

# PowerManager II

## Uninterruptible Power Supply Software User's Manual

Support:

MS-Windows® 98

MS-Windows® Me

MS-Windows® NT

MS-Windows® 2000

MS-Windows® XP

MS-Windows® 2003

MS-Windows® Vista

SCO Unix

LINUX

FreeBSD

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## **TECHNICAL SUPPORT**

IpPowerSE network monitoring and control software is developed by Guangzhou RichComm System Technologies Co., Ltd. If you have any questions or suggestions on them, please contact us at any time.

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# Introduction

PowermanagerII is smart UPS monitoring and control software. It offers local monitoring and network agent monitoring functions through the COM port and USB port. PowermanagerII displays the real time status of the UPS (e.g. input & output voltage, frequency, load, temperature and battery capacity) in numeric and graphic forms, which can help the user monitor the quality of power supply. Simultaneously, the user can remotely monitor the UPS via a network and manage the power system more effectively. In AC failure or UPS battery low cases PowermanagerII will perform its monitoring functions automatically. In addition to auto saving files and performing safe system shutdown , PowermanagerII has some new ways to send warning messages by auto dialing a modem and by sending E-mail. Users can be sure not to lose any information due to power interruptions and can take appropriate actions at once. The system can record UPS performance history data for long term monitoring. In addition, PowermanagerII has a new Windows NT service function, which allows the monitoring program to be executed automatically and does not require a user to be logged in. PowermanagerII is available in many languages, you can select the one that is the most familiar for you to carry out the software configuration and operation. Today, with the widespread use of the internet, we have come to a time where information is critical. Both PCs and Servers are used to receive and send information round the clock, so automated power management equipment for the UPS has become a necessity PowermanagerII with its full range of functions will be the best partner for your smart UPS.

## **Packing including**

Powermanager II Installation CD 1pcs

DB9F/DB9M cable 1pcs

## **Powermanager II operation manual**

## **System requirements**

Powermanager II hardware and software requirements as follows:

Computer system RS232 communication port

Adopt real RS-232 communication intelligent

for

MS-Windows® 98

MS-Windows® Me

MS-Windows® NT

MS-Windows® 2000

MS-Windows® XP

MS-Windows® 2003

MS-Windows® Vista

SCO Unix

LINUX

FreeBSD

# PowerManager II for Windows

## Features

uIntuitionistic and clarity display pressure 、frequency、load 、batteries of UPS etc diversified parameter real time fettle communication as data and figure, help users know circs of currently electric power accommodate uSupporting Windows NT Service function.

uSupporting many kinds of languages.

uTransmitting the warning message by e-mail automatically.

uCalling the warning message automatically.

uMonitoring UPS remotely via TCPIP or Internet.

uDetecting the AC fail and the UPS battery low automatically.

uSetting the turning on/off time automatically.

uDisplaying the UPS status in drawing, such as the temperature, voltage, load, line frequency etc.

uBroadcasting the warning message.

uPop-up alarm message on the computer with Windows OS through Windows NT Messenger service.

uCan select save application files before shutdown system or let computer enter sleep mode directly (need the computer support this function)

uAuto send alarm message via GSM SMS.

uAuto send alarm message via BP-call.

uAuto send alarm voice to via telephone.

uSeamless connect to controlplane, realize nobody on duty.

uSetting the countdown time and the interval of each warning.

uSetting UPS diagnostic and self testing time.

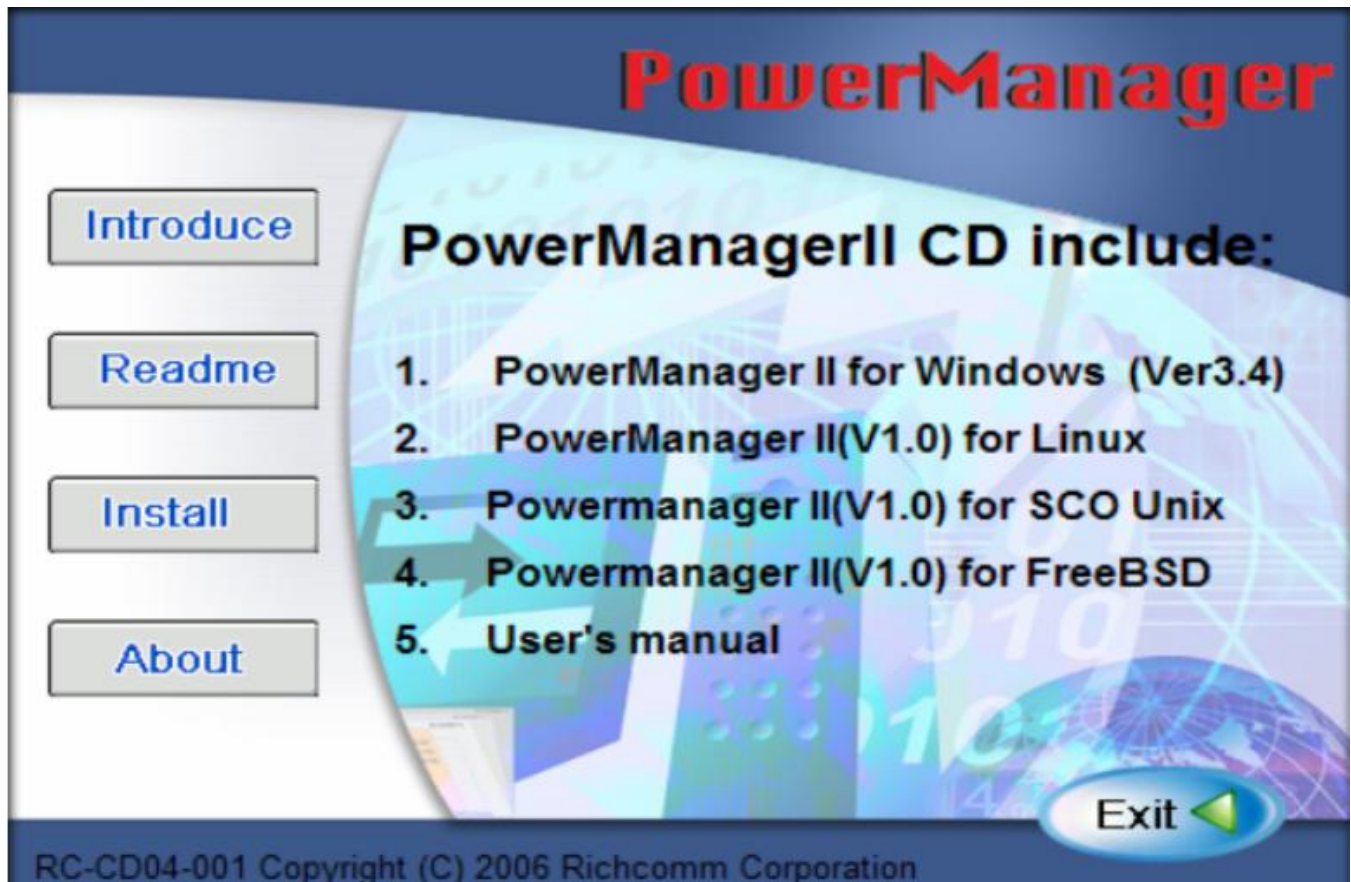
uBefore removing the system, automatically close and store the applicable programs.

