Ablerex

Experts in Power Conversion

UPS Monitoring Software
EMILY2

USER MANUAL

Emily2 for Microsoft Windows 2000, Microsoft Windows XP,
Microsoft Windows Server 2003, Microsoft Windows VISTA,
Microsoft Windows 7, Microsoft Windows 8,
Microsoft Windows Server 2008 R2, Microsoft Windows Server 2012,
Microsoft Windows 10, Microsoft Windows Server 2016

TABLE OF CONTENTS

1. Installation & Settings **2**

1.1 Note **2**

1.2 Installation Instructions **2**

1.3 Instructions on Removing ECUS Program **5**

2. Function Descriptions **6**

2.1 Real-Time Information Monitoring Display **6**

2.1 Control **11**

2.3 Import/Export Setting **11**

2.4 General Setting **12**

2.5 SMS **18**

2.6 E-Mail Settings **20**

2.7 Data Log **21**

2.8 Event log **23**

2.9 Schedule **25**

2.10 Oscillograph **29**

2.11 Power Abnormal Alarm **30**

2.12 About **30**

1. INSTALLATION & SETTINGS

1.1 NOTE

- **Operating OS:** Windows 2000 / XP / Server 2003 / Vista / 7 / 8 / Server 2008 R2 / Server 2012 / 10 / Server 2016

- **Other Software Conditions:**

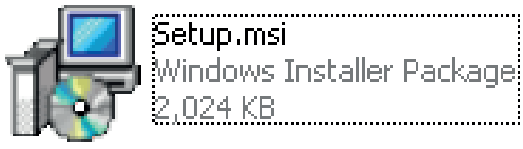
1. MDAC 2.8. (windows 2000 Only)
www.microsoft.com/downloads/details.aspx?familyid=6C050FE3-C79 5-4B7D-B037-185D0506396C&displaylang=en
2. For Windows Installer 3.0 and above.
3. For Framework 2.0 and above.

- **Peripherals:** Use either a serial port or USB.

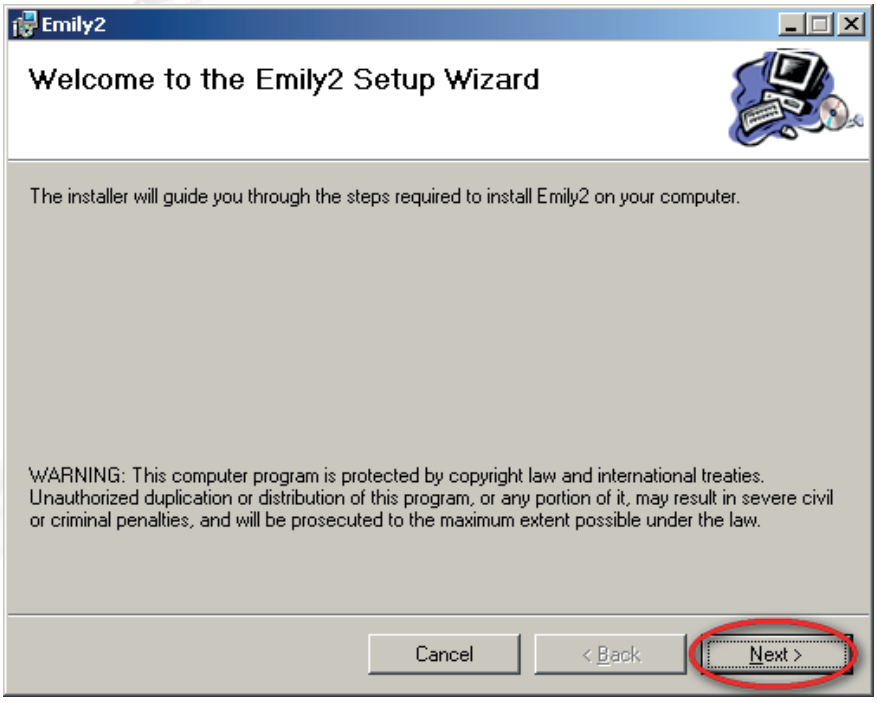
1.2 INSTALLATION INSTRUCTIONS

1.2.1 Please login as an Administrator

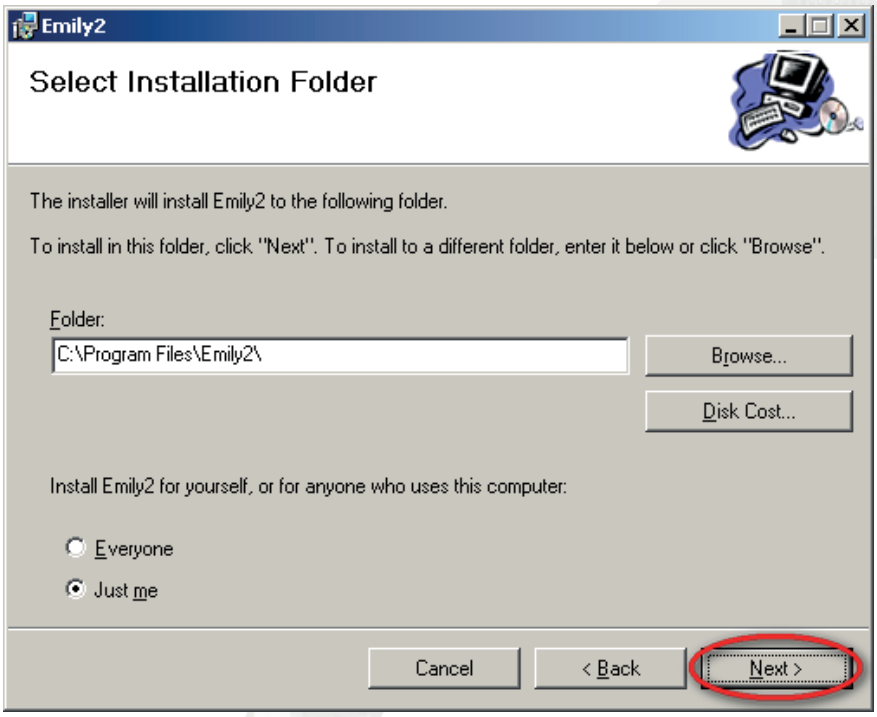
1.2.2 Double click to execute "Setup"



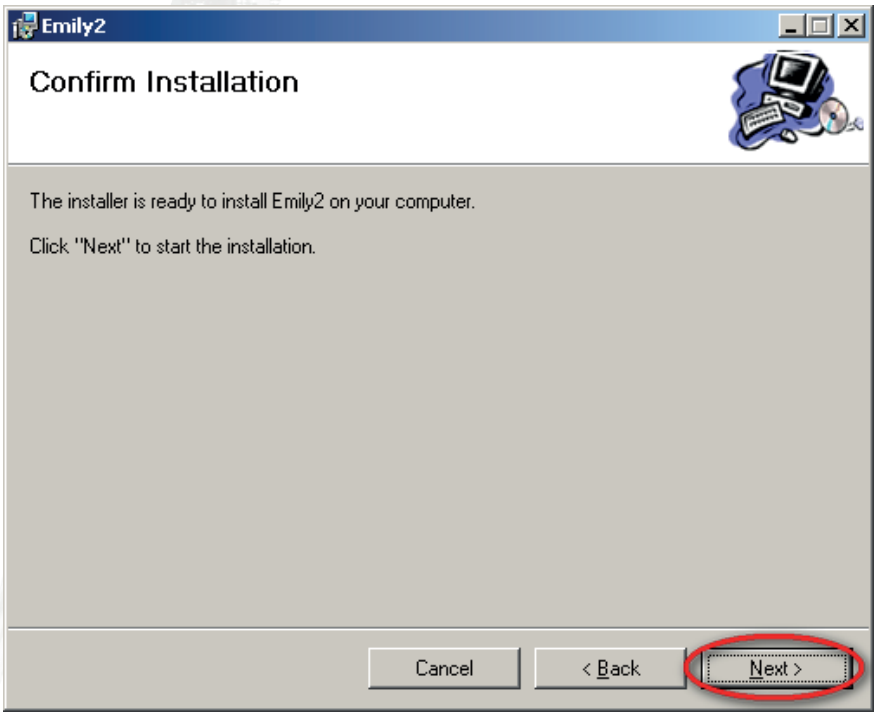
1.2.3 Click "Next" to next step



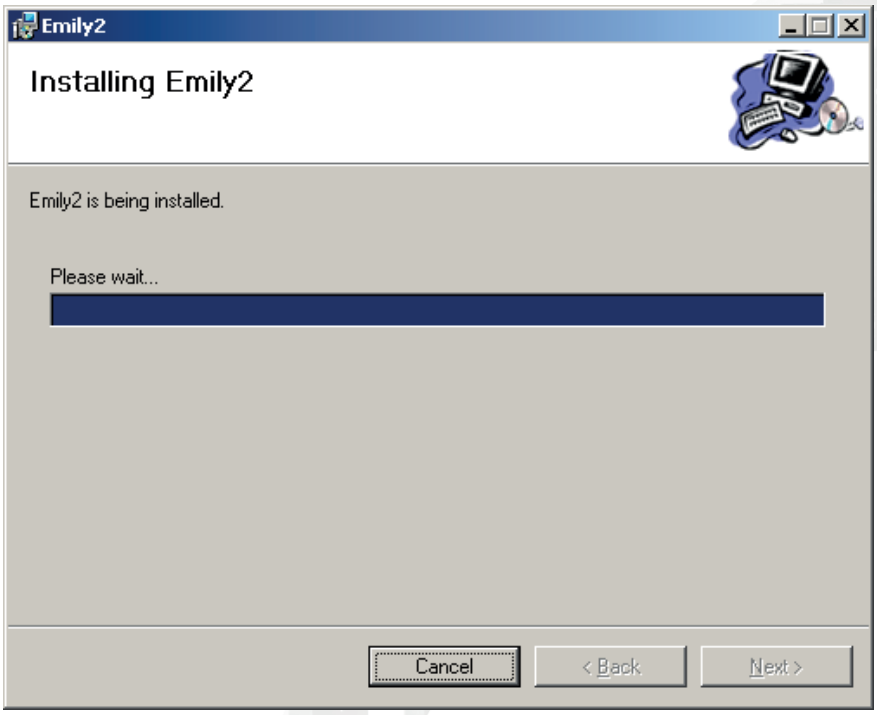
1.2.4 Enter “Select Installation Folder” to select the desire location for Emily program. (Default: C:\Program Files\Emily2.) Choose the user (yourself or anyone) who uses this software. Click “Next” to next step.



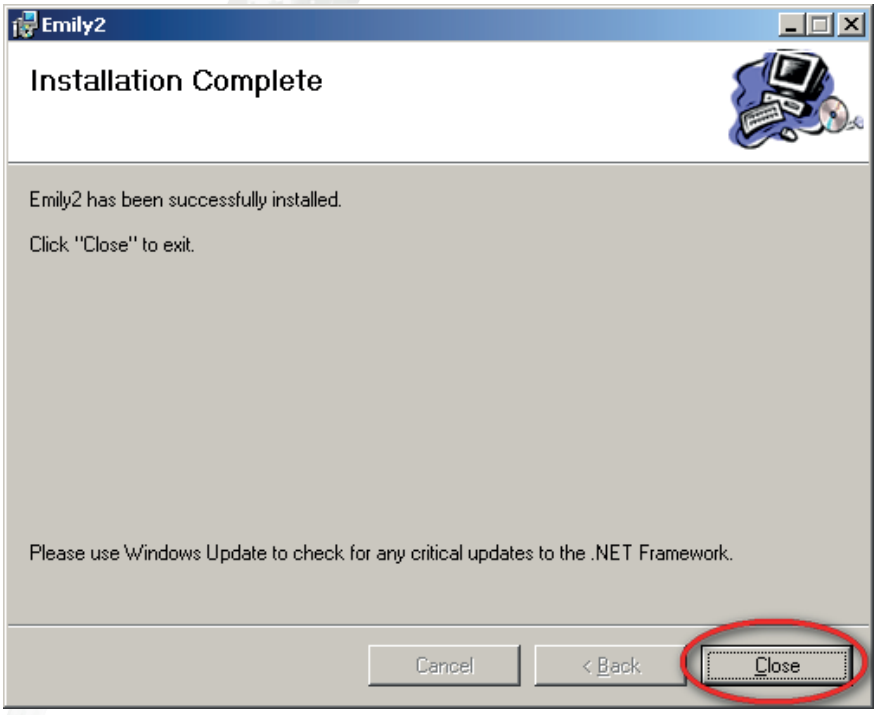
1.2.5 Enter “Confirm Installation” to ensure the completed installation of Emily2. Click “Next” to next step.



