

# **NetmateLite**

## **Basic Web-based SNMP Card for UPS**

### **Installation and Setting Instruction**

# Hello

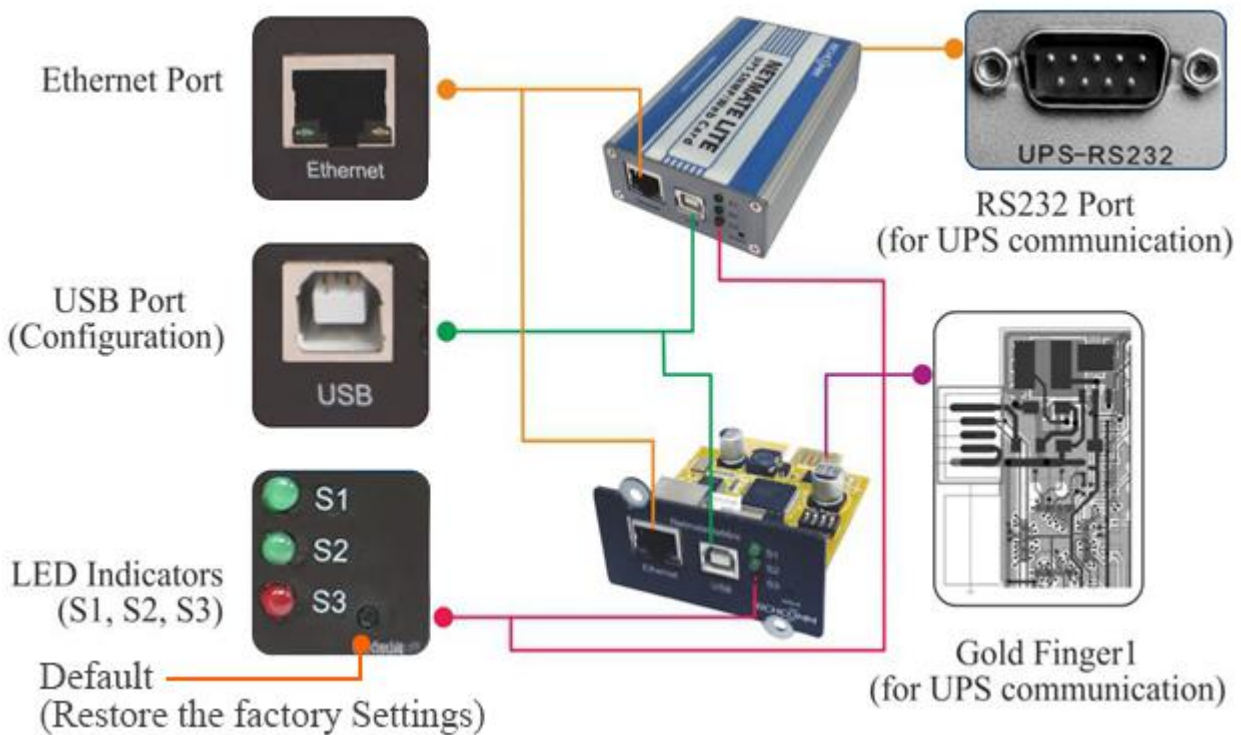
## Installation Requirement

- The monitored UPS with RS232 communication port or internal slot;
- The computer(best administrators computer) with Ethernet port
- A complete network environment.

