

User's Manual



12-Port IP Power Manager

► IPM-1200x Series



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the

computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual for PLANET 12-Port IP Power Manager

Model: IP POWER MANAGER

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Part No. EM-IPM1200x_Series_v1.0

TABLE OF CONTENTS

CHAPTER 1 INTRODUCTION.....	1
1.1 PACKAGE CONTENTS	1
1.2 PRODUCT DESCRIPTION	2
1.3 FEATURES	4
1.4 PRODUCT SPECIFICATION	5
1.5 PHYSICAL DESCRIPTION	8
CHAPTER 2 HARDWARE INSTALLATION.....	10
CHAPTER 3 QUICK SETUP.....	17
CHAPTER 4 CONFIGURE WITH CONSOLE	21
4.1 RUN HYPER TERMINAL.....	21
4.2 IP POWER MANAGER CONFIGURATION.....	23
4.2.1 System Group.....	24
4.2.2 Control Group	25
4.3 OUTLETS CONTROL	26
4.4 ACCESS CONTROL.....	27
4.5 TRAP RECEIVER TABLE.....	28
4.6 RESET CONFIGURATION TO DEFAULT	29
4.7 RESTART IP POWER MANAGER	29
4.8 EXIT.....	30
CHAPTER 5 WEB CONFIGURATION.....	31
5.1 POWER MANAGEMENT	32
5.1.1 Status	32
5.1.2 Control.....	32
5.1.3 Schedule	34
5.2 POWER ENVIRONMENT	35
5.2.1 Status	35
5.2.2 Configuration	35
5.2.3 Alarm.....	37
5.3 POWER SYSTEM	37
5.3.1 Configuration	37
5.3.3 Date & Time	40
5.3.4 Trap Receivers.....	41
5.3.5 WakeOnLAN.....	42
5.3.6 Email Notification	43
5.3.7 Upgrade.....	45
5.3.8 External Links	45

5.4	NETWORK	46
5.4.1	Configuration	46
5.4.2	Control.....	47
5.4.3	Access Control	48
5.5	LOGS.....	48
5.5.1	History.....	49
5.5.2	Event	50
5.5.3	Clear and Save Log Data.....	51
CHAPTER 6 UTILITY		52
APPENDIX A ERROR CODE.....		54
APPENDIX B GLOSSARY		55

Chapter 1 Introduction

Thank you for purchasing PLANET IP Power Manager. This manual guides you on how to install and properly use the IP Power Manager in order to take full advantage of its features.

1.1 Package Contents

Make sure that you have the following items:

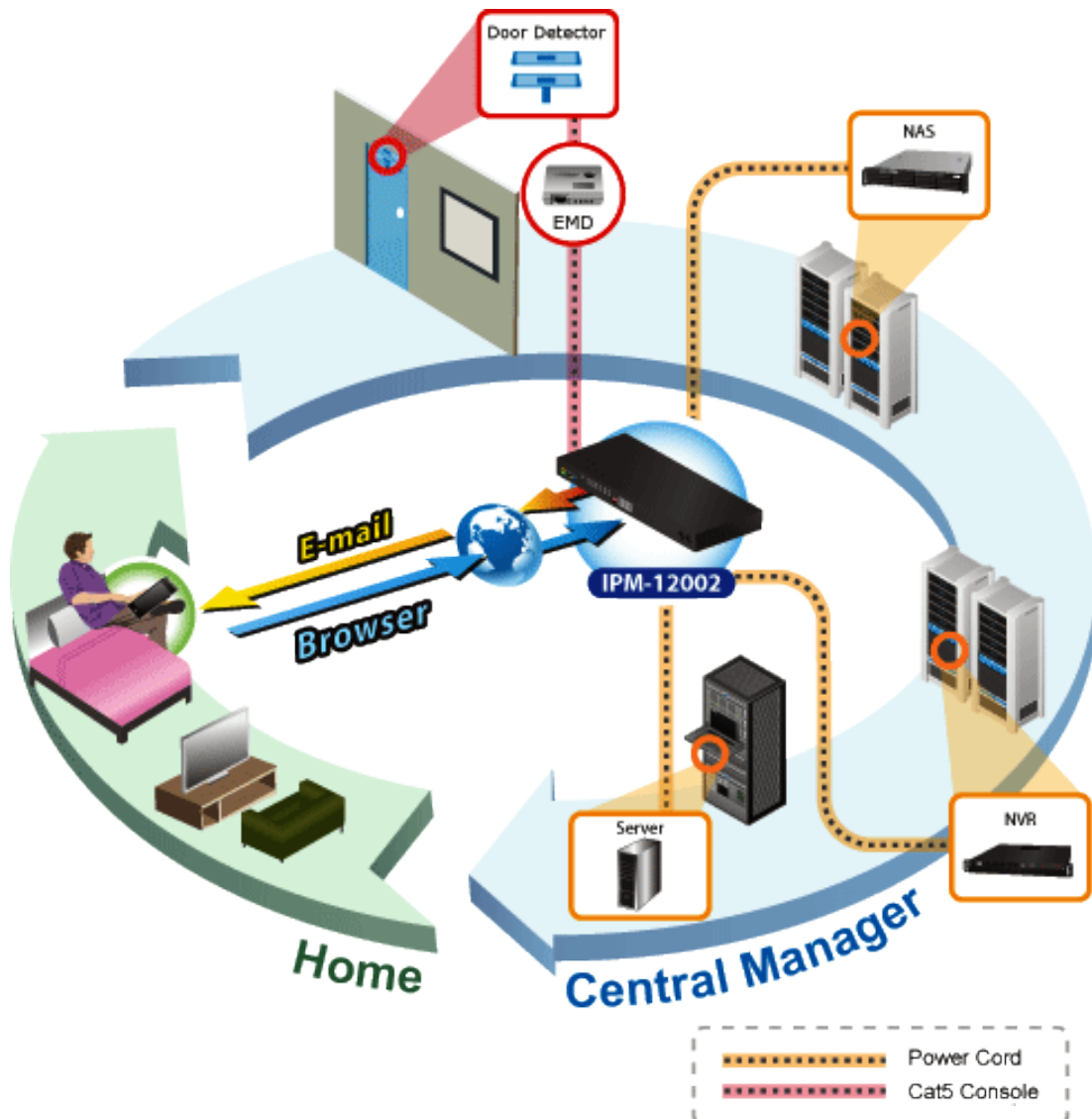
- 1 x IP Power Manager
- 1 x Power Cord
- 1 x User's Manual CD
- 1 x Quick Installation Guide
- 1 x Console Cable
- 2 x Rack Mount Ear
- 1 x USB Cable
- 4 x Feet
- 2 x U-type handle
- 11 x Flathead Screw
- 5 x Roundhead Screw

- | | |
|--------------|--|
| NOTE: | <ol style="list-style-type: none">1. If any of the above items are missing, please contact your dealer immediately.2. Using the power supply that is not the one included in Internet Camera packet will cause damage and void the warranty for this product. |
|--------------|--|

1.2 Product Description

Remotely reboot anything from anywhere

PLANET is glad to introduce 12-Port IP Power Management device. The IPM-1200x Series provides the useful function of managing power for any combination to connect with itself. With the innovative IP-based technology, PLANET has made the traditional power management equipment into true networking devices.



Intelligent Power Management

Coming with 12 power outlets, each of them can be controlled or monitored individual. You can control those power outlets via the console or web interfaces. You can also use the front panel to operate the power outlets. Provides 7-Segment LED and port status indicators, users can now easily the status of the IPM-1200x Series immediately, without login configure interface.

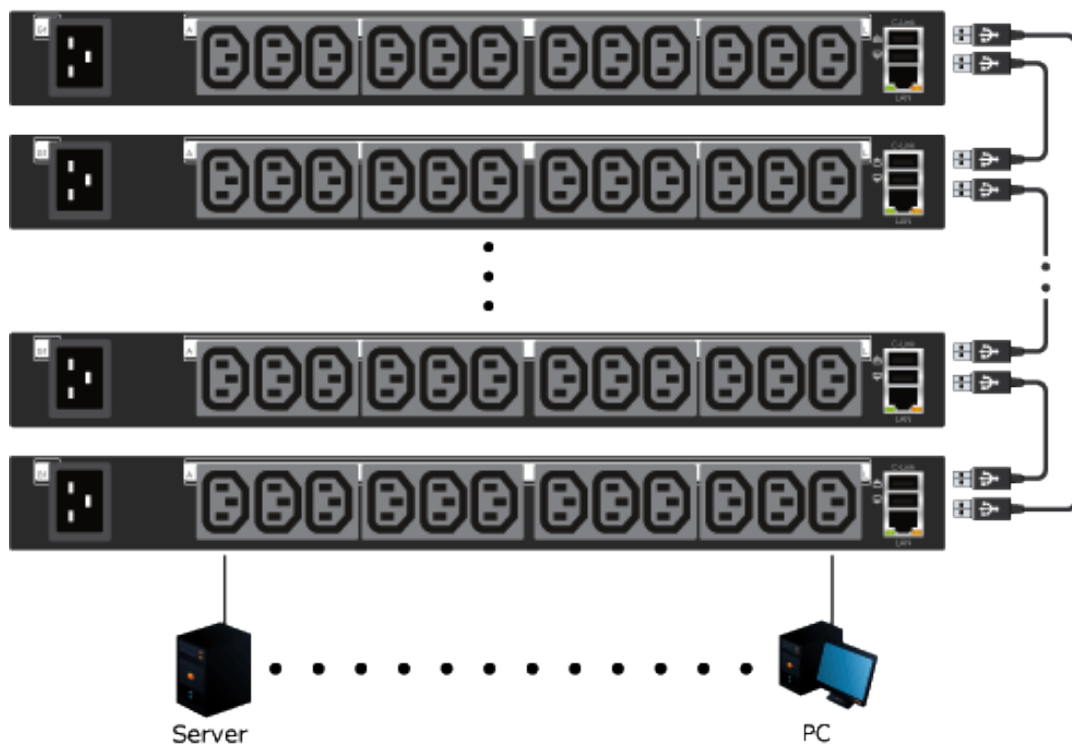
Easy Maintenance and Configuration

In addition to manual remote control, the IPM-1200x Series provides event-triggered or schedule-based control to turn connected equipment on or off or to reboot systems. The IPM-1200x Series is easily configured with its Plug-and-Play ability. The IPM-1200x Series keeps a detailed log off all connected devices so that in case of severe errors from some devices, the status or failures can easily be solved.

