

Using UPSMON-PRO Monitoring Software


With this UPS monitoring software, you can :

- Get UPS connection from serial port, usb port, or snmp agent
- Monitor UPS status, battery capacity , output voltage, load level, ...etc
- Record and review historical UPS events
- Record and review UPS information by line chart
- Set up countdown seconds between power failure - OS shutdown / OS shutdown - UPS Off
- Set up e-mail notification (ex : power outages, low battery, disconnect, ...etc)
- Set up UPS features (ex : silence ,battery test , no load shutdown, outlets control, ... etc)
- Share UPS status to the other UPSMON-PRO (Multi-Windows / Linux)
- Start web portal for remote monitoring

NOTE : We strongly recommend you logged in as an administrator to install the UPSMON-PRO

Opening UPSMON-PRO Monitoring Software

To start the software :

- Double-click the UPSMON-PRO icon  in the system tray
- Click Start on the taskbar - choose All Programs - UPSMON PRO - UPSMON PRO 

Connecting UPS

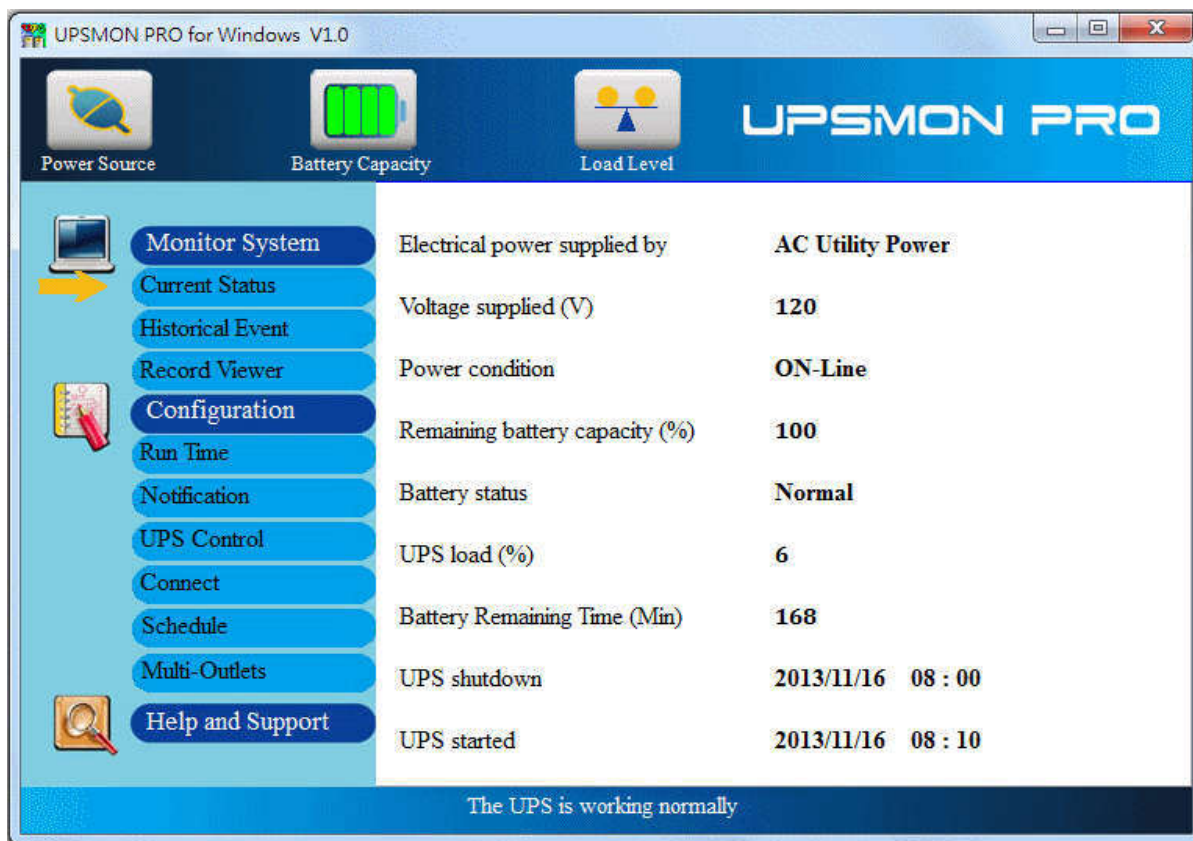
To start the connection :

- Button : Connect
- Choose the interface which way UPSMON connect to UPS : USB Port (**a**) / SNMP Card (**b**) / COM Port (**c**) / UPSMON PRO (**d**)




UPSMON-PRO buttons and indicators

- Button : Current Status



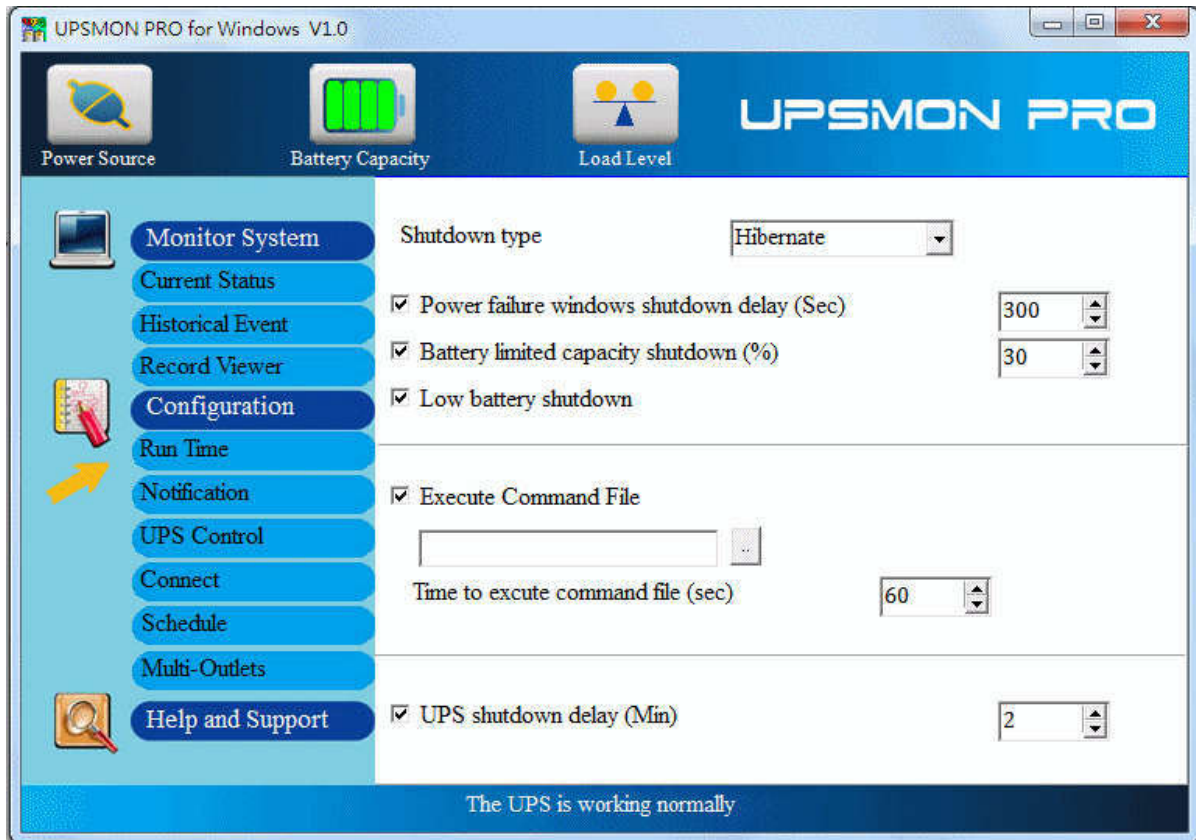
Indicator	Function
	Power Source : Utility Normal Power and the battery is charging
	Power Source : Utility Power Failed and the battery is discharging
	Battery Capacity : 100% full and healthy
	Battery Capacity : 75% full
	Battery Capacity : 50% remains
	Battery Capacity : 25 % and battery capacity is almost exhausted
	Load Level : Balance load
	Load Level : Half percent load