1.2.6 Installing Emily2 program.

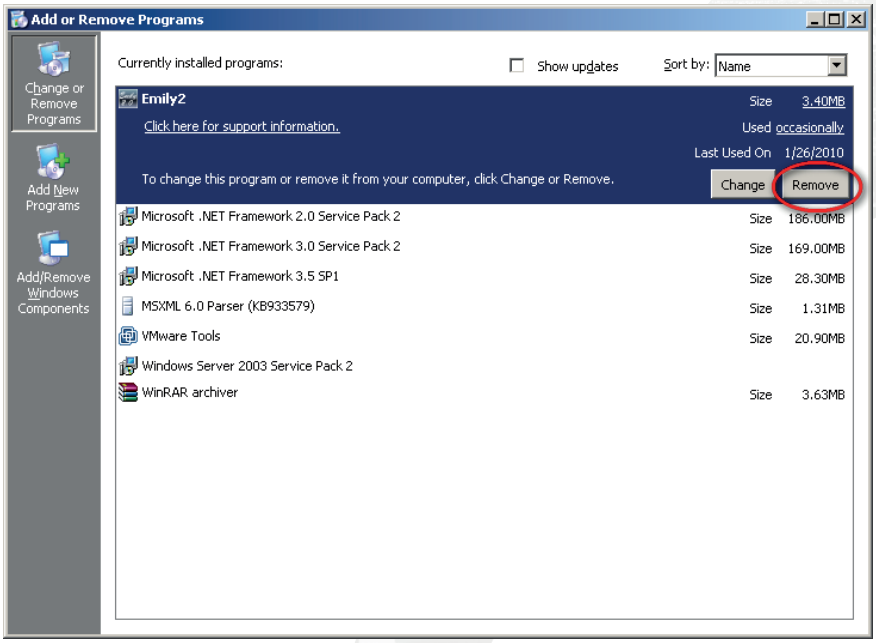


1.2.7 Click "Close" to end the installation.

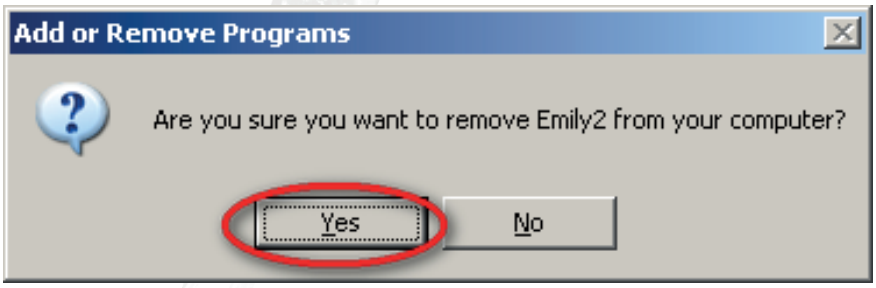


1.3 Instructions on Removing Emily2 Program

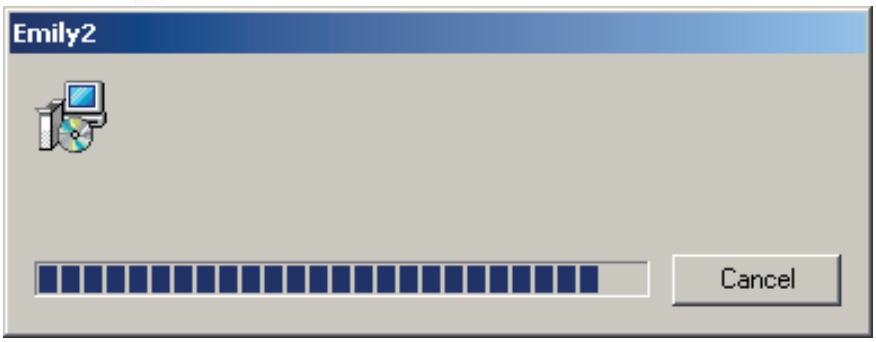
Step1. Go to Windows Control Panel and select "Add or Remove Programs"
Step2. Select "Emily2" and click "Remove"



Step3. In the page shown below, click "Yes" to confirm removal of the Emily2 or click "No" to cancel the removal



Step4. When the progress bar run to finish, It's complete the removal. Emily2 Icon will disappear in the "Add or Remove Programs" page

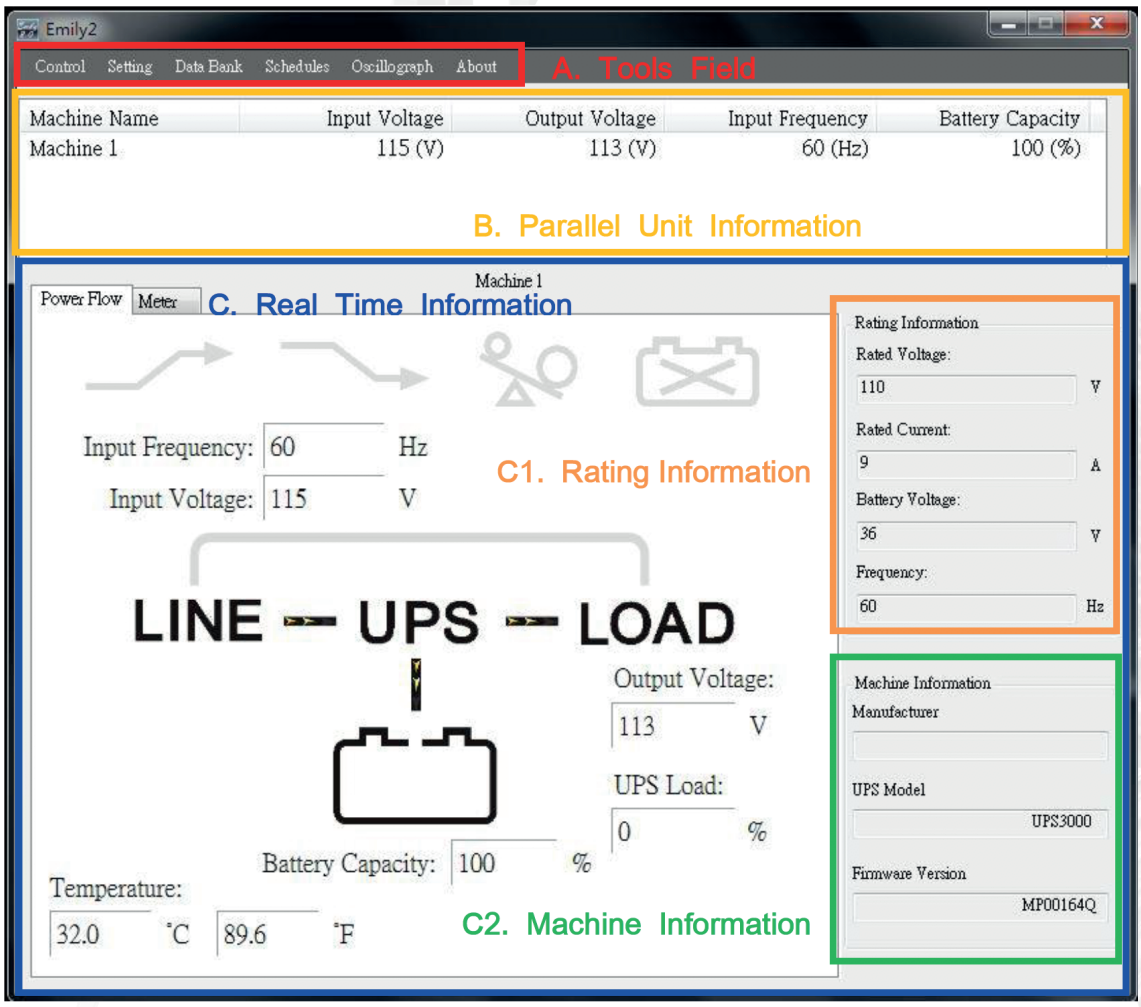


2. FUNCTION DESCRIPTIONS

Emily2 program is user-friendly UPS monitoring software which reveals the status of the UPS via USB or RS232 for up to 4 parallel units. It provides easy to read real time metering of important UPS parameters such as input/output voltage, frequency, UPS temperature, loads & battery capacity. These UPS parameters & status information are recorded and presented in both graphically and numerically.

The "Schedule" function of Emily2 allows user to preset various UPS commands to perform repetition of tasks automatically. In event of Power outage or abnormality, Emily program is capable of automatically informing user via SMS & email instantly and closes application software. The following chapters will provides detailed descriptions of these superior features of Emily2 program.

2.1 Real-Time Information Monitoring Display



A. Tools Field

FUNCTION	DESCRIPTIONS	REMARKS
Control	This function include: Self Test, UPS Shutdown. In this function, you can send command to unit in this time.	
Setting	There are 3 parts in this item: "General Setting", "SMS Setting", And "Email Setting". 1. "General Setting": setting of Communications, Multi language, Setting of Shutdown. 2. "SMS Setting": SMS alert function set up. 3. "E-mail Setting": E-mail alert function set up.	
Data Base	There are 2 parts in this item: "Event Log" And "Data Log". 1. "Event Log": Provides a list of records of events, command entries, alarms, etc. 2. "Data Log": Stores the UPS operating parameters monitored & recorded by the Emily2.	
Schedules	Provides scheduling of to-do events and commands.	
Oscillograph	Graphical overall of the recorded UPS parameters data.	
About	Record the version number and proprietor name of the Emily2.	

B. Parallel Unit Information

Provides input/output voltage, frequency, loads of UPS parameters for up to 4 parallel units at the same time

C. Real Time Information

When you select unit in Parallel Unit Information zone, the details of UPS parameters will show on this zone. This zone includes: "Icon page", "Value page", "Rating Information", and "Machine Information"

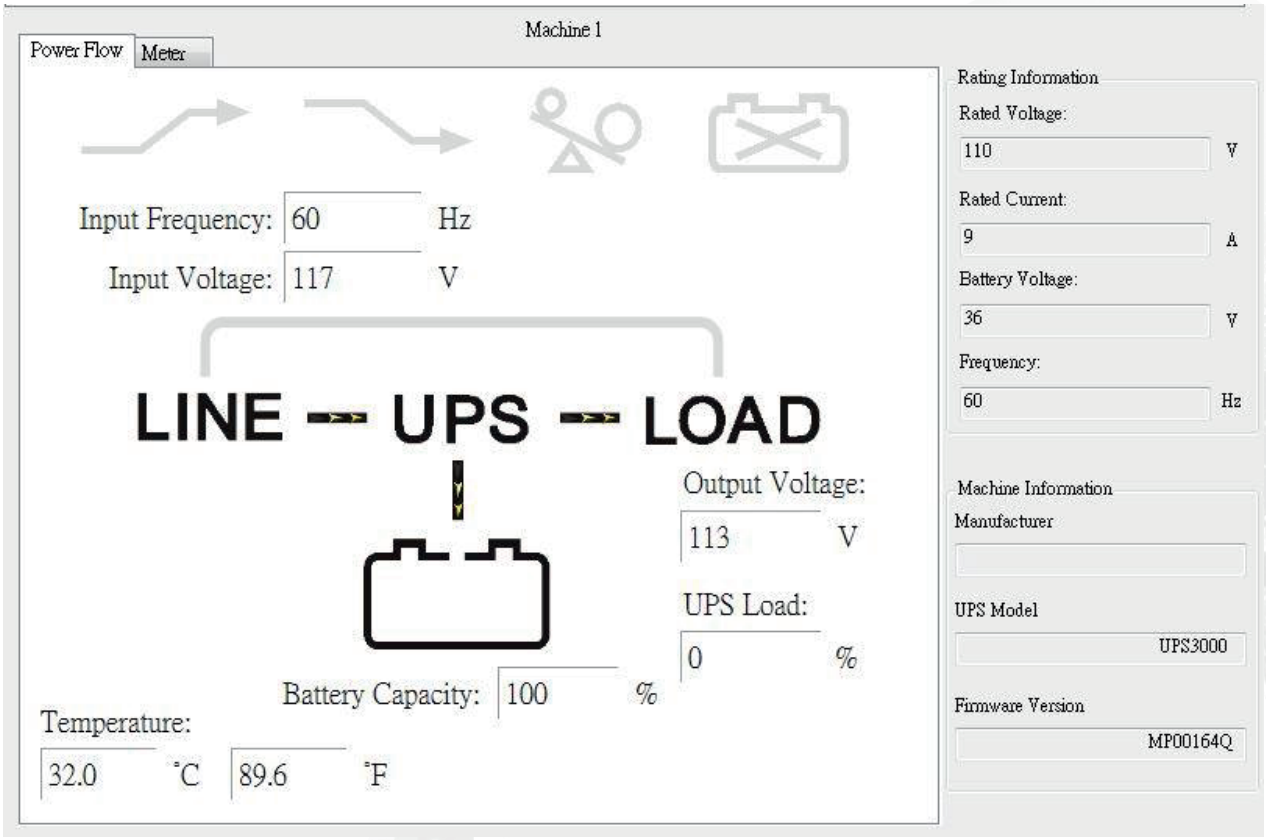
C1. Rating Information

Provides rating information of the connected UPS such as Rating Voltage, Rating current, Battery Voltage, and Frequency

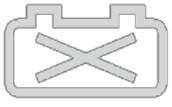
C2. Machine Information

Provides machine information of the connected UPS such as Manufacturer, UPS Model and Firmware Version