uRecording and analyzing the UPS status

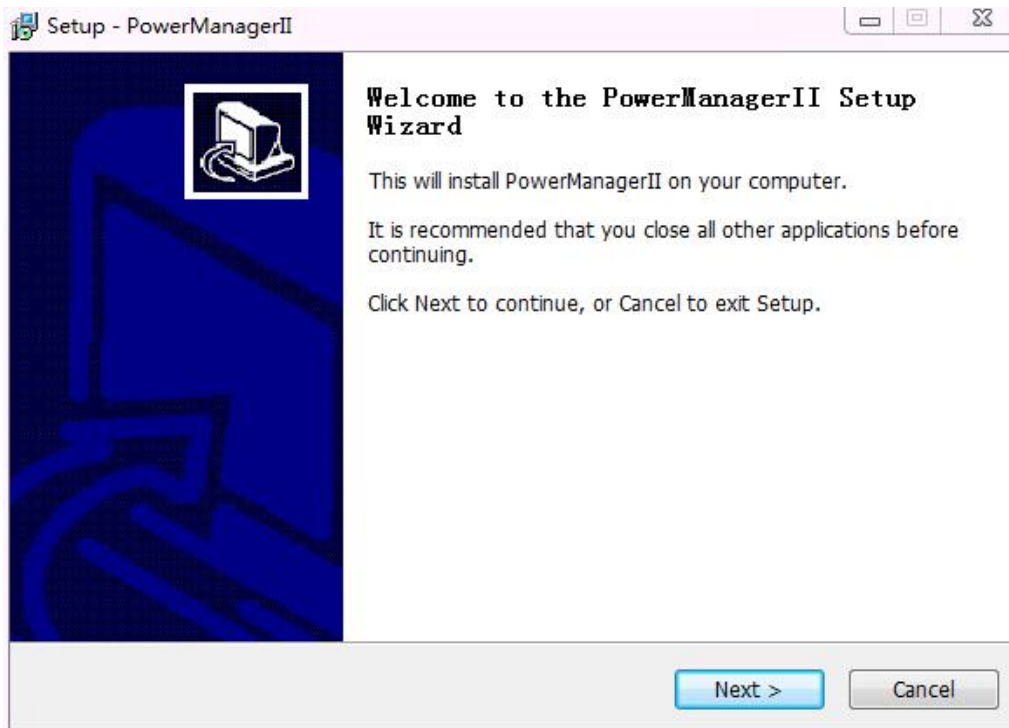
## Software Installation

Following the steps below:

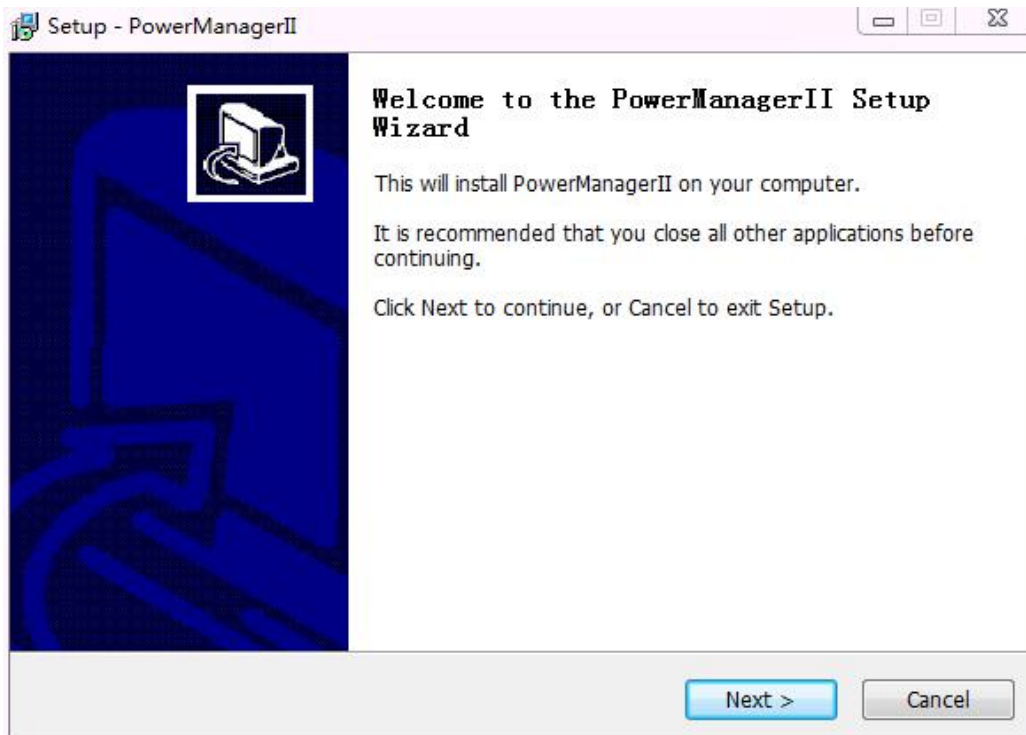
1. Turn on UPS and PC.
2. Place the Powermanager II CD to the CD ROM, will show the install interface:  
2.1>Button 'Introduce' is the default interface is introduce the CD include:



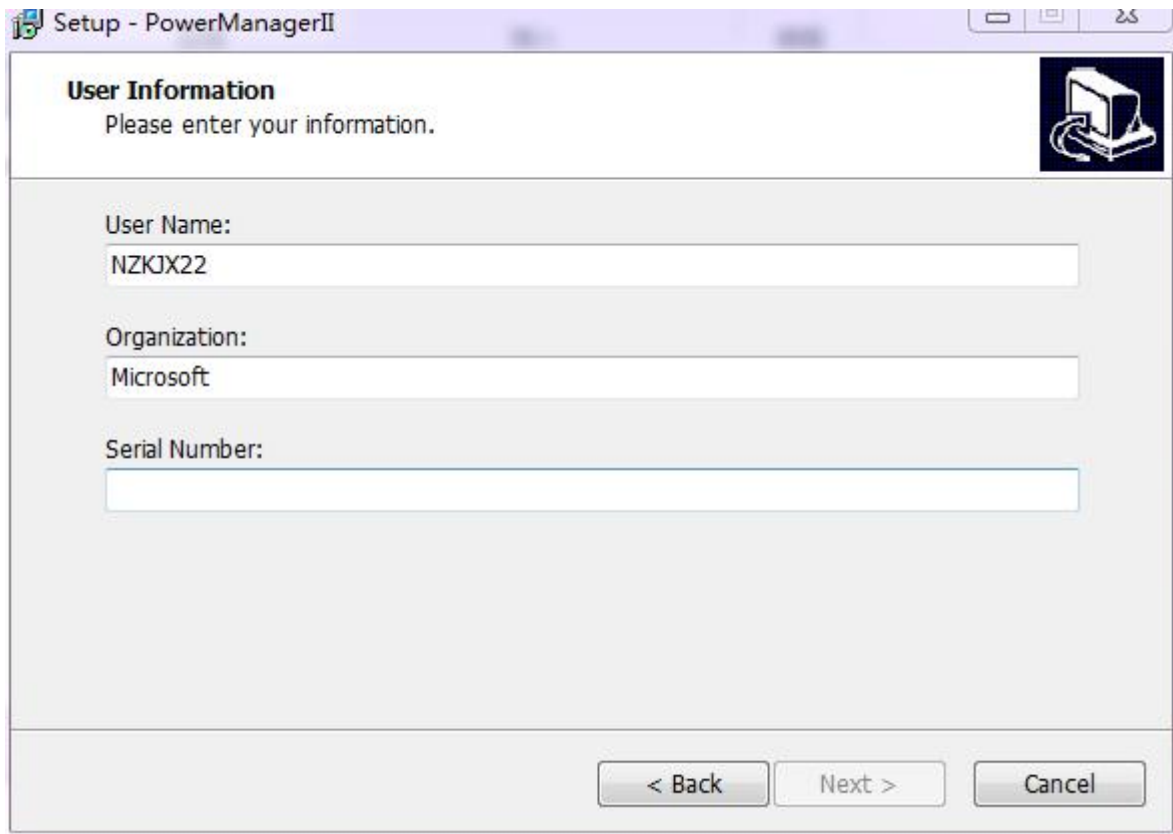
2.2>Button 'Readme' is the CD is support system and Language:



2.3>Button 'Install' is setup the PowerManagerII



following the install wizard



**Setup - PowerManagerII**

**User Information**  
Please enter your information.

User Name:  
NZKJX22

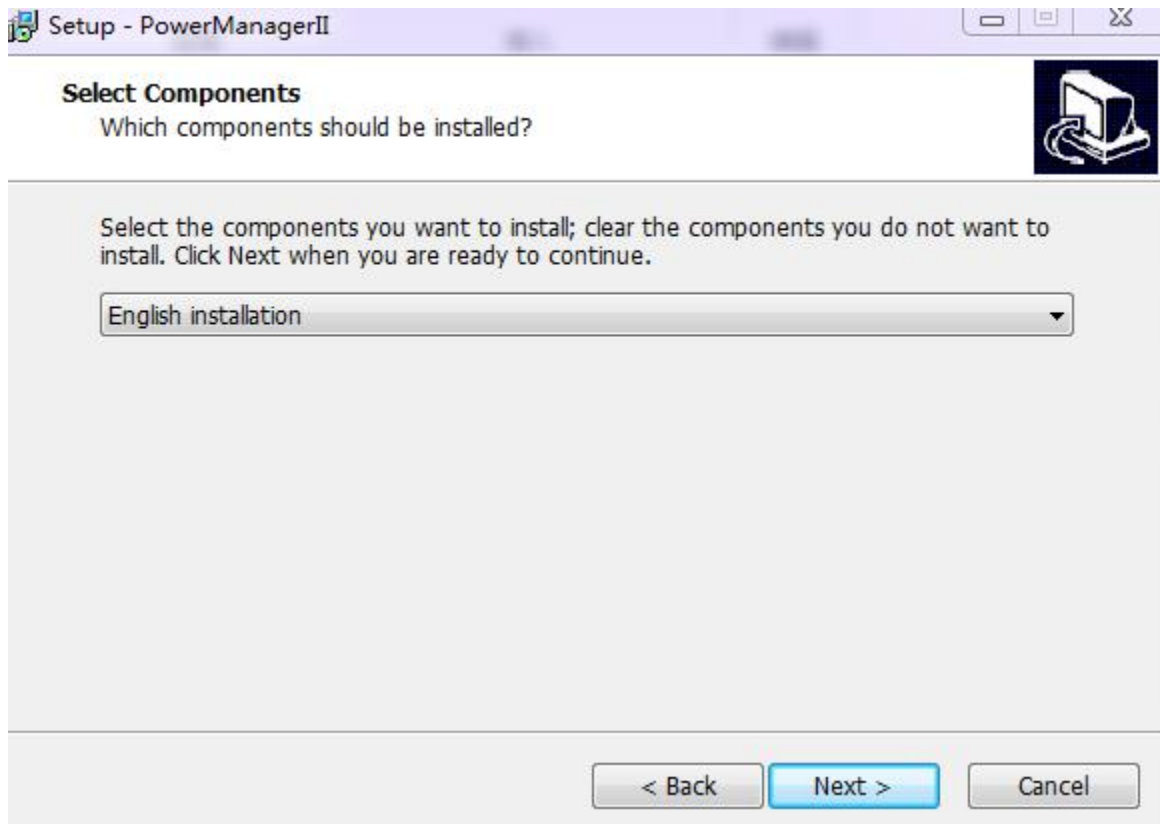
Organization:  
Microsoft

Serial Number:

< Back    Next >    Cancel



on the serial number input box please enter the serial number which is on the cd packet and following the install wizard continue to next, make sure the setup dir and continue to enter the language which you will to install, After installation, Powermanager II files will be copied into the directory you appointed.



## Start-up and Quit Powermanager II

Start-up Powermanager II

After installation, please restart the computer. For Windows98, check if there is a '**PowerManagerII**' icon in task bar.

For Windows NT, go to 'control panel->service' and check if 'PowerManagerII' service has started.

If you want to change the function configuration, please run the Powermanager II in the task bar directly or select "Powermanager II for Windows" from "

Powermanager II " in program group of start menu in Windows.



Powermanager II in gear



Powermanager II un-start up or not on line

Quit Powermanager II

After installation, there is 4 selection as below under" Powermanager II " in

Windows start menu. If you want to remove the Powermanager II from the system,

Start Monitor( <u>W</u> )..	Ctrl+W
Help( <u>H</u> )..	Ctrl+H
About( <u>A</u> )..	Ctrl+A
Quit( <u>Q</u> )..	Ctrl+Q

## The main interface window of PowerManager II



## System Settings

### A. Basic Setting

After clicking on system setting, enter the following interface :



**System Setting**

Base setting | Shutdown setting | Crisis process | History data s

☒ Local UPS    AUTO   

☐ Authorization: \*\*\*\*\*

Your UPS cannot be monitored remotely using a computer with serial port to connect. To do so, use the USB port instead.

☐ Remote UPS

IP Address: 172 . 16 . 0 . 130   

Authorization: richcomm

☐ Auto start PowerManager UI, when login system

This is to configure the mode of monitoring UPS

1: Default activate “Local UPS”, and can choose “AUTO”, “COM”, “USB”



**System Setting**

Base setting | Shutdown setting | Crisis process | History data s

☒ Local UPS    

AUTO  
 AUTO  
 USB  
 COM1

☐ Authorization: \*\*\*\*\*

Your UPS cannot be monitored remotely using a computer with serial port to connect. To do so, use the USB port instead.

☐ Remote UPS

IP Address: 172 . 16 . 0 . 130   

Authorization: richcomm

☐ Auto start PowerManager UI, when login system

a: Choose “AUTO”, it will automatically search for communication mode with UPS

b: Choose “USB”, it will only search for communication mode between USB and UPS

after choosing USB port, network monitor authorization can be activated

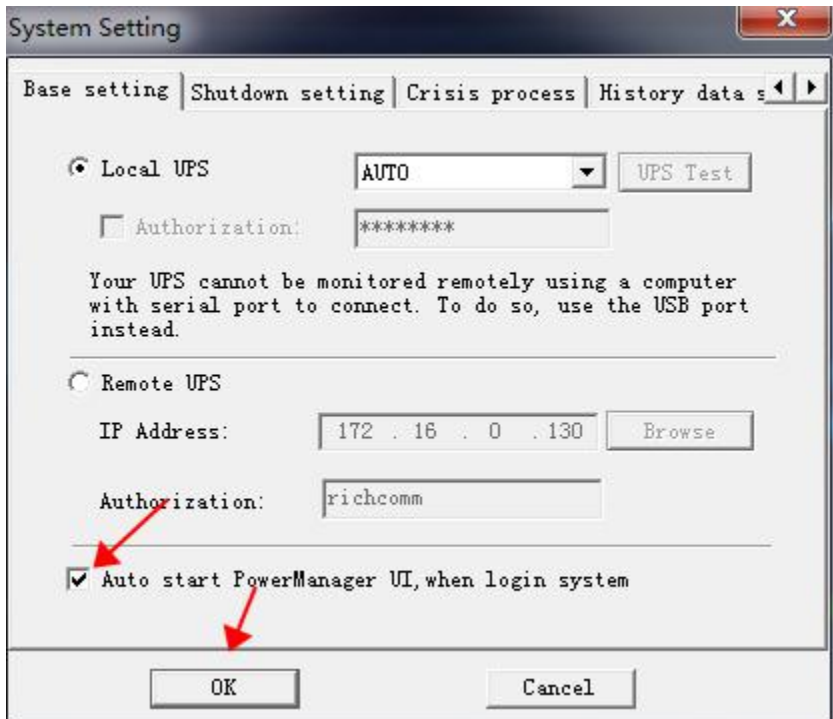
Network monitoring function: one UPS can be monitored by multi computer and protect multi computers against crisis

