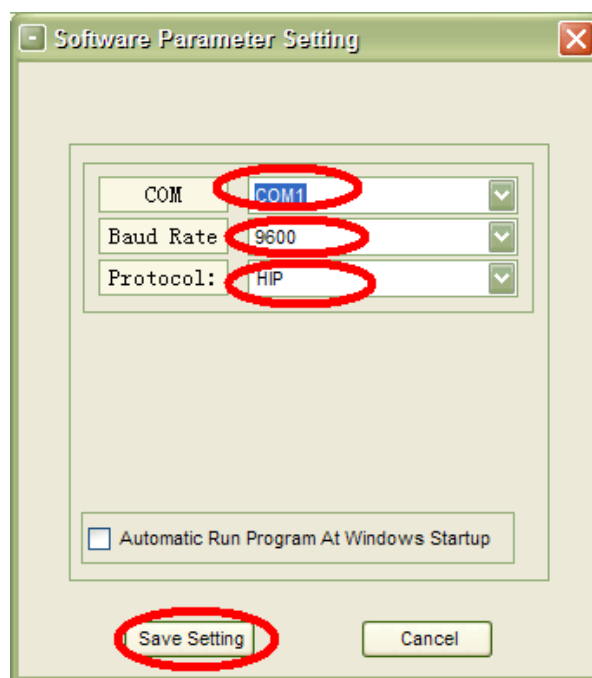
● “System”

COM: Select PC COM.

Baud Rate: Select PC Baud Rate.

Protocol: Select Protocol.

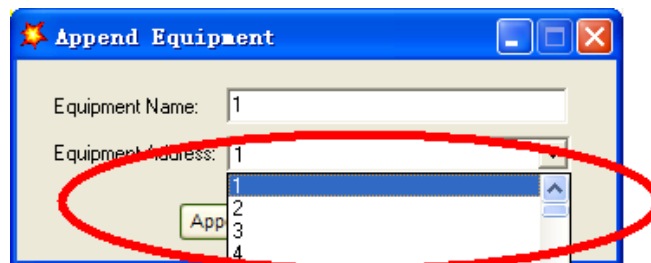
COM Port must be the same design as PC port, Baud Rate use “9600”, Protocol use “HIP” and then “Save Setting”

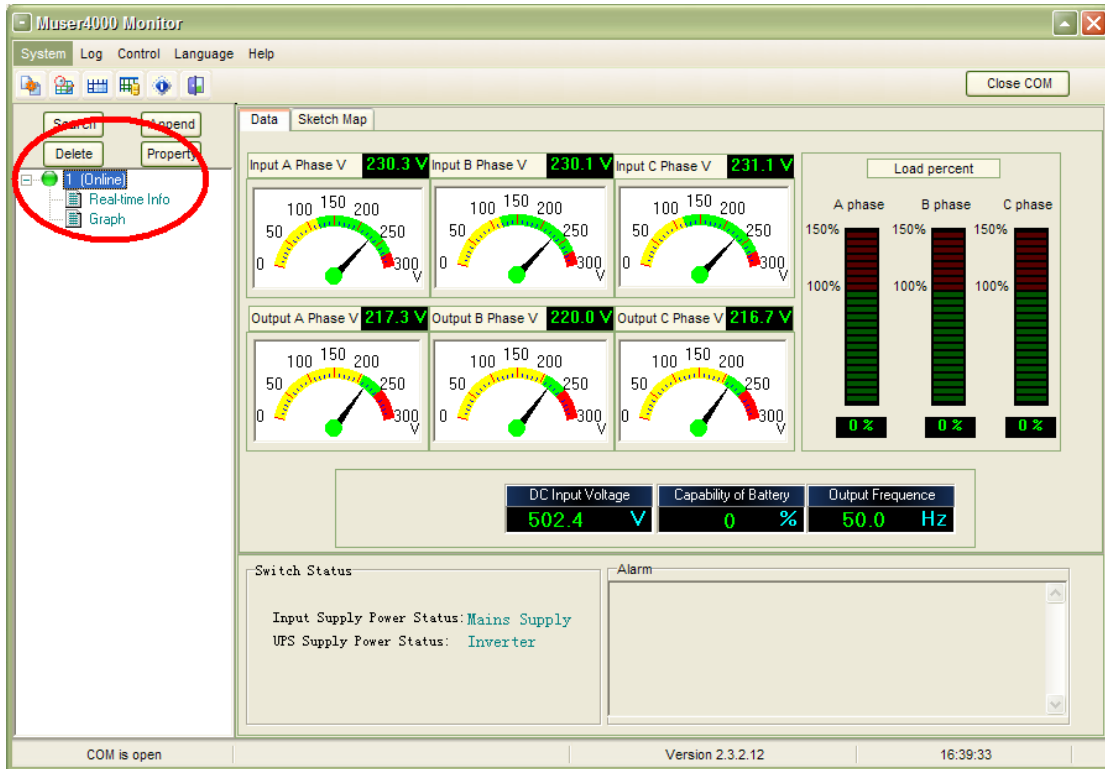


● add UPS

As shown in the following figure: (Each frame should refer to the steps mentioned above in order to add UPS, with different parameters.

Click Append, type any name or number at “ Equipment Name” menu, however the Equipment Address should be the same as frame ID number, then click Append.