	Load Level: Full load
Electrical Power supplied	AC Utility Power / Battery Power
Voltage Supplied (V)	Output voltage from the UPS outlets
Power Condition	ON-Line / Bypass / Normal / Boost / Buck
Remaining Battery Capacity	The percentage of remaining capacity
Battery Status	Normal / Testing / Failed
UPS Load	The percentage of the UPS load
Battery Remaining Time	Estimated battery remaining minutes for discharging

Setting up Shutdown Configuration

Once the power failure occurs, it helps you to automatically shutdown the Windows and UPS :

1. Button : Run Time



2. **(a)**

- 2. 1 Hibernate : power-saving state and puts your open documents and programs on your hard disk
- 2. 2 Shut Down : completely running out of the procedures to save the programs to the hard disk
- 2. 3 None : no any reaction for the windows

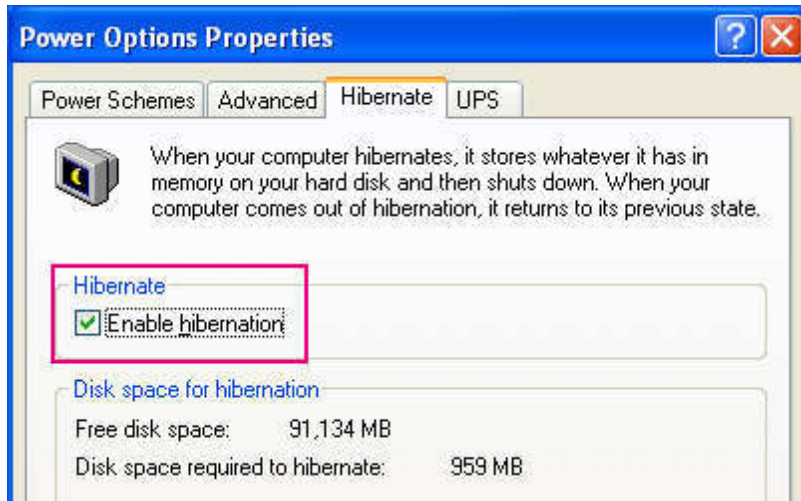
NOTE : In Windows 2003 and XP ==> You also have to enable the hibernate in *Power Options Properties* to support OS Hibernate

- 3. **(b)** "Power Failure Windows Shutdown Delay" : after this period of time, OS start to act shutdown - **(1)**
- 4. **(c)** "Battery limited capacity shutdown" : once the battery is declining to this level, OS start to act shutdown - **(1)**
- 5. **(d)** "Low battery shutdown" : if the status of the battery is declining to low level, this OS immediately act shutdown - **(1)**

Any one of the (1) item-conditions is fulfilled, UPSMON execute shutdown / hibernate at once

- 6. **(f)** "UPS shutdown Delay" : this duration is affording to completely shutdown the PC - **(2)**
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NOTE : The total time span between power failure, PC shutdown, and UPS OFF depends on UPS load and the battery capacity, ...etc