Cascade controls up to 6 IPM from single console

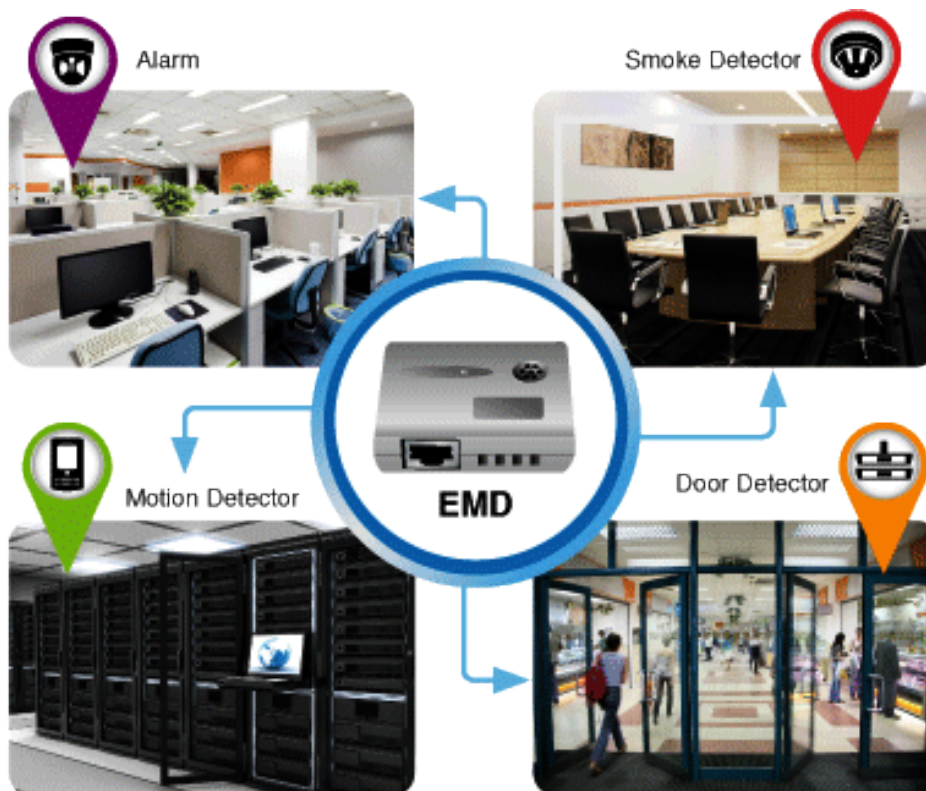
The IPM-1200x Series can be daisy-chained to manage even more devices, so your server room management can expand in step with your company's growth. For ease of management, this allows IT administrators to completely control and IT device from a single user interface.

Up to 6 IPMs can be Daisy-Chained



EMD (Environmental Monitoring Device)

The IPM-1200x Series has equipped with a console port for connecting an EMD (Environmental Monitoring Device) for sensing temperature and humidity along with two alarms that can be activated when the sensors show unusual values. The IPM-1200x Series is provided two digital outputs for connecting status indicators or digital switches. When users creating a new server room or the environment had been monitoring, the IPM-1200x Series is the best choice for fit the requirement.



EMD (Environmental Monitoring Device)

1.3 Features

➤ **Hardware**

- 19" rack mount 1U size design
- Cascade controls up to 72 outlets from Daisy-chaining port
- 12 LEDs shows power status for each power outlet
- 7 segment LED shows current, voltage or frequency, error code and the number of Daisy-chaining
- Twelve power outlets that can be turned on or off in multiple ways, with easy monitoring of current consumption
- Activate extended devices via digital outputs
- Versatile sensors supported through EMD (Environmental Monitoring Device) inputs

➤ **Power Distribution**

- Maximum Amps/Inlet: IEC 20A / 1 inlet (IPM-12001)
- Maximum Amps/Inlet: IEC 16A / 1 inlet (IPM-12002)
- Maximum Amps/Outlet: IEC 10A / 12 outlets

- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power

➤ **Remote Access**

- Remote power control via TCP/IP and a built in 10/100 Mbps Ethernet port
- Comprehensive power management and flexible configuration through web browser, NMS, Telnet, SNMP, or HyperTerminal (console)
- Multi browser support (IE, Google, Firefox, Safari, Opera, Netscape)

➤ **Management**

- To calculate the power consumption on hourly basis, and have an accumulation of daily
- Provide detail data-logging for statistical analysis and diagnostic then auto email daily history report
- Event notification by pop-up/Sending Trap or E-Mail for events notification
- Set over-current watchdog for each outlet
- Power-on sequencing -Intelligently turn on/off devices based on event occurrence or planned schedule
- Supports Management Information Base (MIB) files for SNMP
- Upgrade utility for easy firmware upgrade

➤ **Security**

- Support Secure Socket Layer V3 and Secure Shell V1 protocols
- Administrator and multiple users with password protection for double-layer security
- IP Filter -Address-specific IP security masks to prevent unauthorized access

1.4 Product Specification

Product	IPM-12001	IPM-12002
Hardware Specification		
Output Power Port	12	
Input Power Port	1	
Network Connector	1 x RJ-45 port for 10/100Base-TX	
Console Port	1 x RS-232 RJ-45 serial port	
Digital Output	2	
Daisy chaining Port	2 x USB 2.0	

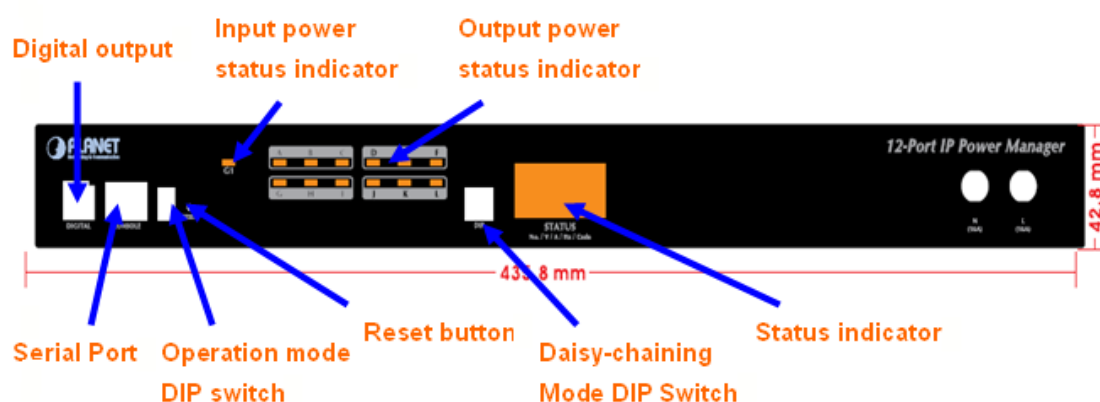
Daisy chaining mode	Auto / Manual	
Button	Reset	
LED	Output Power : ON / OFF Input status indicator : Volts/Amps/Hz/Error code and daisy chained IPM	
Power Distribution		
AC Input	100~125V, 20A, 50~60Hz	200~240V, 16A, 50~60Hz
AC Output	100~125V, 50~60Hz	200~240V, 50~60Hz
Load	Max. 10Amp each outlet or Max. 10Amp total for Outlet A~C. Same as D~F, G~I, J~L	
Inlet Connector	1 x IEC320 C20	
Outlet Connector	12 x IEC320 C13	
Management		
User Account	10	
Management Utility	Web Browser, SNMP software, Windows base utility, Telnet, Hyper Terminal (via console)	
Security	IP filter / Secure 128-bit SSL encryption	
Standards Conformance		
Computer Interface	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX	
Regulation Compliance	CE, FCC	
System Unit		
Operating Temperature	0 ~ 40 Degree C	
Operating humidity	10% ~ 80%	
Dimension (W x D x H)	436 x 300 x 44 mm	
Weight	4.2kg	
Installation	1U	

Product	IPM-EMD
Hardware Specification	
Digital Input	2

LED Display	Power / Status
Console Port	1 x RS-232 RJ-45 serial port
Monitoring Temperate	0 ~ 80 Degree C
Monitoring Humidity	10 ~ 90%
Dimensions (W x D x H)	57.4 x 37.6 x 29.2mm
Weight	35g

1.5 Physical Description

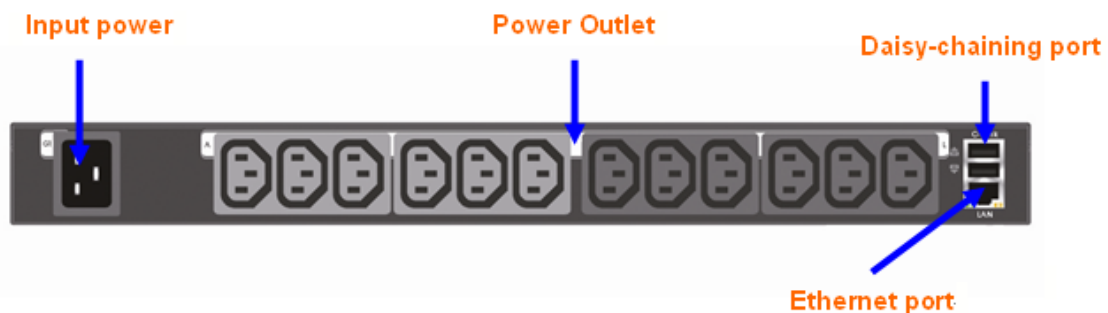
Front View



Component	Description
Input power status indicator	Display power status for the input power G1.
Output power status indicator (A ~ L)	Display power status for each power outlet A through L. Gray: power off Green: power on Red: power fault
Status indicator	Display input current, voltage, frequency, error code and the number of Daisy-chaining. Please refer to "Error codes" under the appendix for a list of all error codes.
Daisy-chaining Mode DIP Switch (C-link DIP)	Set the mode of Daisy-chaining for IP POWER MANAGER. Auto mode: For the master IP Power Manager, set all the DIP switches of the C- link to ON by moving all the switches downward; for all the other IP Power Manager in the Daisy Chain, set all the DIP switches of the C- link to OFF by moving all the switches upward. After setting the DIP switches for all the IP Power Manager in the Daisy Chain, the Daisy Chain ID can be assigned for each IP Power Manager automatically. Manual mode: The Daisy Chain ID for all IP Power Manager is assigned by user manually. Please refer to DIP Switch Setting Table on page 15.
Reset button	Enable you to reset the IP Power Manager in case the system locks up.

Operation mode DIP switch	Set the mode of operation for the IP Power Manager. Default mode (S1 off, S2 off): Set the DIP switches S1 and S2 to OFF by moving the switches upward for normal operations.
Serial (CONSOLE) Port	Enable you to configure the IP Power Manager using the serial port. User can also connect an optional EMD to this port.
Digital output	Connect up to digital outputs that are normally open or normally closed.

Rear View



Component	Description
Input power	Connect to a power outlet 1-inlet model: G1 supplies power to outlet A to L
Power Outlet (A ~ L)	Connect a device to each power outlet to supply power to it. Note: Three outlets group into one unit and the maximum load is 10 Amps for one unit or one outlet.
Daisy-chaining (C-link) port	Enable user to cascade next IP Power Manager through an USB cable.
Ethernet (LAN) port	Enable user to configure the IP Power Manager through a LAN or WAN

Chapter 2 Hardware Installation

Before you proceed with the installation, it is necessary that you have enough information about the IP Power Manager.