Power Flow Page

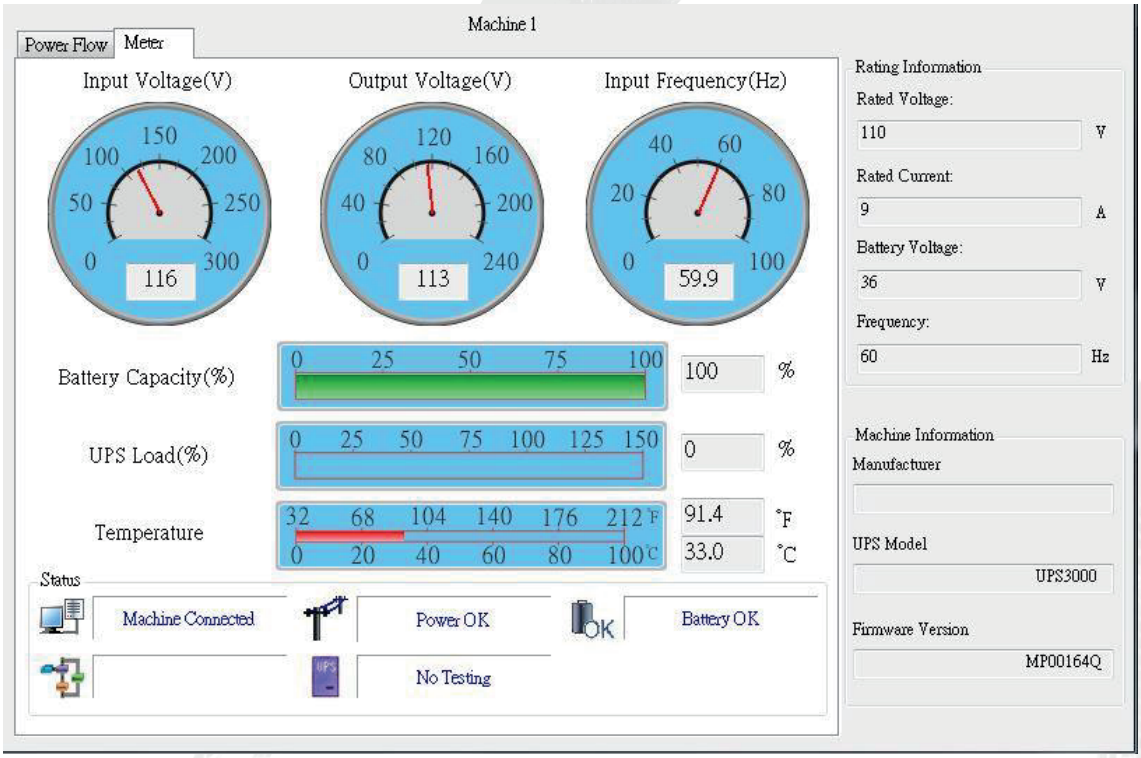


Symbols Description

STATE	SYMBOLS	DESCRIPTION	REMARKS
Boost		Non-Boost	
		Boost	
Buck		Non-Buck	
		Buck	
Over Load		Non-Over Load	
		Over Load	
Battery State		Non-Battery Disconnect	
		Battery Disconnect	

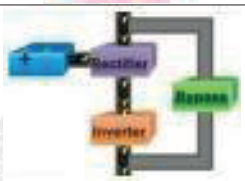
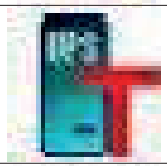
STATE	SYMBOLS	DESCRIPTION	REMARKS
Battery State		Battery OK	
		Battery Low	
By Pass		Non-By Pass	
		By Pass	

Meter Page

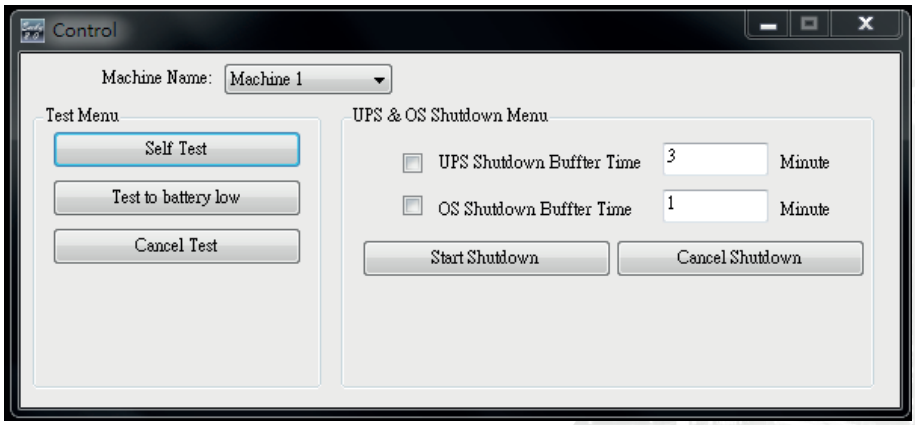


Symbols Description

STATE	SYMBOLS	DESCRIPTION	REMARKS
Connection State		UPS connected. This symbol represent when the UPS is successfully connect to the Computer	
		UPS disconnected. The connection between the UPS & the Computer is disrupted	

STATE	SYMBOLS	DESCRIPTION	REMARKS
Power State		Power Supply OK	
		Power Failure. The utility supply is absent or abnormal conditions	
UPS Battery State		Battery Level OK	
		Battery Low. The UPS battery is near to end of discharge or is at low power level. (2 icon swap)	
		UPS Battery Failed	
UPS Models		ON LINE Model	
		OFF LINE Model	
Test State		UPS No Testing	
		UPS Testing	
By Pass		By Pass Mode (2 icon swap)	

2.2 CONTROL



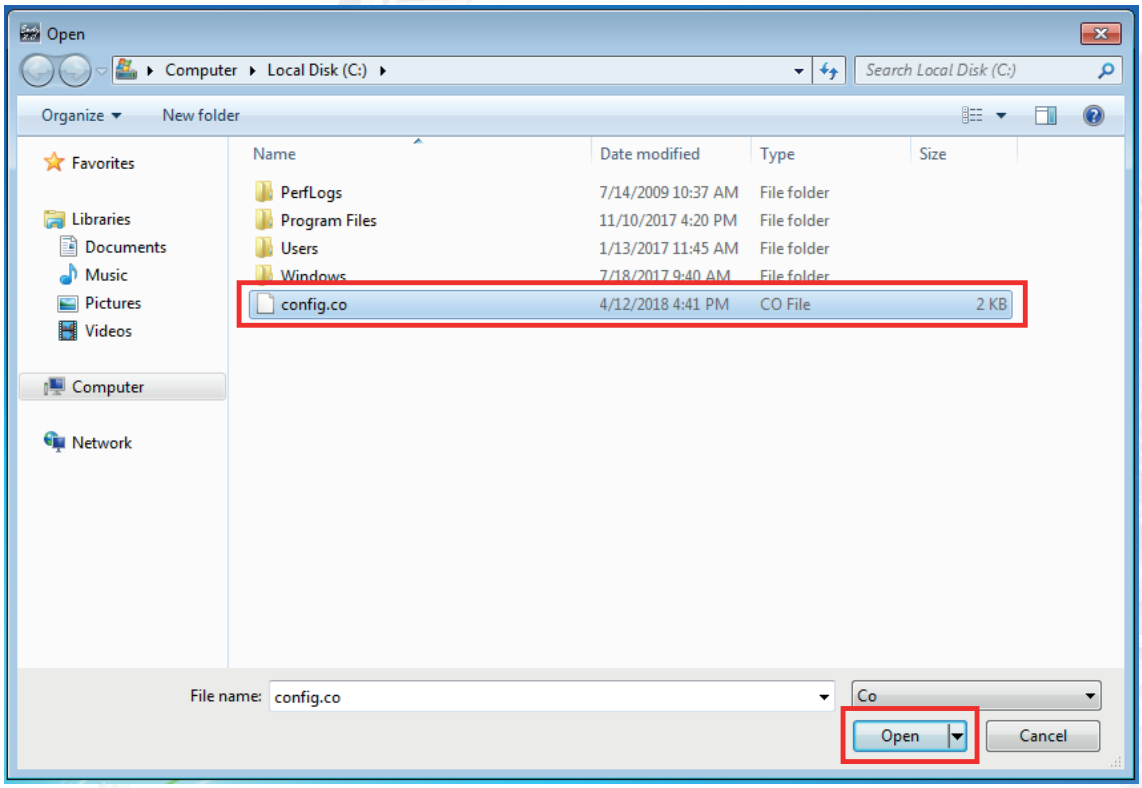
Provides command to UPS for self-test, battery discharge test, stop test, shut-down, stop shut-down and OS for shut-down, stop shut-down.

2.3 IMPORT/EXPORT SETTING

2.3.1 Import Setting

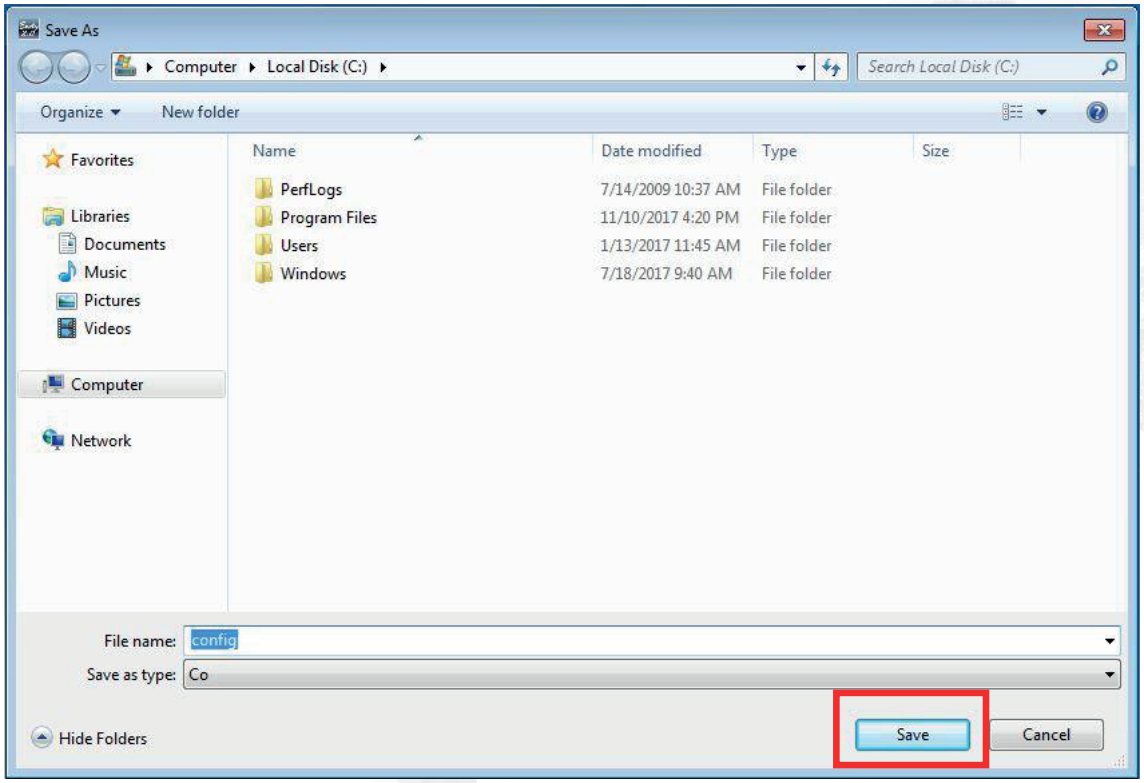
Select the Setting file which you want to Import.

Click "Open" to Import the Setting.