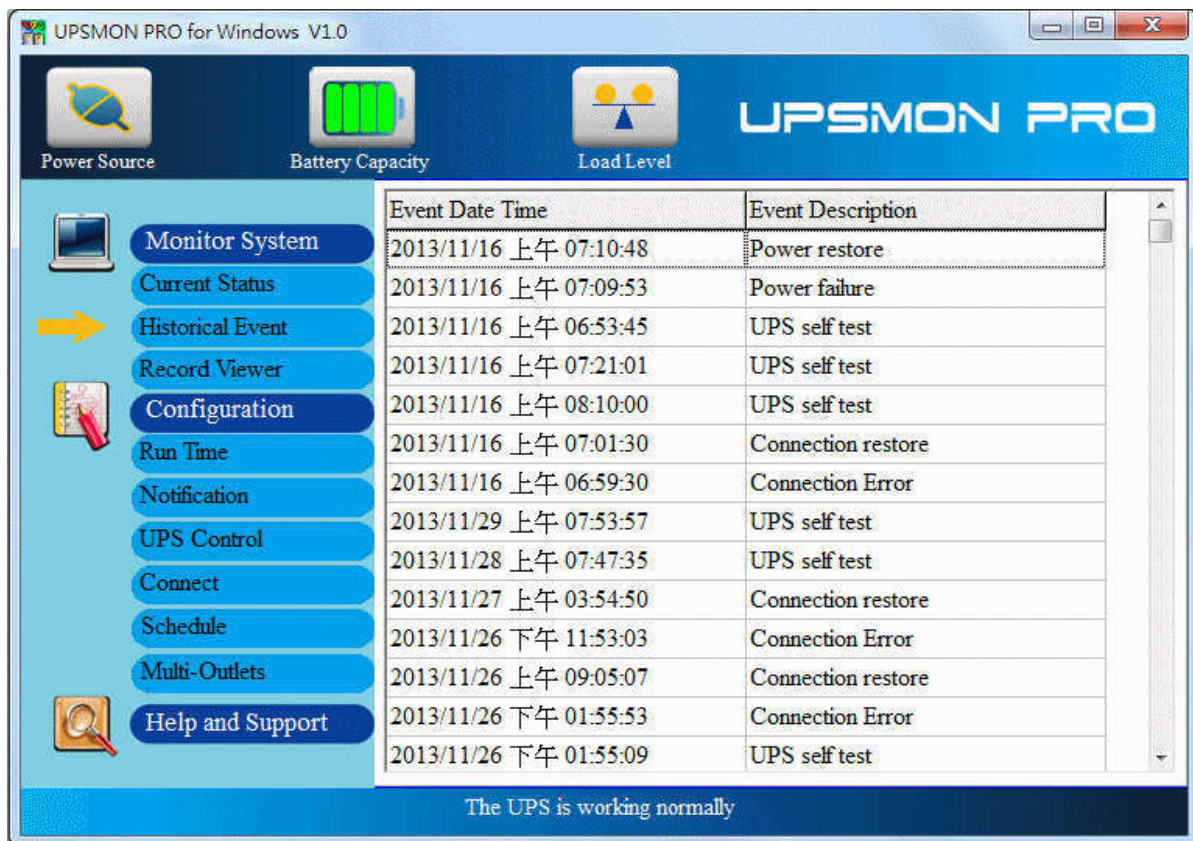


7. **(e)** "Execute Command File" : when the **(1)** seconds runs out, it will start to act your designate command
7.1 "Time to Execute Command File(sec)" : your command have such more seconds to run. And then UPSMON commit OS shutdown

Checking Event List

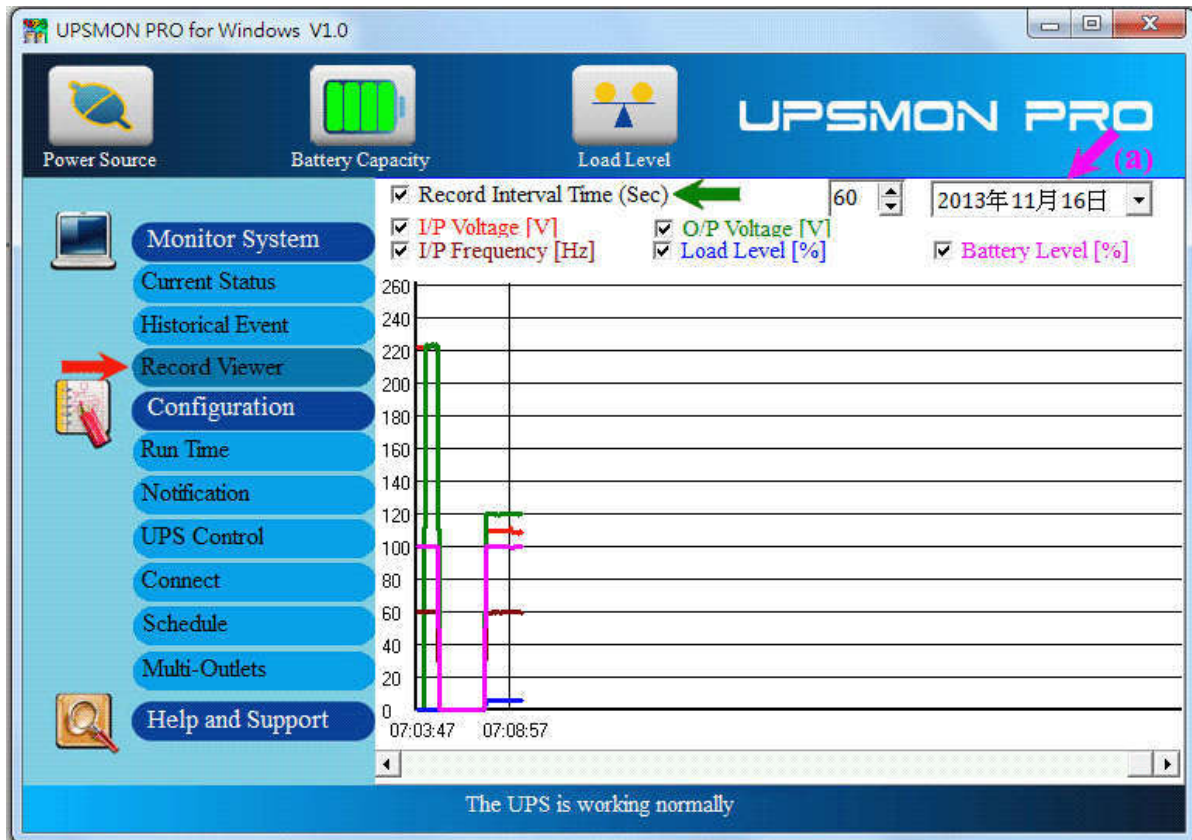
It displays all UPS events which have taken place

- Button : Historical Event



Checking Data Graph

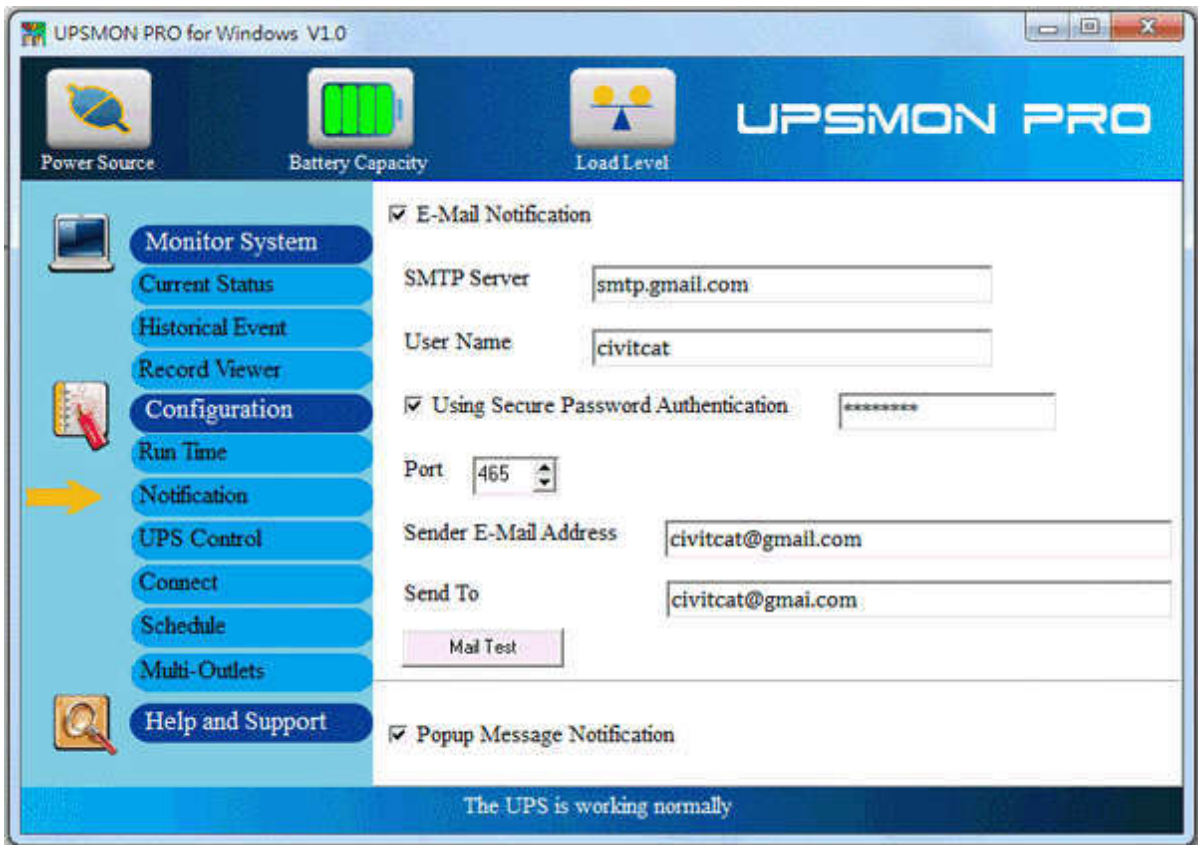
1. Button : Record View
2. It records and actively shows UPS information : I/P Voltage, I/P Frequency, O/P Voltage, and Battery
3. As well you can check up the historical records by the calendar **(a)**



