UPSmart User Manual

UPS Intelligent Monitoring Software

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I. Introduction

UPSmart is a smart UPS monitoring and controlling software applied to RS-232 and USB port, which can implementation of single-phase and three-phase UPS real-time data monitoring, and runs on windows operating system. When the Mains is normal, UPSmart displays the status of UPS (e.g. input & output voltage, frequency, load, temperature and battery capacity etc.) in digital, graphic and Real-time data curve, which help the user monitor the quality of power supply; When the Mains break off or UPS battery low, UPSmart will perform its monitoring function without people around. It will automatically save records, shut down systems in security. And in addition it add more possible means to automatically send the alarm message, including email sending etc., which make the user no need to worry about any systems or file lost during the Mains off.

Function

- (1) Real-time data monitoring of single-phase and three-phase UPS
- (2) English and Chinese language switching
- (3) Auto email events notification
- (4) Auto SMS events notification
- (5) Auto sense Mains break off and UPS battery
- (6) Setup auto on/off time
- (7) Support timing schedule or special schedule
- (8) Real-time display UPS status in digital, graph and data
- (9) Set up off countdown time and the interval of each warning
- (10) Set up UPS self-testing time
- (11) Auto close program and files saved before system auto off
- (12) Record and analyze the power state
- (13) Support DB9 and USB connection

II. System requirement

1. Hardware requirement

- (1) Computer system: support RS 232 or USB communication interface
- (2) connecting line: UPS dedicated RS232 9 pin serial port or USB cable, for customers to

use RS - 232 serial port connecting, connect one end of the female head on UPS system RS - 232 communication port, male head connect the computer serial port (if the USB to serial port line can be directly on the computer's USB port). If the system only 25 pin of the communication port, user can use 9 pin on the 25 pin connector to connect; For customer use USB connecting, with a dedicated USB data communication line to the computer connected to the UPS. Three kinds of connections line as shown in figure.



A USB cable to serial port



A serial port cable



USB cable

2. Operation system

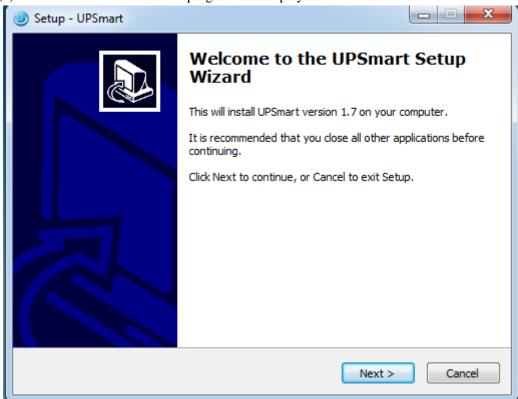
- (1) Microsoft Windows 95
- (2) Microsoft Windows 98
- (3) Microsoft Windows NT
- (4) Microsoft Windows 2000
- (5) Microsoft Windows 2003/2008/2012
- (6) Microsoft Windows Me
- (7) Microsoft Windows XP (32/64)
- (8) Microsoft Windows Vista (32/64)
- (9) Microsoft Windows 7 (32/64)
- (10) Microsoft Windows 8 (32/64)

Ⅲ. Installing\Start\Uninstall

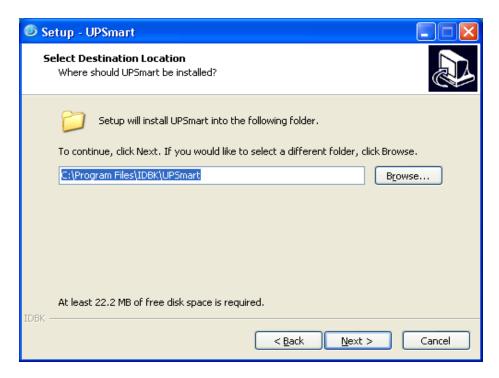
1. Installing UPSmart

1) Double click the setup-UPSmart .exe file to start up UPSmart installation procedure, The installation process is as follows.