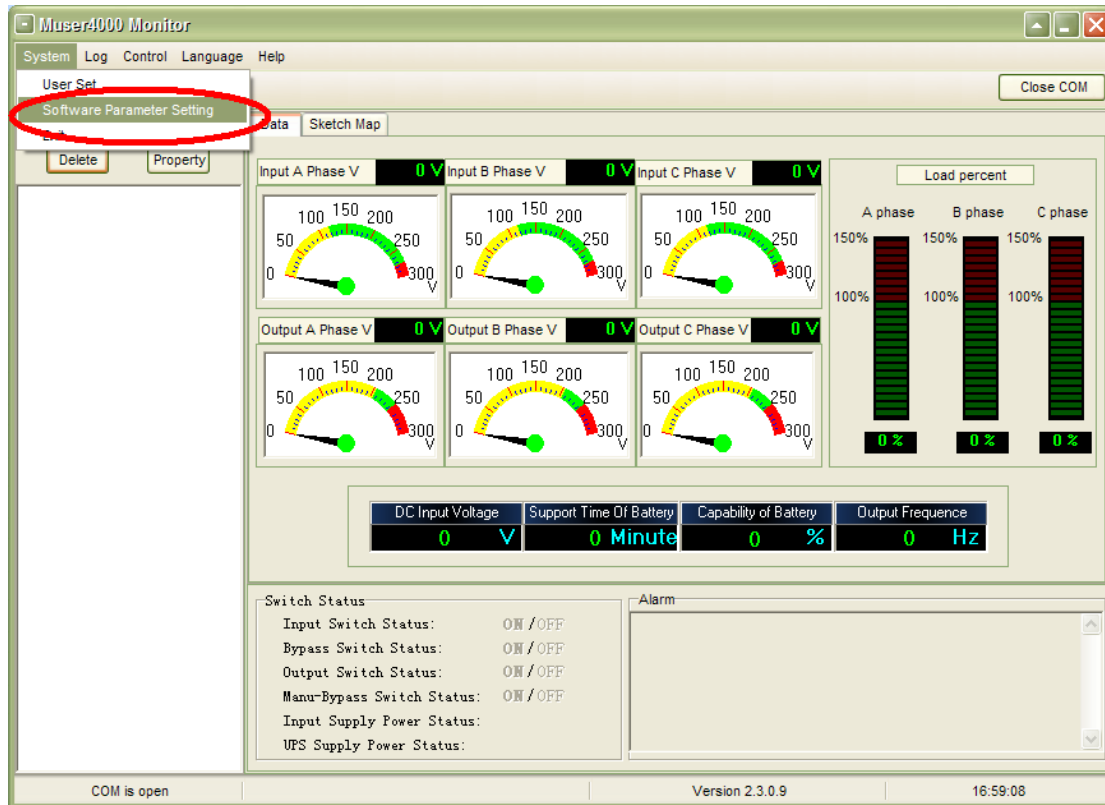




HPM/YMK Parameter Setting:
The latest muser4000 Software Version 2.3.0.9
 ●choose“System”

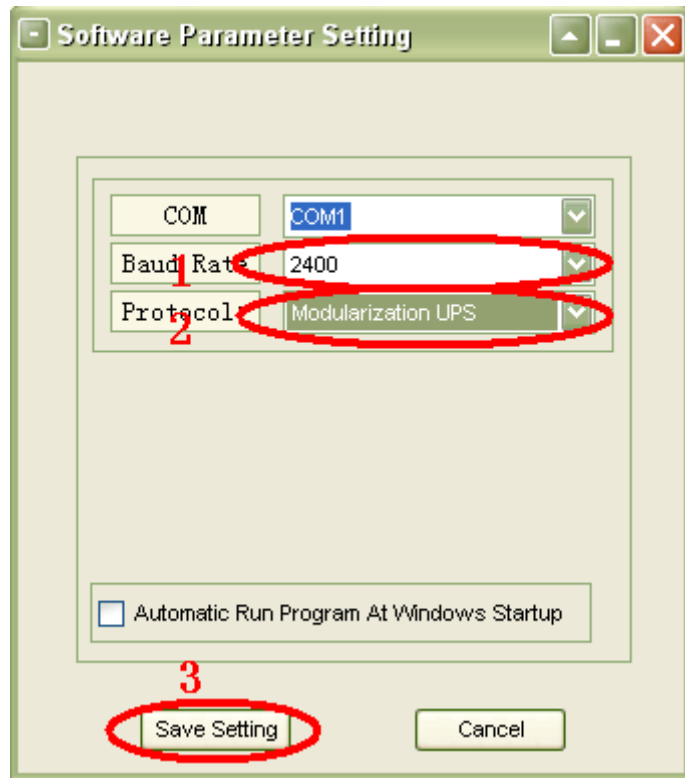


●choose: “Software Parameter Setting”



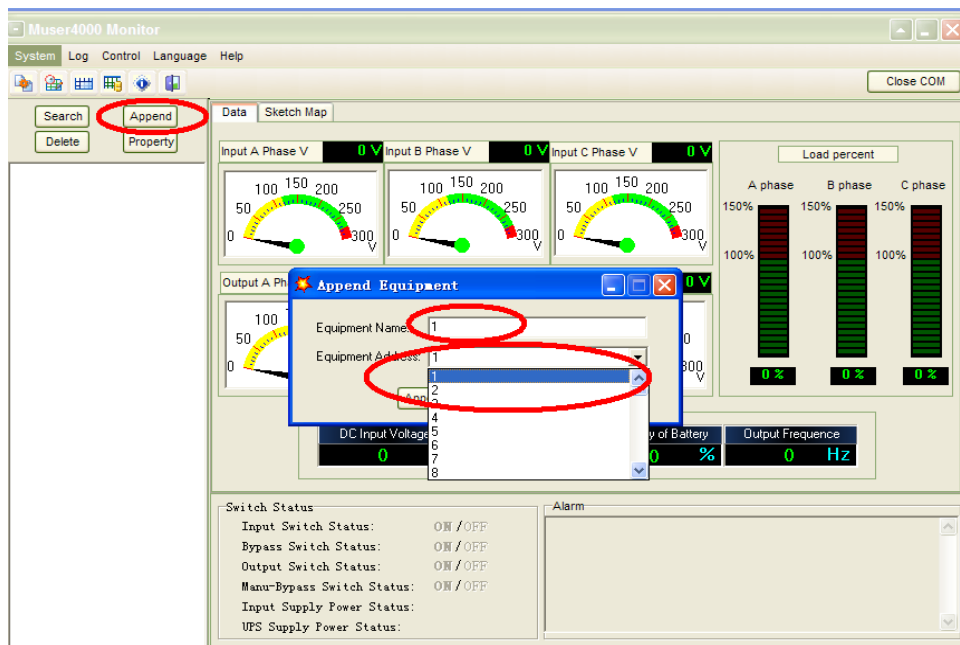
- Choose “System”