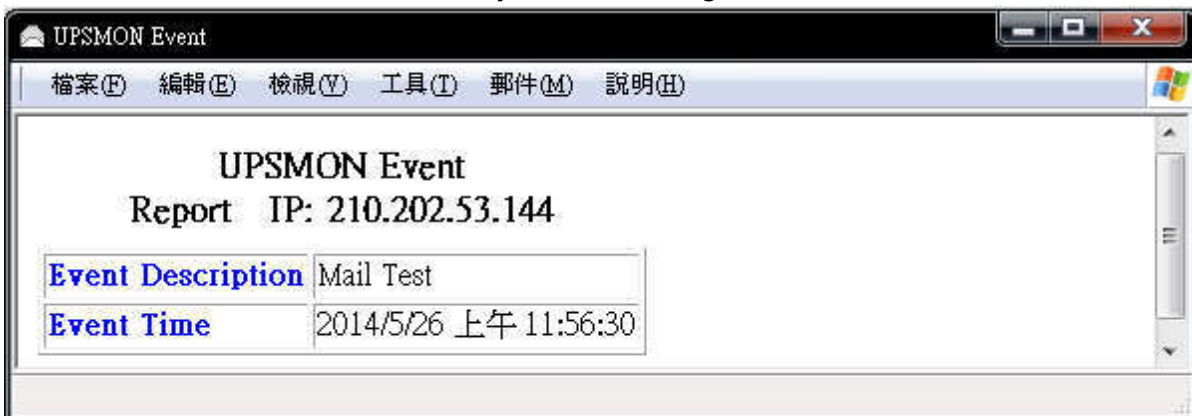
Configure E-mail notification feature

It supplies an active E-Mail notification

1. Button : Notification
2. Enable this function
3. Enter your SMTP Mail server's information (ex : SMTP Server, User name, Port, Authentication, Sender's mail, Receiver's mail)



4. With Mail Test button, it can check your mail configuration and connection



NOTE : This feature requires your e-mail account support SMTP Server

UPS Control

Battery Test / Green Mode / Silence / Outlet Control

1. Battery Test : It is important to perform UPS self tests to assure that the UPS and batteries are working properly to protect your PC and connected peripheral devices
 - 10 Seconds Test : the UPS output will change to exhaust the battery power for a brief period
 - Test For Specified Time Period (Min) : exhaust the battery capacity for this period of time

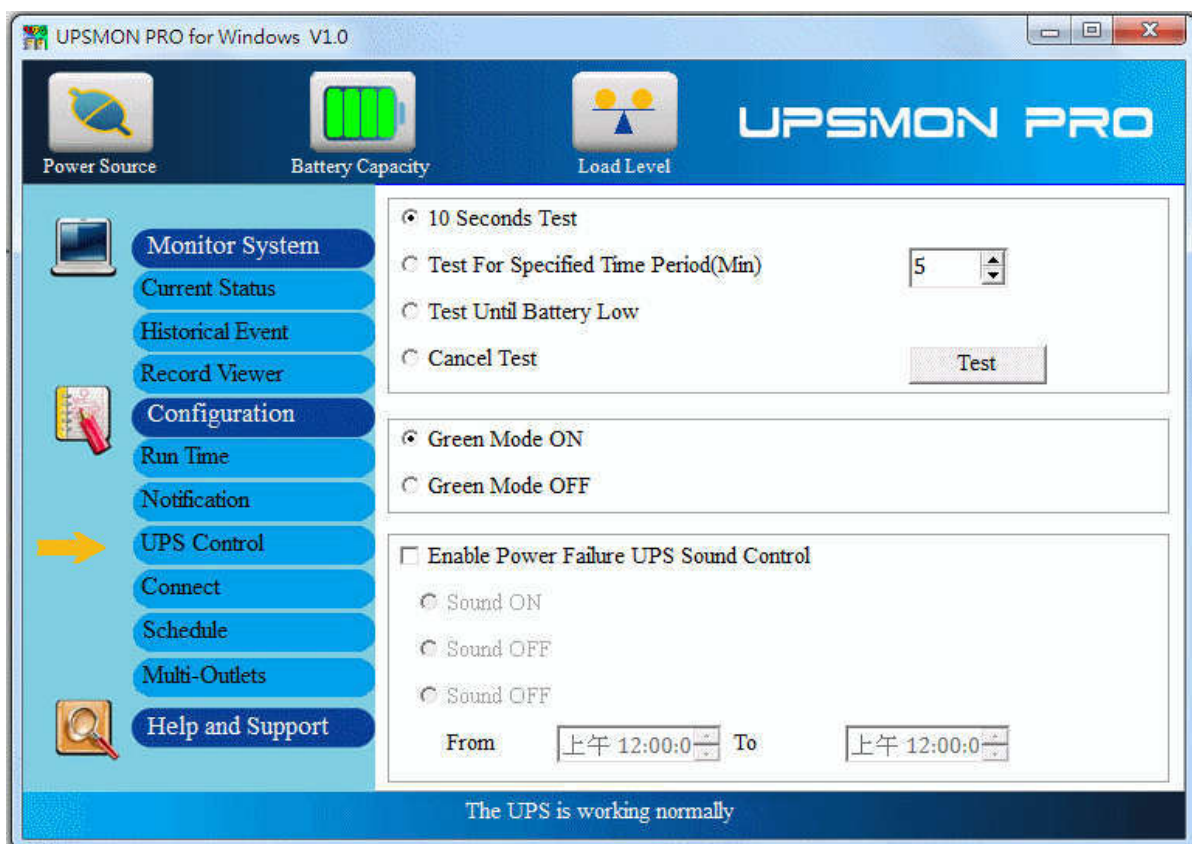
- Test Until Battery Low : exhaust the battery capacity to battery low condition
- Cancel Test : Stop battery testing