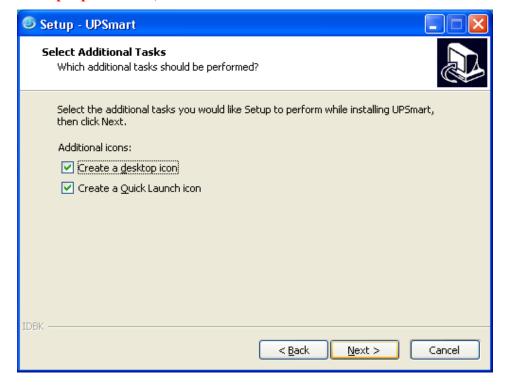
(1) Double click on installation program will display installation wizard



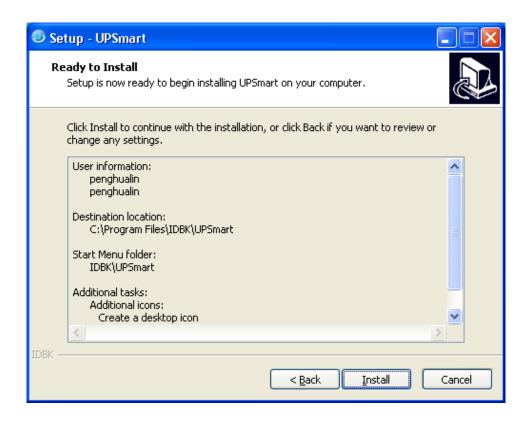
(2) according to installation wizard to setup install folder, default folder: C:\Program Files \IDBK\UPSmart, of cause this folder can be modified .to continue, click next.



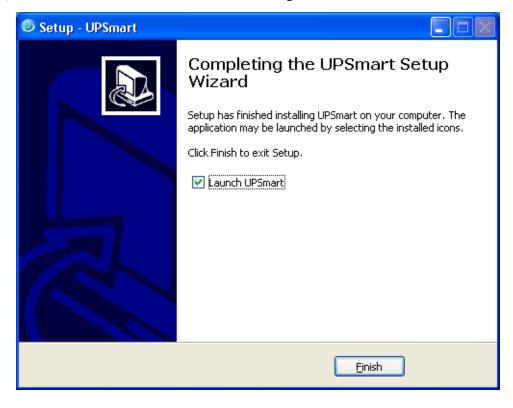
(3) During the installation process may setup choose to create a desktop icon and quick start, default is checked .(Note: Recommendations do not modify the default such convenience found in desktop rapid run icon)



(4) setup completed ,then click "Install "until install finish.



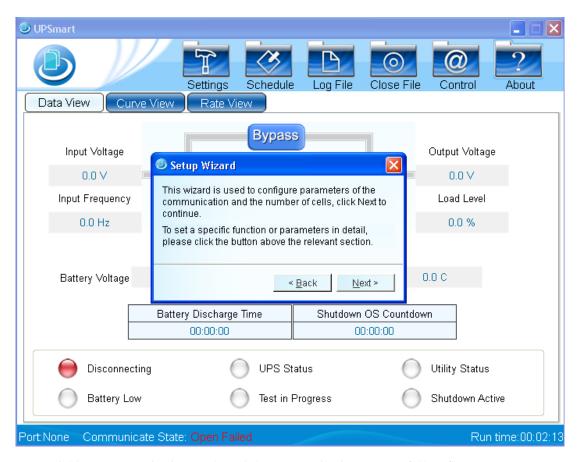
(5)install finished ,click "Finish" button start running software



2) Please note that the user should firstly enter using super administrator status. And install the software on Windows XP, NT 4.0/2000 and Server 2003 environment.

2. Start UPSmart

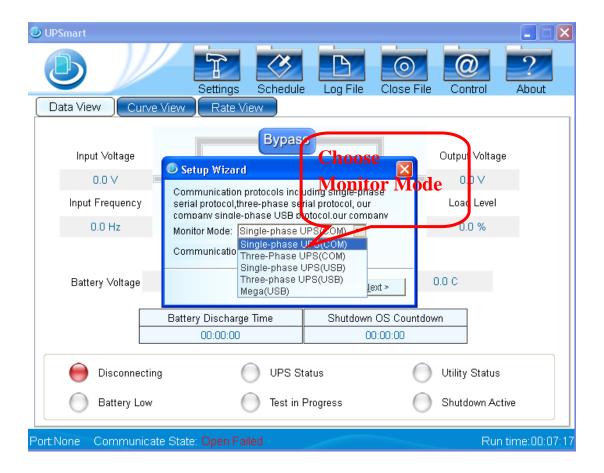
- 1) when install finished , the shortcut is created on desktop ,as the same time install program is created on start menu bar of system .
- 2) Firstly install and running software , user may quick setup connect UPS to monitor software .
 - (1) Firstly running software as follows figure