Step 1 Attaching the Feet

The IP Power Manager comes with four feet or spacers that are attached to the bottom. Use the four screws provided with the feet to attach the feet to the bottom of the IP Power Manager as shown:

NOTE: Users do not need to attach the feet if users are going to install the IP Power Manager in a rack.

Step 2 Attaching the Ears

The IP Power Manager is designed to be placed in a rack arrangement and comes with two ears (mounting brackets) that help users to move the device easily. Attach each ear with the three screws provided in the package.



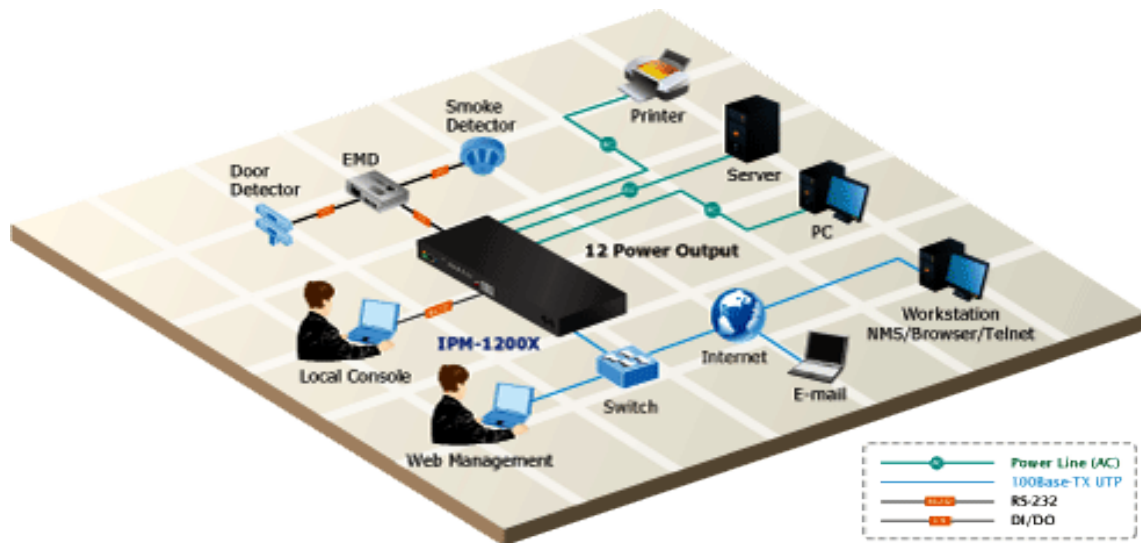
Step 3 Rack Mounting

The IP Power Manager can be installed in most standard 19" (1U) racks. After attaching the ears to each side of the device, position the device in the rack and align the holes in the ears (mounting brackets) with the hole in the rack. Use the screws supplied with your racks to tighten the ears (mounting brackets) to the rack.

Step 4 Making Connections

The IP Power Manager can be attached to twelve output devices whose power status can be controlled remotely. It also supports an EMD (Environmental Monitoring Device) connecting with sensors for detecting environmental conditions as well as digital outputs for enabling devices with normally open or normally close conditions. Moreover, the IP Power Manager supports a serial port (console) and Ethernet (LAN/WAN) connection that lets users control

the IP Power Manager's outputs remotely.

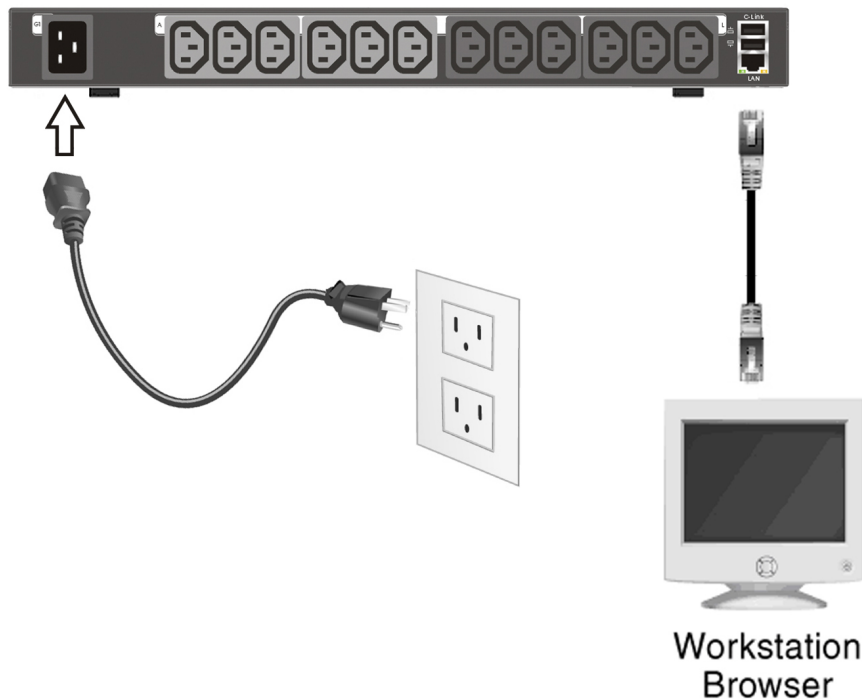


The following procedure describes the basic steps needed to set up the IP Power Manager:

- To set up the hardware, connect power to the power inlet and output devices to the power outlets. Connect devices with normally open or normally close conditions to the digital output ports, and an EMD to the console port.
- To configure the IP Power Manager, users can use the console or LAN port. Connect the IP Power Manager to a console and a LAN to enable its configuration through the console or browser menu.
- After connecting to a console, use a console application such as Telnet or HyperTerminal to access the console menu. Select the System Group submenu under the IP Power Manager Configuration to set up the IP address and the system date/time. This IP address will be used while accessing the web interface to configure the IP Power Manager parameters.
- After connecting to LAN, open a browser from a PC in the network and use the IP Power Manager's IP address specified through the console menu to open the web interface for system configuration.

Step 5 Connecting Input Power

The IP Power Manager has an IEC C20 power inlet for supplying and managing power for the output devices. Connect the power cord to the power inlet and plug the other end into a power outlet as shown:



Step 6 Connecting Output Device

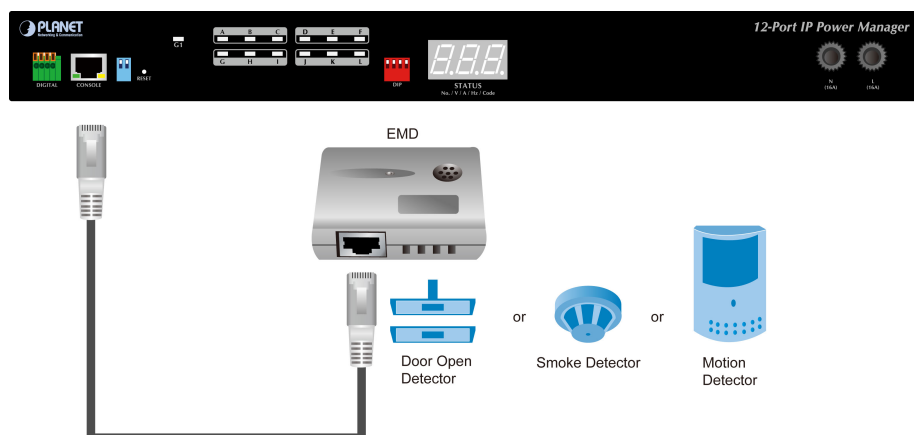
The IP Power Manager has eight power outlets for connecting devices such as workstations, servers, and printers. Their power on/off status can be controlled manually as well as remotely through the LAN and Console ports. Connect the power connectors of the devices to each of the power outlets A through H with the power cords supplied with the devices as shown:

Step 7 Connecting Digital Outputs

The IP Power Manager provides two digital outputs (NO by default) to which you can connect indicators or other output devices that are normally open (NO) or normally closed (NC). The digital output connectors are work as a switch to let you switch the connected device On or Off. The connectors will not provide power to the connected device. So the connected device should connect with its power adapter. You can control the digital outputs remotely through the console or over the LAN.

Step 8 Connecting EMD

An environmental monitoring device that is sensors connected to for detecting temperature, humidity, water level, and so on can be connected to the IP Power Manager with the console port. The EMD can also be connected to alarms or indicators and controlled through the IP Power Manager. Connect the EMD to the console port as shown:



After connecting to EMD, open a browser from a PC in the network. The temperature and humidity status is automatically displayed on the IP Power Manager Status page.

	Inlet		Outlet											
	G1	A	B	C	D	E	F	G	H	I	J	K	L	
Voltage (V)	111.5	111.5												
Current (A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Power (W)	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cumulative Kilo-Watt Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Power Factor(%)	None	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Alarm	Alarm	None	None	None	None	None	None	None	None	None	None	None	None	

EMD				
EMD Temperature (°C)	26.6		EMD Humidity (%)	55.7
EMD Door-1	Disabled		EMD Door-2	Disabled

Step 9 Connecting The Console

You can control the output devices and manage their power status through the console port with serial connection. Use the bundled serial cable to connect the COM port of your PC and the CONSOLE port of the IP Power Manager as shown. Then you can run Hyper Terminal to control and manage your IP Power Manager.

Step 10 Connecting LAN or WAN

The IP Power Manager has an RJ-45 LAN connector that enables you to monitor and manage the power outlets and digital outputs over the network. The IP Power Manager has a graphic user interface that allows you to control the device through a web browser. Connect the IP Power Manager to a free port on your switch using an Ethernet cable. You can then control the IP Power Manager from your PC or laptop. When the network has installed a router, you can also use your mobile phone or PDA that is web browser supported and

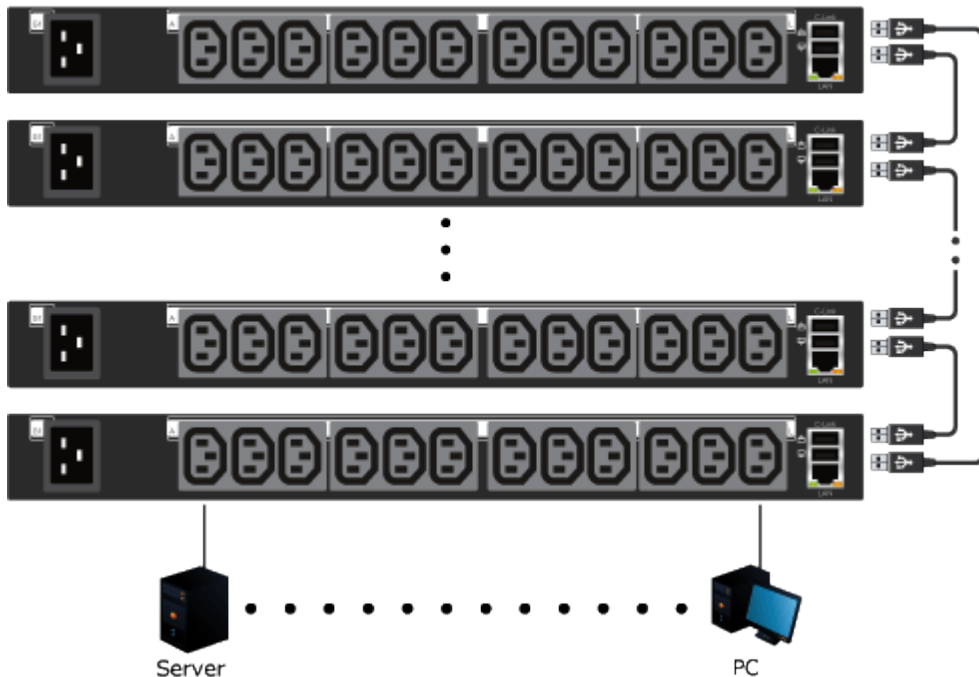
connected to Internet to control IP Power Manager.