**Note: Please read this user manual before installation.**

## 1. Ports Definition

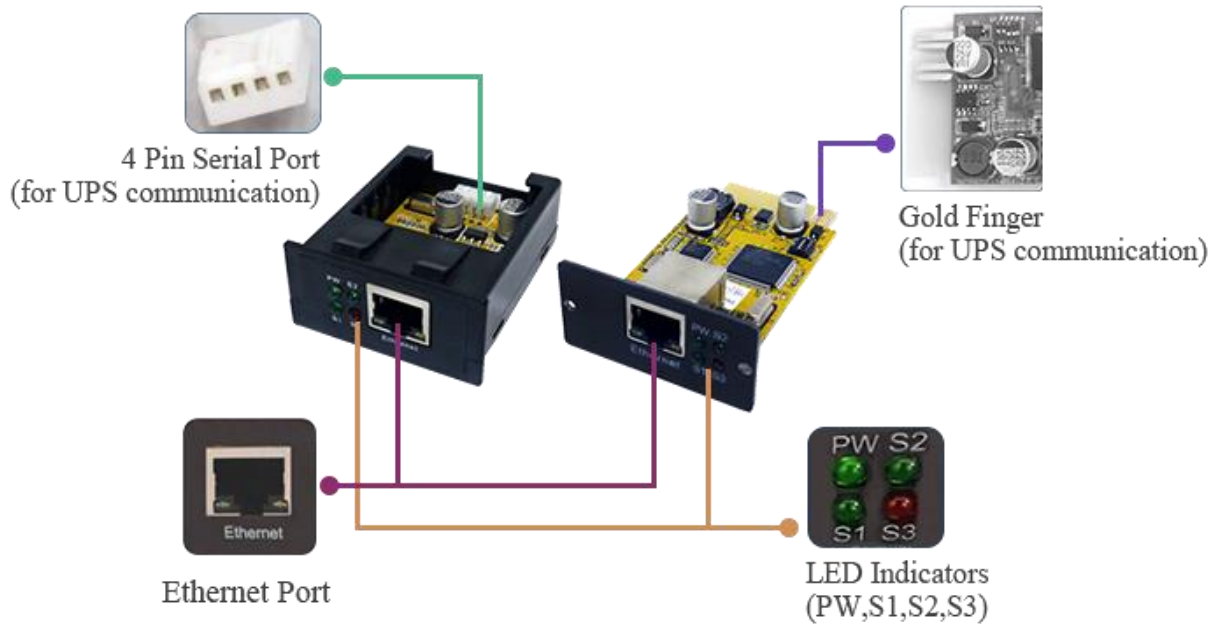
NetmateLite/NetmateLite Mini/NetmateLite SE Available



- ① Ethernet Port: UTP 10/100M RJ45 Ethernet port.
- ② USB Port: For initial configuration;
- ③ S1 (Green): Running indicator, flash is normal;
- ④ S2 (Green): SNMP running indicator, flash is normal, flash frequency is determined by SNMP inquire cycle;
- ⑤ S3 (Red): Device status indicator (red), continuous on shows connected well with UPS and have communication, flash shows device disconnected or communication failed;
- ⑥ Default: Factory default switch;
- ⑦ RS232 Port(External card): Connect with UPS;

- ⑧ Gold Finger: Insert in UPS internal slot;

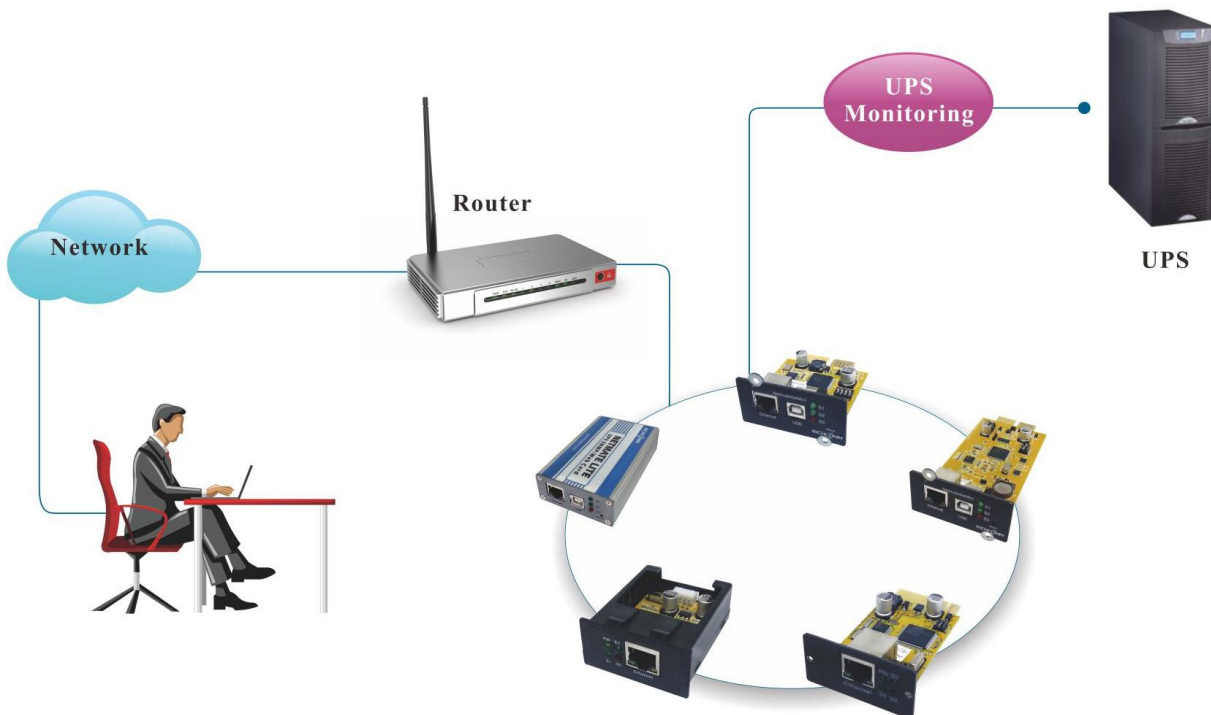
### NetmateLite Mini1/NetmateLite Mini2 Available



