



SNMP Web Server

User's Manual

Management Software for Uninterruptible Power Supply Systems

NEXT UPS Systems
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Table of Contents

1. Overview	3
1.1 Introduction	3
1.2 Features	3
2. SNMP web server GUI	4
3. Function Menu	5
3.1 Information	5
3.2 UPS setting	6
3.3 Control	8
3.4. System configuration	9
3.5. Log	13

1. Overview

1.1 Introduction

It can provide web server to monitor and manage multiple UPSs in a networked environment including LAN and INTERNET via SNMP web card. It can detect temperature and humidity for the environment via connecting to EMD (Environmental Monitoring Device). Integrated with Shutdown Wizard, it can not only prevent data loss from power outage and safely shutdown systems, but also store programming data and scheduled shut down the UPS. All UPS warning and fault event records can be kept in SNMP web card. Refer to diagram 1-1:

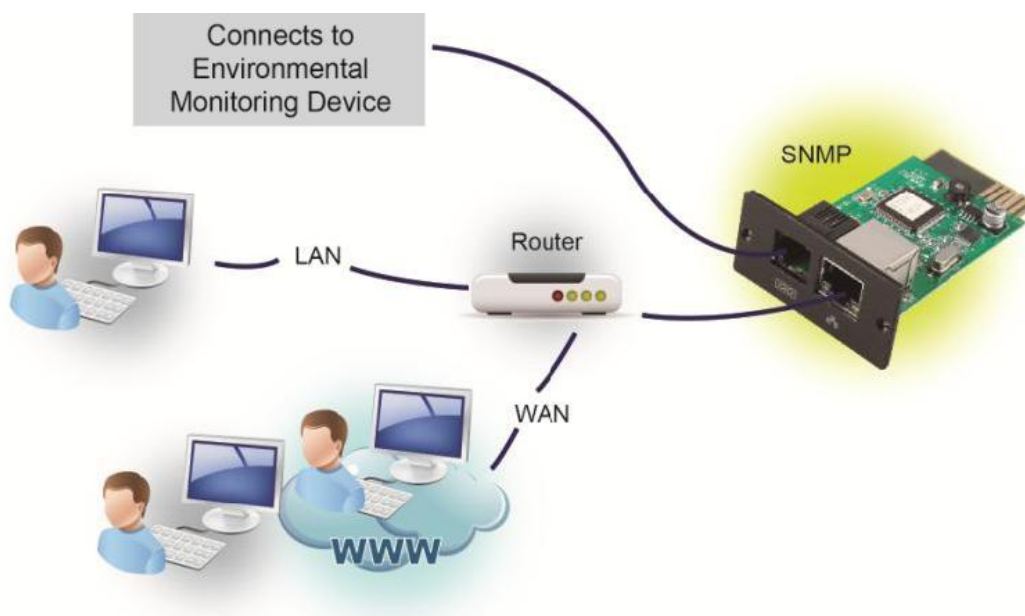


Diagram 1-1

1.2 Features

- Open monitor via Web Browser.
- Offer SNMP MIB to monitor UPS status.
- Automatically detect and exchange 10M/100M Fast Ethernet.
- Support wake on LAN function.
- Support protocol such as TCP/IP, UDP, SNMP, SMTP, HTTP and so on.
- Integrated with Shutdown Wizard can prevent data loss from power outage and safely shutdown systems.
- Store UPS warning, fault and EMD warning.

2. SNMP web server GUI

SNMP web server GUI includes function menu, login section and main screen.
Refer to diagram 2-1:



Diagram 2-1

A .SNMP web server version

B .Function Menu

It offers complete tool-set for navigation and setting the GUI.

C .Main Screen

It will display information and/or control alternatives according to function menu selected.

D. Login section

It shows user type for current login user. The default password is "12345678".

3. Function Menu

3.1 Information

3.1.1. Status

Select Information >> Status. Refer to diagram 3-1. It's shown real-time monitored UPS data including input, output, UPS, and battery information in table format.



Diagram 3-1

3.1.2. Basic information

Select Information>>Basic information. It includes UPS basic information, battery information, and UPS rated information. Refer to diagram 3-2.