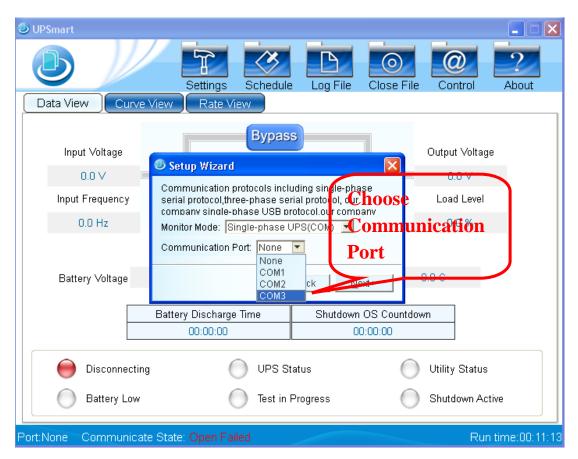


(2) Quickly set up monitoring mode and the communication port, as follow figure

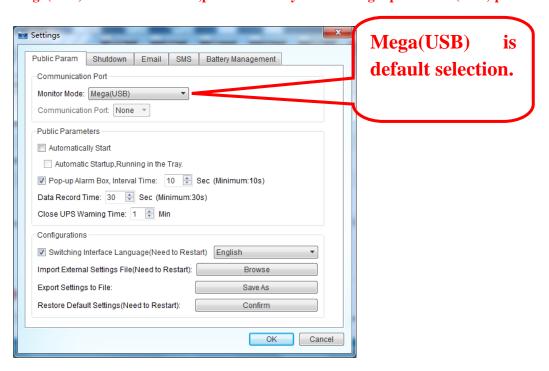
Choose Monitor mode: Single-phase serial connection as an example to introduce in this example so select "single phase UPS (COM)", As shown in figure can choose single phase UPS (COM), three-phase UPS (COM), single phase UPS (USB), three-phase UPS (USB), Mega (USB), a total of 5 models in monitor mode. "COM" means the cable is a serial port cable, "USB" means the cable is the USB cable. Software support our company most of the single-phase and three-phase UPS and ding jian's single phase UPS. If you choose USB to do not need to set the communication port USB connection software automatically connected by default.

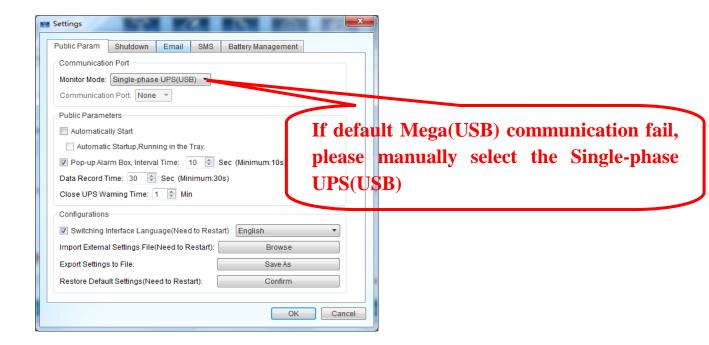
Choose communication port: when choose "single-phase UPS(COM)", If the device and the computer is good at this moment ,can be detected in communication port automatically connect a serial port, as shown in figure choose COM3 port, click next after a connection is set.





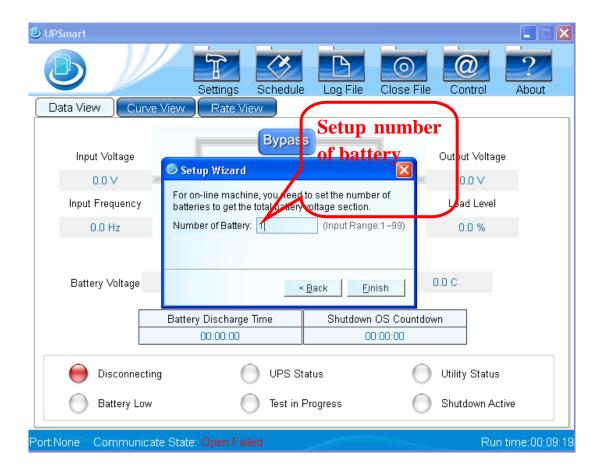
Note: There are three kinds of USB communication protocols available for selection.Single-phase-UPS(USB),Three-phase-UPS(USB),Mega(USB).Single-phase-UPS(USB) and Mega(USB) are Single-phase-USB protocol. Default selection is Mega(USB).If Mega(USB) communication fail,please manually select a Single-phase-UPS(USB) protocol.





(3) Setup Nnmber of battery

The number of battery must make sure correct ,in order to the software can automatically calculate to obtain relevant information of the battery. Set the battery and then click the finish button, the software can automatically connect the UPS.