- ① Ethernet Port: UTP 10/100M RJ45 Ethernet port.
- ② PW (Red): Power status indicator, often light shows device power is connected, no light means not connect power.
- ③ S1 (Green): Running indicator, slow flash normal;
- ④ S2 (Green): SNMP running indicator, flash normal, flash frequency is determined by SNMP inquire cycle;
- ⑤ S3 (Red): Device status indicator (red), continuous on shows connected well with UPS and have communication, flash shows device disconnected or communication failed;
- ⑥ 4 Pin Serial Port: Connect with UPS;
- ⑦ Gold Finger: Insert in UPS internal slot;

## 2. Installation

### 2.1 Network Dirgram

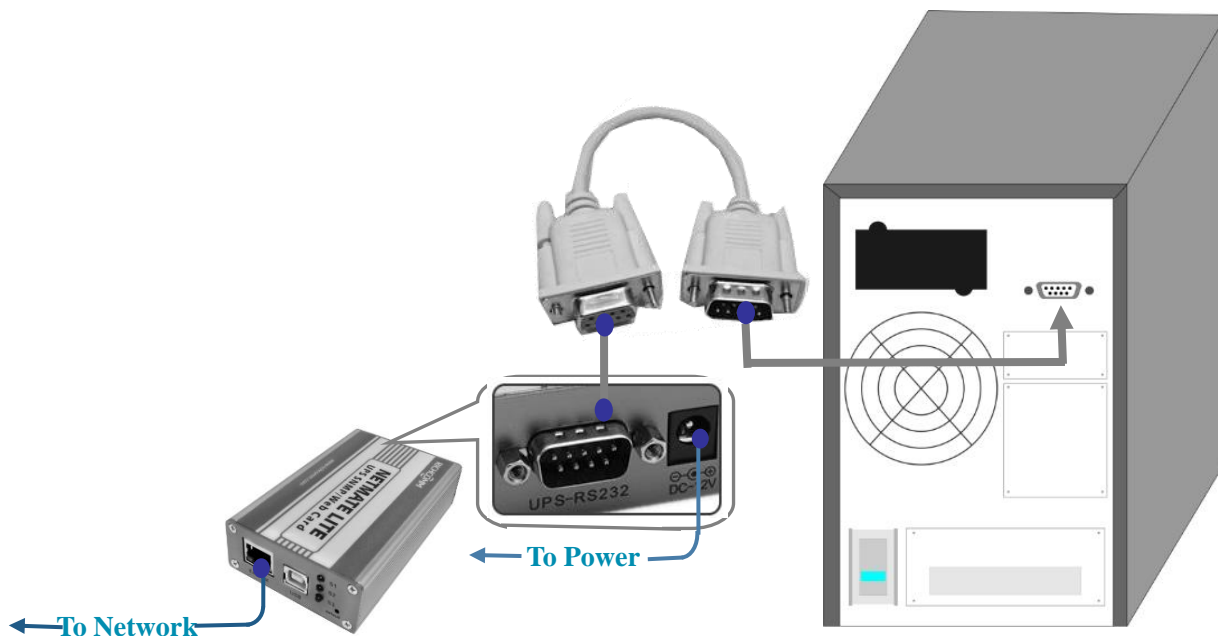


## 2.2 Hardware Installation

### External SNMP Cards

Procedure:

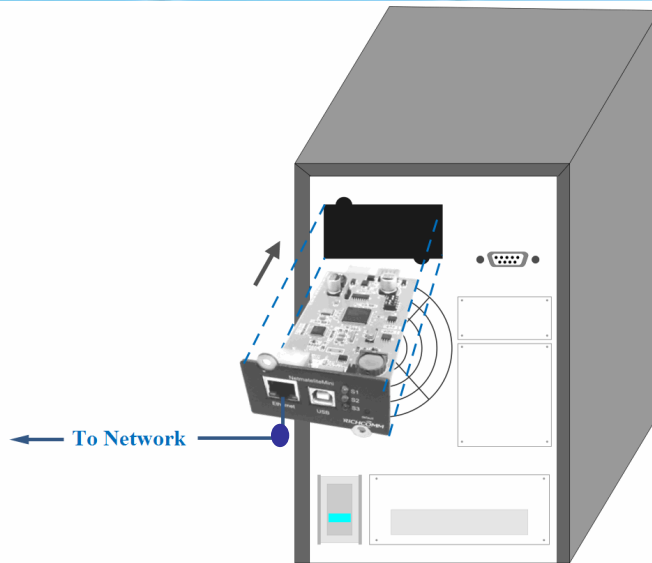
- ① Use DB9 pin cable connect external card with UPS by RS232 port
- ② Use T568B network cable connect to network
- ③ Use power adapter connect to power supply(12V DC)



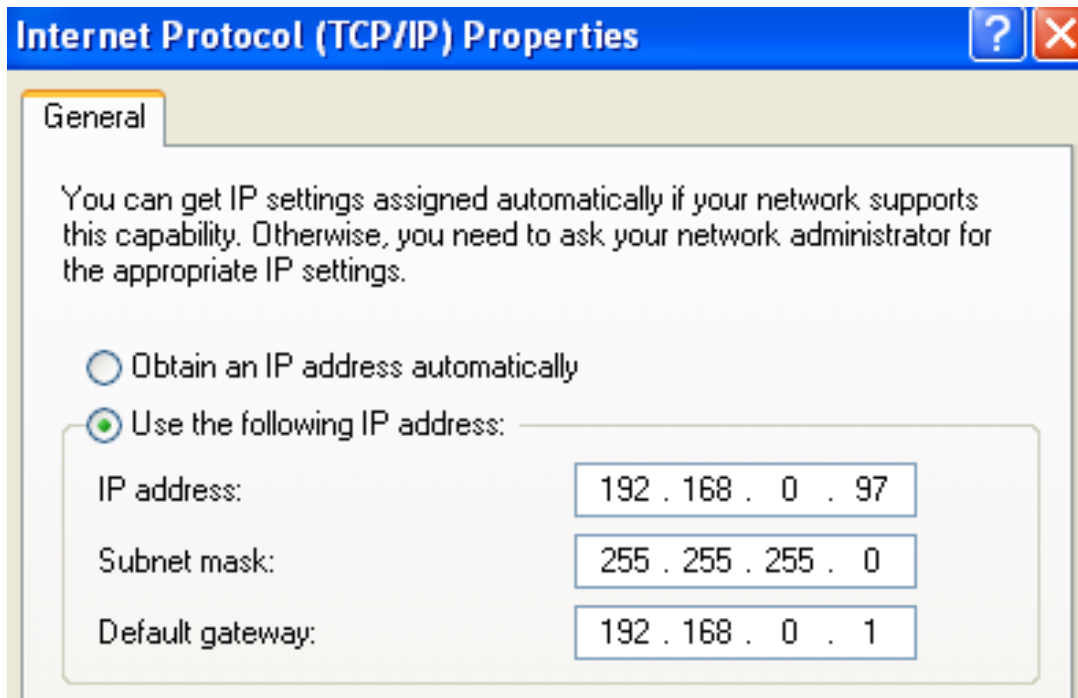
### Internal SNMP Cards

Procedure:

- ① Insert internal SNMP card to slot
- ② Use T568B network cable connect to network



### 2.3 Set Network Segment



For initial configuration, we should set a same network segment before login in web interface, the default IP address of SNMP cards are: 192.168.0.100, so network segment should be set like 192.168.0.XXX

## 2.4 Command “ping”

Before we input the user name and password, we can check the default IP address whether available in your network by command “ping”

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time=5ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\Documents and Settings\Administrator>
    
```

Ping Pass

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

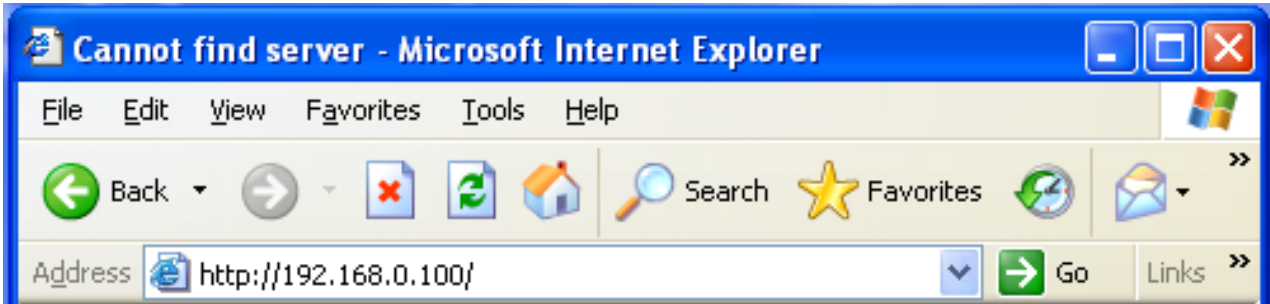
Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\Administrator>
    
```