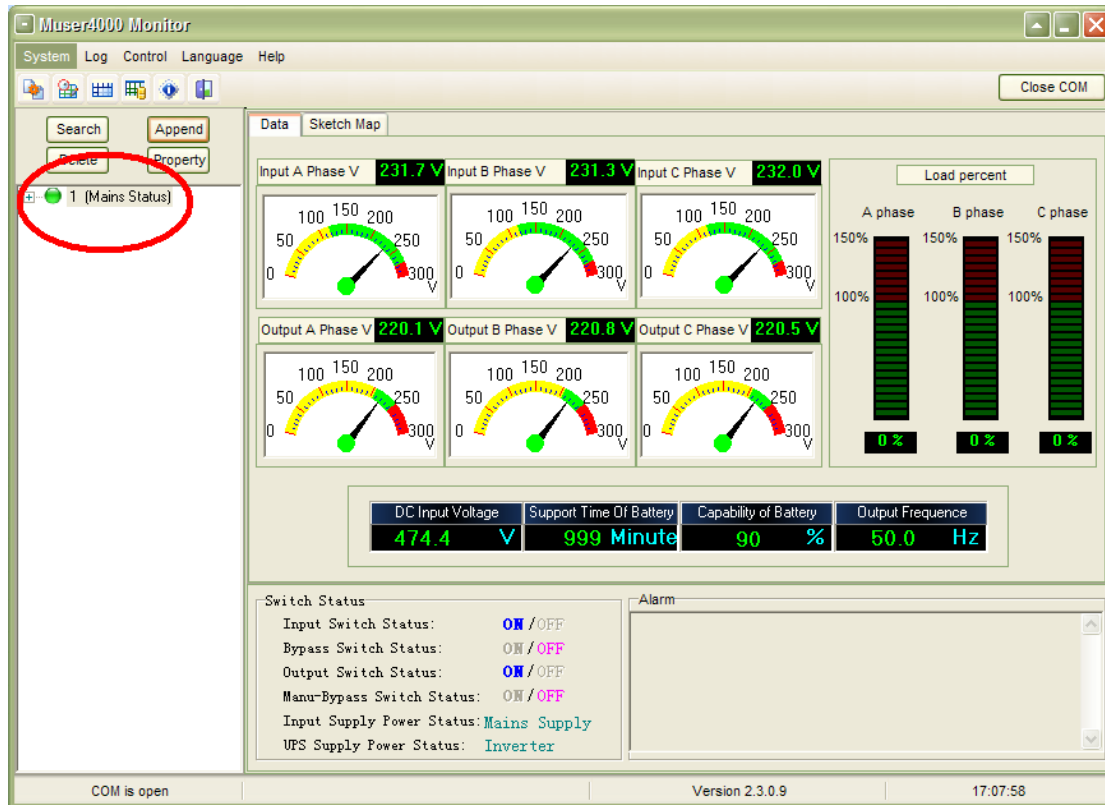
COM Port must be the same design as PC port , Baud Rate use “2400” , Protocol use “Modularization UPS” and then click “Save Setting”



● Add UPS

Click Append, type any name or number at “ Equipment Name” menu, however the Equipment Address should be the same as frame ID number, then click Append.





5.3 Real-time information display

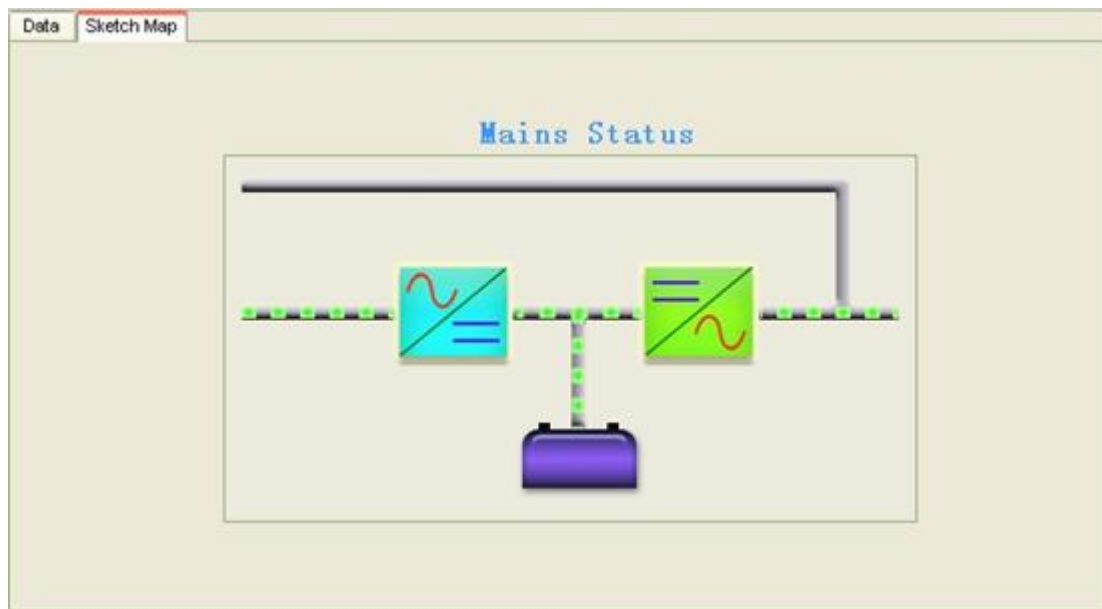
Users can check the following figures in real-time information display area when PC connects to UPS:

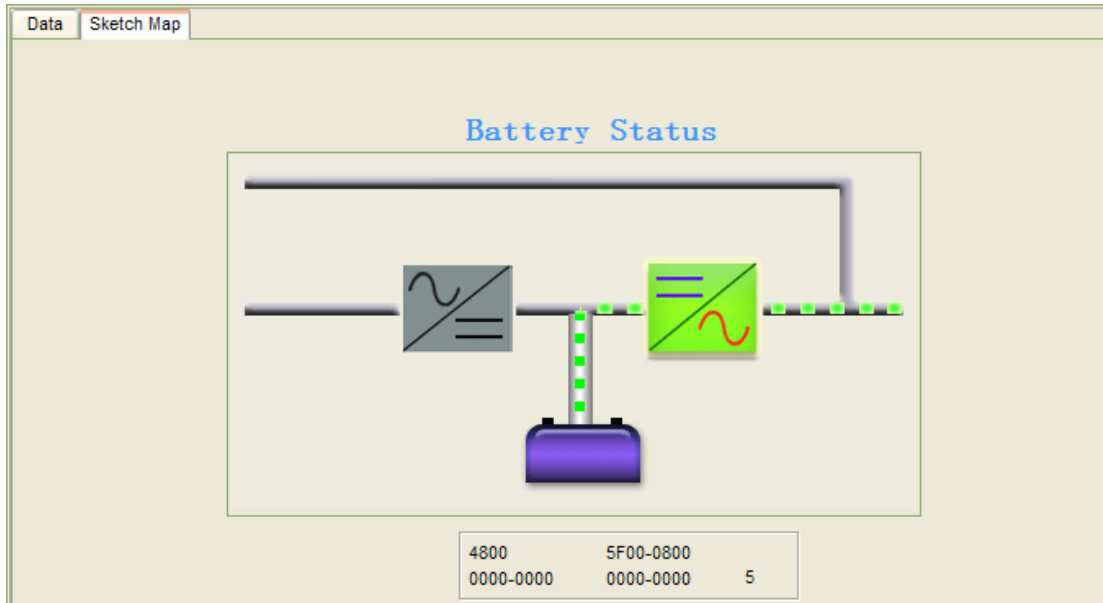
5.3.1 Data



This figure displays partial current data of monitor UPS with meters.