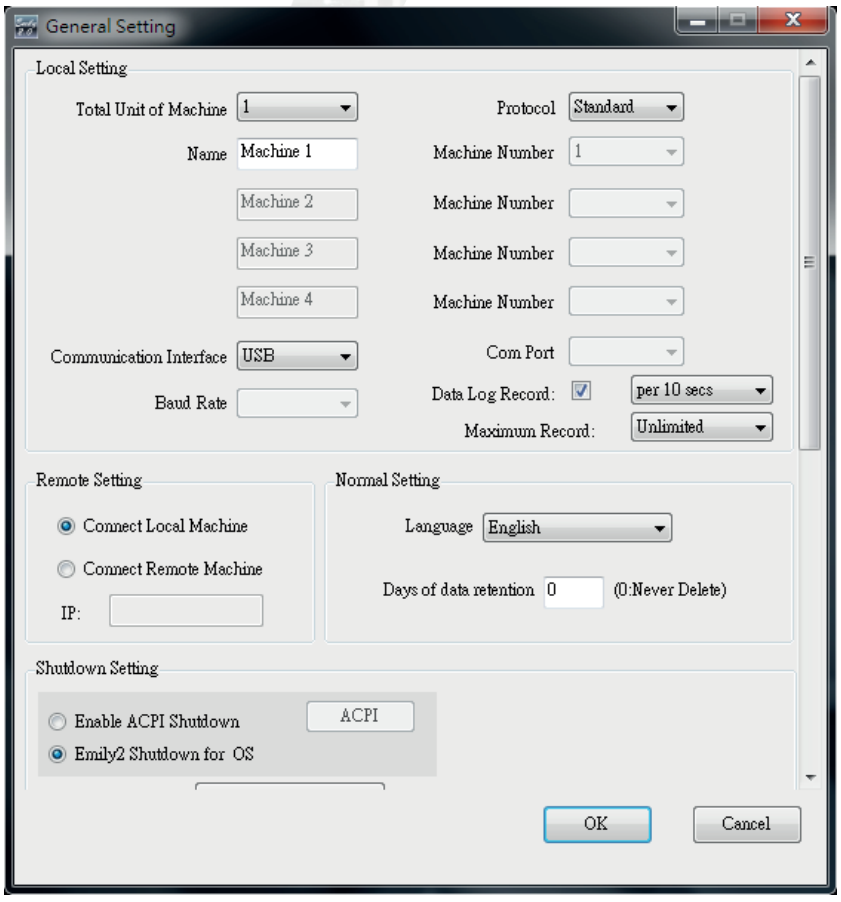
2.3.2 Export Setting

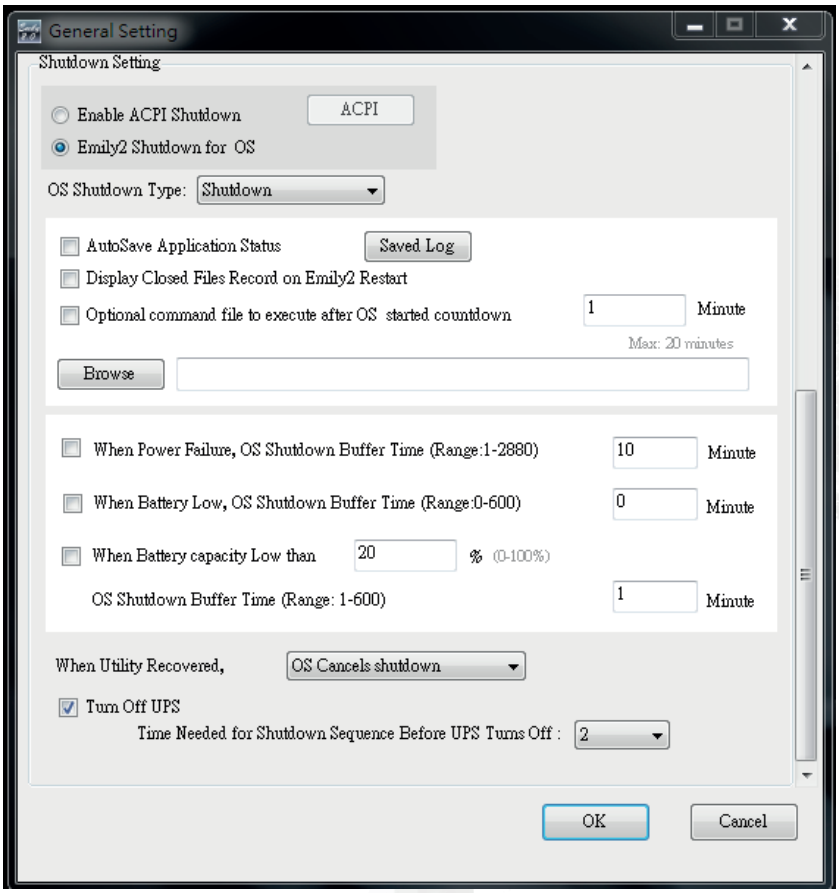
Select Export Folder and click “Save” to save this Setting.



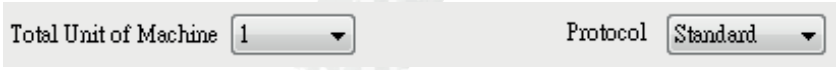
2.4 GENERAL SETTING

Allows user to select & set the connecting Com port or Remote, UPS or OS shutdown, etc.

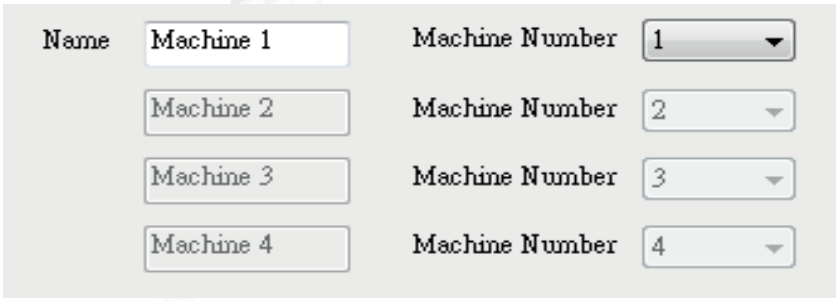




2.4.1 Setting amount of unit, and choose the protocol

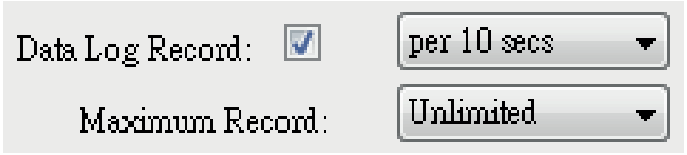


2.4.2 Setting number of unit and unit name which show on the Real Time Information Monitoring Display form



2.4.3 Setting Interface and Com Port of connection

2.4.4 Data log record setting



Select the item to enable the data log record, then set record interval time.
And set data storage count of record list.

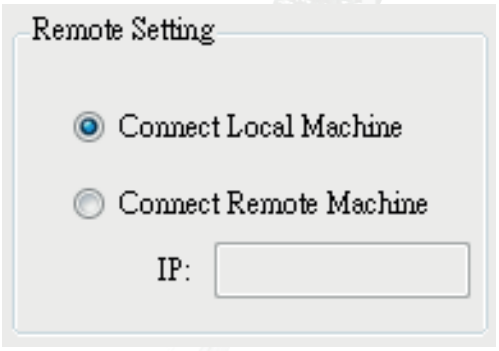
2.4.5 Language Selections

The Emily2 program provides various major languages for user selection.
The initial start up language will be English.

2.4.6 Data retention setting

The period of time user intends to save the data in database. If the value is "0", means data in database never delete.

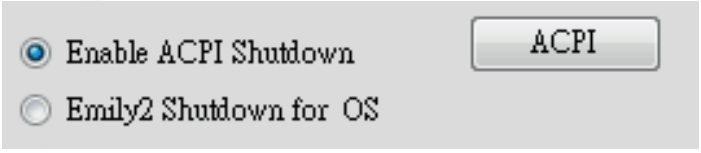
2.4.7 Remote Setting



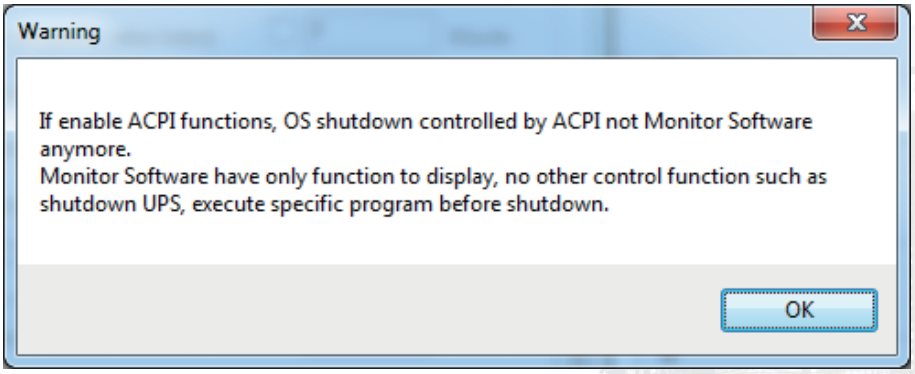
If you want to remote other computer, please choose "Connect Remote Machine", and insert IP.
If choose "Connect Remote Machine", you can't send command, scheduling and Shutdown the UPS, but can Shutdown the computer.

2.4.8 Enable ACPI Shutdown

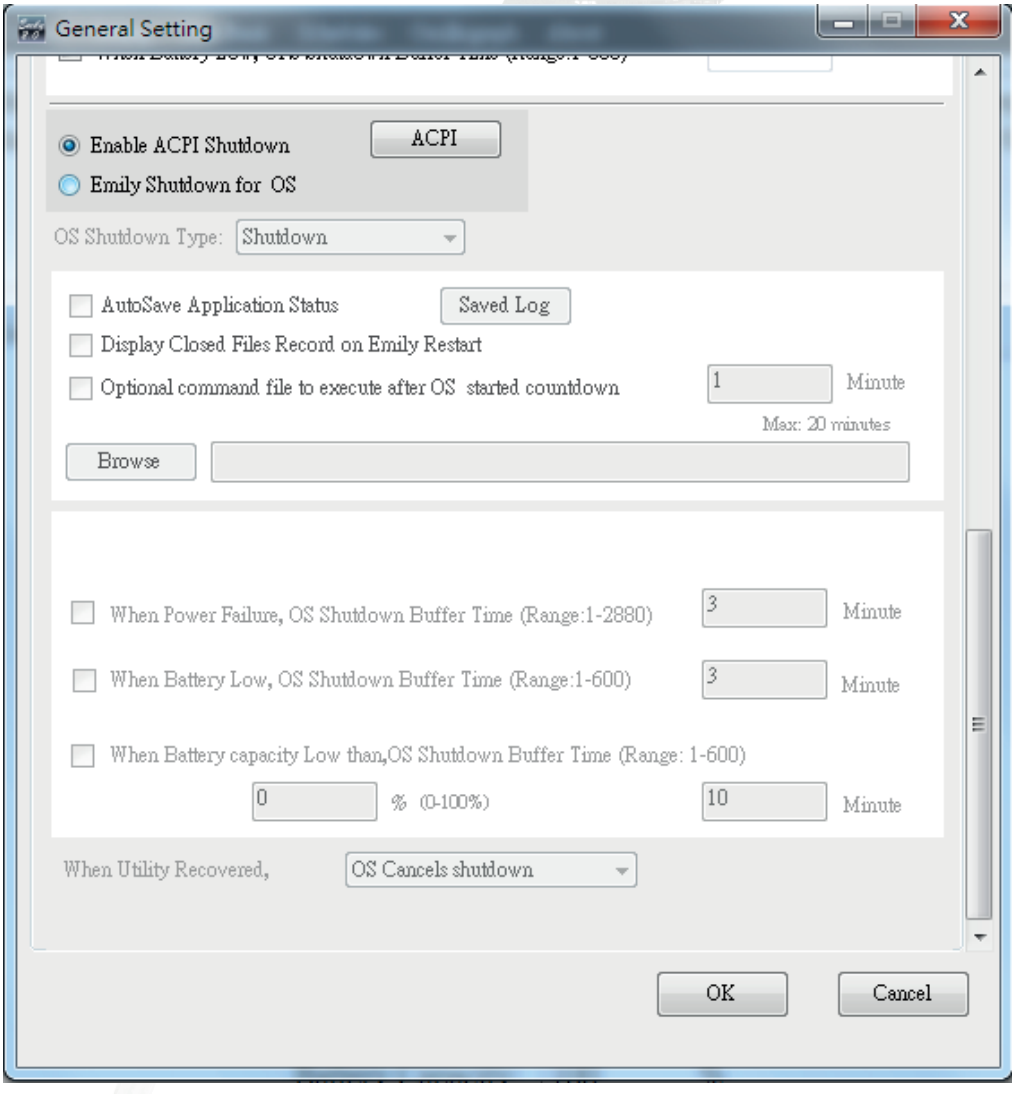
When Enable ACPI Shutdown, all of the Shutdown functions controlled by ACPI.



Pop up Warning Message



Power buffer times arrange

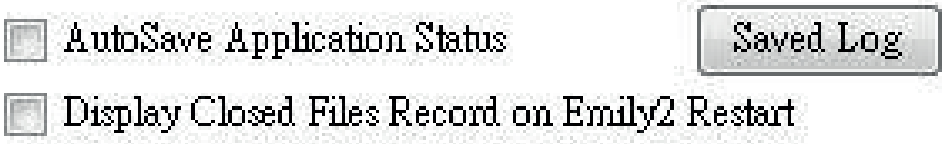


2.4.9 Shutdown Type

If the shutdown type selects "Hibernate" as OS it's

2.4.10 Auto save Application

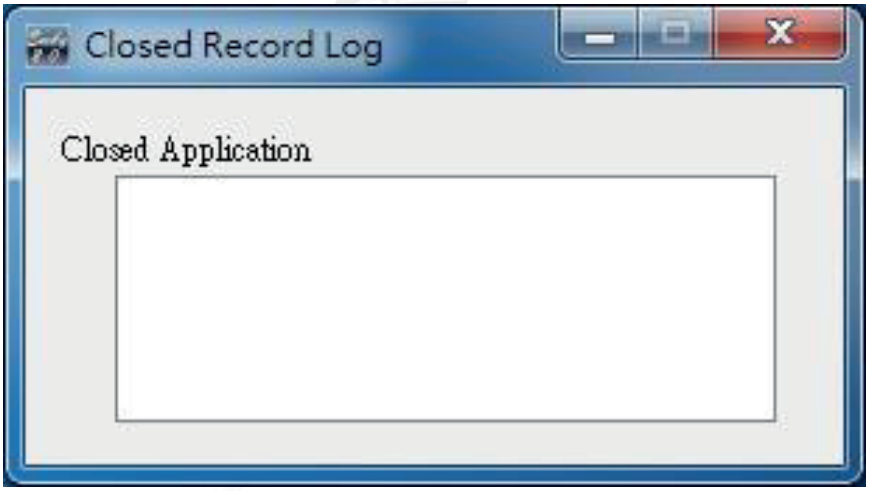
Provides a function to save program when OS shutdown



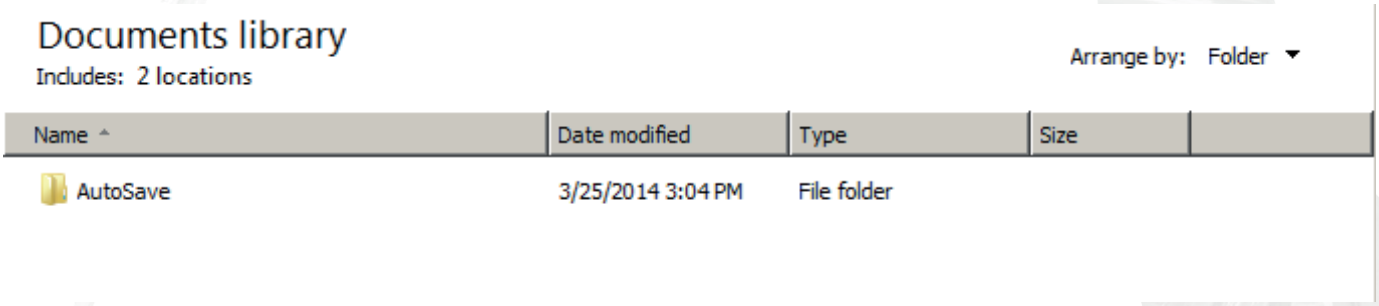
Auto close and save Application Files before OS shutdown.