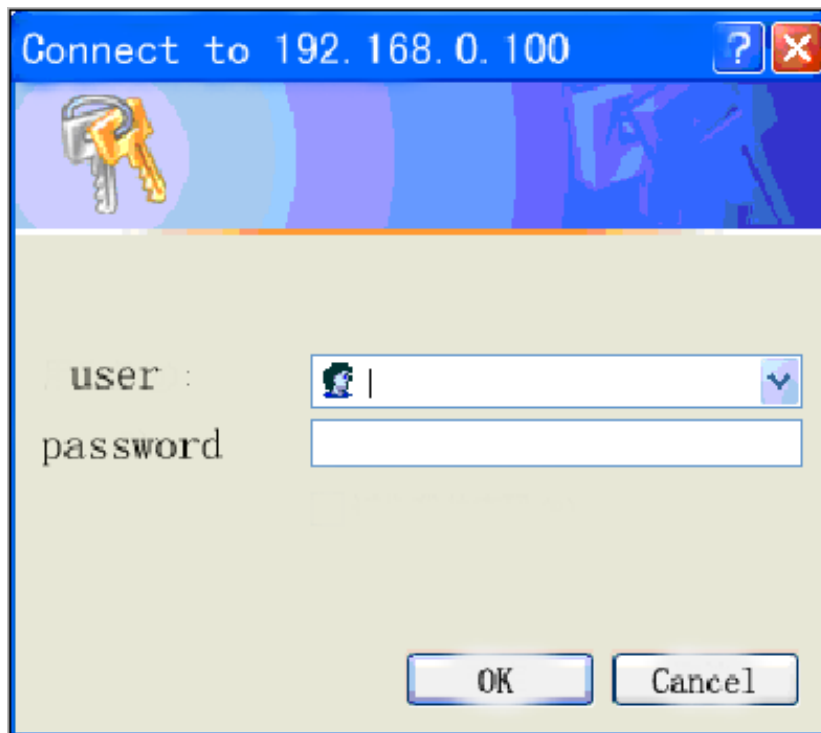
Ping Fail



## 2.5 Login Web Monitoring Interface



All above steps finished, open a web browser(suggest IE/firefox/chrome etc), input default IP address **192.168.0.100** and enter



Input user name and password , default user name & Password are both **“admin”**.

(Users can change the User name and Password by the post setting)

## 2.6 Web Monitoring Interface



The screenshot shows the NetmateLite web monitoring interface. On the left is a navigation menu with options: UPS Information (expanded), System Information, Device Information, Current Status, Remote Control, Parameter Settings, and History Record. The main content area displays system parameters and a bypass diagram.

Input Voltage:	223.2 V	Output Voltage:	219.1 V
Frequency:	49.9 Hz	Max Output Voltage:	219.1 V
Total Batt Voltage:	2.21 V	Min Output Voltage:	219.1 V
Battery Capacity:	90.0 %	Output Load:	53.0 %
Temperature:	58.6 °C		



### Current Running Status

Connection Status	Device Connection		
AC Status	AC Normal	Battery Status	Battery Voltage Normal
Running Status	Invert	UPS Status	UPS Normal
UPS Type	Online	Testing Status	Non-testing
On-Off Status	Normal Output	Beeper Status	Off

After input the user name and password, the monitoring homepage will come out soon, and then we can check the UPS current status and do other software setting

## 3. Software Setting Introduction

### 3.1 UPS Information

#### Sub-Menu:

- **System Information**
- **Device Information**
- **Current Status**
- **Remote Control**

#### 3.1.1 System Information

This page is to display UPS basic information and network information. The info shown here are provided by NetmateLite SNMP card itself and parameter settings

UPS Information	▼
System Information	
Device Information	
Current Status	
Remote Control	
Parameter Settings	>
History Record	>

### System Information

IP Address	Subnet Mask	Gateway	Product Serial Number	
172.16.88.25	255.255.255.0	172.16.88.1	00:0E:00:00:B3:16	