Network Monitoring condition: computers need monitoring must be installed by our software and choose

long-distance UPS in basic setting

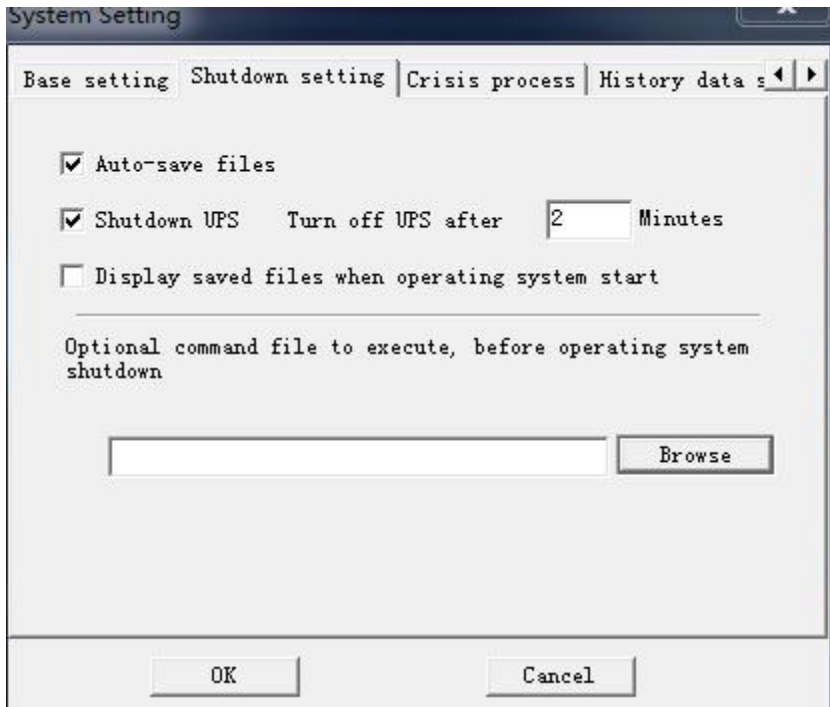
The PowerManager II under monitoring must be USB communicated

4: After “Start PowerManager II when log in WINDOWS” being activated, the monitoring interface can be automatically opened after computer started and remind you to start this software’s services at the same time;



## B.Shutdown settings

Choose shutdown setting and enter interface as below:



1, self-saving function ( activate it as advice)

1) when set this function valid, software will save some files under operating when system is shut down

2) when set this function invalid, software will not save files under operating when system is shut down

### 2 shut down UPS at the same time and shut down UPS in X minutes

( please set shutdown time according to UPS's power supply time and computer shutdown time)

1) when set it valid, UPS will shut down in X minutes when system is closed

2) when set it invalid, UPS will not shut down when system is closed

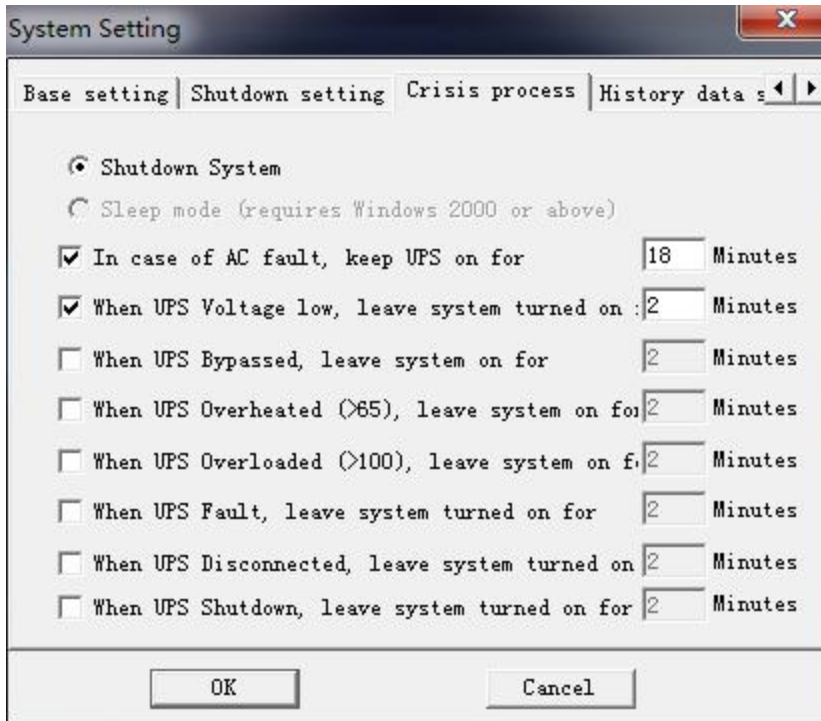
3 showing file-saving when starting

1) when set it valid, there will be a window popped up and tell where the saved files are and the last program closed upon starting the software

2) When set it invalid, there will not be a window popped up telling where the saved files are upon starting the software.

4 External program execution before shut down: after choosing, software will carry out program set by user before the system is shut down

## C.Crisis process

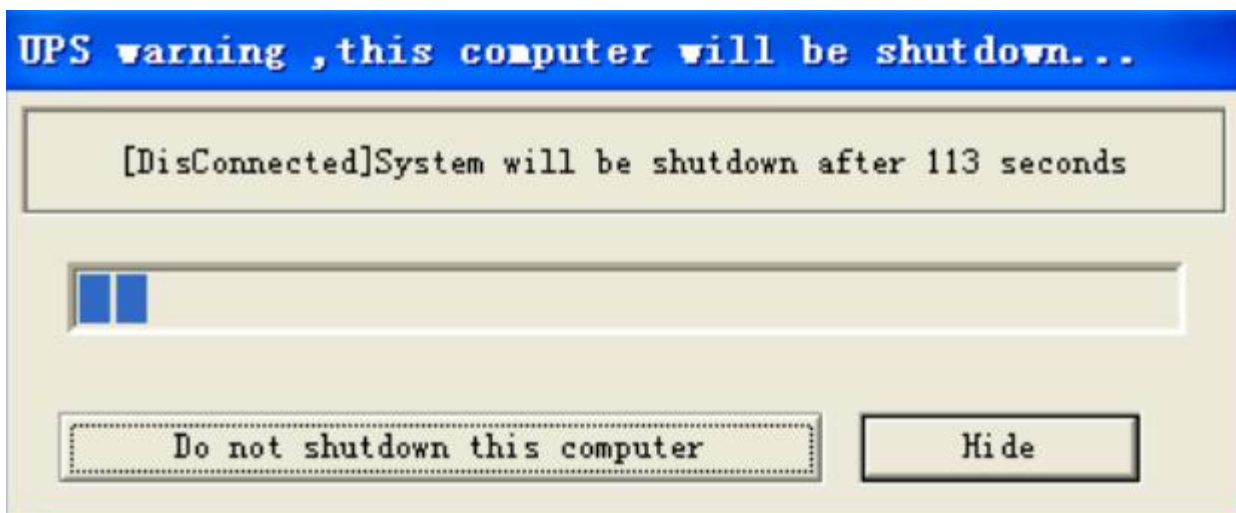


Please activate the parameters if need to close and protect computer when alarming; if not, please don't activate;

When city power is cut, battery voltage is low, UPS bypass, UPS is overheated, UPS is overloaded,

UPS is malfunctioned, UPS is disconnected, UPS is turned off etc, this software will count down before turned off.