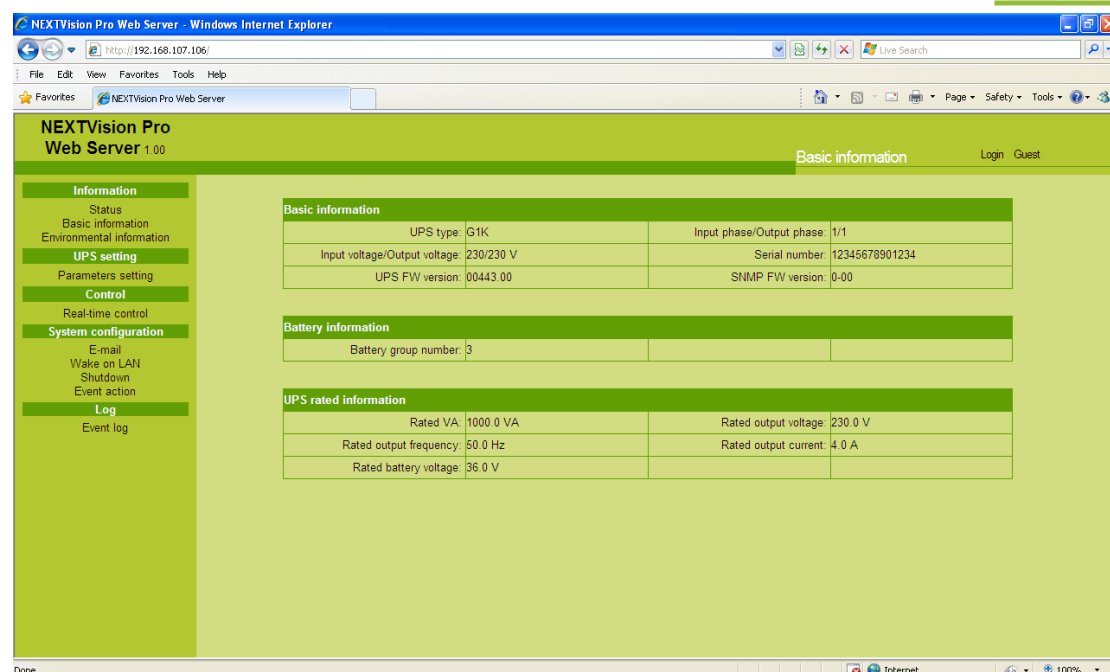


Diagram 3-2

3.1.3. Environmental information

Select Information >> Environmental Information. In the Environmental information window, it shows the current temperature and humidity. Refer to diagram 3-3.