System Name	System Administrator	System Installation Path	Software Version	Hardware Version
			1.01-\$Rev: 725 \$-ISPR-592- RCEXV:2-0-0-0-1-Sep 9 2014	1.00
			16:46:54	

#### A, IP Address

This part will automatically display when users finish the [Network Setting]

#### B, Subnet Mask

This part will automatically display when users finish the [Network Setting]

#### C, Gateway

This part will automatically display when users finish the [Network Setting]

#### D, System Name

This part will automatically display when users finish the [SNMP Setting]

#### E, System Administrator

This part will automatically display when users finish the [SNMP Setting]

#### F, System Installation Position

This part will automatically display when users finish the [SNMP Setting]

#### G, Other information will be provided by NetmateLite monitoring system

### 3.1.2 Device Information

This part is to display each part of device information (UPS basic information, Battery Information and Rated Information). The contents will change according to user setting and UPS real status. UPS Manufacturer/Model/Version are provided by the UPS automatically.

- ☰ UPS Information ▾
  - System Information
  - Device Information
  - Current Status
  - Remote Control
- ⚙️ Parameter Settings >
- 📄 History Record >

### Device Information

Manufacturer	Model	Version
richcomm	UPS 5K-11A	Version1.0
Rated Output Voltage	Rated Current	Rated Battery Voltage
220.0	100	02.55
Rated Frequency	Baud Rate	Battery Quantity
50.0	2400	16

### 3.1.3 Current Status

This part is to display the UPS current running status. We can clearly know about the UPS current running status, when an abnormal alert happens, figures will turn in red font.

### Single-phase UPS Monitoring

NetmateLite

admin Welcome  
 Authorization: Manage  
 Time: 2012-4-19 23:39:58

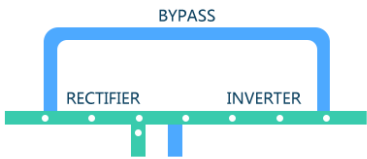
Input Voltage: 223.2 V

Frequency: 49.9 Hz

Total Batt Voltage: 2.21 V

Battery Capacity: 90.0 %

Temperature: 58.6 °C



Output Voltage: 219.1 V

Max Output Voltage: 219.1 V

Min Output Voltage: 219.1 V

Output Load: 53.0 %

#### Current Running Status

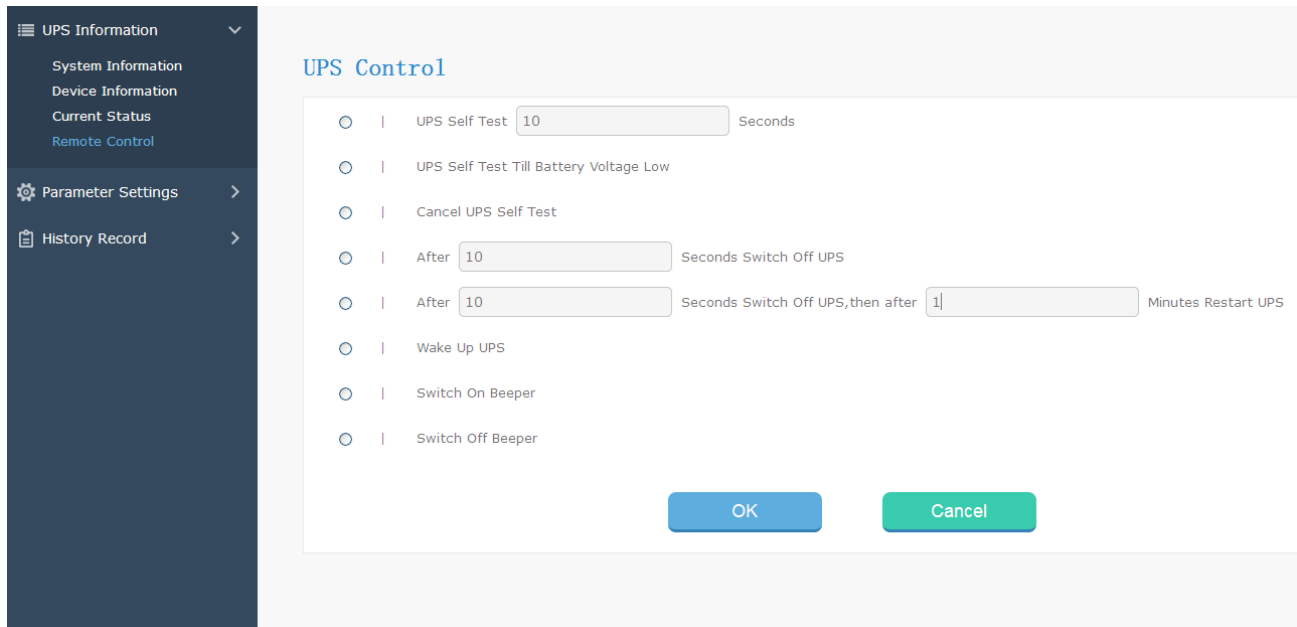
Connection Status	Device Connection		
AC Status	AC Normal	Battery Status	Battery Voltage Normal
Running Status	Invert	UPS Status	UPS Normal
UPS Type	Online	Testing Status	Non-testing
On-Off Status	Normal Output	Beeper Status	Off