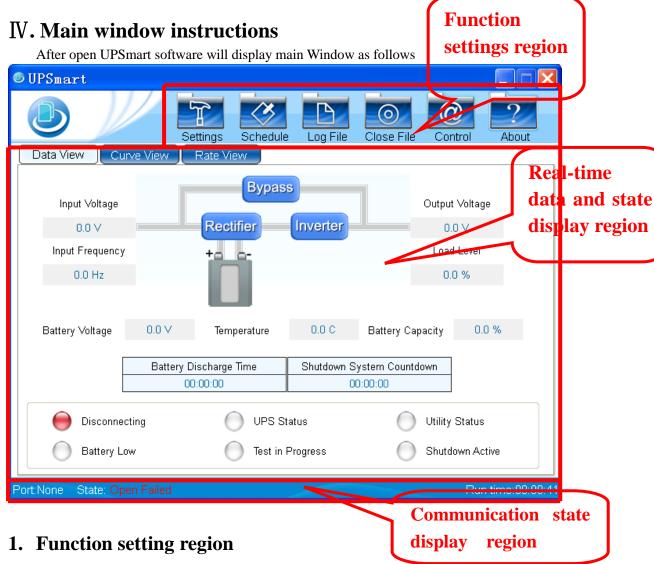
(4) Software is running after complete Quickly set up as follows



3. Uninstall UPSmart

If you want to uninstall UPSmart, in UPSmart program group choose to delete "uninstall UPSmart" and confirm. As shown in figure:





After the installation is complete, user can set various functions of parameter values. Each parameter values will affect the UPSmart whether the program can normal operation, the main icon button above.

"Settings" toolbar: Click this button to set up some main parameters, shutdown, mail alarm, SMS alarm, battery management related configuration.

"Schedule" toolbar: Click on this button is mainly for UPS time ON and OFF Settings, user can be set up according to the daily, weekly, monthly time UPS automatically ON and OFF.

"Log File" toolbar: Click this button to view communication of related records, UPS monitoring data records, records SMS, related testing records.

"Close File" toolbar: Click this button to view automatically close and save of the relevant documents when power off

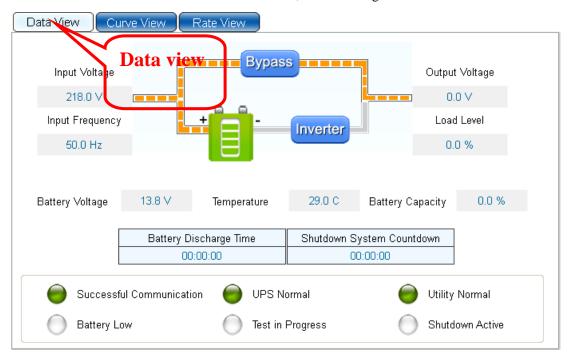
"Control File" toolbar: Click on this button for UPS to send the corresponding control command

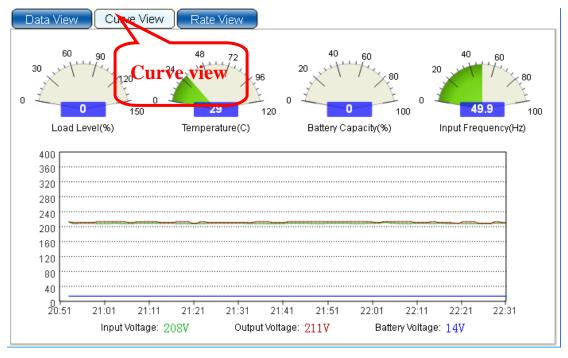
"About" toolbar: Click on this button to view the user manual, and can quickly setup at the

For parameter Settings in other chapter introduce in detail

2. Real-time data and state display region

UPSmart connected to the UPS, in this area will show relevant information. The user can choose to view of data, curve view to display, display contains the contents of the input voltage, output voltage, frequency, load, temperature, battery and other related information such as; user can also check UPS related information in this area, as follows figure







3. Communication state display region

The area to show the connection mode of UPS, connection status, SMS module connection status, system running time information, as follows figure

Port: COM6 Communicate State: Successful Communication

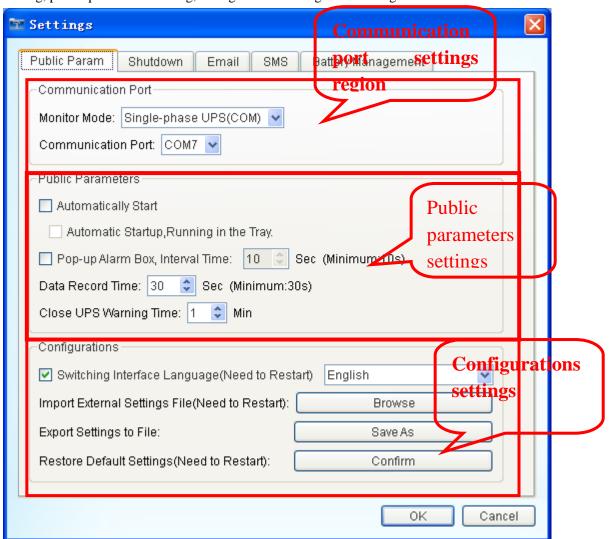
Run time:00:20:13

V. Operation Instruction

1. "Settings" toolbar

1) Public parameter tab bar

First display interface for public parameter Settings tab bar, include the communication port Setting, public parameters Setting, configurations setting three Setting area.