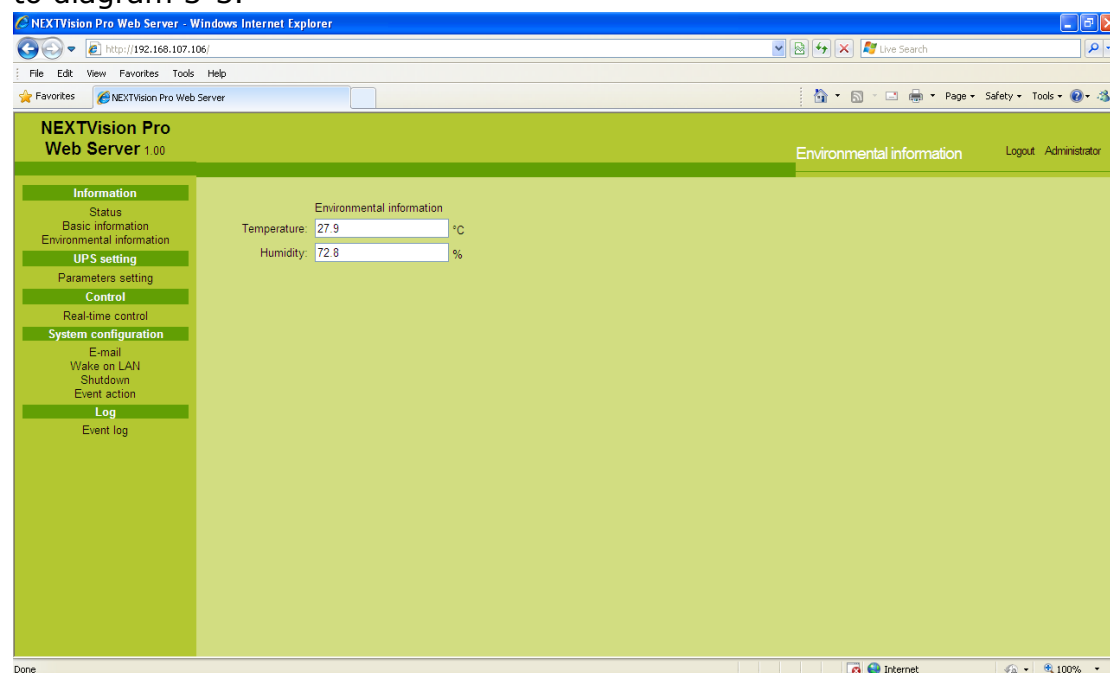


Diagram 3-3

3.2 UPS setting

3.2.1 Parameters setting

Some UPS functions can be set and changed via software. Parameter setting includes backup time setting for programmable outlet (P1), battery number

setting, voltage and frequency range setting for bypass mode, and voltage range setting for ECO mode.

Select UPS setting >> Parameters setting. Refer to diagram 3-4.

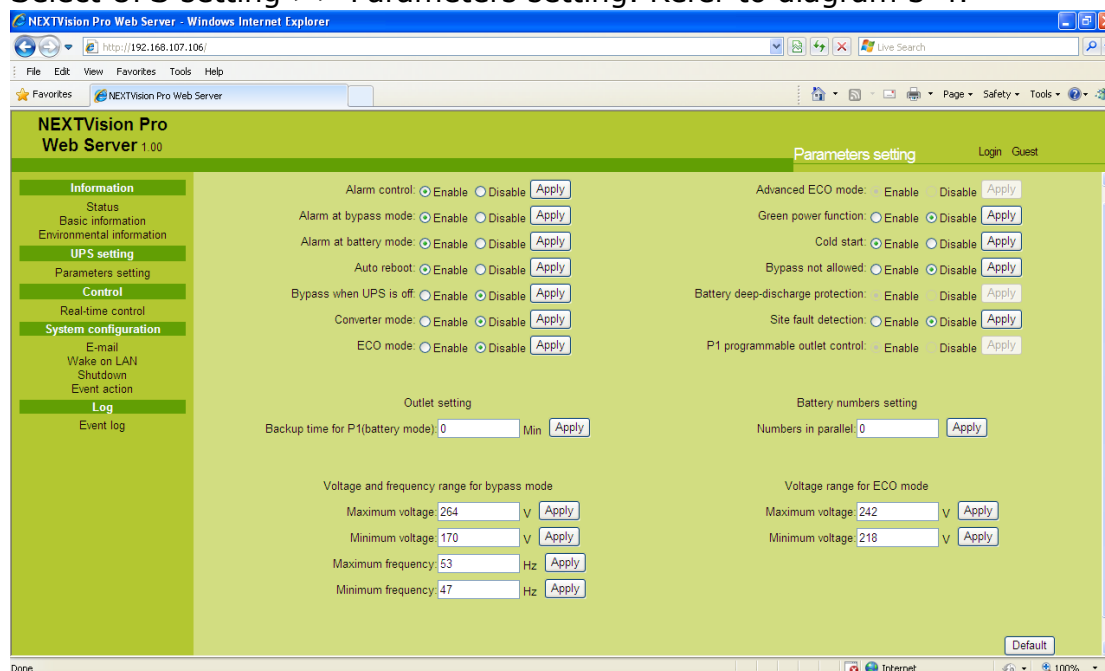


Diagram 3-4

Note: Different UPSs may access different parameter setting.

1. Select the functions by clicking "Enable" or "Disable" button. Change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
2. Click "Apply" button to save the settings. Each function setting is saved by clicking "Apply" button in each section.
3. Click "Default" button to recover the default setting.

Note: Any functions which are not supported by UPS will not be able to access.