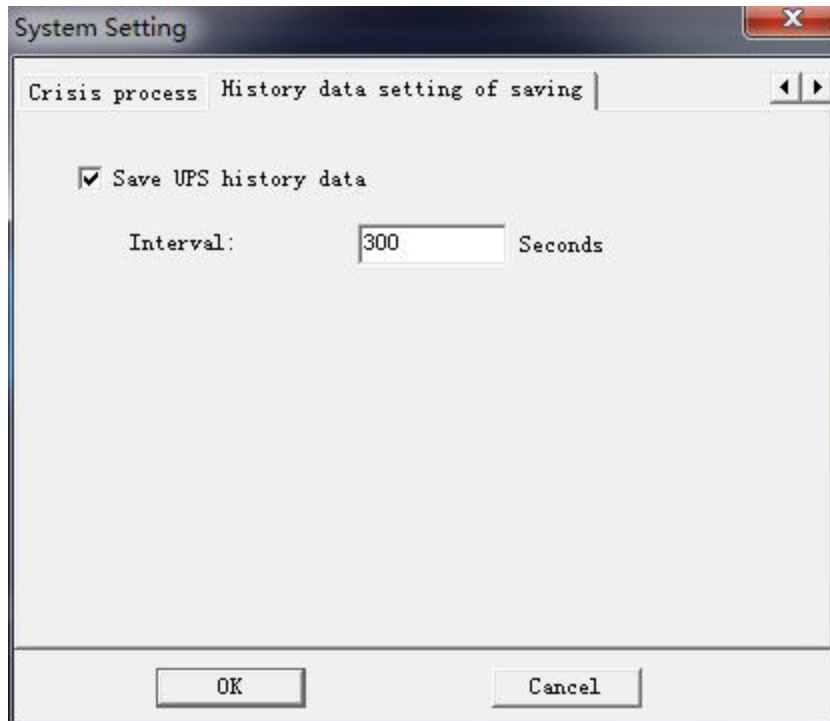
Now we take UPS was disconnected and execute in 2 minutes as example, i.e. the countdown frame will appear when UPS is disconnected



After 2 minutes countdown, will close all ongoing programs and computer  
If click “refrain from turning off the PC automatically”, it will not protect  
the computer

If click “hide”, the countdown frame will not appear and computer will turn  
off automatically in 2 minutes

#### D、History data saving setting



When set “whether save history data” as valid, software will save UPS history  
data at user’s predefined interval (can set the interval as one hour or longer if  
no special need)

When set “whether save history data” as invalid, software will not save UPS  
history data

## BP Alarm

Please start BP alarm function before use BP alarm

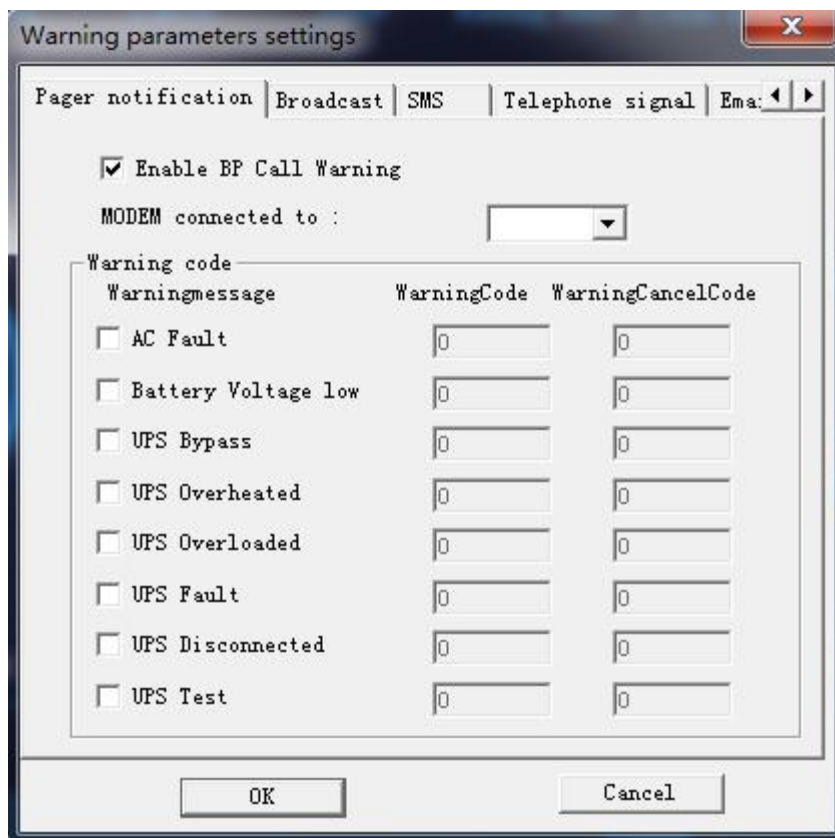
According to factual conditions, choose serial port in drop menu.

( this serial port should not conflict with UPS)

Alarm message, users themselves define the alarm code and alarm cancellation code For example: set “city power cut” by “123”and “alarm cancellation code” “456”,BP machine will receive “123” message when city power is cut and will receive “456”when cancel alarm for city power cuthow to send alarm message, alarm code and alarm cancellation code to target?

Please refer to illustration as below

( please activate alarm function and set alarm code and alarm cancellation code before use BP alarm function)



The dialog box titled "Warning parameters settings" has a tabbed interface with "Pager notification", "Broadcast", "SMS", "Telephone signal", and "Email". The "SMS" tab is selected. Inside the dialog, there is a checkbox for "Enable BP Call Warning" which is checked. Below it is a label "MODEM connected to :" followed by a dropdown menu. A section titled "Warning code" contains a table with three columns: "Warningmessage", "WarningCode", and "WarningCancelCode". The table lists eight warning messages, each with a checkbox and corresponding input fields for codes. At the bottom are "OK" and "Cancel" buttons.

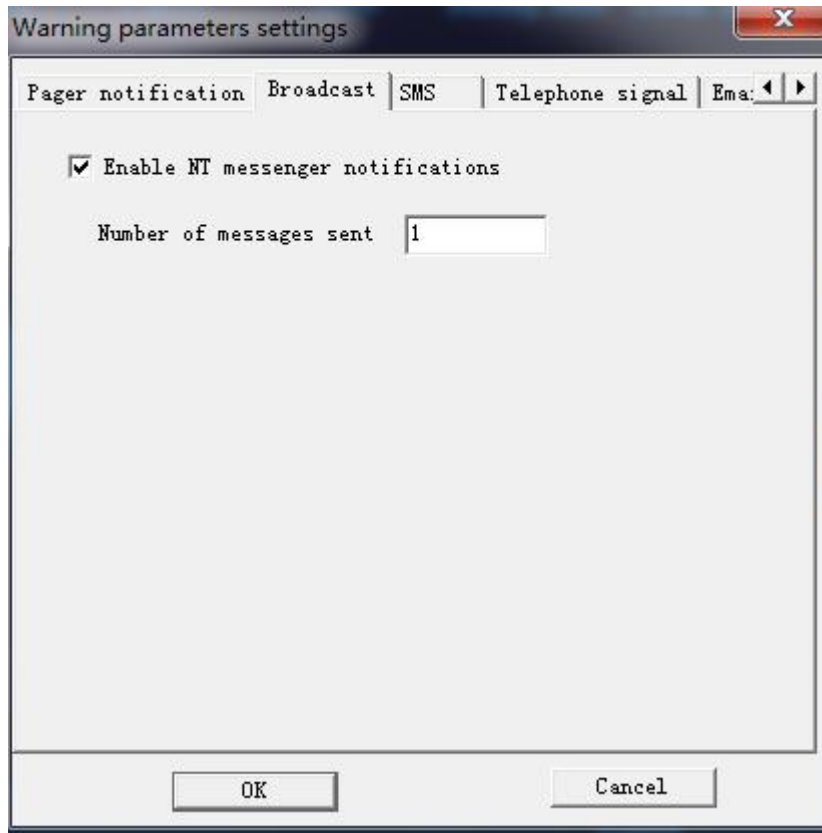
Warningmessage	WarningCode	WarningCancelCode
<input type="checkbox"/> AC Fault	0	0
<input type="checkbox"/> Battery Voltage low	0	0
<input type="checkbox"/> UPS Bypass	0	0
<input type="checkbox"/> UPS Overheated	0	0
<input type="checkbox"/> UPS Overloaded	0	0
<input type="checkbox"/> UPS Fault	0	0
<input type="checkbox"/> UPS Disconnected	0	0
<input type="checkbox"/> UPS Test	0	0