(1) Communication port settings region

Here mainly set up monitoring mode and the communication port, the same as began to quickly set up to monitor mode and the communication port.

Monitor mode: As shown in figure, there are single-phase UPS (COM), three-phase UPS (COM), single-phase UPS (USB), three-phase UPS (USB), Mega (USB) 5 kinds of monitoring mode. Mainly lies in the cables and single three phase difference, determined under the condition of single phase or three phase, it can be connected via a serial port or USB connection.

Monitor Mode:	Single-phase UPS(COM)	~	Monitor Mode:	Single-phase UPS(COM)			v
^	Single-phase UPS(COM)		morntor mode.	Omgio	pilace of	0(00111)	
Communicatio	Three-Phase UPS(COM)		Communicatio	n Port:	None N	•	
Dublic Devented	Single-phase UPS(USB)				None		
	Three-phase UPS(USB)		-Public Parame	toro	COM6		
Automatical	Mega(USB) ly start		-Fublic Farallie	iers	COMO		

Communication port: Communication port only chose the monitoring mode to serial port connection to be checked, if the connection at this time have good connection, communication port can automatically detect the serial number, choose directly. When choosing the USB connection mode software will automatically find the connection, don't need to be set manually. As shown in figure: select single-phase serial connection to choose corresponding communication port.

(2) Public parameters setting



As shown in figure, selected "automatically start", the software can be run automatically open on the desktop when OS is started, on that basis selected "Automatic Startup, Running in the Tray" hidden software automatically at system boot to the desktop to the lower right corner.

Selected "Pop-up Alarm Box, interval Time", In the grid fault, UPS battery low voltage, system testing, close UPS will pop-up warning dialog box in the lower right corner, warning interval can be set, the default for 10 seconds when fault pop up a warning message.

"Data Record Time", In the main Window is what is inside a "record" toolbar records the UPS work of each kind of data, here you can set its every how long records a data, software defaults to 30 s record data at a time, data record time can be modified.

"Close UPS Warning Time", This time is distance send the shutdown command of close UPS time, prompt soon to shutdown command to activate, the default time of 1 minute.

Utility supply fault

∅ Alarm Prompt	X
Utility supply fault	
Shutdown countdown:00:04:45	

(3) Configurations settings

Configurations	
☑ Switching Interface Language(Need to Restar	t) English
Import External Settings File(Need to Restart):	Browse
Export Settings to File:	Save As
Restore Default Settings(Need to Restart):	Confirm

Selected "Switching Interface Language", user can be on the right side of the drop-down box select the corresponding language, software only supports English, Chinese, traditional Chinese three languages

"Import External Settings File", If the user had save output configuration file after detailed configuration software configuration file, in the next match can be directly imported that configured files, without manually one by one again configuration options

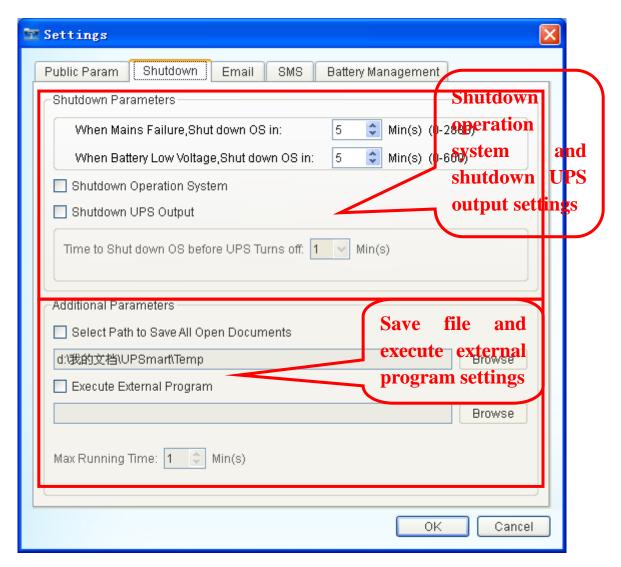
"Export Settings to File", if you have already set up all the configuration, can save the configuration file, to help the next time the configuration directly import the configuration file