Step 11 Daisy Chaining

To manage more devices, up to 5 additional IP Power Manager R can be daisy chained to the first unit. Follow instructions below to set up a daisy chained installation.

1. For each IP Power Manager that you add to the chain, use USB cables to connect it to the parent IP Power Manager's C-Link Port. The upper C-Link port (♂) of child IP Power Manager is connected to lower C-Link port (♀) of its parent IP Power Manager and the lower C-Link port (♀) of the lowest level IP Power Manager is connected to the highest level parent's upper C-Link port (♂) to form a cyclic(ring) structure as illustrated in the following figure.

Up to 6 IPMs can be Daisy-Chained



2. The daisy chained installation can operate in Auto mode or Manual mode. Use Daisy-chaining Mode DIP Switch (C-link DIP) to set the operation mode.

Auto mode: For the master IP Power Manager, set all the DIP switches of the C- link to **ON** by moving all the switches downward; for all the other IP Power Manager in the Daisy Chain, set all the DIP switches of the C- link to **OFF** by moving all the switches upward. After setting the DIP switches for all the IP Power Managers in the Daisy Chain, the Daisy Chain ID can be assigned for each IP Power Manager automatically.



DIP Switch Setting Table for Daisy Chain ID in Auto mode

DIP 1	DIP 2	DIP 3	DIP 4	Daisy Chain ID
OFF	OFF	OFF	OFF	Slave01 to Slave05, automatically assigned by IP POWER MANAGER
ON	ON	ON	ON	Master

Down: ON ; Up: OFF

Manual mode: Use DIP switches on the front panel to set the (Daisy Chain) ID number for each IP Power Manager that you add to the chain. You may set Daisy Chain ID for the first unit (Master) to 0 (DIP Switches: On, On, On, On) and the ID for the second unit (Slave 01) to 1 (DIP Switches: On, On, On, OFF), etc. The DIP Switch Setting Table for Daisy Chain ID is described in the following table.



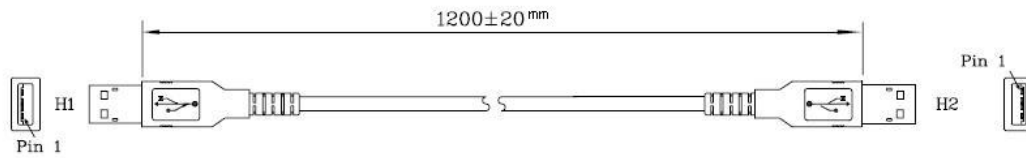
DIP Switch Setting Table for Daisy Chain ID in Manual mode

DIP 1	DIP 2	DIP 3	DIP 4	Daisy Chain ID
OFF	OFF	OFF	OFF	15
OFF	OFF	OFF	ON	14
OFF	OFF	ON	OFF	13
OFF	OFF	ON	ON	12
OFF	ON	OFF	OFF	11
OFF	ON	OFF	ON	10
OFF	ON	ON	OFF	9
OFF	ON	ON	ON	8
ON	OFF	OFF	OFF	7
ON	OFF	OFF	ON	6
ON	OFF	ON	OFF	5
ON	OFF	ON	ON	4
ON	ON	OFF	OFF	3
ON	ON	OFF	ON	2
ON	ON	ON	OFF	1
ON	ON	ON	ON	0

Down: ON ; Up: OFF

3. After all the IP Power Managers have been set up, power on all the IP Power Manager.

NOTE: The total length of all USB cables in the chain must not exceed 8 meters. The specification of USB cable is illustrated in following figure.



NOTE:

1. WIRE: UL 2725(#28x1P+#24x2C,A+B+D,BLACK) 2.0
2. H1,H2: USB A TYPE MALE
3. MOLDING PVC COLOR: BLACK

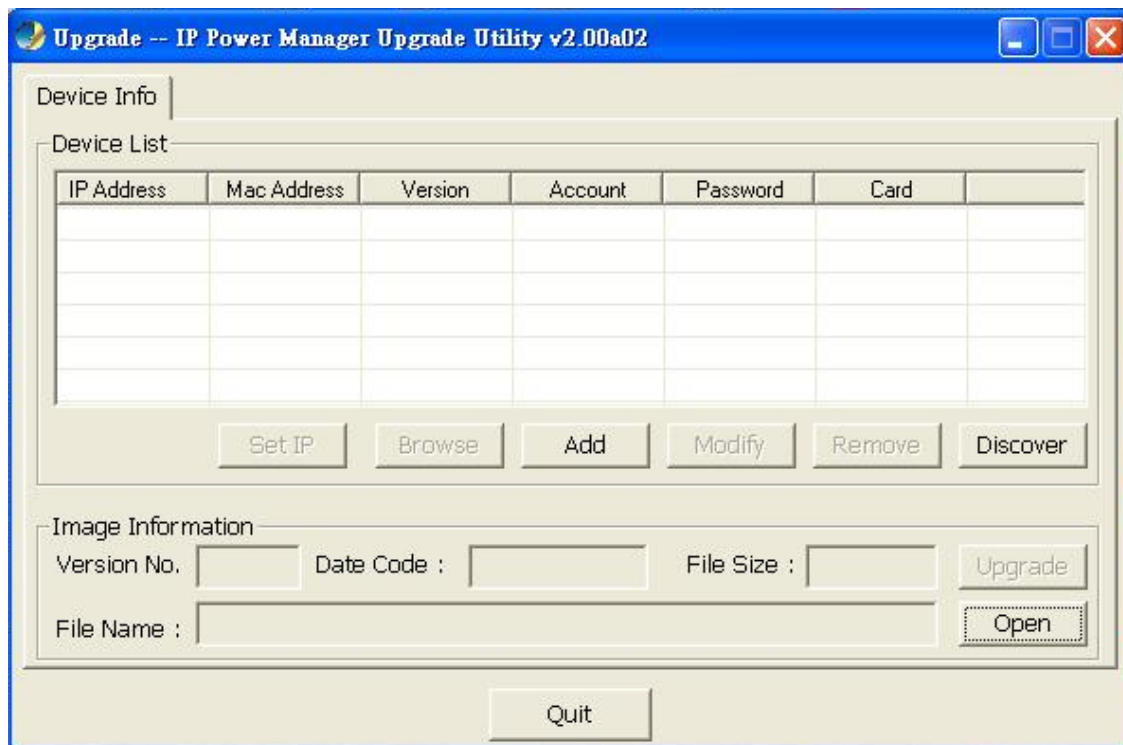
WIRING DIAGRAM

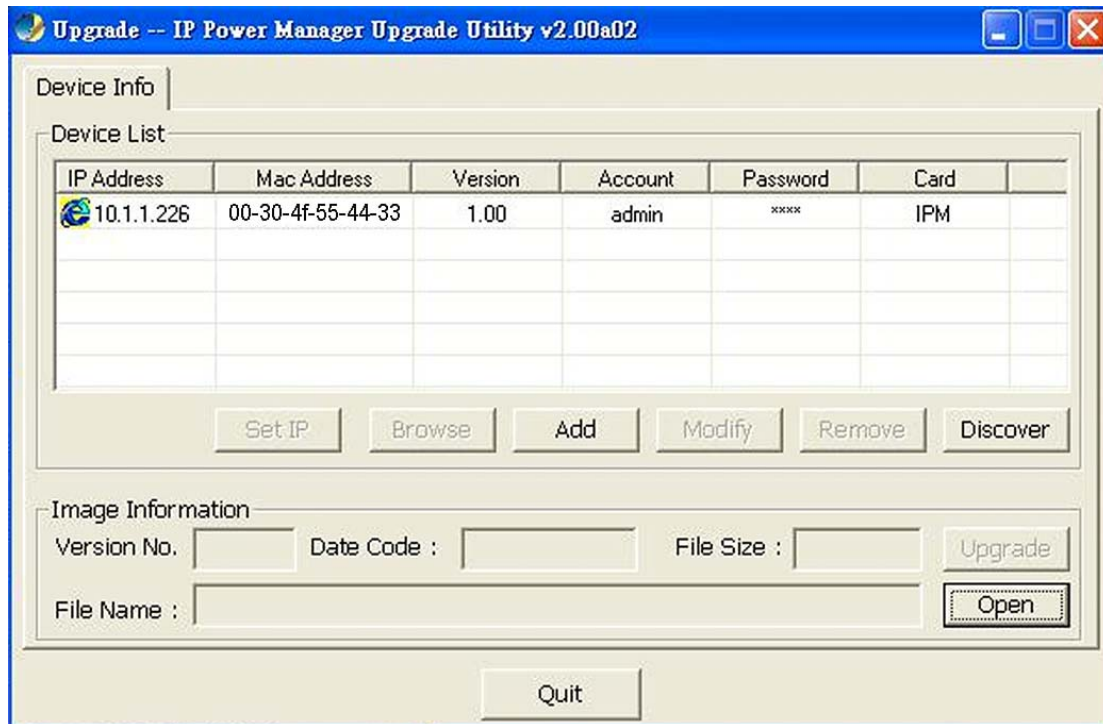
H1	H2	COLOR
1	1	RED
2	2	WHITE
3	3	GREEN
4	4	BLACK

Chapter 3 Quick Setup

The following procedure describes the basic steps needed to set up the IP Power Manager:

1. Please insert User's Manual and Utility CD into the CD-ROM drive to initiate the autorun program. Once completed a menu screen will appear.
2. Click on "Initial Utility" hyper link to initiate the installation. If the autorun program is not process in your PC, you can click the "Start" button and choose "Run". (Suppose "E" is your CD-ROM drive). When the dialog box appears, enter "E:\Utility\Setup.exe" and press enter key. You will see the dialog box as below.
3. Please press "Discover" button to find out your IP Power Manager.





4. Please select your IP Power Manager in the Device List and click "Modify" button to enter the user account and password. In default, user account and password is "admin". Please press "OK".




5. In default, IP Power Manager is DHCP Client enable. If you don't have DHCP Server in your network, please click "Set IP" button. Then enter a new IP address that in the same segment of your configuration PC. Please press "OK".