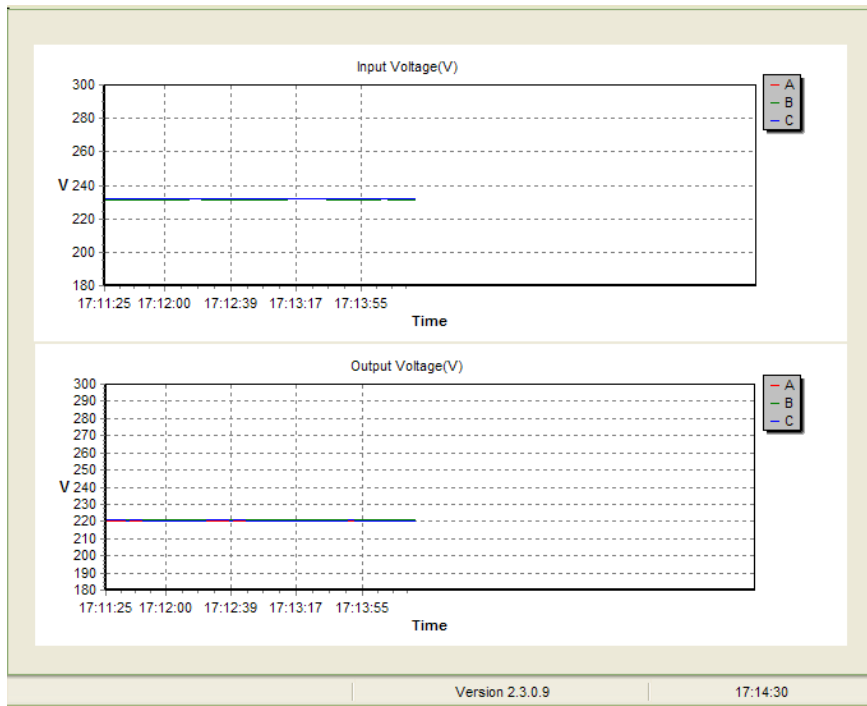
5.3.2 Sketch Map





This figure displays the running status of monitor UPS.

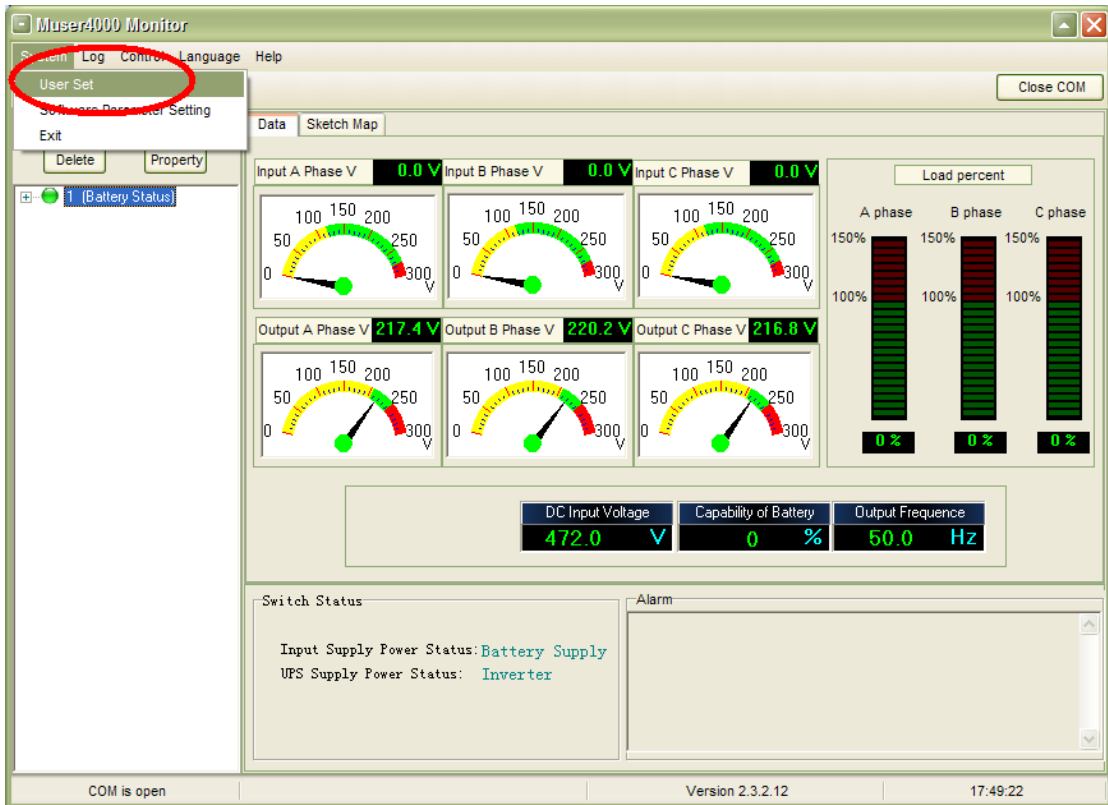
5.3.3 Graph



This figure displays the input and output Volt of monitor UPS with curve..