Choose alarm receiver, please enter the interface as below

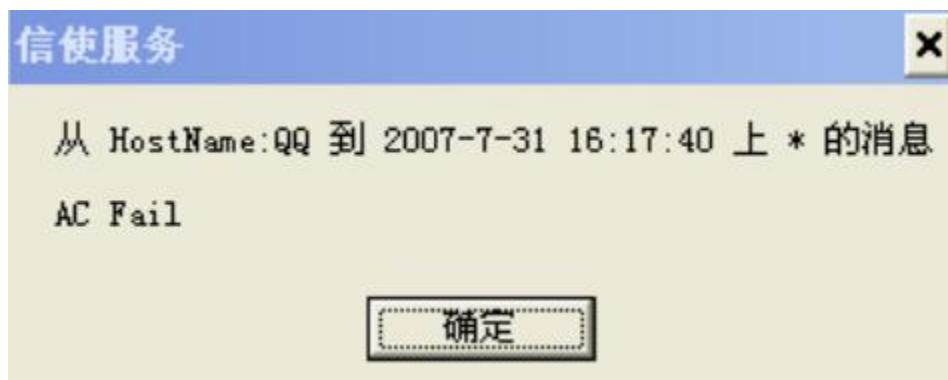


## Broadcast alarm

Please start network message alarming as below before using network broadcast alarming

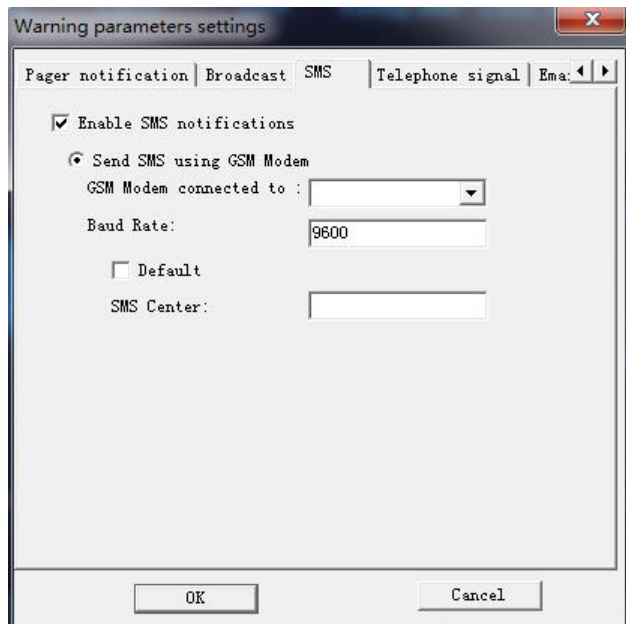


Click "confirm" and when UPS status is changed software will send network message alarming according to the broadcast frequency set by user. When alarm is occurred, all computers in LAN and turned on messaging service will receive alarm as below (If broadcast frequency is set by N, will receive N windows like below when alarming)



## SMS

Please start SMS alarming function before using

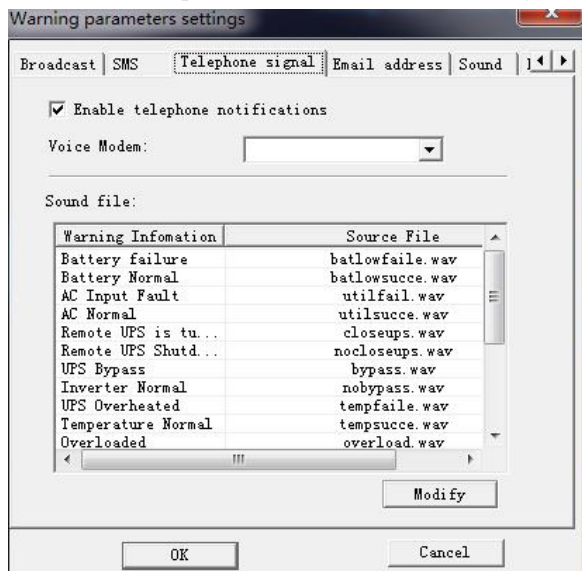


Set GSM Modem serial port and set baud rate according to Modem parameters and set correct message center.

For example: the message center is +8613800200500

## Telephone Voice

Please start telephone voice alarm before using



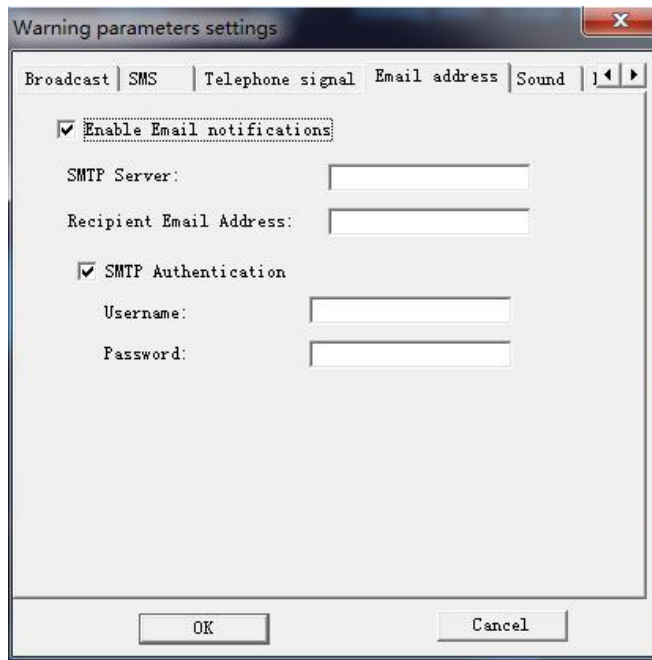
If there is voice Modem installed in system, please choose exact model in voice Modem; if no, please there is no exact model available in voice Modem

## Email

Please start Email alarm function before using Email alarming

Please set correct SMTP address, Email address, users and password etc. How to send alarming message by Email to target?