A dialog box titled "Setting" with a blue title bar and a red close button. It contains three text input fields: "IP Address : 10.1.1.226", "SubMask : 255.255.255.0", and "Gateway : 10.1.1.254". At the bottom are "OK" and "Cancel" buttons.

6. Please press "Browse" button, then you will see a dialog box asking you to enter the User Name and Password. In default, please enter "**admin / admin**" as your User Name and Password for first time configure IP Power Manager. Please press "OK".



A dialog box titled "Enter Network Password" with a blue title bar and standard window controls. It features a key icon and the text "Please type your user name and password." Below this, it shows "Site: 10.1.1.226" and "Realm: IP Power Manager". There are two text input fields: "User Name" containing "admin" and "Password" containing "*****". A checkbox labeled "Save this password in your password list" is unchecked. At the bottom are "OK" and "Cancel" buttons.

7. Then the IP Power Manager configuration web page will appear as below. You can check and start the management of the IP Power Manager.



12-Port IP Power Manager

IPM System v1.00.Alpha1 (SN 11130141050001)

IPM Status



	Inlet	Outlet											
	G1	A	B	C	D	E	F	G	H	I	J	K	L
Voltage (V)	111.7	111.7											
Current (A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power (W)	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Kilo-Watt Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power Factor(%)	None	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alarm	Alarm	None	None	None	None	None	None	None	None	None	None	None	None

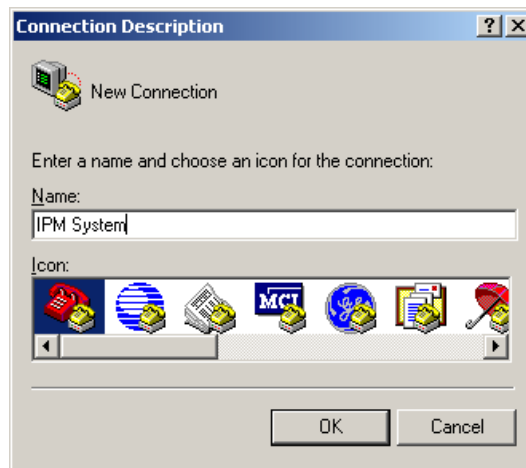
Chapter 4 Configure With Console

The IP Power Manager has provided a serial port that enables you to configure and control the system through your PC's RS-232 serial (COM) port. Use the serial cable provided to connect the console port to your PC's COM port as described in "Connecting the console". This section describes how to use a console application to control the IP Power Manager and configure its settings such as its IP address, outlet control parameters, access control table, and trap receivers table.

4.1 Run Hyper Terminal

Follow these steps to start HyperTerminal and communicate with the IP Power Manager:

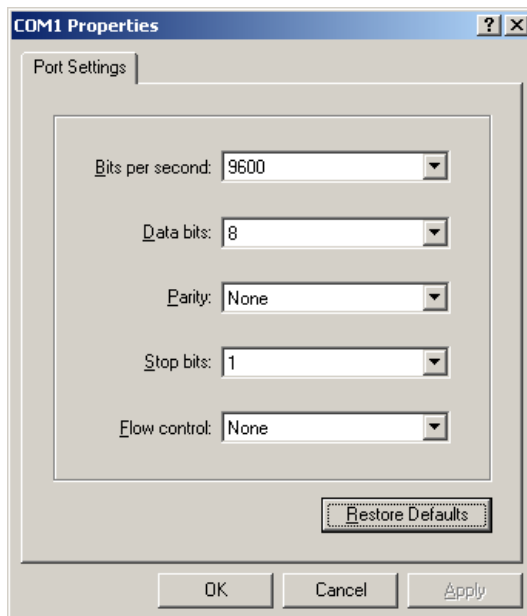
1. To start HyperTerminal, click Start ==> Programs ==> Accessories ==> Communications ==> HyperTerminal from the Windows Start button.
2. A New Connection opens. Type a name for the connection in the Name field and select an icon for the connection. Click OK when done.



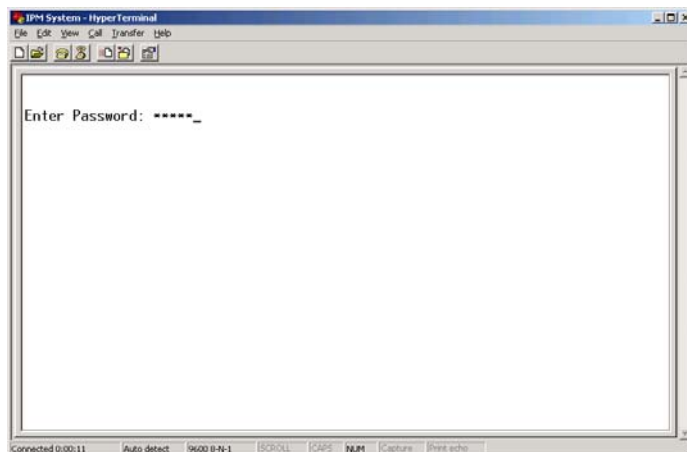
3. From the Connect To drop-down box, select the COM port that IP Power Manager connected. Click OK when done.



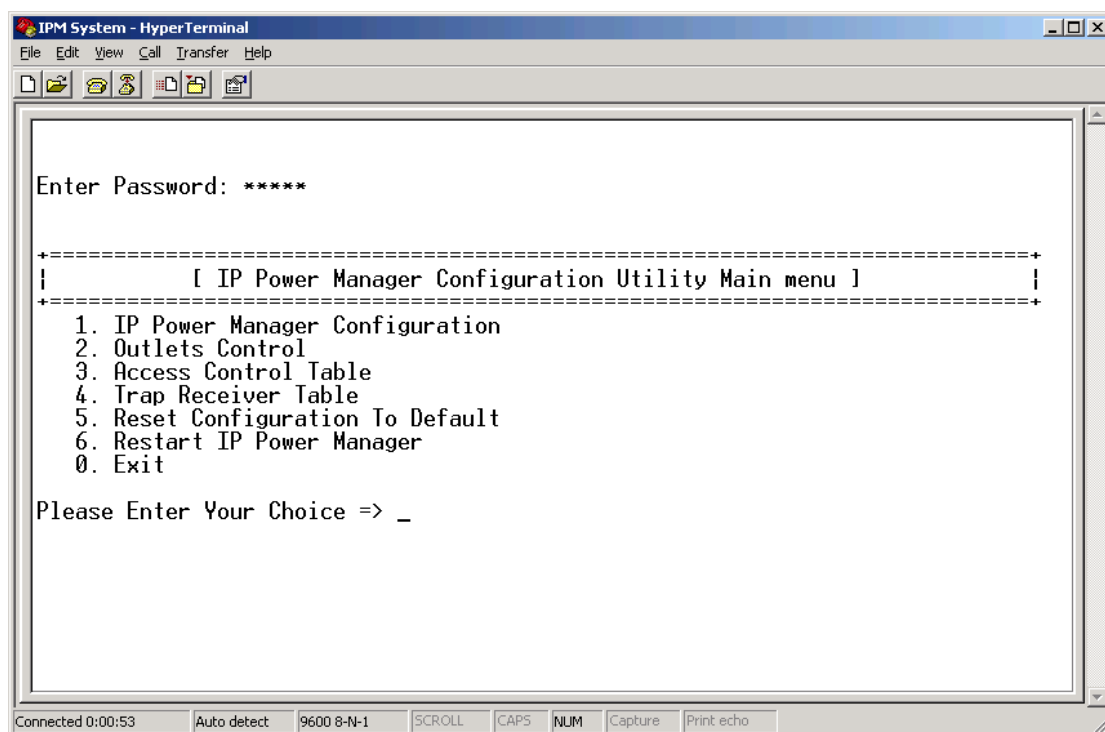
4. The Properties window opens. Click "Restore Defaults" to use the default settings. Make sure that the Bits per second field is set to 9600. Click OK when done.



5. Press any key. The IP Power Manager Configuration Utility Main menu opens and you are prompted for a password. Type the default password (admin) and press Enter to continue. The main menu options are displayed.

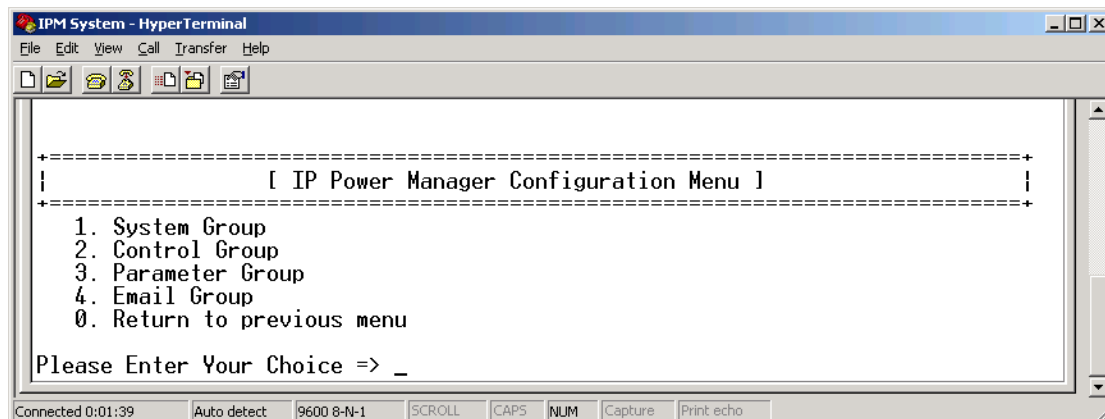


6. After enter correct password, you will see the main menu of console interface.



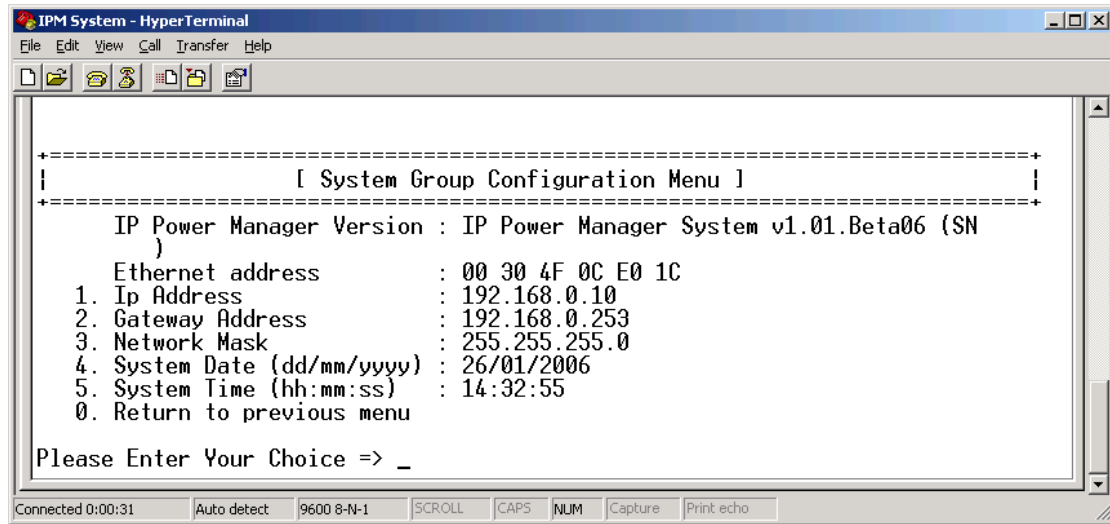
4.2 IP Power Manager Configuration

In this option. You can setup the general settings of this IP Power Manager.