2. Green Mode

- Green Mode ON : Once the blackout occurs and load is low, the UPS automatically turn its off
- Green Mode OFF : UPS will sustain the power to its limit

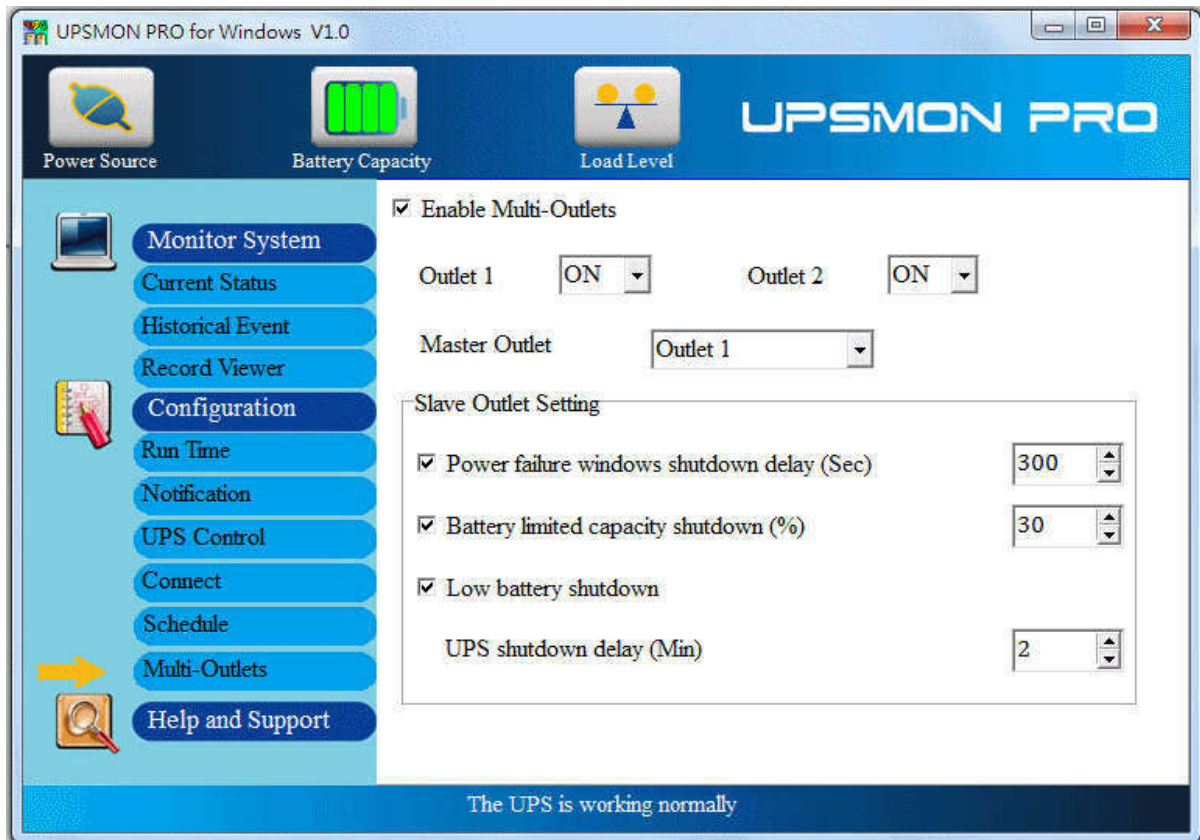
3. Silence

- Click the button : Enable Power Failure UPS Sound Control
- Sound ON : It beeps when power failure occurs
- Sound OFF : It keeps silence even power failure occurs
- Sound OFF : UPS have a specific time span to stop beeping



Multi Outlets Control

1. Button : Multi - Outlets
2. Turn ON/OFF the outlets power directly
3. Set up the UPS-Outlet shutdown sequence for blackout condition



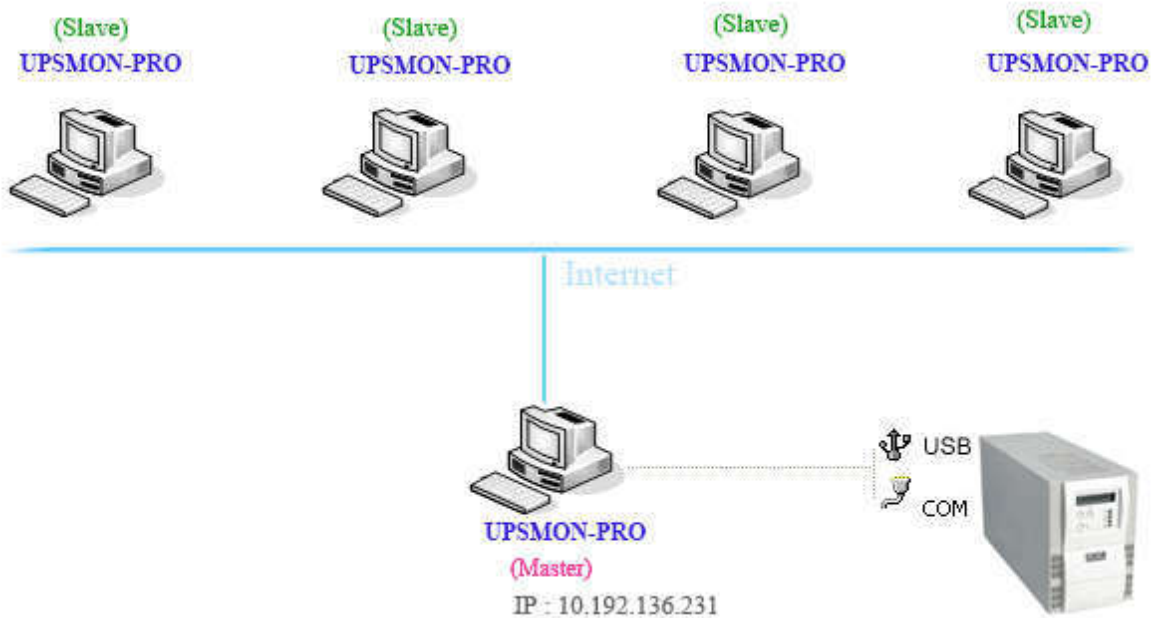
NOTE: This feature requires the specific UPS to support

Multi OS Connect

The UPSMON-PRO can play the role as Master or Slave

1. UPSMON-PRO Master

- The PC who physically connects to UPS via RS232/USB plays the role as Master
- Master can share the UPS status to the other Slaves
- Ex : 10.192.136.231 (Master's PC IP address)