Refer to map as below:



Warning parameters settings

Broadcast | SMS | Telephone signal | **Email address** | Sound

☒ Enable Email notifications

SMTP Server:

Recipient Email Address:

☒ SMTP Authentication

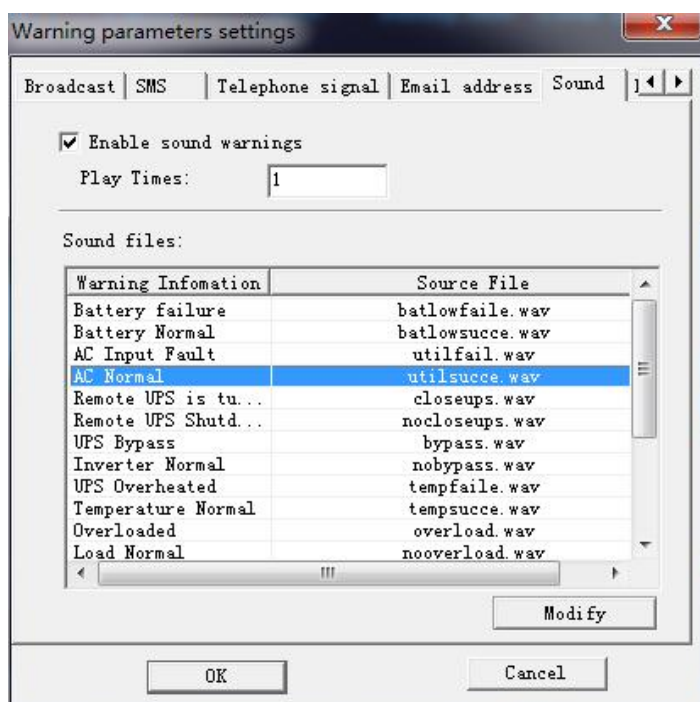
Username:

Password:

OK Cancel

## Sound

Please start sound alarm before using



Warning parameters settings

Broadcast | SMS | Telephone signal | Email address | **Sound**

☒ Enable sound warnings

Play Times:

Sound files:

Warning Information	Source File
Battery failure	batlowfaile.wav
Battery Normal	batlowsucce.wav
AC Input Fault	utilfail.wav
AC Normal	utilsucce.wav
Remote UPS is tu...	closeups.wav
Remote UPS Shutd...	nocloseups.wav
UPS Bypass	bypass.wav
Inverter Normal	nobypass.wav
UPS Overheated	tempfaile.wav
Temperature Normal	tempsucce.wav
Overloaded	overload.wav
Load Normal	nooverload.wav

Modify

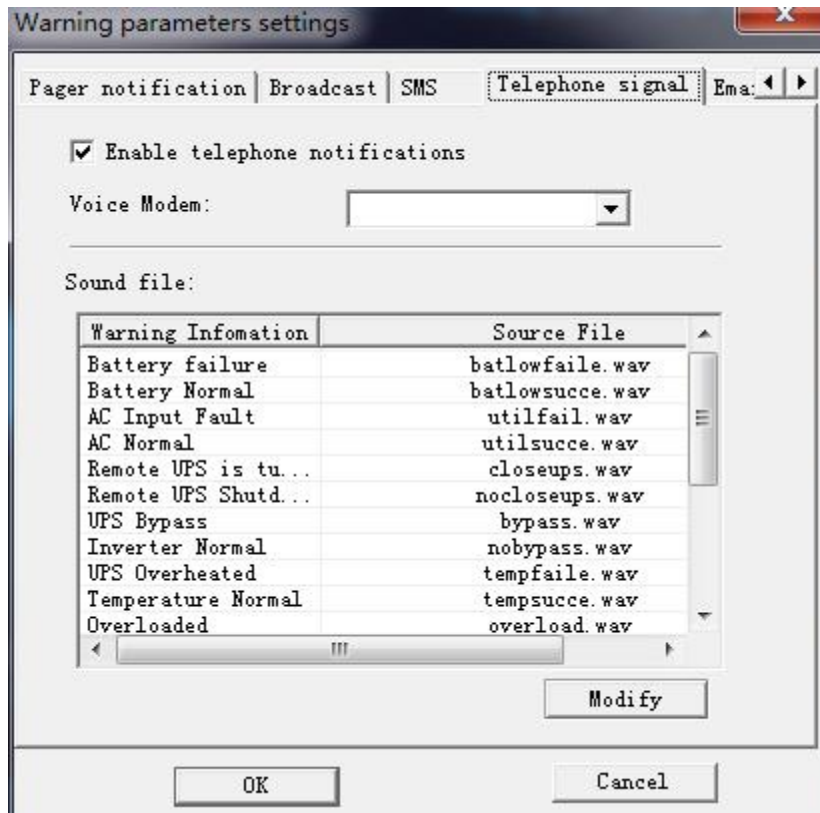
OK Cancel

According to sound frequency set by user, software will send corresponding alarm frequency when UPS status changed.

For example: when battery voltage is low, software will tell by speaker or other acoustics equipments connected with computer that “ please note, UPS battery voltage is low now”

## Telephone Voice

Please start telephone voice alarm before using



If there is voice Modem installed in system, please choose exact model in voice Modem; if no, please there is no exact model available in voice Modem

## Window

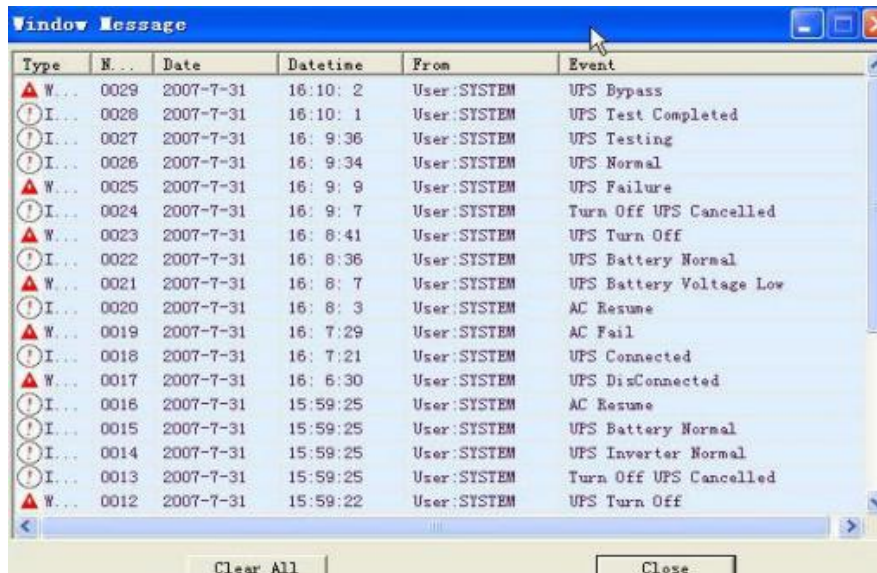
Please start window alarm pop-up before using



When alarming, there will be dialogue box popped up as below

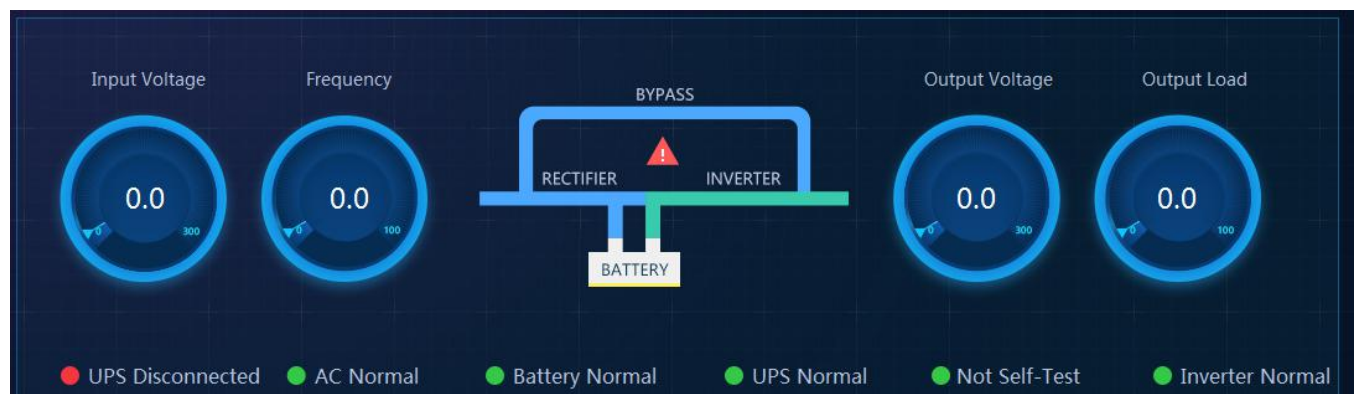
Closing this dialogue box, it will appears again when next alarm; minimizing it, it will not pop up when next alarm and you need to maximize it before reading it