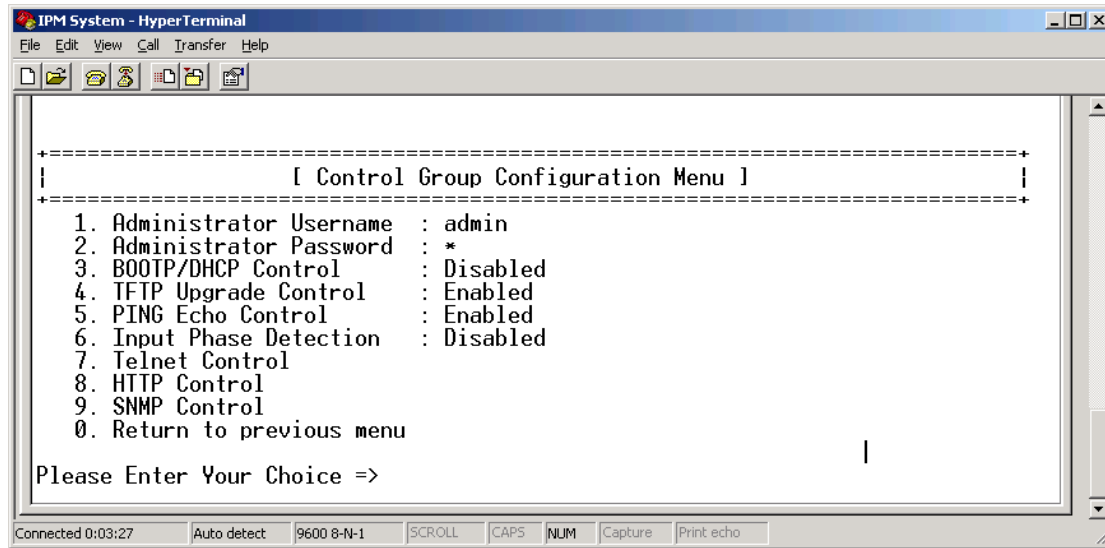
4.2.1 System Group

In this option, You can change the IP Power Manager IP settings, system date and time.



Option	Description
IP Address	The IP address of IP Power Manager is dotted format. Default value is "192.168.0.10", and size is 15 characters.
Gateway Address	The IP address of the gateway is dotted format. Default value is "0.0.0.0", and size is 15 characters.
Network Mask	The subnet mask of IP Power Manager is dotted format. Default value is "255.255.255.0", and size is 15 characters.
System Date	Set date of IP Power Manager, format is dd/mm/yyyy.
System Time	Set time of IP Power Manager, format is hh:mm:ss.

4.2.2 Control Group

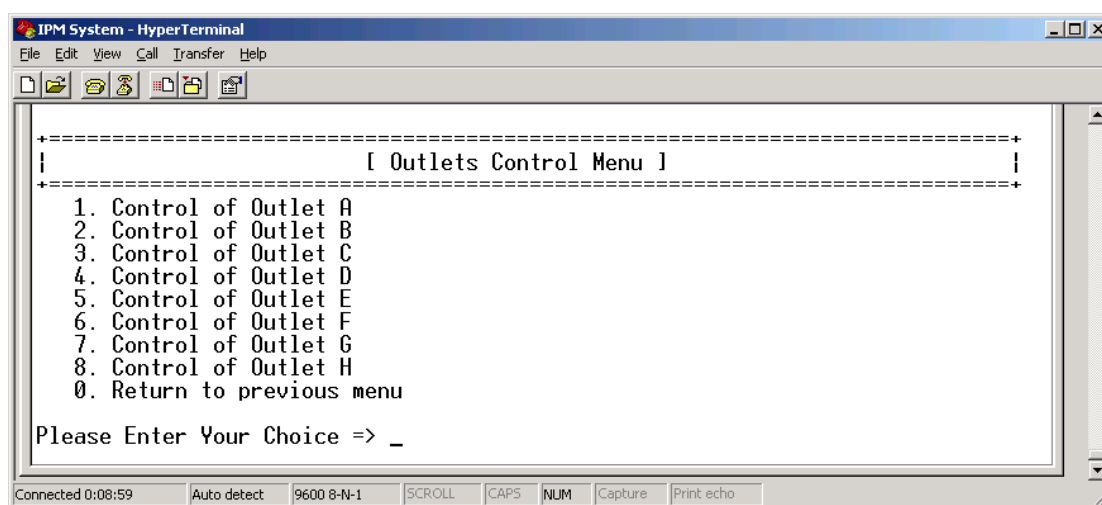


Option	Description
Administrator User Name	In default, the user name is "admin". You can change the user name to a simply memorize name.
Administrator Password	In default, the password is "admin". Please change the password to IP Power Manager in the first time configuration. That can prevent unauthorized user access to IP Power Manager.
BOOTP/DHCP Control	This is the parameter enabling or disabling the Boot Protocol (BOOTP) / Dynamic Host Configuration Protocol (DHCP) process. These protocols are used to obtain a dynamic IP address from a BOOTP / DHCP server.
TFTP Upgrade Control	You can upgrade IP Power Manager via TFTP protocol when this option enabled.
Ping Echo Control	Enable/Disable the IP Power Manager to respond to Ping requests. For protect IP Power Manager when they are connect to Internet. We will suggest you enable this option to let your IP Power Manager stop response the ping command.
Input Phase Detection	IP Power Manager will detect the input power phase to make sure the connected device can receive the correct power input. When input power phase is reverse, IP Power Manager will display error code "E16" on 7-Segment LED. Please try to make the input power phase correct. Or you can disable this function temporally with this option.
Telnet Control	This is the parameter enabling or disabling the terminal to the server application (Telnet) control process. (e.g. telnet 192.168.1.1). The user may configure the Telnet protocol to use a port number other than the

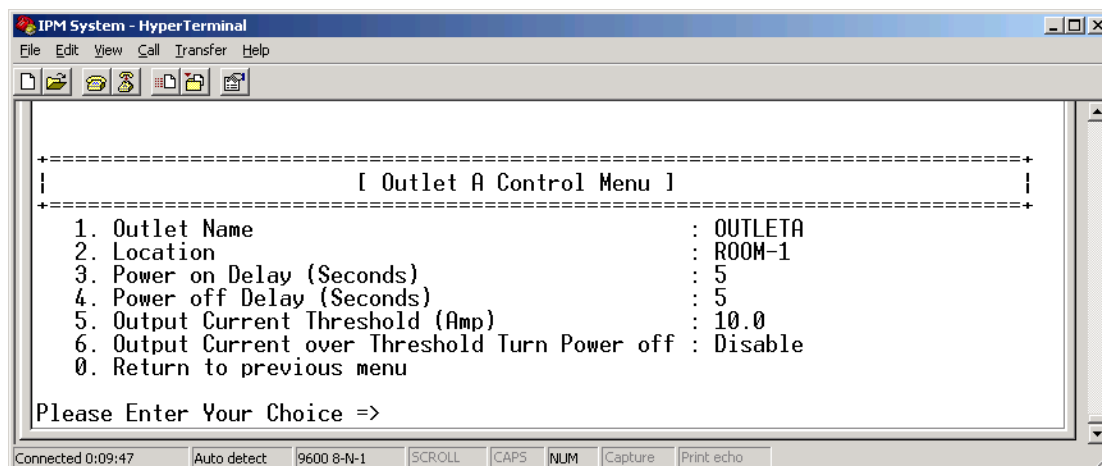
	standard Telnet port (23).
HTTP Control	Enable/Disable the HTTP connection with the IP Power Manager. The user may configure HTTP protocol to use a port number other than standard HTTP port (80).
SNMP Control	Enable/Disable the SNMP connection with the IP Power Manager. The user may configure the SNMP protocol to use a port number other than the standard SNMP port (161).

4.3 Outlets Control

In this option, you can select the power outlet and change its settings.



Please select the power outlet you want to configure in above screen. Then the below screen will appear.

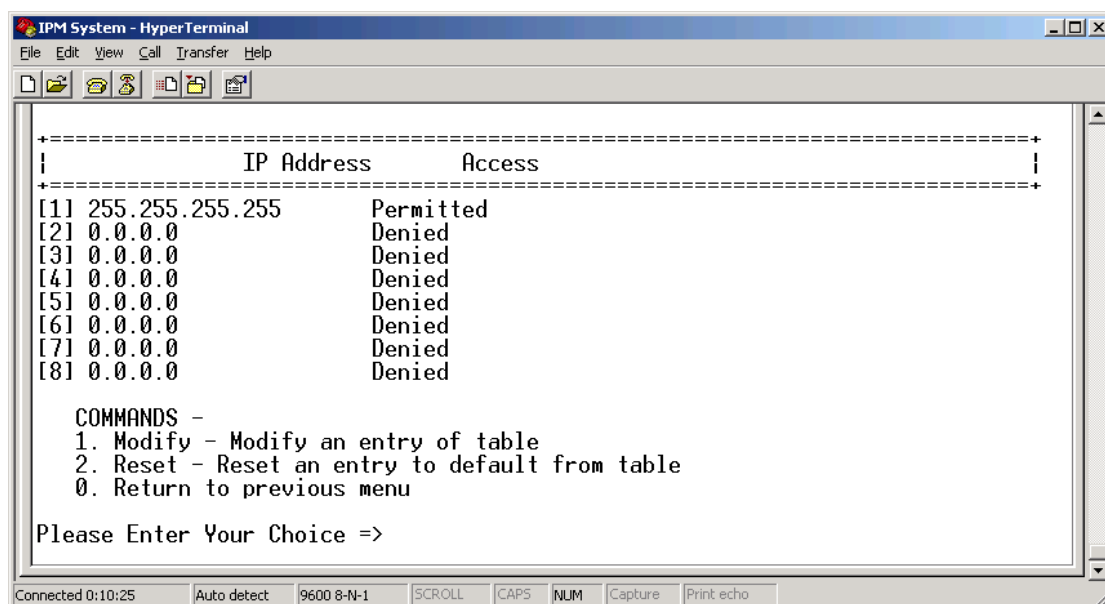


Option	Description
Outlet Name	Set the name of this outlet.
Location	Set the location of this outlet.

Power on Delay (Seconds)	Set power on delay time in seconds. The outlet will turn on after the delay time.
Power off Delay (Seconds)	Set power off delay time in seconds. The outlet will turn on after the delay time.
Output Current Threshold (Amp)	Set the upper limit of output current in Amp.
Output Current Over Threshold Turn Power Off	If selected, it will turn power off of outlet when this event occurred. Default value is not selected.