When restart Emily2, Pop up the list of Closed Files.

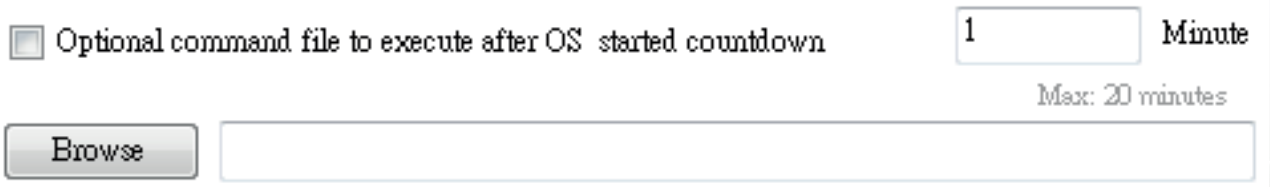
"Record Log"



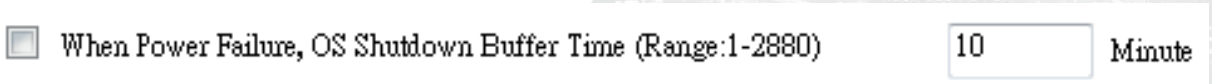
Save AutoSave Directory under My Document.



2.4.11 Optional command file to execute after OS started countdown. Select a desire time to execute specific file automatically after OS started Shutdown. 20 min at Max.

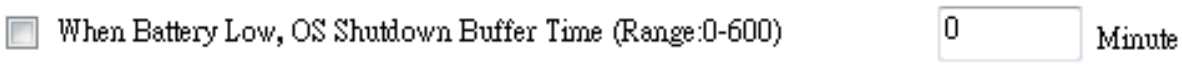


2.4.12 When Power Failure, OS Shutdown Buffer Time



Select a sufficient time for the computer OS to automatically shutdown when a power outage occurred. The selectable time is from 1 min. to 2880 min.

2.4.13 When Battery low, OS Shutdown Buffer Time



Select a desire time to automatically shutdown the computer OS before the UPS battery power is depleted. The selectable time is from 0 min. to 600 min.

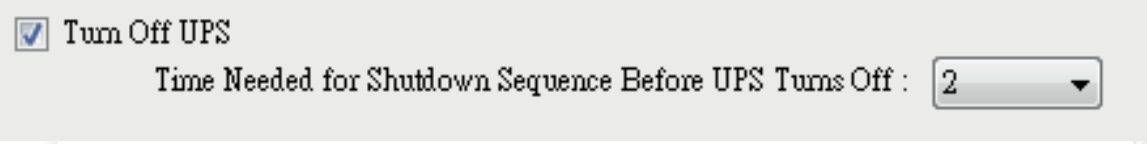
2.4.14 When Battery capacity Low than , OS Shutdown Buffer Time

Select a desire time to automatically shutdown the computer OS before the battery capacity is lower than xx %.The selectable time is from 1 min. to 600 min.

2.4.15 Action When Utility Recovery

When utility recovers, continue or cancel the countdown of OS shutting down.

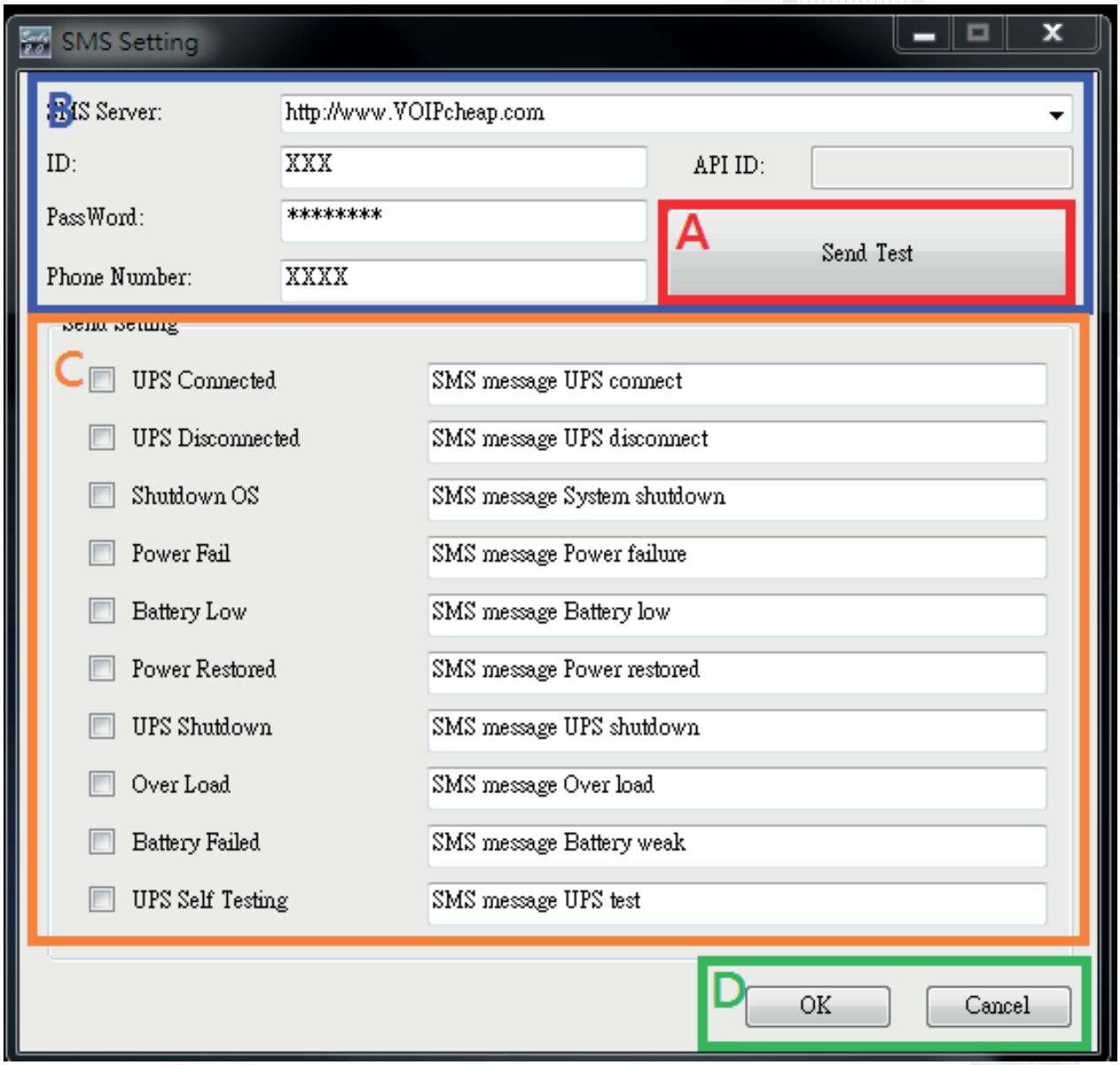
2.4.16 Turn off UPS



Time needed for shutdown sequence before UPS turn off

2.5 SMS

An alert message of recorded event will be sent to a predetermined mobile phone number via a subscribed short message service provider.



This SMS function is only available through third-party Short Message Service Providers.
To use this function you need to subscribe an account on [every8d] or [clickatell].
These are currently the only 2 third-party SMS providers supported by Emily2 program.
For more information on subscriptions and charges, please go to their respective website as follow:

1) For [Every8d]: go to *www.every8d.com*

Note: Please subscribe as "Corporate" account in order to use Emily2 program SMS function.

2) For [Clickatell]: go to *www.clickatell.com*

Note: Payment has to be made to obtain an "api_id" before use.

A. Send Test
Click to send a test message to confirm the settings.

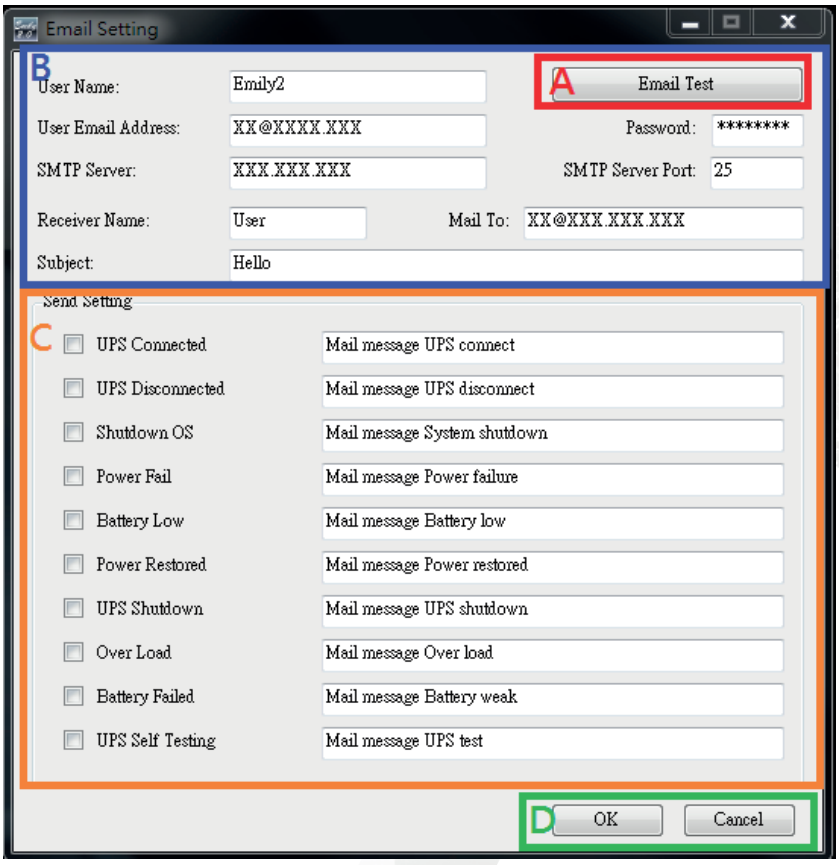
B. Account Settings
Insert the SMS provided name, ID, passwords, "api-id" (for Clickatell subscriber only) and mobile phone number (international dialing format, include "+" or "00" and country code).

Note: If you want to send message to more than 1 mobile phone number, must use " , " to separate mobile phone numbers.

C. Event & Message Selections
Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

D. Save Setting
Click "OK" to save & apply settings
Note: Internet Firewall may not allow this SMS function.
If you have installed Firewall please allow this function.

2.6 E-Mail Settings



A. Send Test

Click to send a test message to confirm the settings are correct.

B. Account Settings

Insert the User Name (Sender, e.g. Emily2), User Email Address (select a sender email address specifically for this function), Password (the pass word of your email server), SMTP Server (insert SMTP server or IP address), SMTP Server port (port of SMTP Server), Receiver Name (select a predetermined email address the event messages will be sent to), Mail To (Mail address of receiver), and Subject (select a subject name to acknowledge the receiver).

Note: If you want to send email to more than 1 email address, must use " ; " to separate email addresses.

C. Send Setting

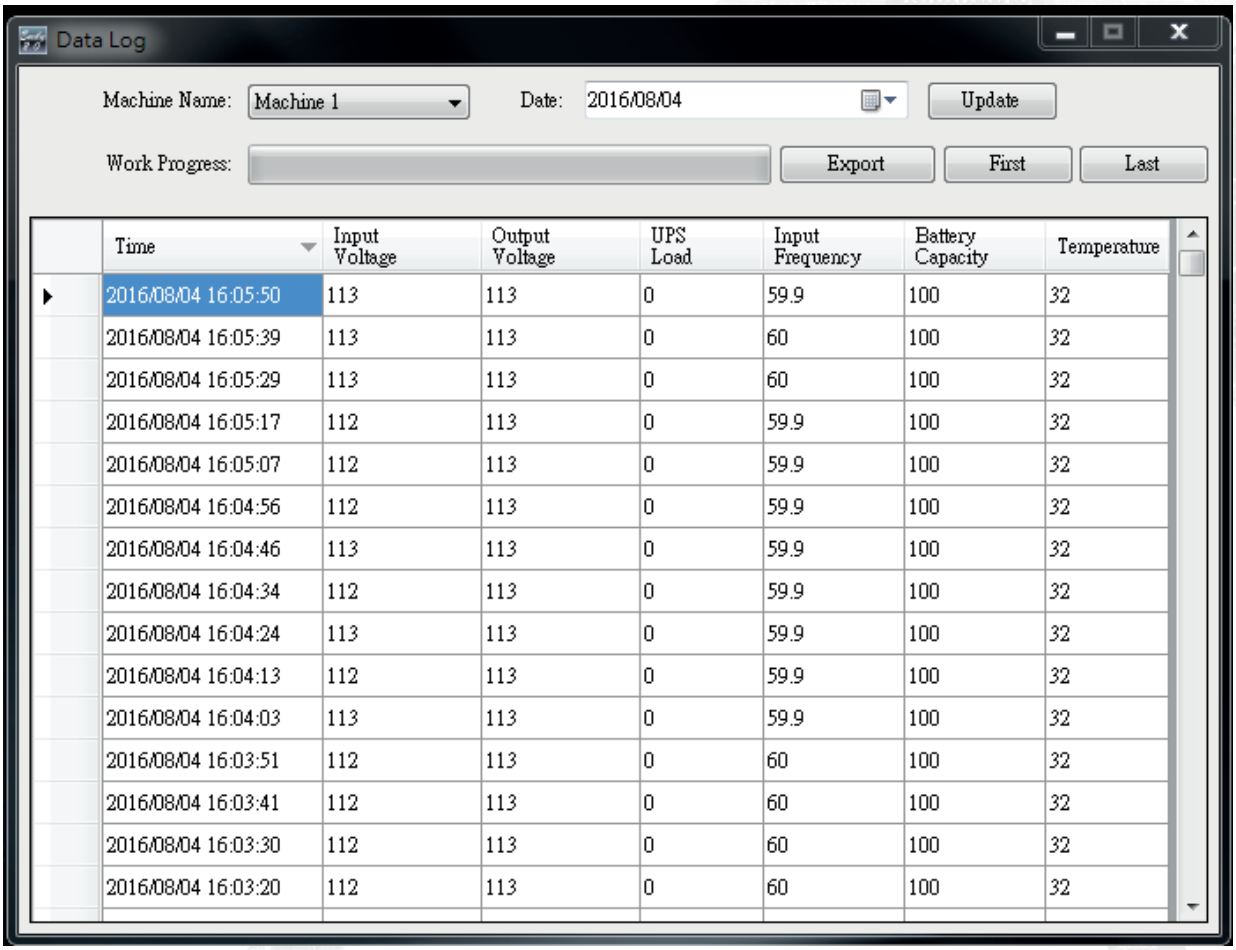
Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

D. Save Setting

Click "OK" to save & apply settings.
Note: Internet Firewall may not allow this E-Mailing function.
If you have installed Firewall please allow this function.