5.4 UPS rating parameter query and setting

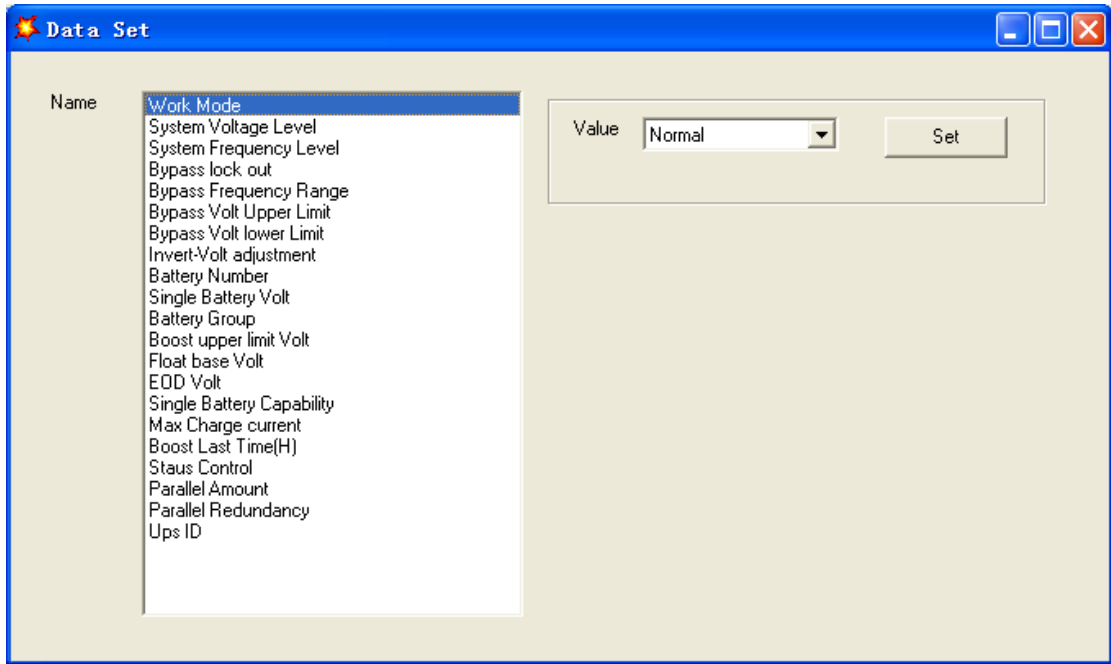
HIP/HPM3320-SA User setting



The 'User Set' configuration window includes the following settings:

- Work Mode:** Normal
- System Voltage Level:** 380V
- System Frequency Level:** 50Hz
- Parallel Amount:** 1
- Parallel Redundancy:** 0
- Bypass Frequency Range:** 10%
- Bypass Volt Upper Limit:** 5%
- Bypass Volt lower Limit:** -45%
- Invert-Volt adjustment:** 0%
- Ups ID:** 1
- Output:** Enable, Disable
- Auto Turn-on:** Enable, Disable
- Buzzer:** Enable, Disable
- Battery Set:**
 - Battery Number(x2): 40
 - Single Battery Capability(AH): 100
 - Single Battery Volt.(V): 12V
 - Float base Volt.(V/Cell): 2.25
 - Boost upper limit Volt.(V/Cell): 2.30
 - EOD Volt(0.01V/Cell): 1.75
 - Battery Group: 1
 - Boost Last Time(H): 1
 - Boost Charge:** Enable, Disable

This figure displays the forms for browsing.



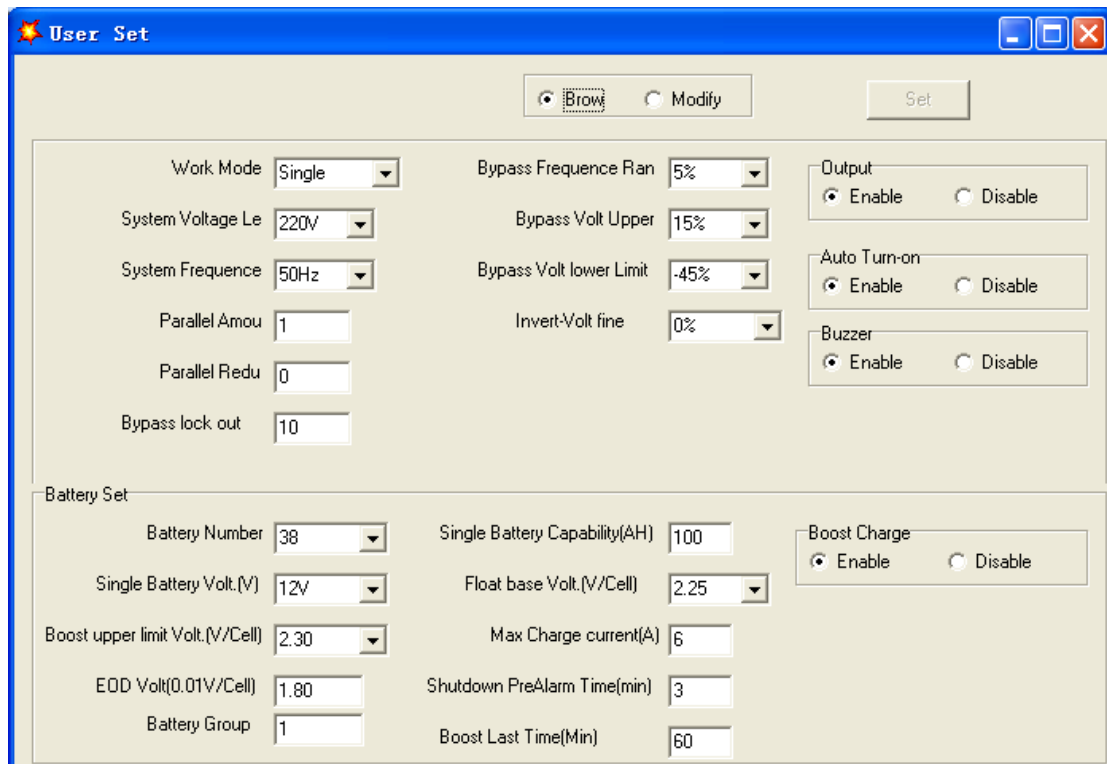
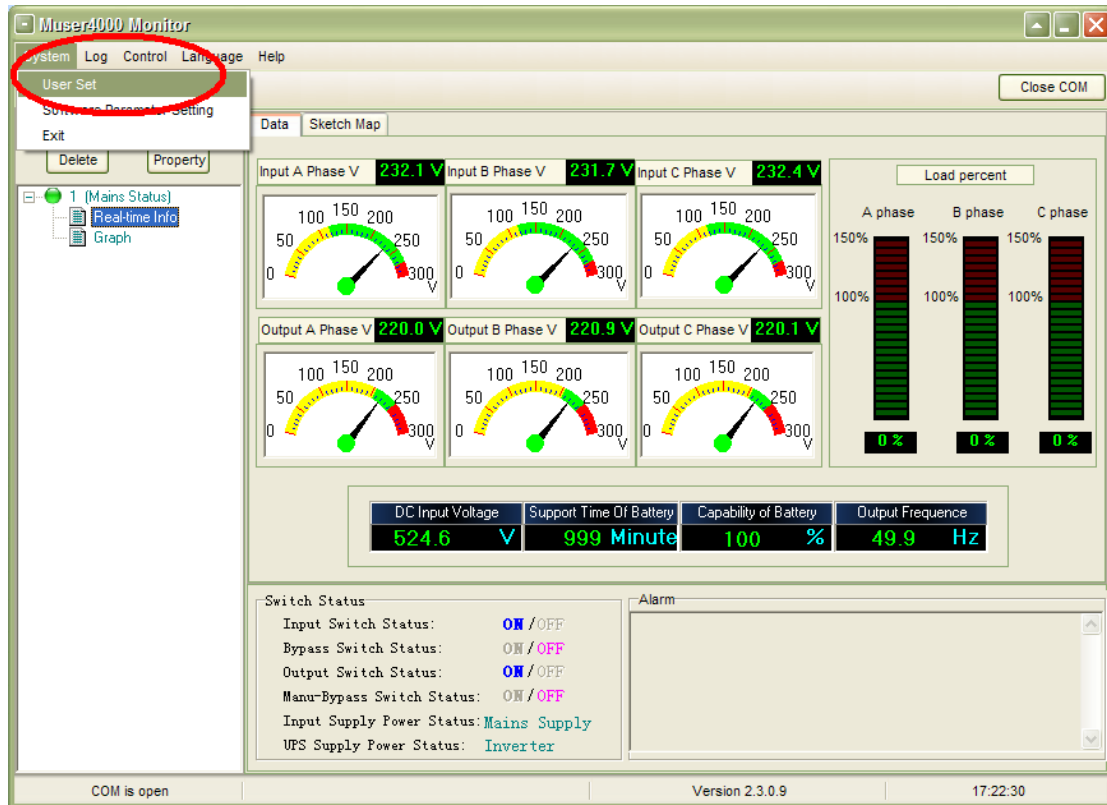
This figure displays the forms for setting