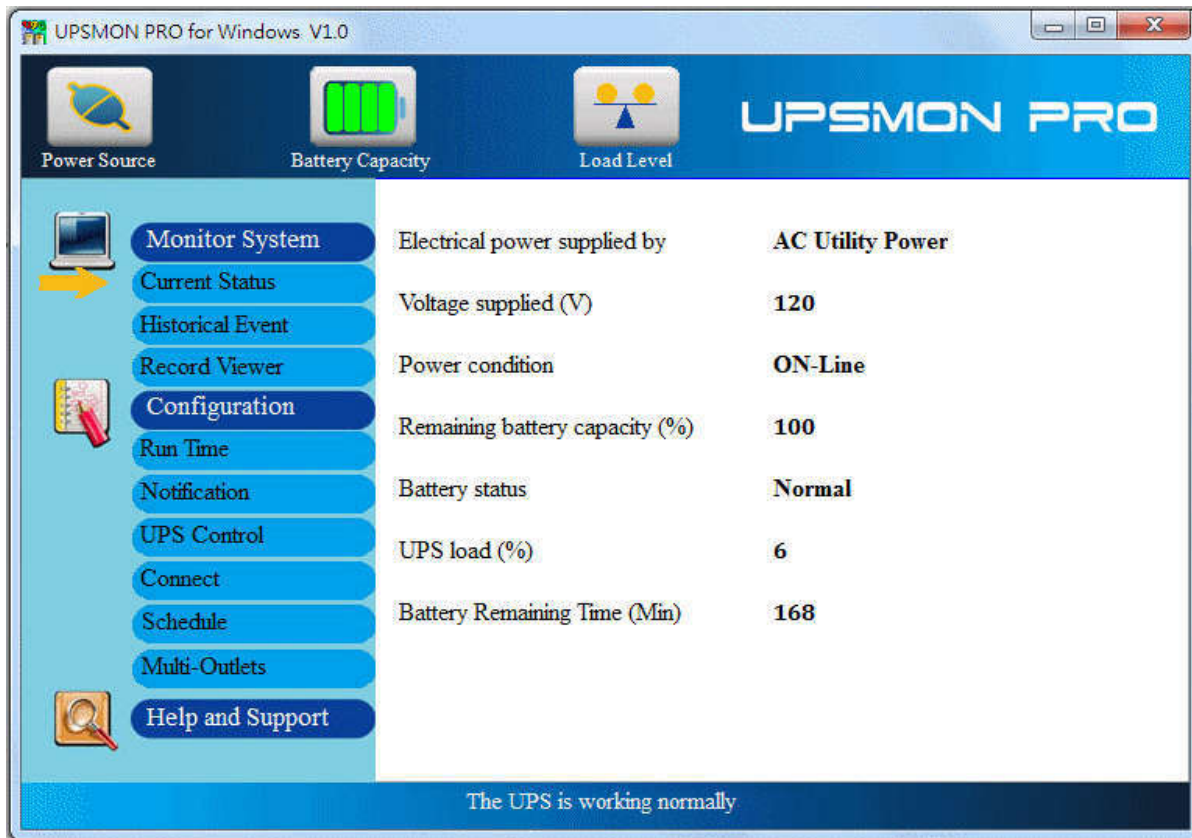


2. UPSMON-PRO Slave

- By ways of the Internet / Intranet and UPSMON-PRO Master
- All the other PC get the connection from UPSMON-PRO Master
- And the UPSMON-PRO Slaves can do any behavior like Master (Ex : Shutdown Slave-PC)
- Choose UPSMON-PRO with Master IP address



And then you would get the status of UPS



3. UPSMON-PRO-for-Linux **Slave**

- By ways of the Internet / Intranet and UPSMON-PRO Master
- All the other PC get the connection from UPSMON-PRO Master
- Execute the UPSMON-PRO-for-Linux application : **./upsmon**
- Choose UPSMON-PRO with Master IP address
- UPSMON : Start Monitor ==> It means the connection is successful

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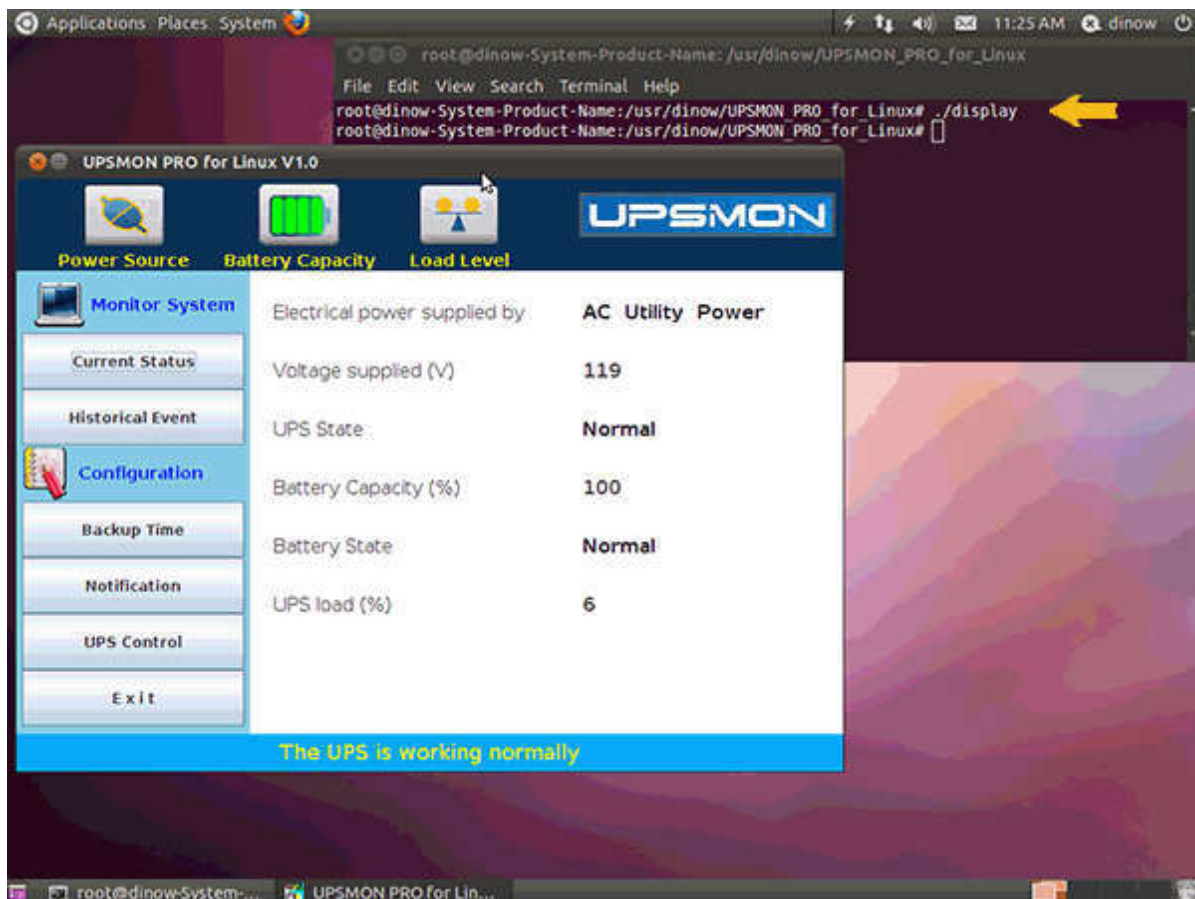
root@dinow-System-Product-Name: /usr/dinow/UPSMON_PRO_for_Linux
File Edit View Search Terminal Help