2.7 Data Log

The "Data Bank" stores all UPS operating parameters monitored & recorded by the Emily2 program. It facilitates the recorded data (include Input Voltage, Output Voltage, Input Frequency, Battery Capacity, Temperature, Load) for a more effective study of the desire information. The information in the Data Base can be exported to Excel file.

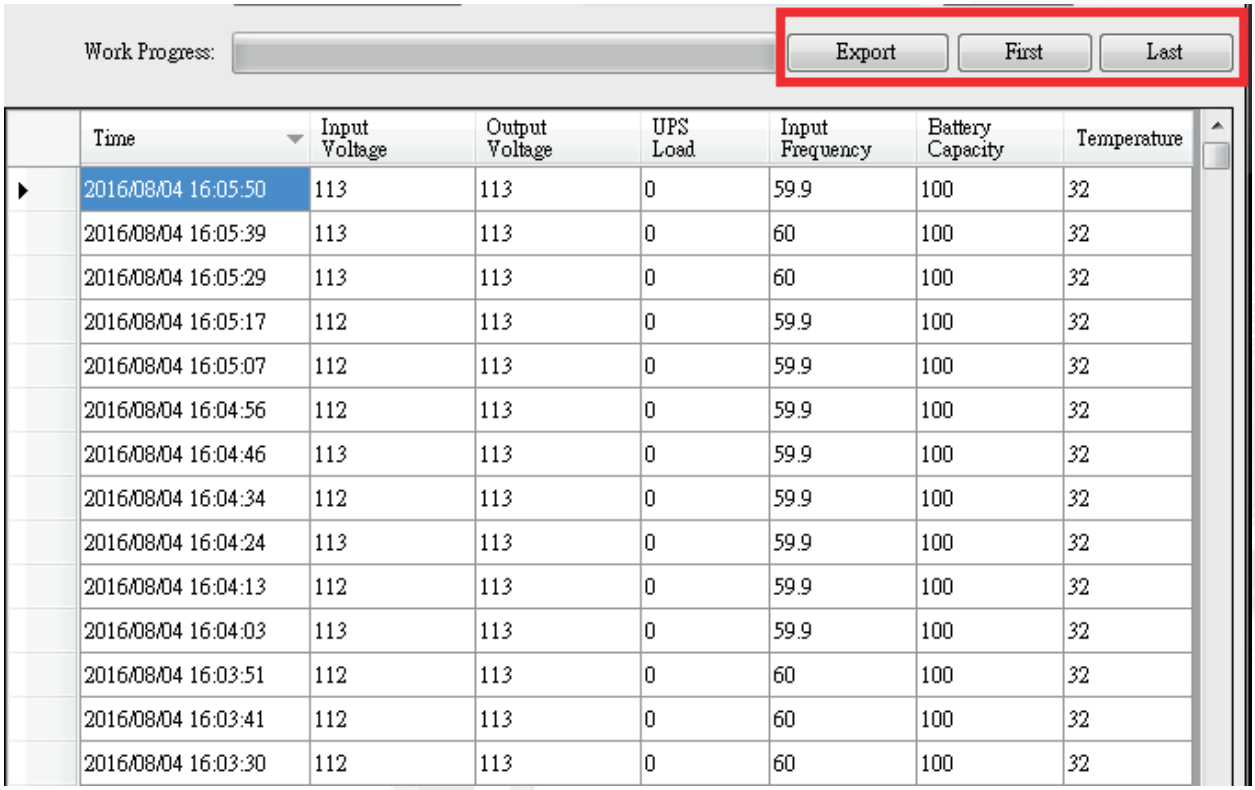


Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
2016/08/04 16:05:50	113	113	0	59.9	100	32
2016/08/04 16:05:39	113	113	0	60	100	32
2016/08/04 16:05:29	113	113	0	60	100	32
2016/08/04 16:05:17	112	113	0	59.9	100	32
2016/08/04 16:05:07	112	113	0	59.9	100	32
2016/08/04 16:04:56	112	113	0	59.9	100	32
2016/08/04 16:04:46	113	113	0	59.9	100	32
2016/08/04 16:04:34	112	113	0	59.9	100	32
2016/08/04 16:04:24	113	113	0	59.9	100	32
2016/08/04 16:04:13	112	113	0	59.9	100	32
2016/08/04 16:04:03	113	113	0	59.9	100	32
2016/08/04 16:03:51	112	113	0	60	100	32
2016/08/04 16:03:41	112	113	0	60	100	32
2016/08/04 16:03:30	112	113	0	60	100	32
2016/08/04 16:03:20	112	113	0	60	100	32

2.7.1 Setting Machine Name and date of data

Choose the "Machine Name" and "Date", click "Search" have the further information.

2.7.2 Tools

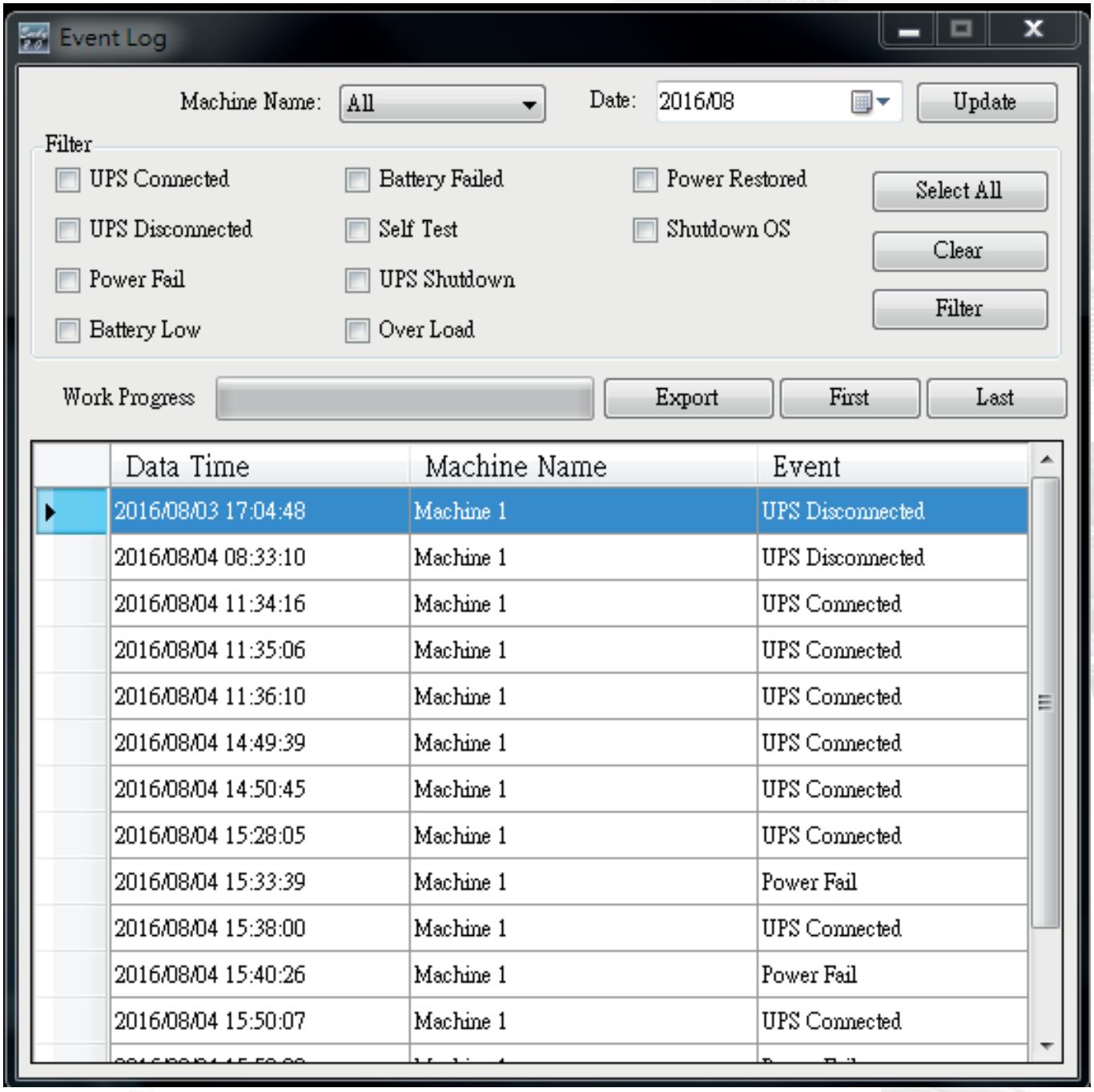


Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
2016/08/04 16:05:50	113	113	0	59.9	100	32
2016/08/04 16:05:39	113	113	0	60	100	32
2016/08/04 16:05:29	113	113	0	60	100	32
2016/08/04 16:05:17	112	113	0	59.9	100	32
2016/08/04 16:05:07	112	113	0	59.9	100	32
2016/08/04 16:04:56	112	113	0	59.9	100	32
2016/08/04 16:04:46	113	113	0	59.9	100	32
2016/08/04 16:04:34	112	113	0	59.9	100	32
2016/08/04 16:04:24	113	113	0	59.9	100	32
2016/08/04 16:04:13	112	113	0	59.9	100	32
2016/08/04 16:04:03	113	113	0	59.9	100	32
2016/08/04 16:03:51	112	113	0	60	100	32
2016/08/04 16:03:41	112	113	0	60	100	32
2016/08/04 16:03:30	112	113	0	60	100	32

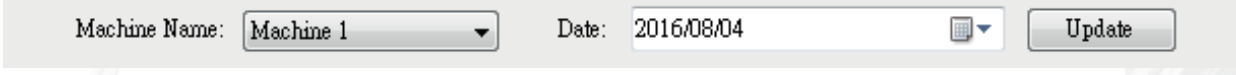
Export: Click to export the current data into “xls” or “txt” format.
First: Click to go to the first recorded entry.
Last: Click to go to the last recorded entry.

2.8 Event Log

The "Event Log" provides a list of records of all the events & tasks to be performed by the program and those that had occurred on each day of the particular month. It provides a summery of the Utilities conditions and UPS testing results.

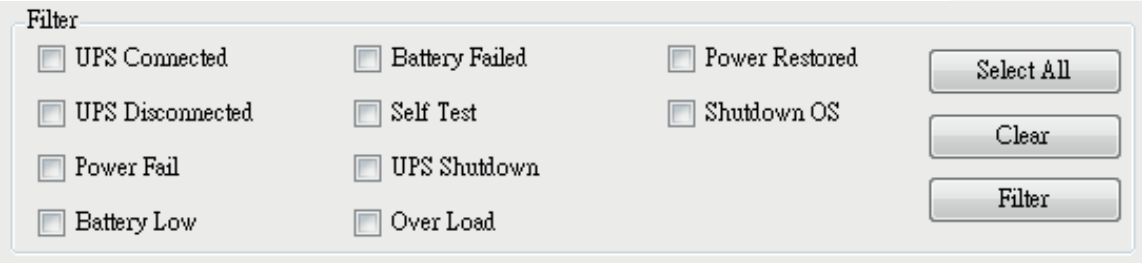


2.8.1 Setting Machine Name and date of data



Choose the "Machine Name" and "Date", click "Search" to have the further information.