### Basic Information

The current figures like Input Voltage/Input Frequency/Battery Voltage/Battery Content/UPS Temperature/Output Voltage/Output Max Voltage/Output Min Voltage/ Current Load are display here.

### 3.1.4 Remote Control

This part is to set switch on/off control command for instant self-test, switch off, restart UPS and beeper.



## 3.2 Parameter Setting

Sub-Menu:

- System Setting
- Network Settings
- SNMP Settings
- E-mail Settings
- User Settings
- IP POWER Settings

### 3.2.1 System Setting

#### Basic Parameter Settings

This part is to set UPS basic parameters and the communication protocol is default, Baud Rate/ Offline Times/Alarm Times/Inquiry/Battery Quantity/ Battery Type/System Date Time need to be set according to real UPS information (Please refer to the UPS user manual)

- UPS Information >
- Parameter Settings >
  - System Settings
  - Network Settings
  - SNMP Settings
  - Email Settings
  - User Settings
  - IPPOWER Settings
- History Record >

### System Settings

Communication Protocol:		<input type="text" value="Standard"/>	
Baud Rate:		<input type="text" value="2400"/>	
Offline Times:		<input type="text" value="3"/>	*Only Enter Integer
Alarm Query Times:		<input type="text" value="3"/>	
Inquiry Interval:		<input type="text" value="1000"/>	ms
Battery Quantity:		<input type="text" value="1"/>	
Battery Type:		<input type="text" value="2 V"/>	
Battery Capacity Limitation:		<input type="text" value="0"/>	%
Temperature Limitation:		<input type="text" value="0.0"/>	°C

### 3.2.2 Network Settings

In this page, user can modify the IP address, subnet mask, gateway information, NTP server, time zone and work mode of NetmateLite according to the real network segment, but the IP address should not be conflicted with other device IP in a same network.

Also support system reboot.

- UPS Information >
- Parameter Settings >
  - System Settings
  - Network Settings
  - SNMP Settings
  - Email Settings
  - User Settings
  - IPPOWER Settings
- History Record >

### Network Settings

IP Address:		<input type="text" value="192.168.0.101"/>	
Subnet Mask:		<input type="text" value="255.255.255.0"/>	
Gateway:		<input type="text" value="192.168.0.1"/>	
NTP Server:		<input type="text" value="192.168.0.8"/>	
Primary DNS Server:		<input type="text" value="192.168.0.1"/>	
Secondary DNS Server:		<input type="text" value="0.0.0.0"/>	
Work Mode		<input type="text" value="automatic"/>	
System Time:		<input type="text" value="9/10/2014 15:27:11"/>	MM/DD/YY H:M:S(12/31/2011 23:58:58)
Time Zone:		<input type="text" value="GMT +8:00"/>	

### 3.2.3 SNMP Settings

This page is to set relevant settings, when NetmateLite is match with SNMP software, including Basic Setting, Authorization Settings and TRAP Settings.

## Basic Setting

Basic Settings

SNMP System Name	SNMP System Administrator	SNMP System Installation Path
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>		

### A, System Name

Name the NetmateLite.

### B, SNMP System Administrator

Set the snmp system administrator of the NetmateLite.

### C, SNMP System Installation Position

Set NetmateLite installation location.

The basic setting is convenient for centralized monitoring and management when there are a lot of UPS. Users can fast and simply inquire every UPS

SNMP Settings

ID	IP User	Community	Permission
01	<input type="text" value="192.168.0.102"/>	<input type="text" value="public"/>	Readable <input type="button" value="v"/>
02	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	Readable/Writeable <input type="button" value="v"/>
03	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	No Permission <input type="button" value="v"/>
04	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	No Permission <input type="button" value="v"/>
05	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	No Permission <input type="button" value="v"/>
06	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	No Permission <input type="button" value="v"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>			

## Trap Setting

Receiver IP Address is used to receive traps sent by NetmateLite. Users can set 6 Trap receivers IP

address at most. Support to choose whether receive the traps.