4.4 Access Control

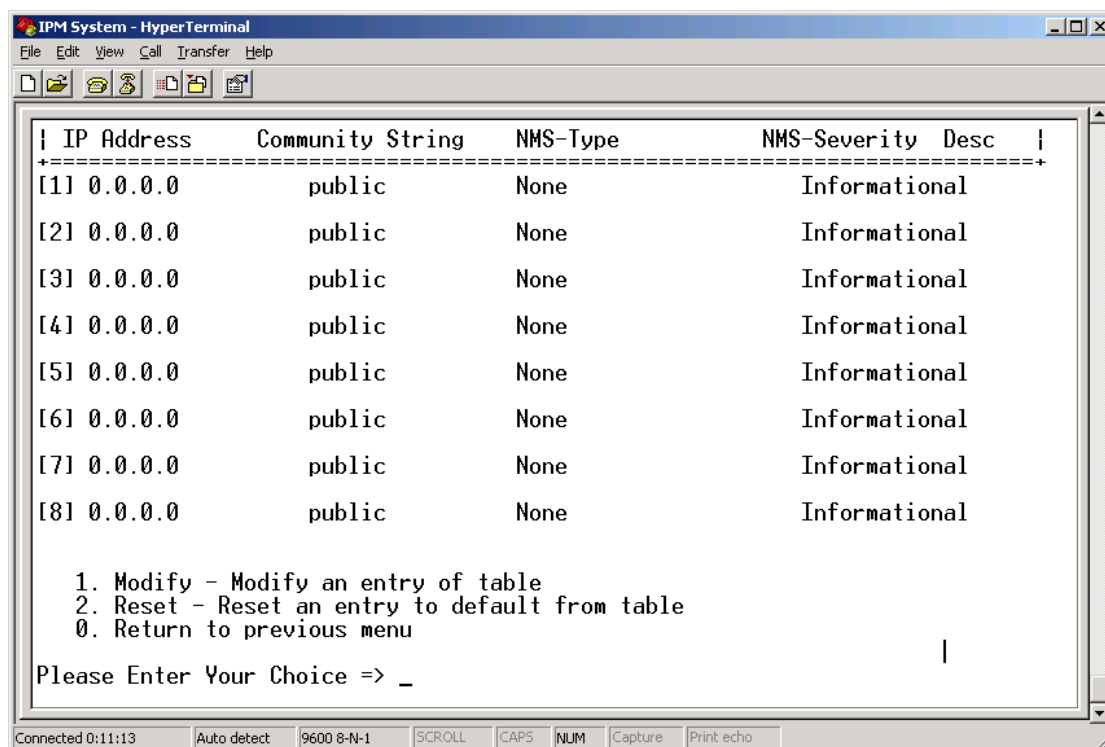
It prevents unauthorized network access to the IP Power Manager. There are 2 kinds of type for "Access Type", "Permitted", and "Denied". It is need to set the first item for its "IP Address" to "255.255.255.255" and "Access Type" to "Permitted" as default value in order to let user is able to connect to the IP Power Manager.



Option	Description
IP Address	The management station's IP address. "0.0.0.0" means entry not configured. (e.g. An entry "192.168.0.255" means the client with the IP address within the range from "192.168.0.0" to "192.168.0.255" become the management station with the access type set by Administrator. "255.255.255.255" grants the access right to all IP.
Access	Available options are: Permitted and Denied.

4.5 Trap Receiver Table

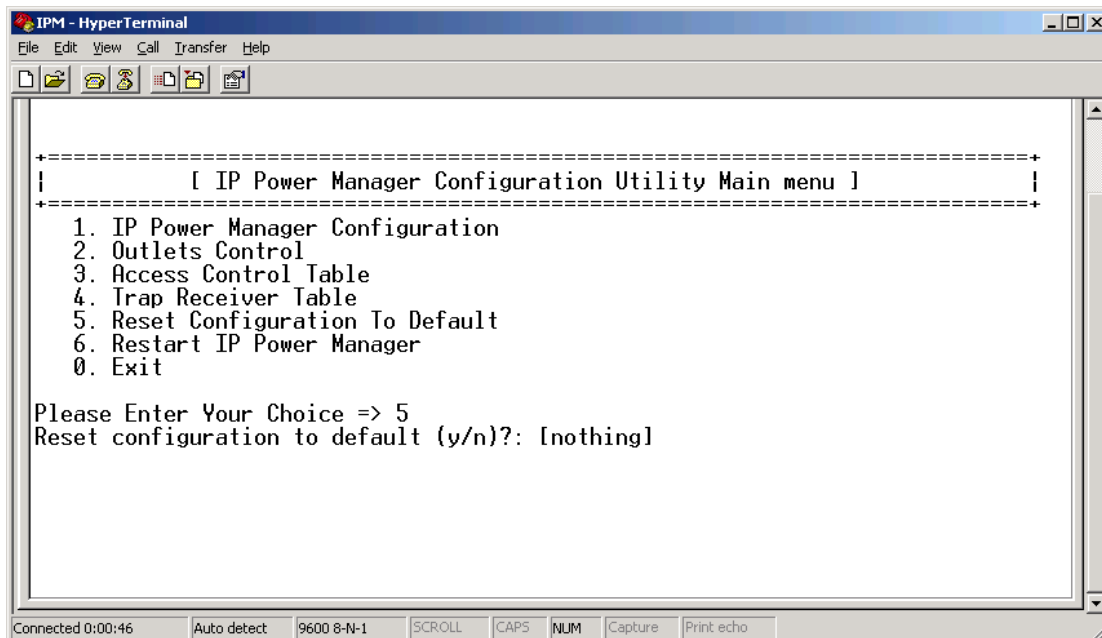
This page lists the parameters for SNMP trap receivers (For SNMP Network Management).



Option	Description
IP Address	The IP Address in dotted format of the NMS station to which the trap should be sent.
Community String	The community string of the trap PDU to be sent. The maximum length of the string is 19 characters.
NMS-Type	Types of the traps to be received. Set the type of the trap.
NMS Severity	Set the level of the trap to be received.
Description	Information: All traps are received. Warning: Trap that need to be noticed and are in dangerous is received. Severe: The significant traps such as the outlet voltage over threshold are received.

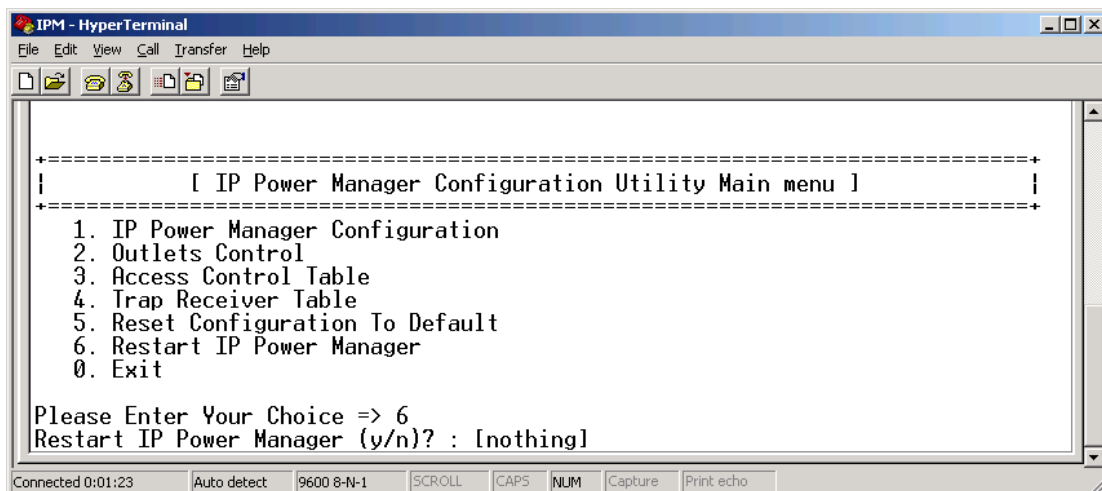
4.6 Reset Configuration To Default

When you would like to reset IP Power Manager to default configuration, please select this option and press “y”.



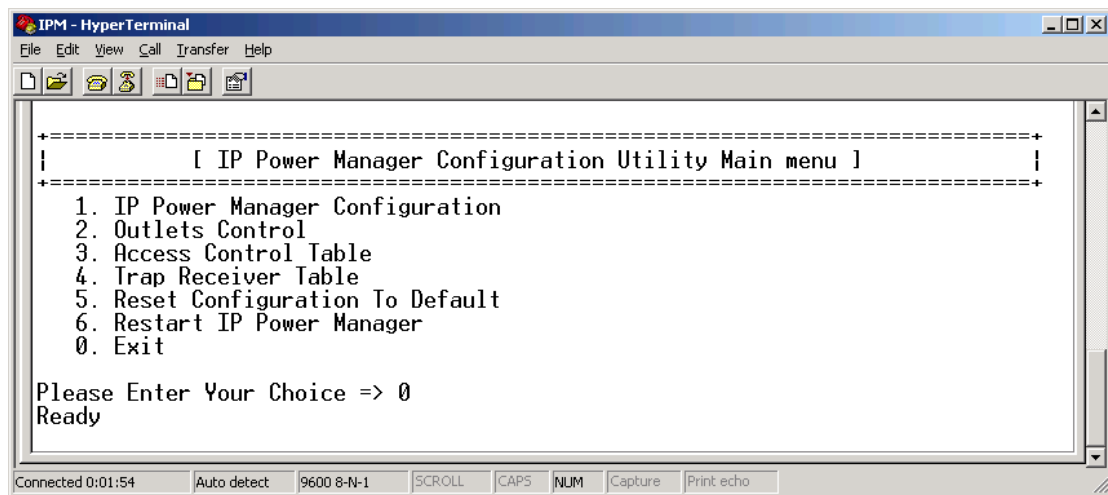
4.7 Restart IP Power Manager

After configuration, please select this option to make the new function works.



4.8 Exit

Select this option to exit Hyper Terminal.



Chapter 5 Web Configuration

The IP Power Manager provides a graphic user interface that can be viewed from a web browser such as Internet Explorer. This enables you to access and control the IP Power Manager outlets and subsequently, it's output devices remotely from your desktop, laptop, PDA, or even your mobile phone. This section provides instructions about how to use the web interface to configure and control the IP Power Manager remotely.

1. Open your web browser.
2. Enter the IP address of your IP Power Manager in the address field.
3. A User Name and Password dialog box will appear. Please enter your User Name and Password here. Default User Name and Password are both "**admin**". Click OK.



Enter Network Password

Please type your user name and password.