"Restore Default Settings", Click on "Confirm" will be restored to the initial configuration

Note: User must restart software after finished "Configurations"

2). Shutdown tab bar

Shutdown tab bar mainly includes: shut down the operating system and close UPS Settings, file save Settings and performing external application settings. The following figure



(1) shutdown operation system and shutdown UPS output

Checked "shutdown operation system", no checked "shutdown UPS Output", In low voltage batteries or mains failure closed operation system but not close UPS

Not checked "shutdown operation system", checked "shutdown UPS Output", at this time only to close UPS will not shut down the operation system. When in the main window of the schedule toolbar had setup close UPS command, here must be selected to close UPS, otherwise the UPS will not be able to shutdown.

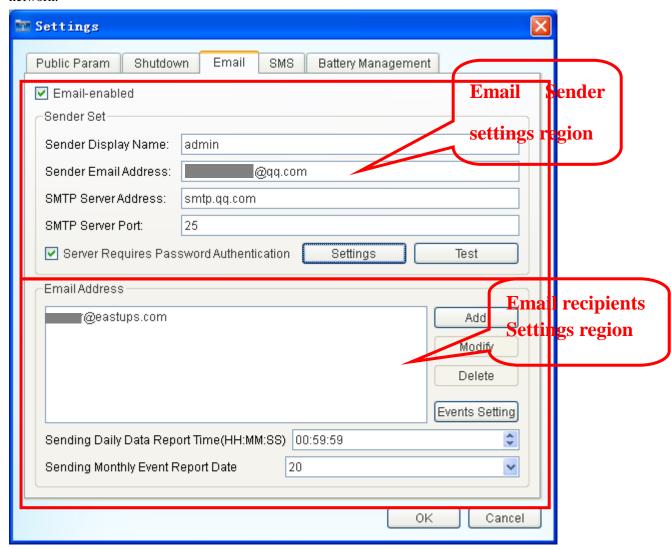
Checked "shutdown operation system", at same time checked "shutdown UPS Output", At this time will shut down the operating system first, then closed UPS. "Close UPS Output" option at the back of the time set that is buffer time for operation system when close UPS, during this time can be save important documents, the default time of 1 minute.

(2) Save file and execute external program

Select this option, under special circumstances, user forget to close store related document when the operation system is closed, the software will automatically closed and save document.

3) Email tab bar

Setting this option is set the mail alarm function, set the area is divided into the sender set area, and the recipient area. the alarm function will start after selected "Email-enabled", then Settings for the sender and recipient. Set pattern is divided local area network(LAN) and external network.



(1) Mail sender settings region

If user use local area network(LAN) to send email, setting options include the sender's name, email address, SMTP server address of the sender, SMTP server port, after several Settings can send mail in the local area network (LAN), such as the company's local area network can be set. Special remind when setting up the SMTP server address to ensure that the server address is correct, different email its "SMTP server address" is difference; At this time the default SMTP server port is 25 without modification. If using company email address, you can check the SMTP server address in the email client.

If user use external network to send email, based on local area network (LAN) Settings go on

with set "server requires a password authentication" this option. Setup below, click set up after the completion of the confirmation, this email can be sent to the external network.

Checked here first modify SMTP Server port , if not checked default SMTP Server port is 25

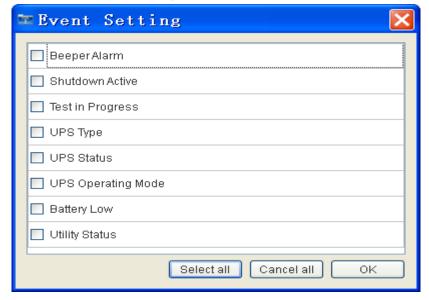


This account name is sender email address, password is sender email password

Checked "Use a Secure Password Authentication", Before did not selected this option email on the Internet are clear text, after select this option is encrypted E-mail. When sending external network the optional don't choose, if you want to select this option ,first asked to modify the SMTP server port, such as 163 email SMTP server port "safe mode" is 465, this according to the different email and choose a different port.