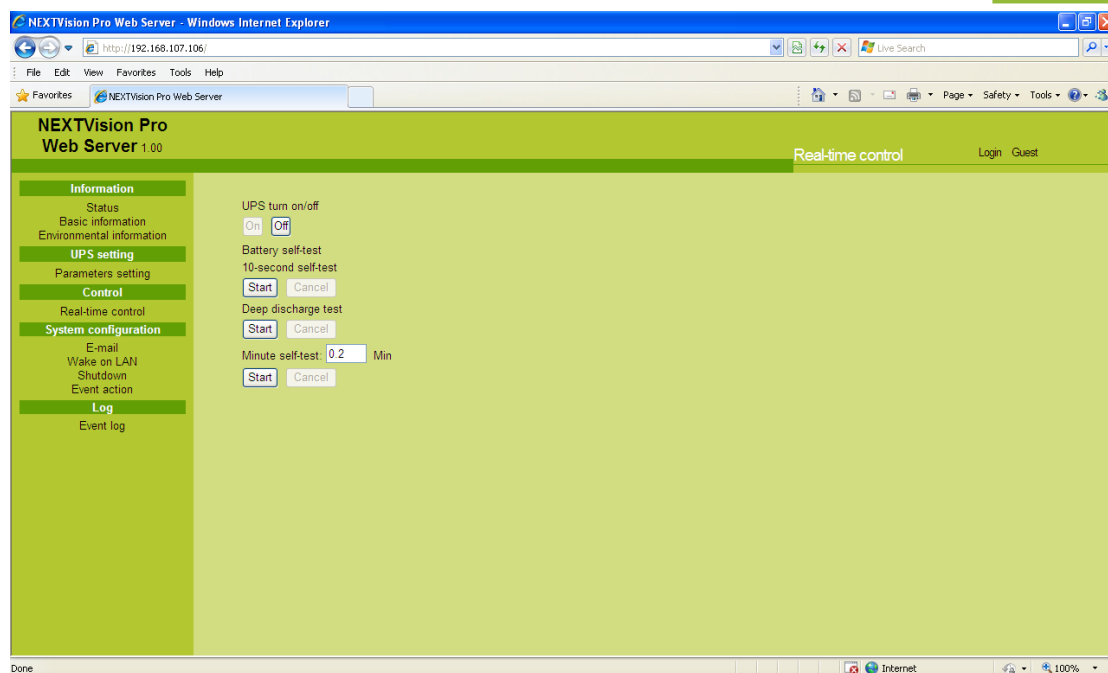
- Alarm Control: If enabled, UPS alarm will be activated. Vice versa.
- Alarm at bypass mode: If enabled, UPS alarms when it's working at bypass mode. Vice versa.
- Alarm at battery mode: If disabled, UPS will not alarm when it's working at battery mode. Vice versa.
- Auto reboot: If enabled, UPS will auto recover when AC is recovering. Vice versa.
- Bypass when UPS is off: If enabled, AC will directly provide power to connected devices when UPS is off. Vice versa.
- Converter mode: If enabled, the UPS will operate in converter mode. Vice versa.
- ECO mode: If enabled, the UPS will operate in ECO mode when input voltage is within acceptable range. Vice versa.
- Battery open status check: If enabled, the monitored UPS will check if the battery connection ok or not when UPS is turned on.

- Cold start: If disabled, the UPS can be turned on only when AC is normally connected to UPS. Vice versa.
- Bypass not allowed: If enabled, the UPS will not transfer to bypass mode under any conditions. If disabled, the UPS will be allowed to transfer to bypass mode according to UPS internal setting.
- Battery deep-discharge protection: If enabled, the monitored UPS shutdown in accordance with the condition of battery and load on battery mode to protect battery. Vice versa.
- Site fault detection: If enabled, the monitored UPS will beep when the input neutral and hot wires are reversed. Vice versa.
- P1 Programmable outlet control (battery mode): If enabled, when UPS is running at battery mode, it will cut off P1 outlets after backup setting time arrive. If disabled, UPS will provide continuous power to P1 outlets until the battery is running out.
- Outlet setting: Users can set limited backup time for P1 outlets when UPS is on battery mode.
- Battery numbers setting: Set battery numbers in parallel.
- Voltage and frequency range for bypass mode: Set acceptable voltage and frequency range in bypass mode
 - ✧ Maximum and minimum voltage: When UPS is on bypass mode and input voltage is out of setting range, UPS will enter battery mode.
 - ✧ Maximum and minimum frequency: When UPS is on bypass mode and input frequency is out of setting range, UPS will enter battery mode.
- Voltage range for ECO mode: Set acceptable voltage range for ECO mode.