root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# ./upsmon
a. What is the UPS connection: 1.RS232 2.USB 3.SNMP-Card 4.UPSMON-PRO : 4
b. The IP address of UPSMON-PRO : 10.192.136.231
c. Seconds of OS shutdown delay (default : 120) : 180
d. Would you need to reset (N or y) :

root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# UPSMON : UPSMON Start
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# UPSMON : Start Monitor
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux#
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux#

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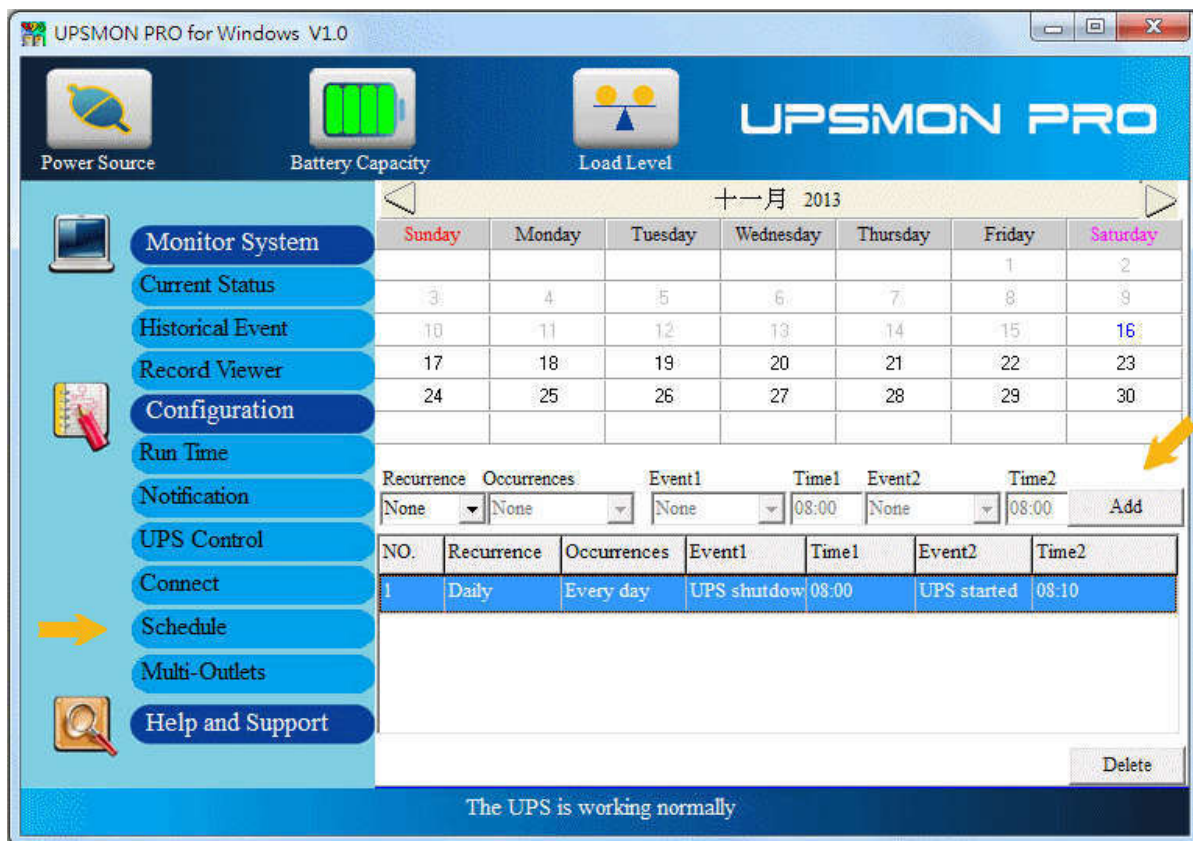
- You can check the UPS status with X-Windows by executing display application : **./display**



NOTE : Mutually network connection is necessary for this function

UPS Schedule

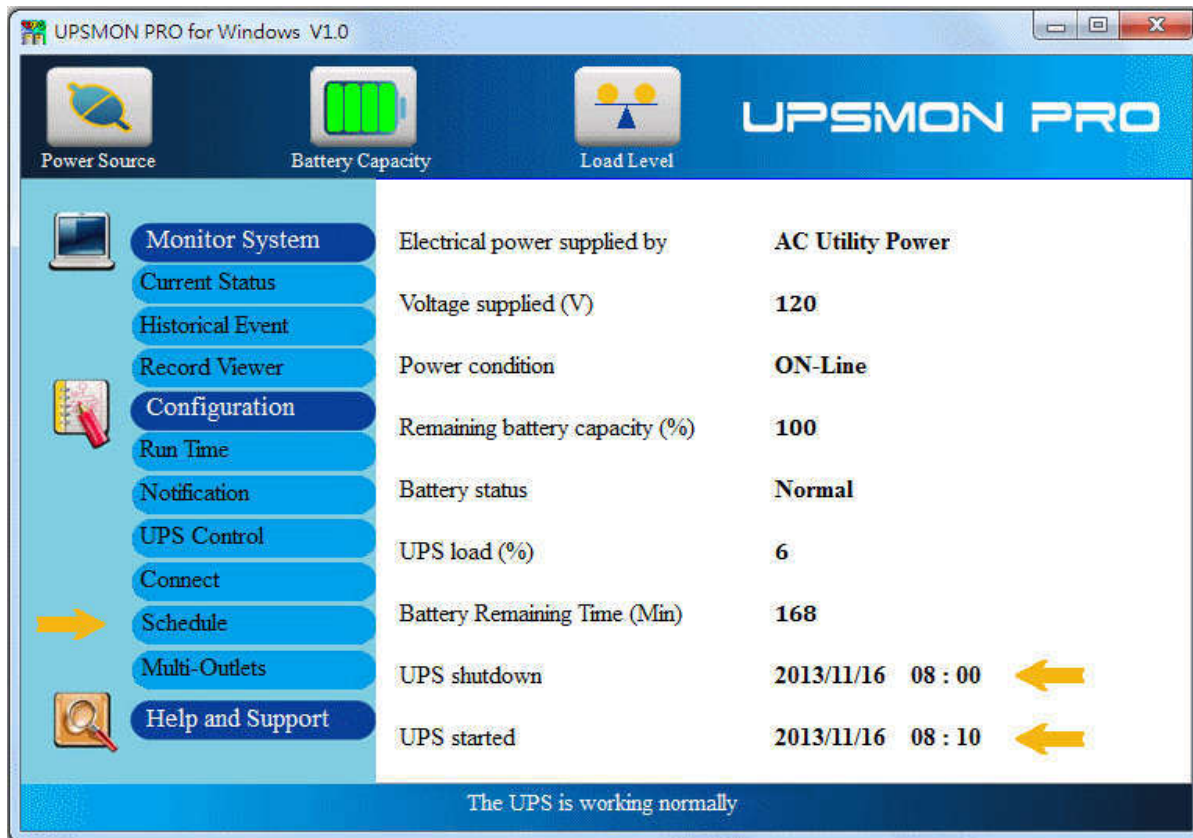
It helps you to have an automatic UPS OFF / ON / Battery self test