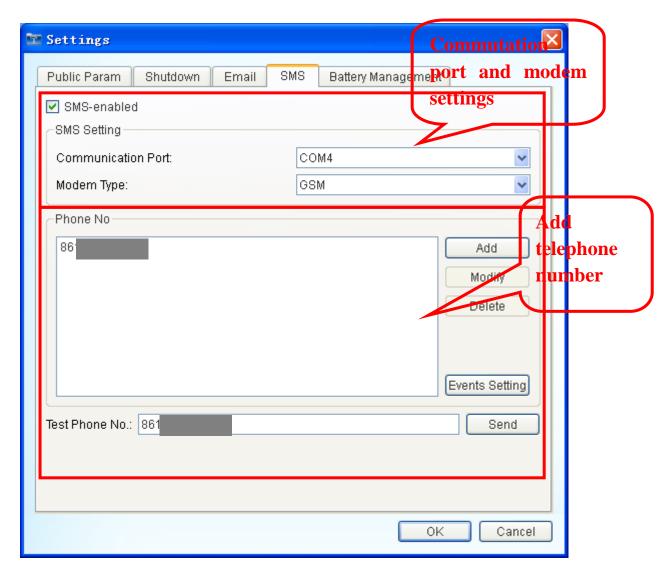
(2) Email recipient settings region

The recipient can add more, click the add button to add the recipient's email address, can be increased the recipient email address. In this area can also be set to send alarm events, click "Events setting "button show as follow figures. At the same time can also specify the time daily reports to send data and send the incident report time every month.



4) SMS tab bar

To use this function you first need to have a message sending module, interface below



(1) Communication port and modem settings

Communication port: Generally through a serial port connection message module, if the connection module is connected, automatically detect serial communication port here connective, just can be selected in the drop-down box.

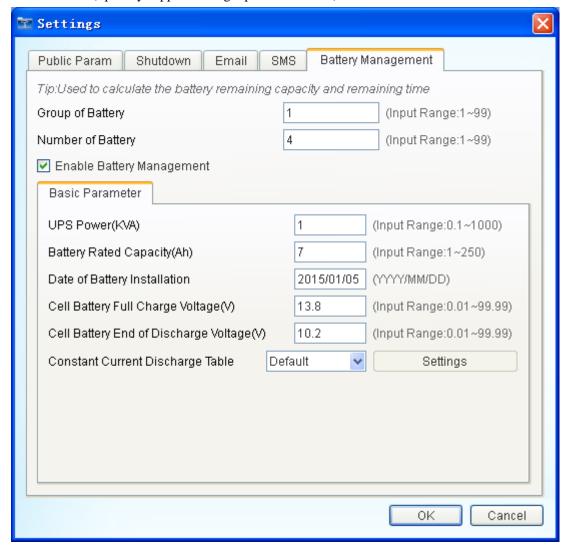
Modem Type: There are three kinds of patterns to choose namely GSM, CDMA, WCDMA.

Note: add "phone number" and "test mobile phone Numbers must be added in front of the" 86 ", for example: 8613468645645

5) Battery Management tab bar

When you checked the "Enable Battery Management", Here are usually set number of battery, group of battery, UPS power, the battery rated capacity, other default ,and software will calculate battery capacity and battery remaining time by oneself.

If you not checked the "Enable Battery Management", the value of battery capacity comes from UPS transmit (tip: only support to single phase UPS now).

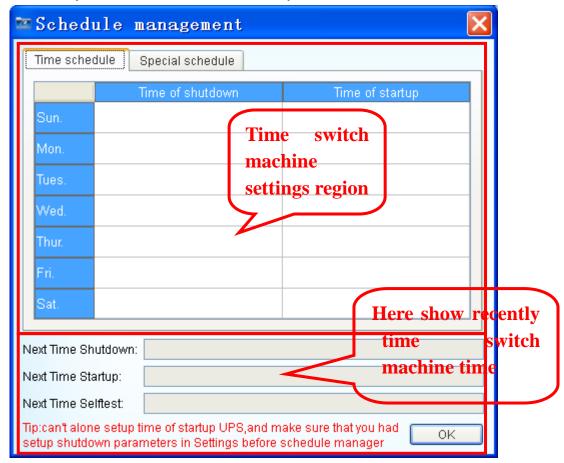


The influencing factors of battery capacity and display error

- (1) Battery current (sampling accuracy; different load rate; many UPS did not upload the battery current, if there is no battery power flow, monitoring only by other parameters estimation, there will be deviation estimates), and this is the main factor affecting the battery capacity.
 - (2) Temperature (most UPS did not sample battery temperature)
- (3) The battery charge and discharge frequency (after the battery for a long time will be aging, aging battery capacity is differences)

2. "Schedule" toolbar

Here the set UPS time switch machine, without having to manually shutdown UPS. When in the case of nobody monitor, software will automatically time switch machine for UPS