If user wants to check total data or all UPS, then user has to click “Data Set”.

When users want to set the Parallel, users have to choose “Parallel Amount “ and put value number and click “Set”, or choose Parallel Redundancy on “Name” menu, and click “Set” to retrieve the data.

Notice:

All information of User Set is Read-Only. User can change settings on pushing selection buttons on LCD frame.

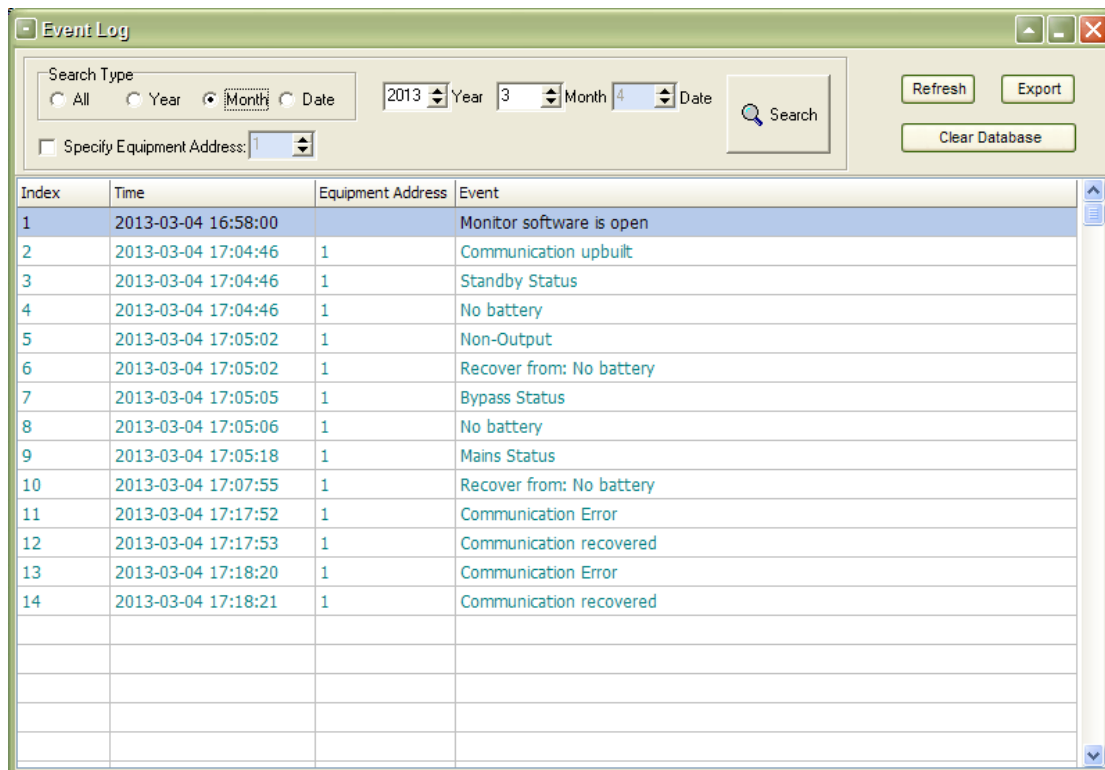


This figure displays the forms for browsing.

5.5 Event Log



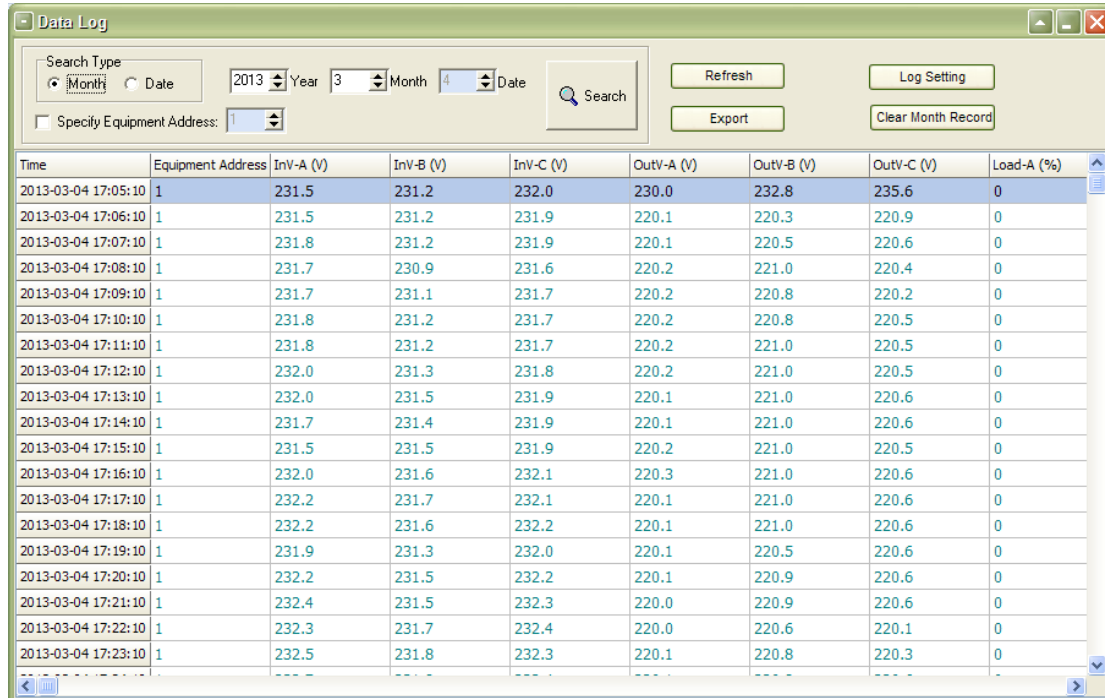
This display check the Event Log



This figure displays the event information of main monitor UPS. User can search the EventLog with the condition of year, month, date or address of equip. Users also can export all events with

*xls format.