3.3 Control

3.3.1. Real-time control

Select Control >> Real-time control. Refer to diagram 3-5.

**Diagram 3-5**

You can real-time control the UPS by executing following operation:

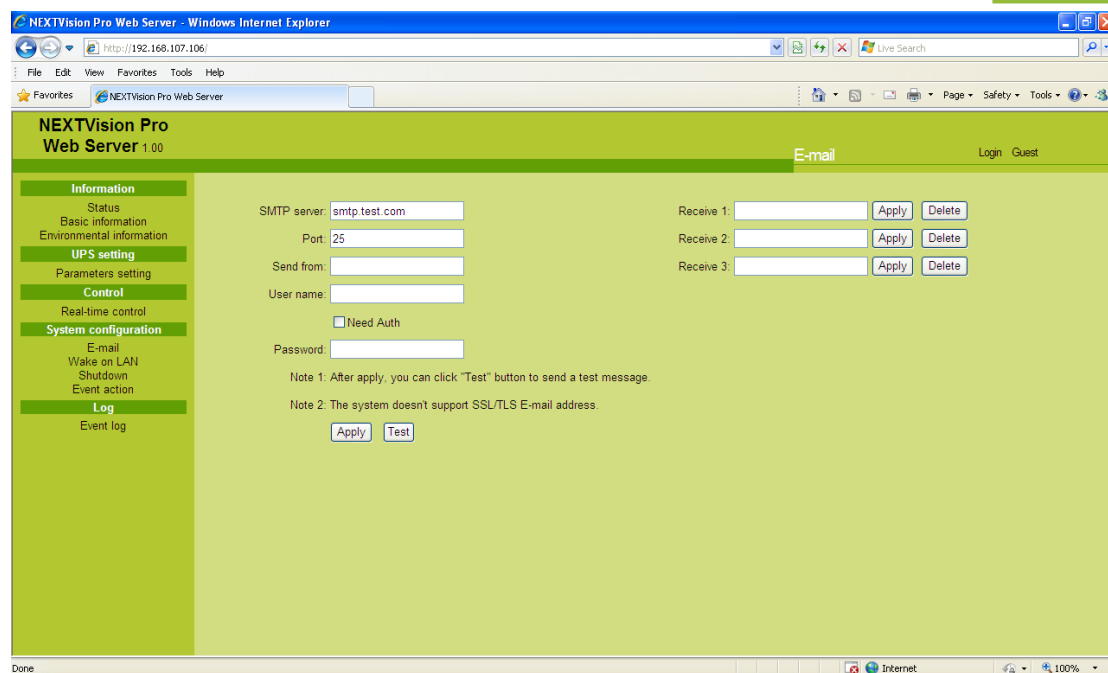
- UPS turn On/Off: Click "On" to turn on the UPS and "Off" to turn off the UPS immediately.
- Battery Self-Test: It offers three types of battery self-test: 10-second self-test, deep discharge test, and self-defined self-test. Simply clicking "Start" button from each type. It will execute the self-test immediately.

3.4. System configuration

3.4.1. E-mail

It's allowed to send alarm mail by SMTP server. To use this function, the e-mail service must be correctly configured. All values in this function page are default empty. This action can't be executed without the SMTP information, e-mail account, and password. Besides, the sender account should be allowed for SMTP/POP3 forwarding.

Select System Configuration >> E-mail. Refer to Diagram 3-6

**Diagram 3-6**

1. Enter SMTP server, SMTP port, Send from E-mail address, User name and password. Click checkbox of password authentication needed for password verify.
2. Enter correct e-mail accounts in Receive list. Then click "Apply" to add into receivers list. Click "Delete" button to delete e-mail account.
3. Click "Apply" to save the changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are successfully sent to specific recipients, it will pop up a successful message on operated PC. Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting.