1. Button : Schedule
2. Recurrence & Occurrences : Once / Daily / Weekly / Monthly
3. Event : UPS shutdown / UPS start / Battery Test
4. If you set up the UPS shutdown, all the other UPSMON-Slaves will execute OS shutdown earlier **30** seconds than UPSMON-Master

 NOTE : The time of UPS shutdown must be earlier than UPS start

5. You can check the last UPS schedule for the current status



<EX> UPS down time : 2013 / 11 / 16 08:00 ---- UPS start time : 2013 / 11 / 16 08 : 10

1. 2013/11/16 -- 07 : 59 : 30 ==> Pop up 30 seconds count down message
2013/11/16 -- 07 : 59 : 30 ==> All the other UPSMON-PRO Slaves start to shutdown OS
2. 2013/11/16 -- 08 : 00 : 00 ==> UPSMON-PRO Master start to shutdown OS
3. After "**(f)** [UPS shutdown Delay](#)" minutes ==> UPS stop supplying power
4. 2013/11/16 -- 08 : 10 : 00 ==> UPS start to supply the power

UPS Web Portal

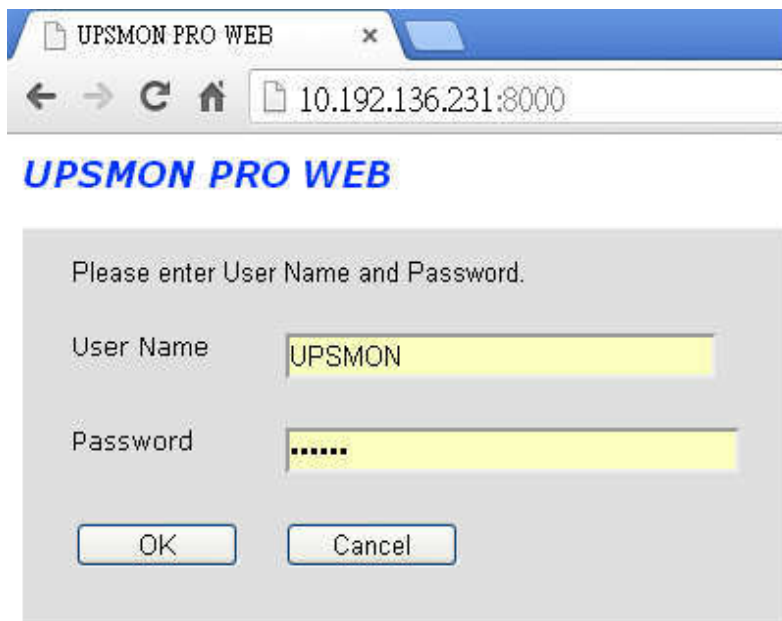
Remotely monitoring the UPS via browser :

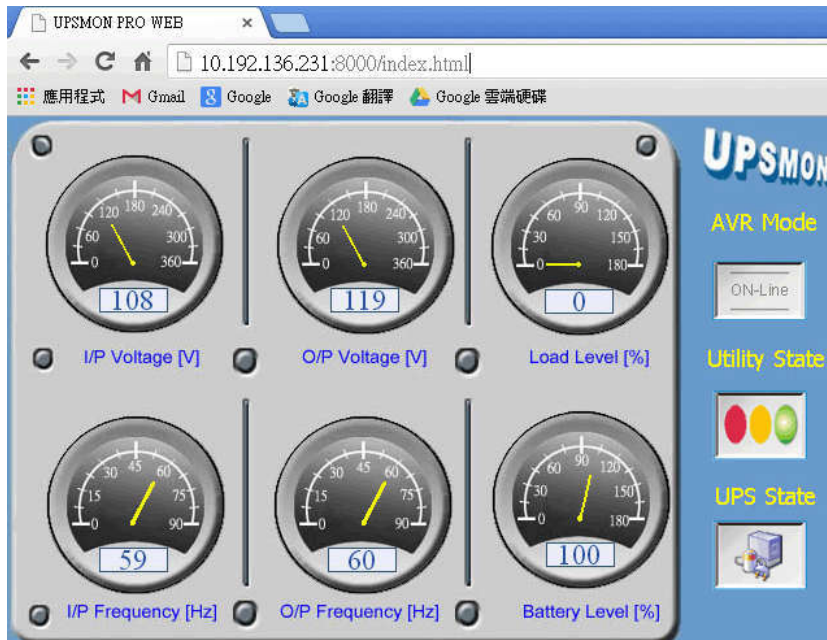
1. Button : Connect
2. **(a)** Enable Web Server UPSMON Function
3. IP Address : Make sure this Windows has a IP address (ex : 10.192.136.231)
4. **(b)** Port : 8000 default
5. **(c)** User Name : UPSMON default
6. **(d)** Password : UPSMON default

NOTE: This feature requires your Windows have a connectable IP address



Example : Google Chrome





Setting PC BIOS to enable Windows start-up

Your PC BIOS needs to be set up to a Power On state to support automatically PC start-up. Basically, you need to enter the PC BIOS Setup screen and then select the Power On setting to be the default. :

1. Restart your PC
2. When the PC brand logo screen appears, press the correct key on your keyboard to open to the BIOS Setup window. For general PCs, press the **delete** key
3. Use your arrow keys on the keyboard to select the correct power option
4. Select the correct setting to enable PC power always on. For general PCs, use your arrow keys to **enable** "Restore on AC Power Loss"
5. Save your changes

NOTE: Each PC varies in how to enter and make changes to the BIOS settings