5.6 DataLog

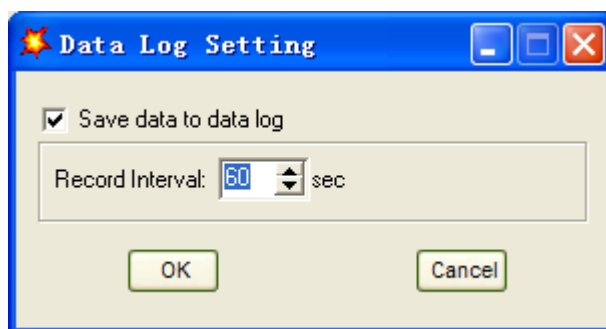


The screenshot shows a window titled "Data Log" with a search interface and a data table. The search interface includes a "Search Type" dropdown set to "Month", a "Date" dropdown set to "2013", a "Year" dropdown set to "3", a "Month" dropdown set to "4", and a "Date" dropdown set to "4". There is a "Search" button and a "Specify Equipment Address" field with a dropdown set to "1". The data table has the following columns: Time, Equipment Address, Inv-A (V), Inv-B (V), Inv-C (V), OutV-A (V), OutV-B (V), OutV-C (V), and Load-A (%). The table contains 20 rows of data.

| Time | Equipment Address | Inv-A (V) | Inv-B (V) | Inv-C (V) | OutV-A (V) | OutV-B (V) | OutV-C (V) | Load-A (%) |
|---------------------|-------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| 2013-03-04 17:05:10 | 1 | 231.5 | 231.2 | 232.0 | 230.0 | 232.8 | 235.6 | 0 |
| 2013-03-04 17:06:10 | 1 | 231.5 | 231.2 | 231.9 | 220.1 | 220.3 | 220.9 | 0 |
| 2013-03-04 17:07:10 | 1 | 231.8 | 231.2 | 231.9 | 220.1 | 220.5 | 220.6 | 0 |
| 2013-03-04 17:08:10 | 1 | 231.7 | 230.9 | 231.6 | 220.2 | 221.0 | 220.4 | 0 |
| 2013-03-04 17:09:10 | 1 | 231.7 | 231.1 | 231.7 | 220.2 | 220.8 | 220.2 | 0 |
| 2013-03-04 17:10:10 | 1 | 231.8 | 231.2 | 231.7 | 220.2 | 220.8 | 220.5 | 0 |
| 2013-03-04 17:11:10 | 1 | 231.8 | 231.2 | 231.7 | 220.2 | 221.0 | 220.5 | 0 |
| 2013-03-04 17:12:10 | 1 | 232.0 | 231.3 | 231.8 | 220.2 | 221.0 | 220.5 | 0 |
| 2013-03-04 17:13:10 | 1 | 232.0 | 231.5 | 231.9 | 220.1 | 221.0 | 220.6 | 0 |
| 2013-03-04 17:14:10 | 1 | 231.7 | 231.4 | 231.9 | 220.1 | 221.0 | 220.6 | 0 |
| 2013-03-04 17:15:10 | 1 | 231.5 | 231.5 | 231.9 | 220.2 | 221.0 | 220.5 | 0 |
| 2013-03-04 17:16:10 | 1 | 232.0 | 231.6 | 232.1 | 220.3 | 221.0 | 220.6 | 0 |
| 2013-03-04 17:17:10 | 1 | 232.2 | 231.7 | 232.1 | 220.1 | 221.0 | 220.6 | 0 |
| 2013-03-04 17:18:10 | 1 | 232.2 | 231.6 | 232.2 | 220.1 | 221.0 | 220.6 | 0 |
| 2013-03-04 17:19:10 | 1 | 231.9 | 231.3 | 232.0 | 220.1 | 220.5 | 220.6 | 0 |
| 2013-03-04 17:20:10 | 1 | 232.2 | 231.5 | 232.2 | 220.1 | 220.9 | 220.6 | 0 |
| 2013-03-04 17:21:10 | 1 | 232.4 | 231.5 | 232.3 | 220.0 | 220.9 | 220.6 | 0 |
| 2013-03-04 17:22:10 | 1 | 232.3 | 231.7 | 232.4 | 220.0 | 220.6 | 220.1 | 0 |
| 2013-03-04 17:23:10 | 1 | 232.5 | 231.8 | 232.3 | 220.1 | 220.8 | 220.3 | 0 |

This figure displays the current data information of main monitor UPS. User can search the DataLog with the condition of year, month, date or address of equip. Users also can export all events with *xls format.

5.7 DataLog Set



User can set time to log the data information of main monitor UPS.

5.8 Equip Operation

5.8.1 Search

Search Equipment

Search Equipment on RS485 network:

Searching Type
 default user-defined

Range of Searched Address
From 1 To 254

Search

Addresses that have been searched:

Addresses that will be Appended:

| Equip Addr | Equip Name |
|------------|------------|
|------------|------------|