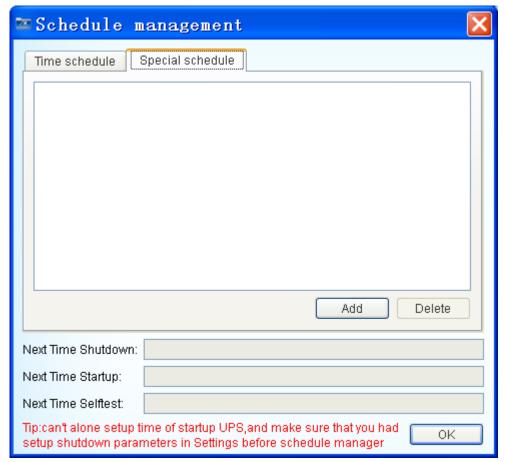
(1) Time schedule

User can be set UPS switch machine at any time within a week, in the "next time close UPS of time" and "next time you startup time" column will show a recent distance now time switch machine time, an so on.

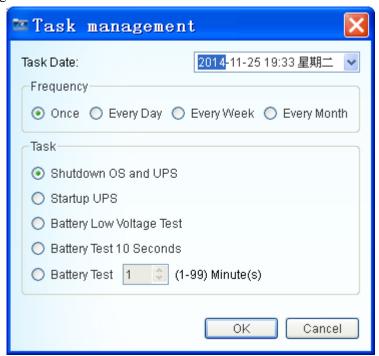
(2) Special schedule

If there is no set time switch machine, user can be set up in the special task switch machine time, interface below. User can add tasks to set the time switch machine, set the interface as below. Frequency for once, daily, weekly, monthly, tasks can be choose.

Special schedule window

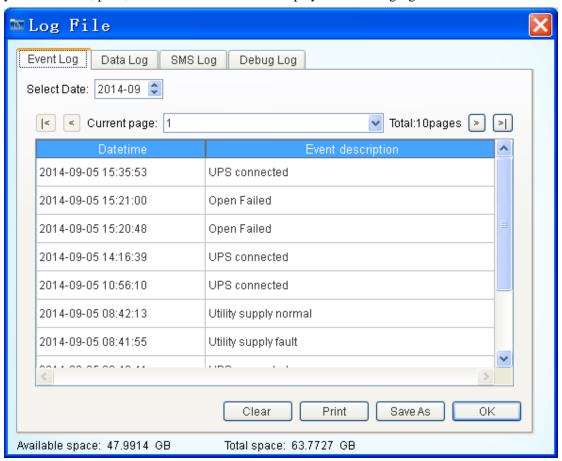


Add task Management window



3. "Log File" toolbar

Here store related event log, data log, SMS log, debug log four kinds of information. Here you can to save, print, clear record information. Display the following figure



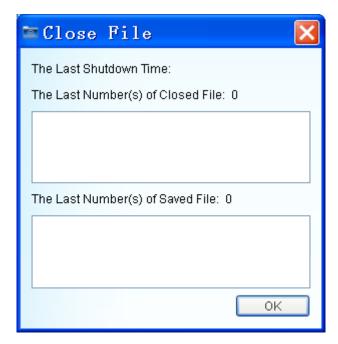
Note: Debug log this item does not generally used, here mainly used in the technical engineering staff view.

4. "Close File" toolbar

- (1) the last shutdown time
 - It display the last closing of system time
- (2) the last number of close file

 It display the system running applications when last shut down the operating system.
- (3) the last number of saved file

when closed system, software help save the file, save the file format is associated with specific system, usually can save office documents, TXT, file path set in the shutdown option set. Interface below.

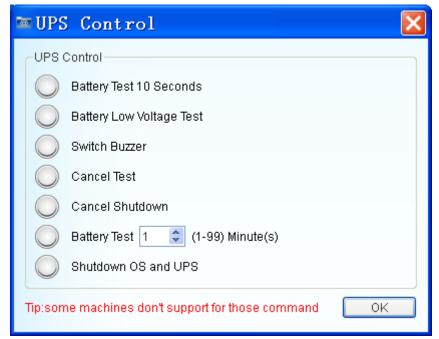


Note: the current closed application function is only suitable for some of the general application software system, such as Office, TXT, part of the application does not support the close function

5. "Control" toolbar

If you need real-time control of UPS, can according to options to control the UPS for the following

- (1) Battery Test 10 Seconds
- (2) Battery Low Voltage Test
- (3) Switch Buzzer
- (4) Cancel Shutdown
- (5) Battery Test
- (6) Shutdown OS and UPS



Note 1: the control command can be perform related to whether UPS response to this command

Note 2: Whether shut down the operating system is related to the Settings of the closed system is checked

6. "About "toolbar

Here you can quickly set up, view user manuals. Quickly setup may reference the interpretation of the third chapter.