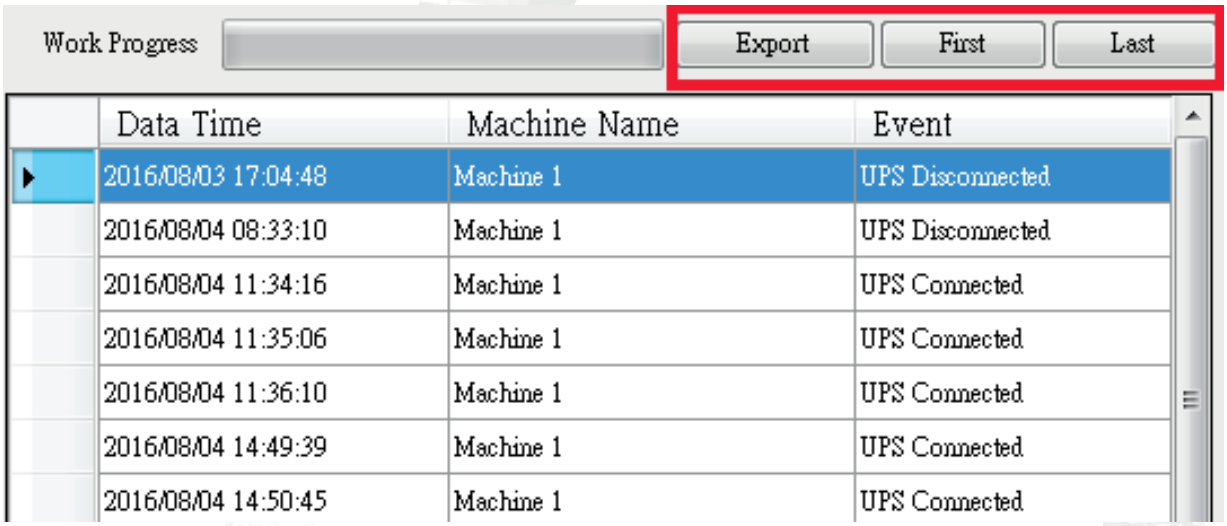
2.8.2 Filter



Please select or unselect the desire parameters by clicking on the respective parameter field box. Click "Filter" to have further information.

Select All: field box of all events will be " ☑ "
Clear: field box of all events will be " ☐ "
Filter: click "Filter" the data will show respectively.

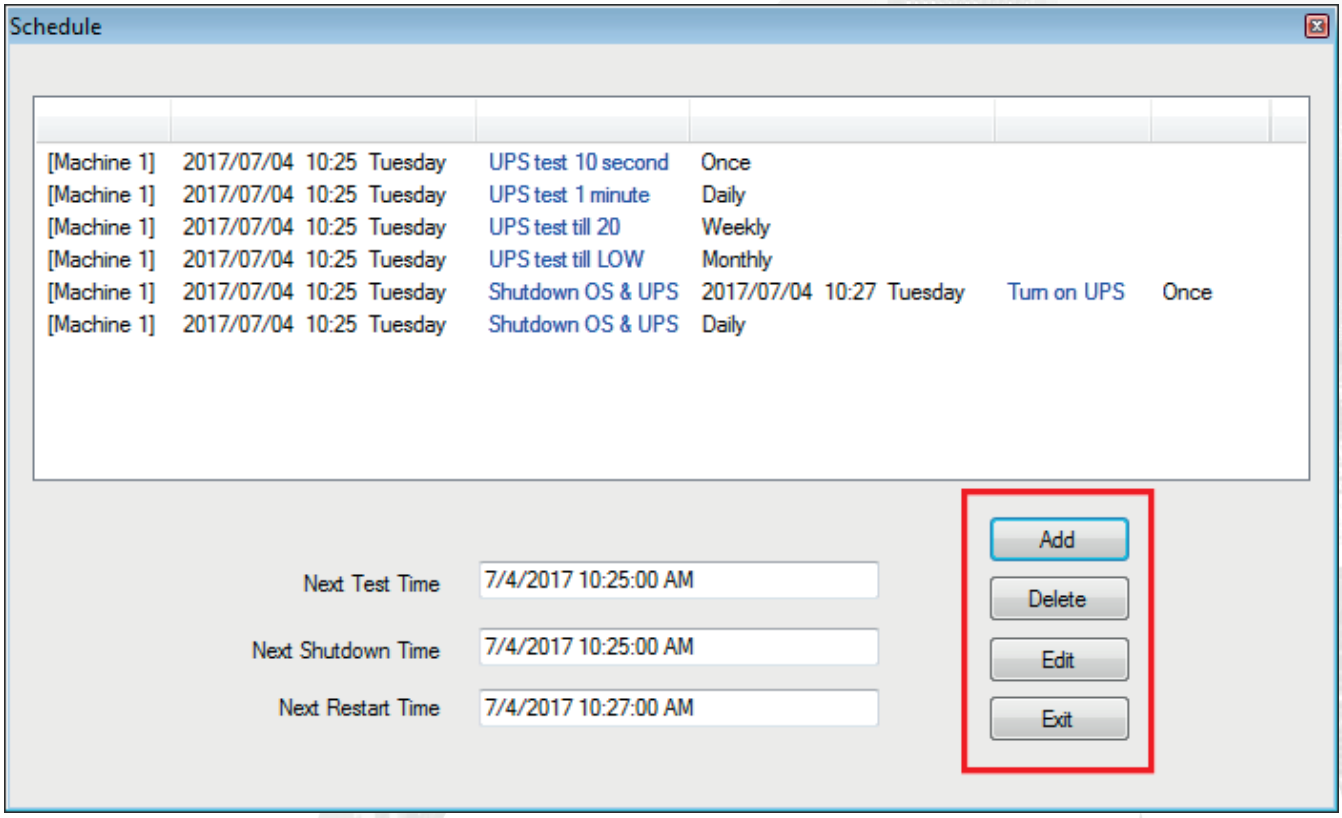
2.8.3 Tools



Export: click to export the current data into "xls" or "txt" format.
First: click to go to the first recorded entry.
Last: click to go to the last recorded entry.

2.9 Schedule

"Schedule" allows user to create a desire routine to notify UPS to perform specific or repeatable tasks automatically at predetermined dates & times. Please refer to the following instructions to create an entry:

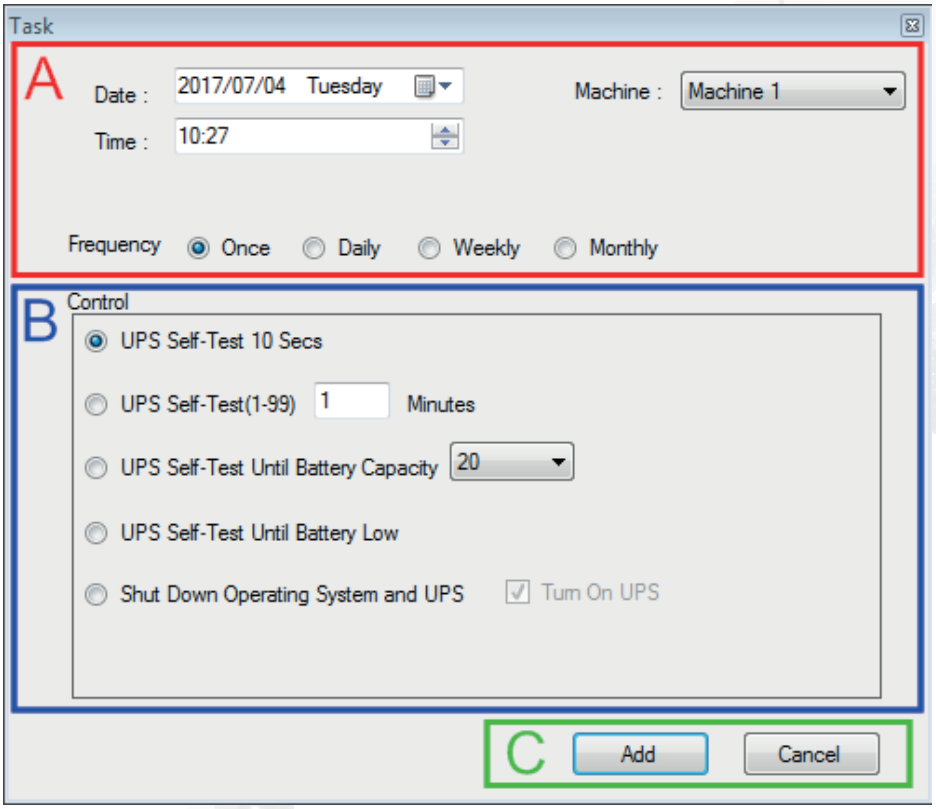


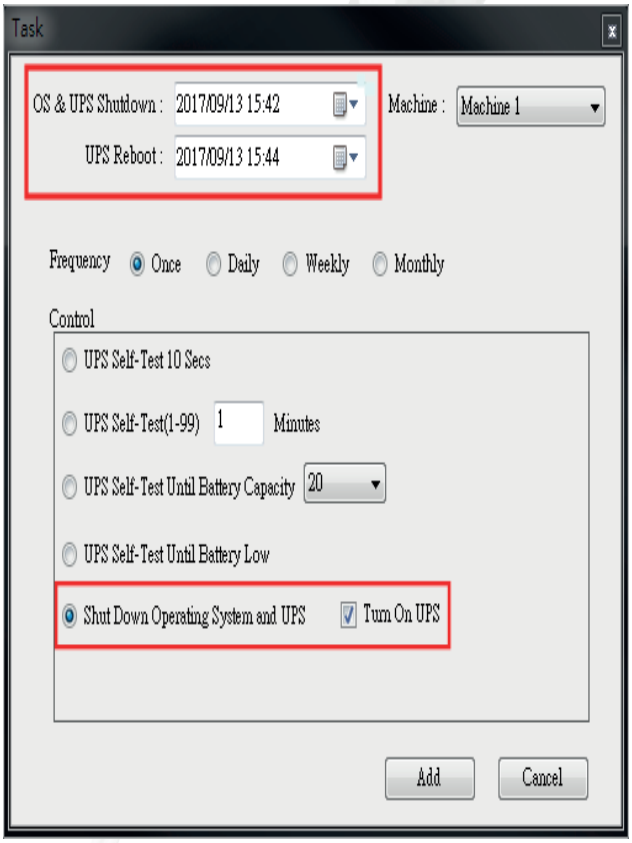
Create: click "Add" to create a new task.
Edit:
Step1. Choose the task from the schedule list, the highlighted blue bar is the chosen task.
Step2. Set Machine and schedule items.
Step3. Click "Edit" to modify your selection.

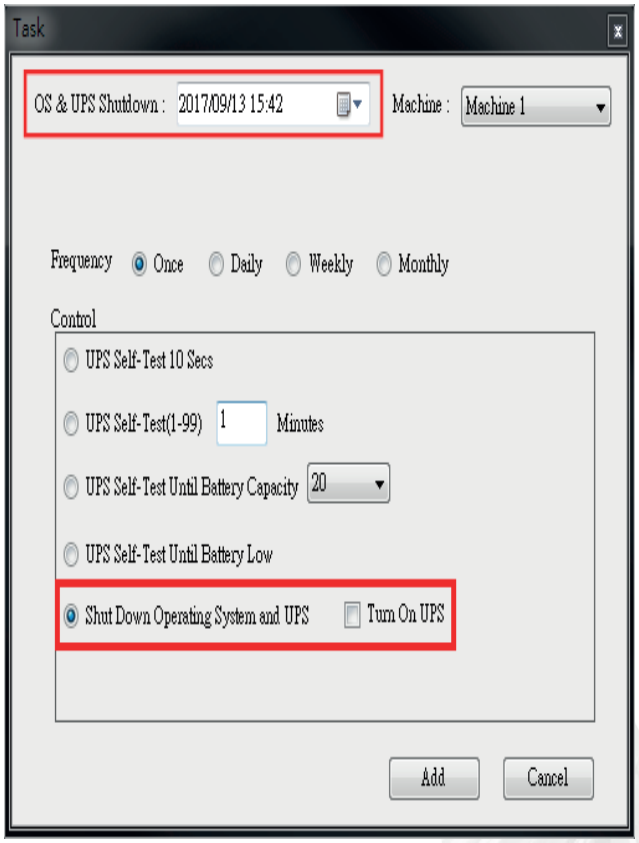
Delete: choose the task from the schedule list, the highlighted blue bar is the chosen task. Click "Delete" to delete the task you choose.