Need to delete alarm message, please click "clear" and all alarm messages will be cleared up



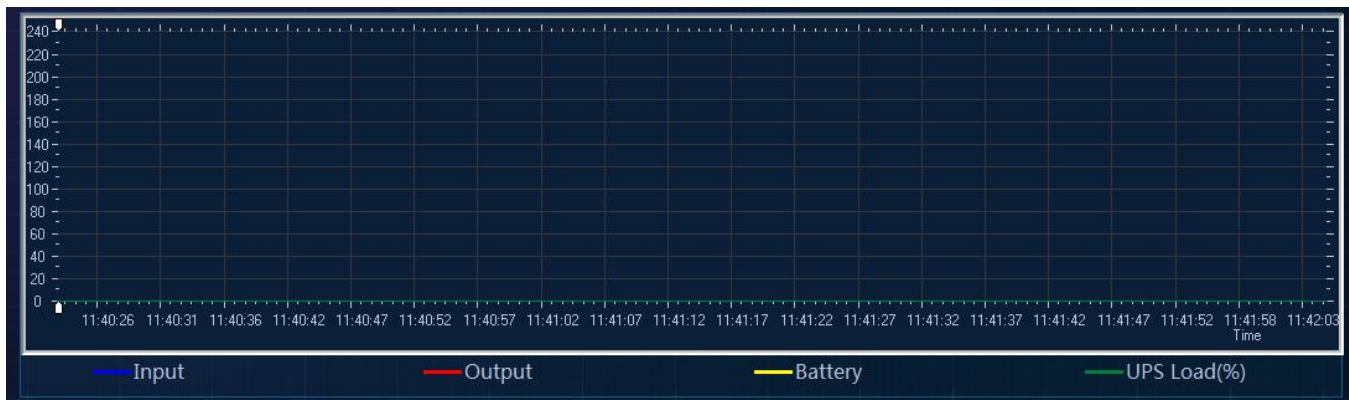


Click “history data record” and enter:

UPS status



## UPS curve



## UPS date

Input Voltage	0	V	Output Voltage	0.00	V
Battery Capacity	0	%	Frequency	0.00	Hz
Output Load	0	%	Temperature	0.00	Celsius
AC indicator	0		Battery Voltage	Battery Normal	
Bypass indicator	0		UPS Failure	UPS Normal	
UPS Type	0		Test Status	Not Self-Test	
UPS Shutdown	ShutDown Normal		Pager Status	Beeper Off	
UPS Connection	UPS Disconnected				

## UPS Rating Information

UPS Rated Parameters Information

Rated Voltage:

N/A

V

Rated Current:

N/A

A

Battery Rated Voltage:

N/A

V

Rated frequency:

N/A

HZ

Quit



Clear information



## UPS Planning Work

Scheme Task

UPS tasks Schedule:

Task name	Execute ...	Run time	Start time

Task

☒ UPS Self-Test for 10 secon  
☐ UPS Self-Test Until Battery Low  
☐ UPS Self-Test :  Minutes

☐ Turn off UPS, in  Minutes  
☐ Turn off UPS, in  Minutes  
 and reboot UPS, in

☒ Shunt Down Computer, Now?

Time of Task to Execute

Execute Cycle :  Start Time:   
 Date:

# PowerManager II for LINUX

## 1. Software installation and operation

### i) soft installation

copy the package ups\_manager to you favorite directory , example ./root/tmp

Use the tar command to extract files from the diskette or software package:

```
tar -xvzf ups_manager.tar.gz
```

Change the working directory to /tmp.

```
cd /root/tmp
```

Execute the installation program:

```
./install.linux.sh
```

The installation program will not execute in some shell scripts. If this happens, change to another shell script and try again. the installation program will automatically copy files to the default location

"/etc/RichComm/ups\_manager/" and modify the system startup file to contain

the ups\_manager for UNIX daemon process.

### ii) start program

The installation program will automatically start the main program .

you can start it use following command:

```
./ups_manager start
```

### iii) stop program

you can start it use following command:

```
./ups_manager stop
```

### iv) config program

you can start it use following command:

```
./ups_manager config
```

## **2.software package**

```
./ups_monitor  
./ups_status  
./ups_config  
./shutdown.sh  
./ups_manager  
./ups_manager start  
./ups_manager stop  
./ups_manager config  
./ups_manager status  
./ups_manager restart  
./TimeCfg.conf  
./install.linux.sh  
./Readme  
./SendMSG.sh  
./startup.add
```

# **PowerManager II for SCO UNIX**

## **1.Software installation and operation**

i) soft installation

copy the package ups\_manager to you favorite directory , example :/root/tmp

Use the tar command to extract files from the diskette or software package:

```
tar -xvf ups_manager.tar
```

Change the working directory to /tmp.

```
cd /root/tmp
```

Execute the installation program:

```
./install.sco.sh
```

The installation program will not execute in some shell scripts. If this happens, change to another shell script and try again.

the installation program will automatically copy files to the default location

"/etc/RichComm/ups\_manager/" and modify the system startup file to contain the ups\_manager for UNIX daemon process.

ii) start program

The installation program will automatically start the main program .

you can start it use following command:

```
./ups_manager start
```

iii) stop program

you can start it use following command:

```
./ups_manager stop
```

iv) config program

you can start it use following command:

```
./ups_manager config
```

## **2.software package**

.

```
/ups_monitor
```

```
./ups_status
```

```
./ups_config
```

```
./shutdown.sh
```

```
./ups_manager
```

```
./ups_manager start
```

```
./ups_manager stop
```

```
./ups_manager config
```

```
./ups_manager status
```

```
./ups_manager restart
```

```
./TimeCfg.conf
```

```
./install.sco.sh
```

```
./Readme
```

```
./SendMSG.sh
```

# PowerManager II for FreeBSD

## 1. Software installation and operation

### i) soft installation

copy the package ups\_manager to you favorite directory ,  
example :/root/tmp Use the tar command to extract files from the  
diskette or software package:

```
tar -xzvf upsmanager1.0v.bsd.tar
```

This demand will create a directory: upsmanagerinstall. Enter  
this directory, execute file: ./install.freebsd.sh . Converse the file  
installation. the installation program will automatically copy files to the  
default location "/etc/ups\_manager/" and modify the system startup  
file to contain the ups\_manager for freebsd daemon process.

### ii) start program

The installation program will automatically start the  
main program .

you can start it use following command:

```
./ups_manager start
```

### iii) stop program

you can start it use following command:

```
./ups_manager stop
```

### iv) config program

you can start it use following command:

```
./ups_manager config
```

## 2. software package

```
./ups_monitor
```

```
./ups_status
```

```
./ups_config
```

```
./shutdown.sh
```

```
./ups_manager
```

```
./ups_manager start
```

```
./ups_manager stop
```

```
./ups_manager status
```

```
./ups_manager config
```

```
./ups_manager restart
```

```
./TimeCfg.conf
```

./install.freebsd.sh

./Readme

./SendMSG.sh

./startup.add

### **3.contact us and technical support**

TEL: (86)20-82329896 (86)20-82329869

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WebSite: <http://www.richcomm.com>