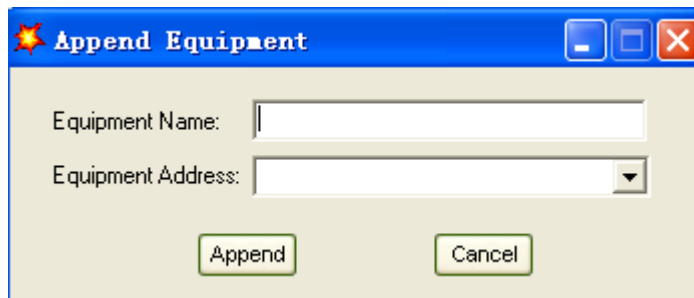
Addresses that system had existed:
1

Let equipment name the same as its address

Clear List Append To System

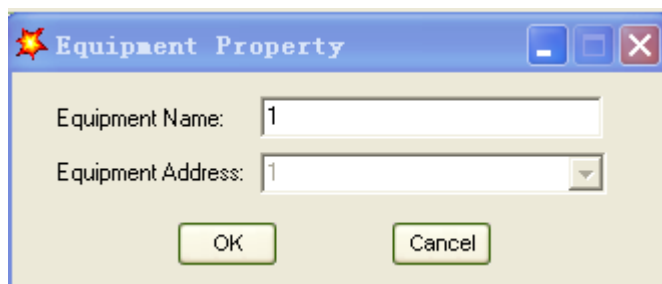
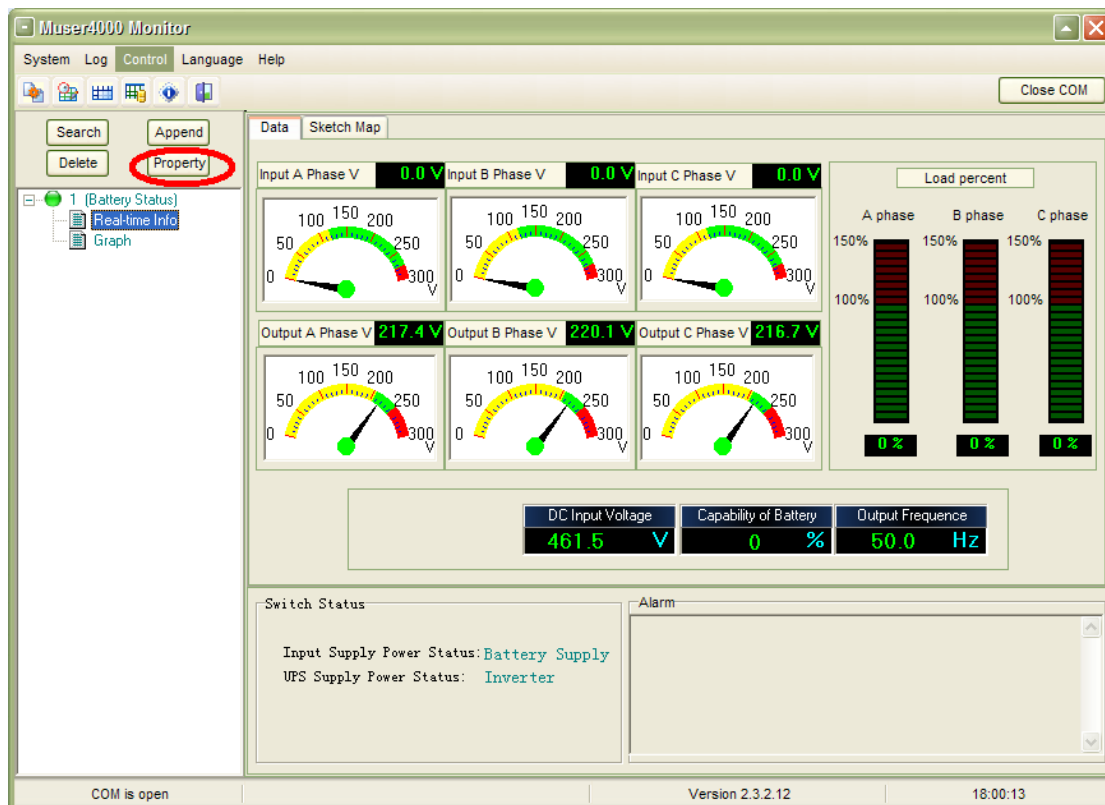
User can set the searching range. User will search the online equipment after clicking the search button and append the equipment to the system had existed area.

5.8.2 Append



User can append the equip

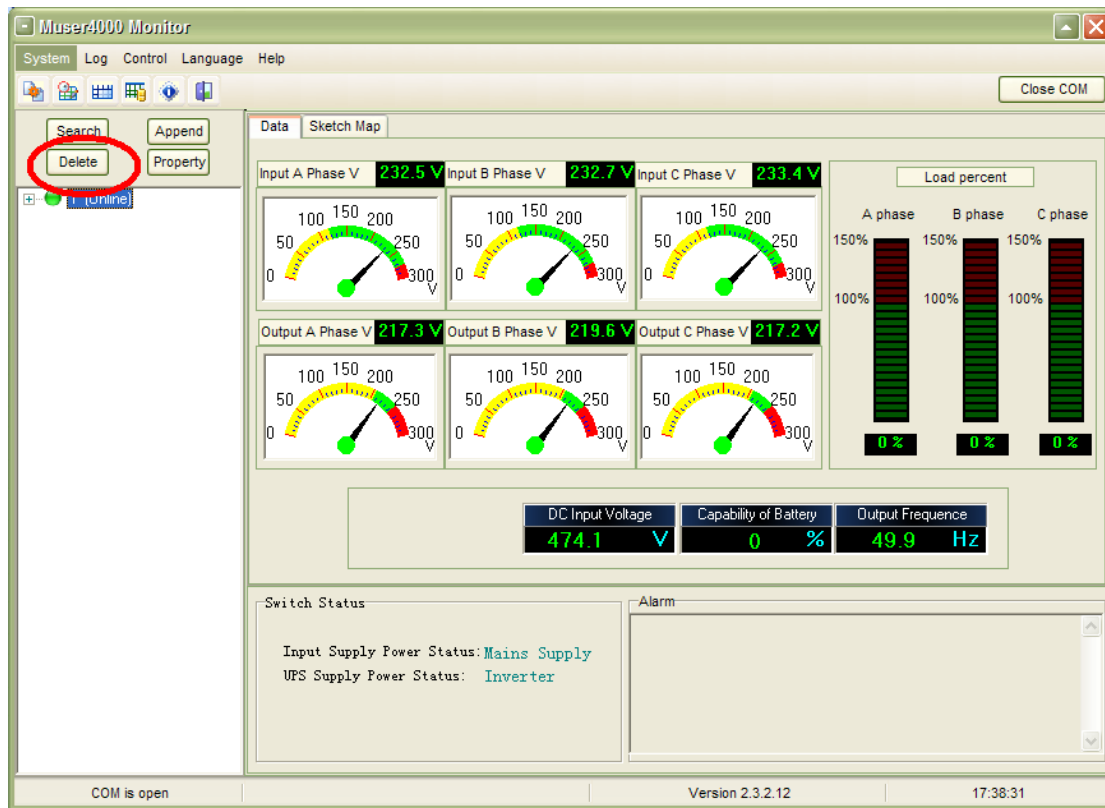
5.8.3 Property



User can set the name of equip only.

5.8.4 Delete Control Language and Help

User can delete the selection in the area of Equip.



Ups inverter remote control (On, Off), Language has Chinese and English version.

The following are some user friendly optional operation shortcuts icon!