Exit: exit the Schedule

2.9.1 Add


Task
A
Date :
2017/07/04 Tuesday
Machine :
Machine 1
Time :
10:27
Frequency
Once
Daily
Weekly
Monthly
B
Control
UPS Self-Test 10 Secs
UPS Self-Test(1-99)
1
Minutes
UPS Self-Test Until Battery Capacity
20
UPS Self-Test Until Battery Low
Shut Down Operating System and UPS
Turn On UPS
C
Add
Cancel


Task
OS & UPS Shutdown :
2017/09/13 15:42
Machine :
Machine 1
UPS Reboot :
2017/09/13 15:44
Frequency
Once
Daily
Weekly
Monthly
Control
UPS Self-Test 10 Secs
UPS Self-Test(1-99)
1
Minutes
UPS Self-Test Until Battery Capacity
20
UPS Self-Test Until Battery Low
Shut Down Operating System and UPS
Turn On UPS
Add
Cancel

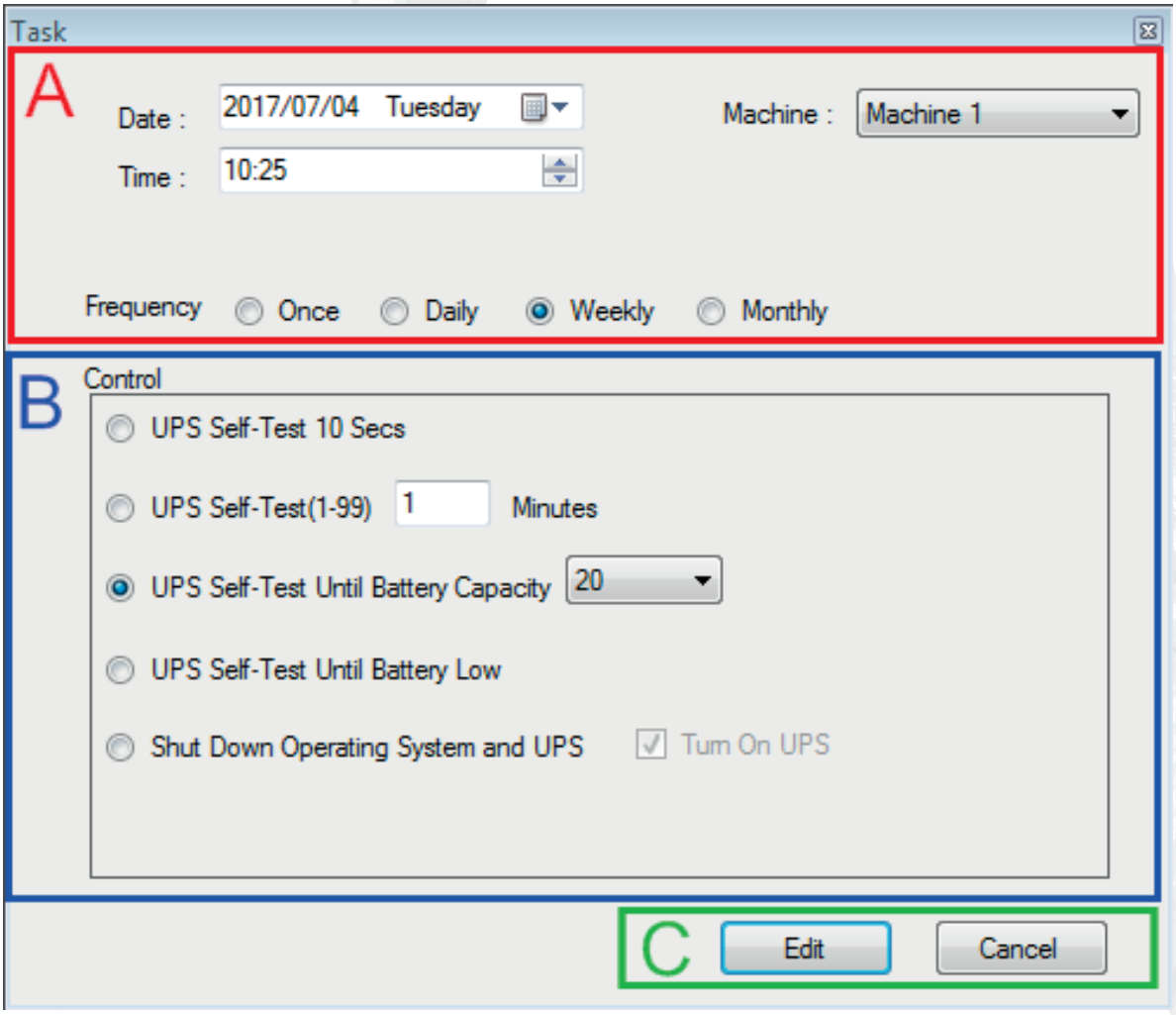

Task
OS & UPS Shutdown :
2017/09/13 15:42
Machine :
Machine 1
Frequency
Once
Daily
Weekly
Monthly
Control
UPS Self-Test 10 Secs
UPS Self-Test(1-99)
1
Minutes
UPS Self-Test Until Battery Capacity
20
UPS Self-Test Until Battery Low
Shut Down Operating System and UPS
Turn On UPS
Add
Cancel

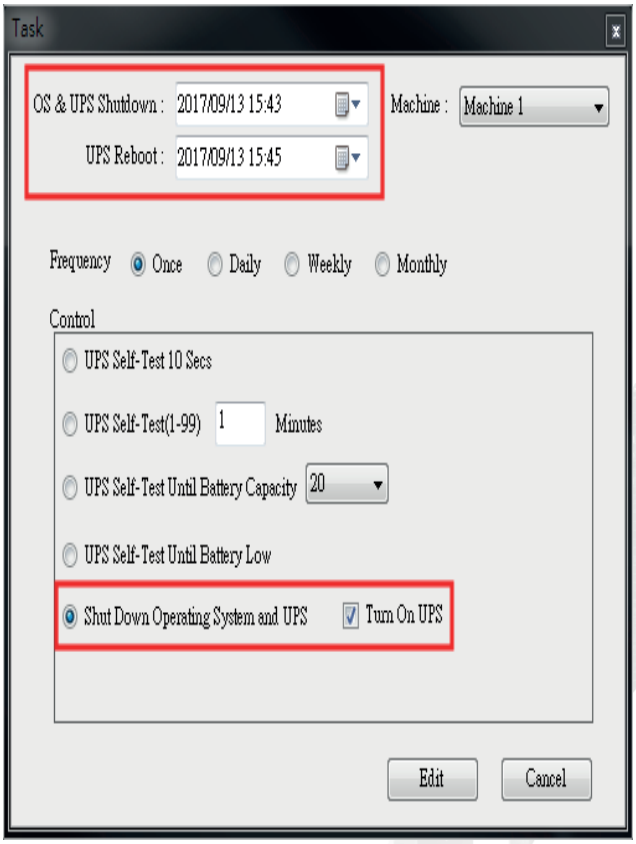
A. Executive Time: Machine Name: Choose the machine
Date: Date Setting
Time: Time Setting
OS & UPS Shutdown: Set the shutdown time for OS & UPS
UPS Reboot: Set the restart time for UPS
Frequency: Set execute cycle of the schedule

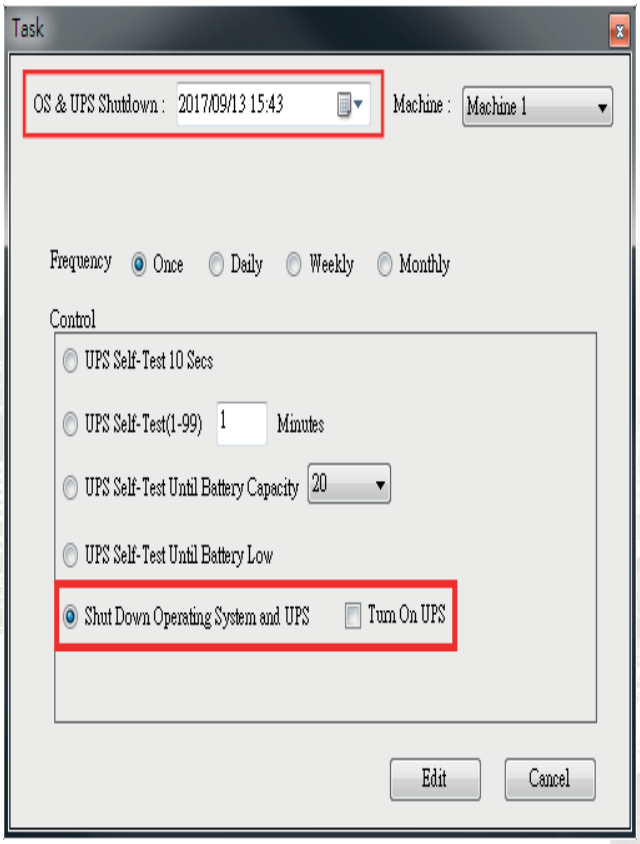
B. Control:
1. Self-test for 10 seconds
2. Self-test for 10 minutes
3. Self-test till under xx%
4. Self-test until battery low
5. Shutdown the OS & UPS
Restart the UPS after Shutdown in X minutes

C. Function: Add Or Cancel

2.9.2 Edit







A. Executive Time: Machine Name: Choose the machine
Date: Date Setting
Time: Time Setting
OS & UPS Shutdown: Set the shutdown time for OS & UPS
UPS Reboot: Set the restart time for UPS
Frequency: Set execute cycle of the schedule

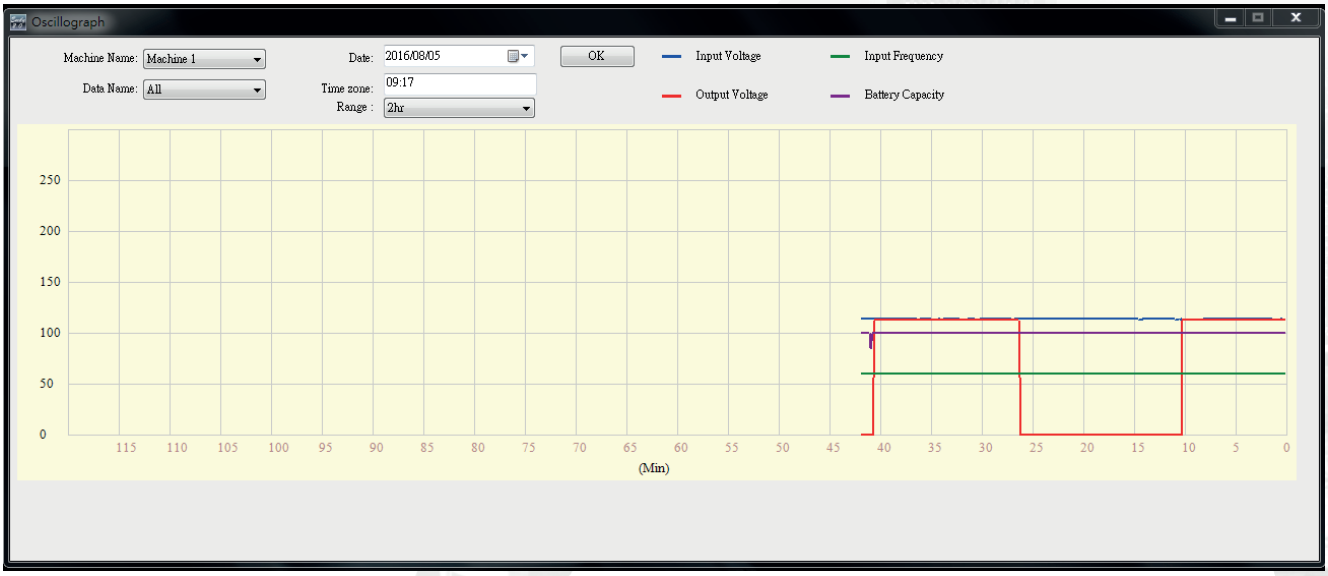
B. Control:
1. Self-test for 10 seconds
2. Self-test for 10 minutes
3. Self-test till under xx%
4. Self-test until battery low
5. Shutdown the OS & UPS

Restart the UPS after Shutdown in X minutes

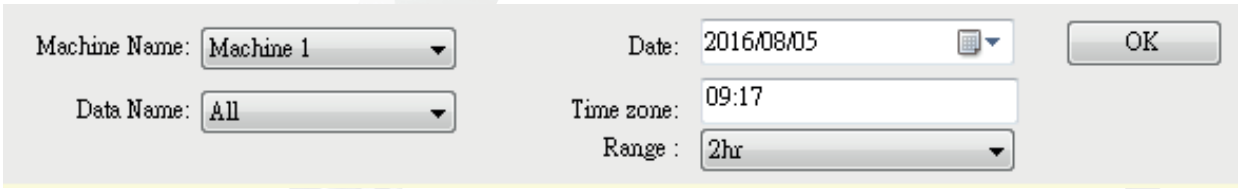
C. Function: Edit Or Cancel

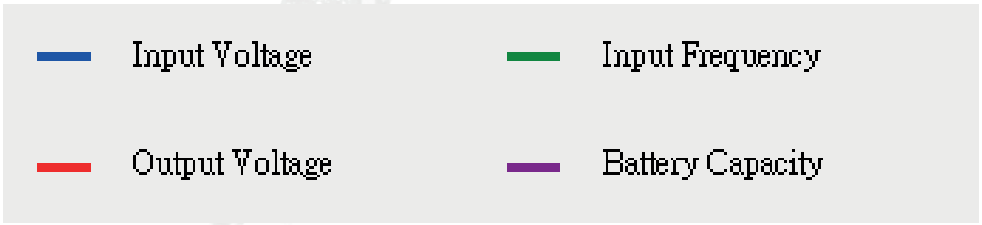
2.10 Oscillograph

The "Oscillograph" provides a summarized report of the recorded UPS operating data. The recorded data are represented in line curves to provide an easy to read summery of the Utility & UPS power quality.



2.10.1 Tools





Machine Name: choose the machine which you want to show
Date: set the date of data you want to show
Date Name: 5 items can be chosen: "ALL", "Input Voltage", "Output Voltage", "Input Frequency", "Battery Capacity"
Time Zone: choose the time interval

2.11 Pop up alarms for Power Abnormal

When UPS happens one of Power Fail, Battery Low, Battery Failed, and Overload, it will show alarm window in order to remind user to prompt handle.

2.12 About

Click About to see the software version.
Click "Help" to read the user manual.

Ablerex

Experts in Power Conversion

ABLEREX ELECTRONICS ITALY S.R.L.
Viale Milanofiori, Strada 6, Palazzo N1 - 20089 Rozzano
+39 0236696420 - *info@ablerex.com.tw* - www.ablerex.eu