3.4.2. Wake on LAN

It's to remotely wake on specific PCs in LAN.

Select System Configuration >> Wake on LAN. Refer to Diagram 3-7.

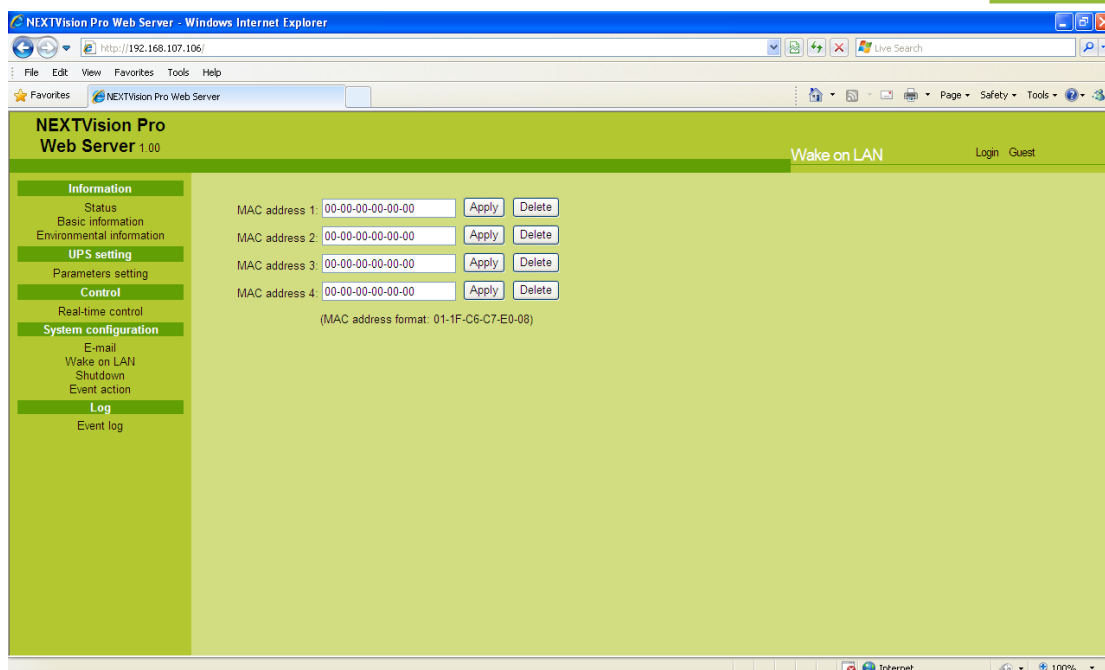


Diagram 3-7

After MAC addresses of remote PCs are entered into address column, it will allow to remote control the PCs. However, it's also required to have hardware support for remote PCs to implement this function.

3.4.3. Shutdown

It is to remotely shut down specific PCs with Shutdown Wizard. **This function is only available to integrate with Shutdown Wizard.**

Select System Configuration >> Shutdown. Refer to Diagram 3-8.