### TRAP Settings

ID	Receiver IP Address	Community	Receive
01	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>
02	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>
03	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>
04	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>
05	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>
06	<input type="text" value="0.0.0.0"/>	<input type="text" value="public"/>	None <input type="button" value="v"/>

This part is to set SNMP users' IP address, community and relevant authorization. Users can set 6 SNMP user IP address, and can choose the authorization which includes No Authorization, Readable and Readable/Writable.

### 3.2.4 E-mail Setting

- UPS Information >
- Parameter Settings >
  - System Settings
  - Network Settings
  - SNMP Settings
  - Email Settings
  - User Settings
  - IPPOWER Settings
- History Record >

#### Email Settings

SMTP Server:	<input type="text" value="smtp.gmail.com"/>
Sender Email:	<input type="text" value="flora@gmail.com"/>
User Name:	<input type="text" value="flora"/>
Password:	<input type="text" value="123456"/>
Port:	<input type="text" value="465"/>

Receiver Settings		Receiver Settings	
Receiver Mailbox 1	<input type="text" value="job2012cyy@163.com"/>	Receiver Mailbox 2	<input type="text"/>
Receiver Mailbox 3	<input type="text"/>	Receiver Mailbox 4	<input type="text"/>
Receiver Mailbox 5	<input type="text"/>	Receiver Mailbox 6	<input type="text"/>



### 3.2.5 User Setting

This page is to set the user information which is used to login NetmateLite via Web.

- UPS Information >
- Parameter Settings >
  - System Settings
  - Network Settings
  - SNMP Settings
  - Email Settings
  - User Settings
  - IPPOWER Settings
- History Record >

#### User Settings

ID	User Name	Permission	Password	Confirm Password
01	<input type="text" value="admin"/>	<input type="text" value="Manage"/>	<input type="password" value="*****"/>	<input type="password" value="*****"/>
02	<input type="text" value="Lily"/>	<input type="text" value="Check"/>	<input type="password" value="*****"/>	<input type="password" value="*****"/>
03	<input type="text" value="Lucy"/>	<input type="text" value="Check"/>	<input type="password" value="*****"/>	<input type="password" value="*****"/>
04	<input type="text"/>	<input type="text" value="Check"/>	<input type="password"/>	<input type="password"/>
05	<input type="text"/>	<input type="text" value="Check"/>	<input type="password"/>	<input type="password"/>
06	<input type="text"/>	<input type="text" value="Check"/>	<input type="password"/>	<input type="password"/>

### 3.2.6 IP POWER Setting

This part is to set the authorized address, all the authorized address can be remote centralized managed via RichComm IP Power software. Authorization item includes Control and Access.

- UPS Information >
- Parameter Settings >
  - System Settings
  - Network Settings
  - SNMP Settings
  - Email Settings
  - User Settings
  - IPPOWER Settings
- History Record >


#### IPPOWER Settings

User IP	Subnet Mask	Permission
<input type="text" value="192.168.0.101"/>	<input type="text" value="255.255.255.0"/>	<input type="text" value="Control"/>
<input type="text" value="192.168.0.103"/>	<input type="text" value="255.255.255.0"/>	<input type="text" value="Check"/>
<input type="text" value="0.0.0.0"/>	<input type="text" value="0.0.0.0"/>	<input type="text" value="Check"/>
<input type="text" value="0.0.0.0"/>	<input type="text" value="0.0.0.0"/>	<input type="text" value="Check"/>
<input type="text" value="0.0.0.0"/>	<input type="text" value="0.0.0.0"/>	<input type="text" value="Check"/>

### 3.3 History Event

This page is to display history events. Record includes the Date/Time/ Log Content.

NetmateLite

 admin  
 Welcome
 

 Authorization: Manage  
 Time: 2012-4-19 23:37:56

- ☰ UPS Information >
- ⚙️ Parameter Settings >
- 📄 History Record ▾
  - History Event

#### History Event

Date	Time	Log Content
2012/04/19	23:36:16	Device Connection
2012/04/19	23:32:52	Device Disconnection
2012/04/15	23:19:35	Device Disconnection
2012/04/15	23:14:57	Device Disconnection
2012/04/13	17:17:58	Device Disconnection
2012/04/13	16:42:24	Device Disconnection

First Page
1
2
3
4
Last Page
go to P:

**Thank You For Use**

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