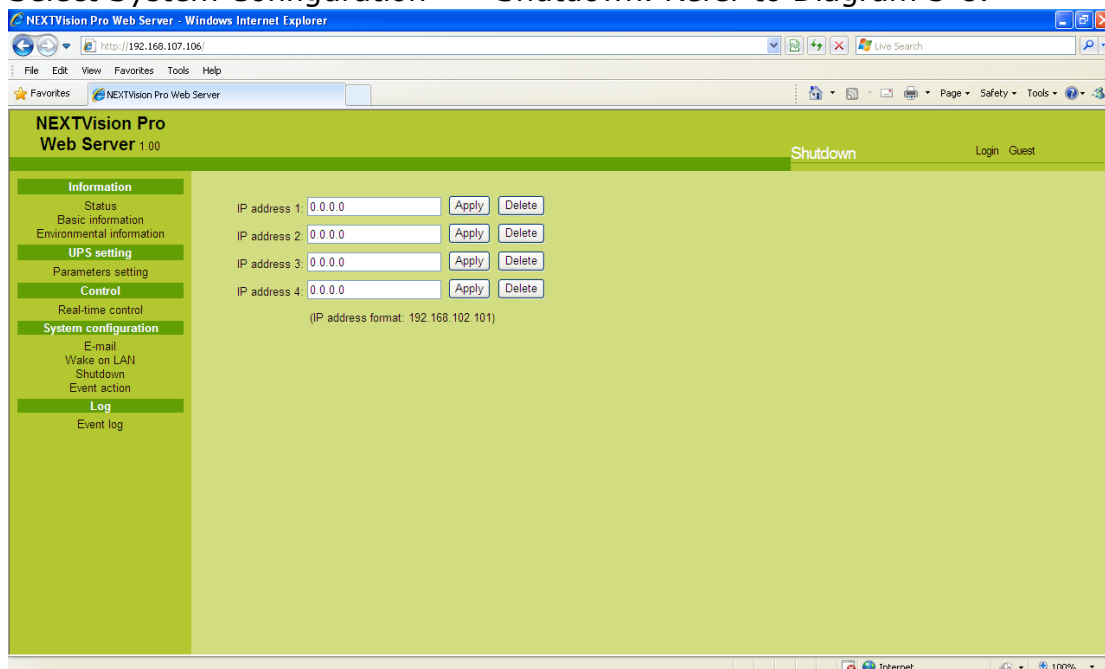


Diagram 3-8

3.4.4. Event action

This function is only available to integrate with Shutdown Wizard.

Select System Configuration >> Event action. Refer to Diagram 3-9.

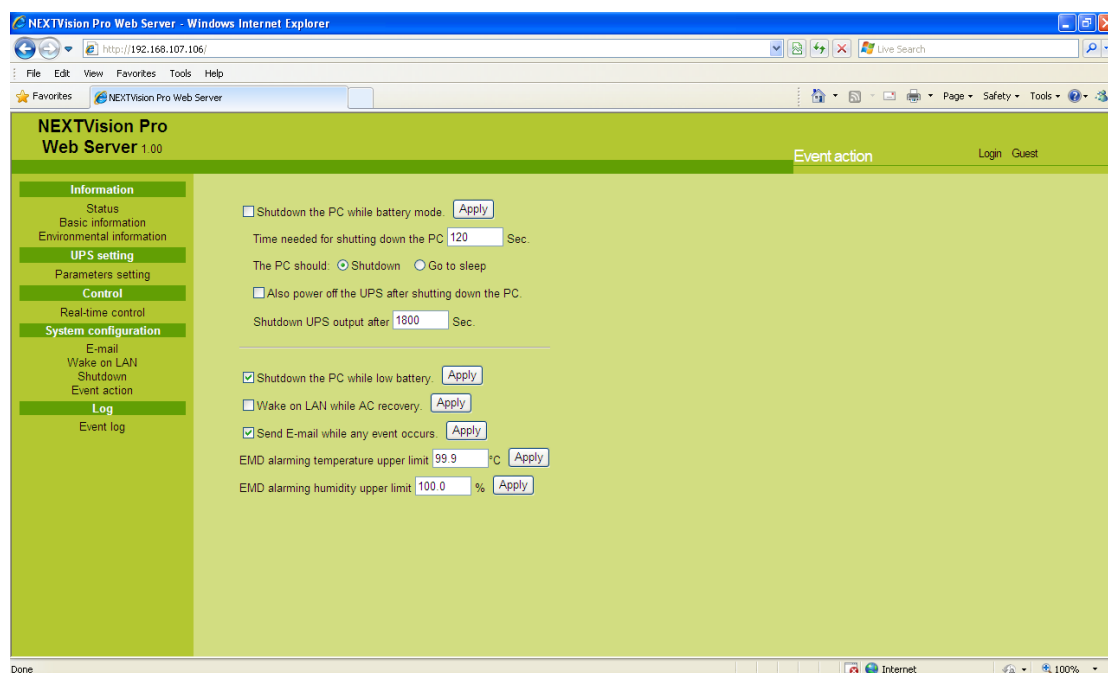


Diagram 3-9

- Shutdown the PC while battery mode: Integrated with Shutdown Wizard, local PC will shut down while UPS works on battery mode when clicking the checkbox.
- Time needed for shutting down the PC: Enter the delay time to shut down the operating system.
- The PC should:
 1. Shutdown: When clicking the checkbox, the selected system will shut down. The default setting is clicked.
 2. Sleep mode: When clicking the checkbox, selected system will suspend the system instead of a normal shutdown. But this function is only supported by Windows 2000 or higher on supported hardware.
- Also shutdown the UPS after shutting down the PC: When click the checkbox, monitored UPS will shut down after local system shuts down. The UPS shutdown time will be later than system complete shutdown time. The users can choose to shut down the system without shutting down the UPS.
- Shutdown UPS after xx sec: When entering the waiting time, local PC will start to shut down after monitored UPS works on battery mode for xx sec.
- Local shutdown the PC while low battery: When clicking this checkbox, local PC will shut down when monitored UPS battery is running low.

- Wake on LAN while AC recovery: When clicking this checkbox, the local PC will be wake on LAN while AC recovery.
- Send E-mail while any event occurs: When clicking this checkbox, it will send alarm E-mail when any event occurs on the local UPS.
- EMD alarming temperature upper limit: Set up alarm for high temperature point. If detected temperature is beyond setting value, it will send alarm message.
- EMD alarming humidity upper limit: Set up alarm for high humidity point. If detected humidity is beyond setting value, it will send alarm message.

3.5. Log

3.5.1. Event log

In the Event Log window, it's shown all history events. The event log includes UPS warnings, fault info and EMD warnings. Refer to Diagram 3-10.

Select Log >> Event log.

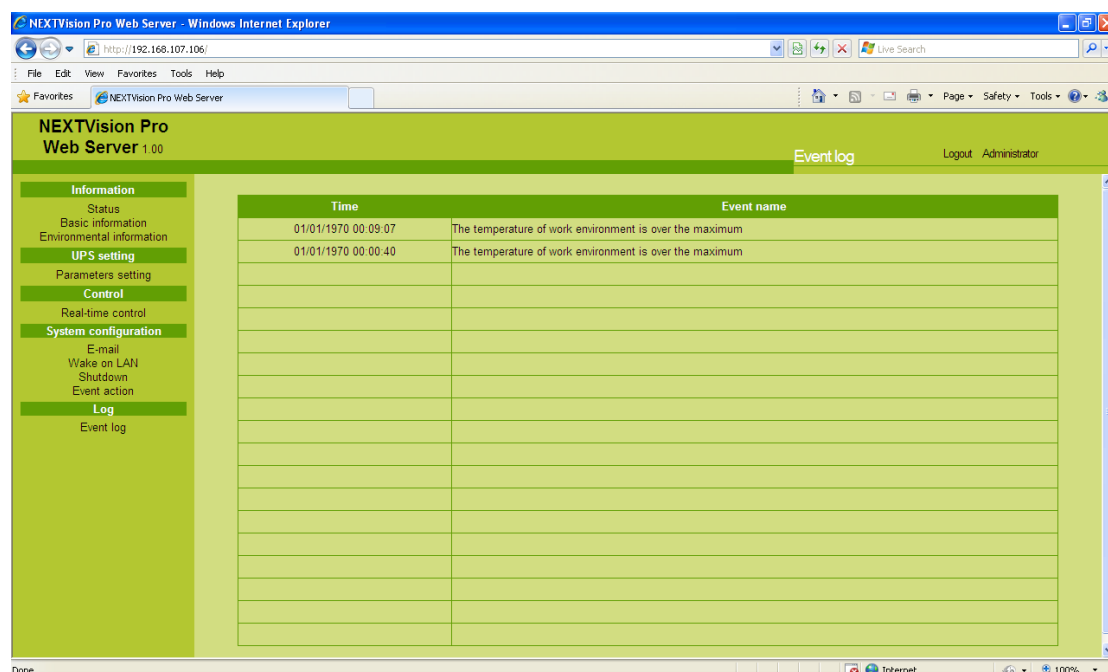


Diagram 3-10