Site: 192.168.0.10

Realm: IP Power Manager

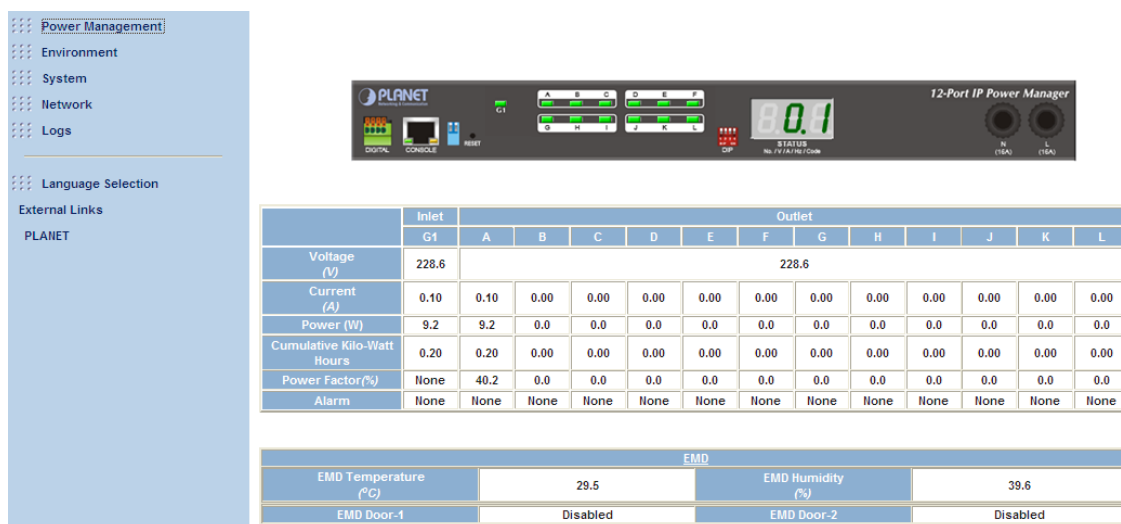
User Name:

Password:

☐ Save this password in your password list

OK Cancel

4. Then you will see the HOME screen as below.



The HOME screen displays the following information:

Left Panel:

- Power Management
- Environment
- System
- Network
- Logs
- Language Selection
- External Links
- PLANET

Top Panel:

PLANET 12-Port IP Power Manager

STATUS: 80.1

Table 1: Inlet and Outlet Power Data

	Inlet G1	Outlet											
		A	B	C	D	E	F	G	H	I	J	K	L
Voltage (V)	228.6	228.6											
Current (A)	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power (W)	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Kilo-Watt Hours	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power Factor(%)	None	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alarm	None	None	None	None	None	None	None	None	None	None	None	None	None

Table 2: EMD Status

EMD				
EMD Temperature (°C)	29.5		EMD Humidity (%)	39.6
EMD Door-1	Disabled		EMD Door-2	Disabled

The left panel provides five options, **Power Management**, **Environment** (when EMD connected), **System**, **Network** and **Logs**.

When you click the IP Power Manager front panel on the Home screen. You will see the device status as below.

5.1 Power Management


5.1.1 Status

This page shows the outlets, input power, input current and Cumulative Kilo-Watt Hours. Click anywhere on the front panel to see detailed information about the IP Power Manager input and output status.



	Inlet	Outlet											
	G1	A	B	C	D	E	F	G	H	I	J	K	L
Voltage (V)	228.6	228.6											
Current (A)	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power (W)	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Kilo-Watt Hours	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Power Factor(%)	None	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alarm	None	None	None	None	None	None	None	None	None	None	None	None	None

EMD			
EMD Temperature (°C)	29.5	EMD Humidity (%)	39.6
EMD Door-1	Disabled	EMD Door-2	Disabled

NOTE: Each menu page provides online help to assist users in configuring the IP Power Manager. Click the  icon at the top of each page to view the help

5.1.2 Control

This page shows the associated status and even action of inlet.

- Power Management
- Status
- Control**
- Schedule
- Environment
- System
- Network
- Logs
- Language Selection
- External Links
- PLANET

IPM Control

Configure Inlet

	Inlet G1
Voltage (V)	228.7
Current (A)	0.10
Frequency (Hz)	60.0
Voltage Threshold High (V)	240
Voltage Threshold Low (V)	200

Set Value

Inlet Events Action

Event	Turn Off Outlets	Digital C
Inlet G1 Voltage Over Threshold High	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1
Inlet G1 Voltage Under Threshold Low	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1

Set Value

Option	Description
Configure Inlet	
Voltage (V)	The current input voltage in Volt.
Current (A)	The current input currents in Amp.
Frequency (Hz)	The current input frequency in Hz.
Voltage Threshold High (Volt)	High threshold of input voltage. When input voltage is higher than this value, IP Power Manager will take action specified in the "Inlet Events Action" table.
Voltage Threshold Low (Volt)	Low threshold of input voltage. When input voltage is lower than this value, IP Power Manager will take action specified in the "Inlet Events Action" table.
Inlet Events Action	
Input Voltage Over Threshold High	Turn off selected outlets or digital outputs will occur when the input voltage over high set point.
Input Voltage Under Threshold Low	Turn off selected outlets or digital outputs will occur when the input voltage under low set point.

Configure Outlet

	Outlet											
	Max. Load : 10A each outlet and 10A total			Max. Load : 10A each outlet and 10A total			Max. Load : 10A each outlet and 10A total			Max. Load : 10A each outlet and 10A total		
Outlet Name	DVR	OUTLETB	OUTLETC	OUTLETD	OUTLETE	OUTLETF	OUTLETG	OUTLETH	OUTLETI	OUTLETJ	OUTLETK	OUTLETL
Location	ROOM	ROOM-2	ROOM-3	ROOM-4	ROOM-5	ROOM-6	ROOM-7	ROOM-8	ROOM-9	ROOM-10	ROOM-11	ROOM-12
Power On Delay (Secs)	5	10	15	20	25	30	35	40	45	50	55	60
Power Off Delay (Secs)	5	10	15	20	25	30	35	40	45	50	55	60
Output Current Over Threshold (A)	1.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Set Value

Manual Control

	Outlet						
	A	B	C	D	E	F	G
Outlet Name	A	B	C	D	E	F	G
Outlet Status	power on	power on	power on	power on	power on	power on	power on
Outlet Action	None	None	None	None	None	None	None

Set Value

Option	Description
Configure Outlet	
Outlet Name	Set the name of this outlet.
Location	Set the name of the location of this outlet.
Power On Delay (Secs)	Set power on delay time in seconds. The outlet will turn on after the delay time.
Power Off Delay	Set power off delay time in seconds. The outlet will turn off after the



(Secs)	delay time.
Output Current Threshold (A)	Set the upper limit of output current in Amp.
Manual Control	
Outlet Status	It shows the status of Power. Power on / Power off / Planning on / Planning off.
Outlet Action	You can select the Power action. Power on / Power off / Power cycle.

5.1.3 Schedule

This page allows user to add or remove the IP Power Manager's schedule list dynamically. The maximum schedule is 32.

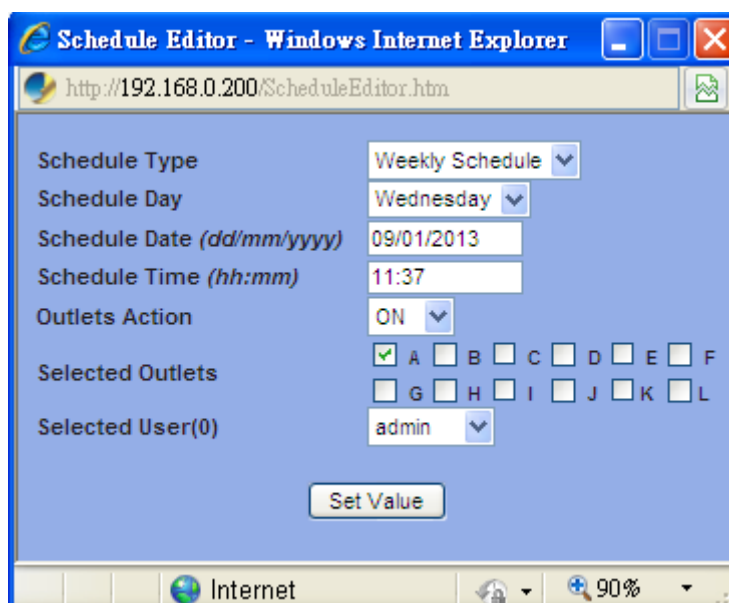
IPM Schedule

Schedule List

Index	Type	Day / Date Weekday / (dd/mm/yyyy)	Time (hh:mm)	Action	Outlets	User Name	Modify
1		Thursday	10:48	ON	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	admin	Edit Delete
2		Thursday	10:52	OFF	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	admin	Edit Delete

[Add New](#)

When you would like to add a new schedule, please press “Add New”. Then you will see the screen below. When “Edit” button click, you will also see this screen for edit the existing schedule. If you want to delete the schedule, please press “Delete” button.



Option	Description
Schedule Type	Choose the schedule type to be "Weekly Schedule" or "Special Schedule".
Schedule Day	Set the week day of the schedule, if the "Schedule Type" is "Weekly Schedule". Set the specific date of the schedule, if the "Schedule Type" is "Special Schedule".
Schedule Date (yyyy/mm/dd)	Set the date of this schedule.
Schedule Time (hh:mm)	The time in 24-hour format means when the outlet should turn off or turn on its output power.
Outlets Action	Set the outlet action to be on or off. IP Power Manager will take action at schedule time.
Selected Outlets	Choose the outlets which you want to turn on or off at schedule time.
Select User	Choose the user to add the Schedule.

5.2 Power Environment

When the console port connected with the EMD, the web interface will show this option for environment monitoring and setting. If the IP Power Manager does not connect with the EMD, the web interface will not show this setup option.

5.2.1 Status

This page shows the temperature, humidity, and alarms information of the EMD (Environmental Monitoring Device). If there is alarm occurred, the alarm text color should change to Red. Otherwise, it is Black.

Status of Environment Sensor

Temperature and Humidity

EMD Temperature(°C)	25.8
EMD Humidity(%)	44.3

Alarm

EMD Door-1	Disabled
EMD Door-2	Disabled

5.2.2 Configuration

This page allows user to configure all necessary parameters of EMD (Environmental Monitoring Device).

Environment Sensor

Configure EMD


Sensor	Sensor Name	Set Point (Low)	Set Point (High)	Calibration Offset
Temperature (°C)	EMD Temperature	<input type="checkbox"/> 5	<input type="checkbox"/> 40	0.0 <input type="text"/>
Humidity (%)	EMD Humidity	<input type="checkbox"/> 20	<input type="checkbox"/> 80	0.0 <input type="text"/>
Alarm-1	EMD Door-1	Disabled <input type="text"/>		
Alarm-2	EMD Door-2	Disabled <input type="text"/>		
EMD Status	Auto <input type="text"/>			
EMD Temperature Unit	Celsius <input type="text"/>			

Set Value

Option	Description
Sensor Name	Configure the name of a sensor (or device) with up to 15 characters.
Set Point	The threshold of a sensor (Temperature or Humidity) will trigger an alarm, whenever the measurement is over (high) or under (low) the set point. If the checkbox is not filled, the threshold is disabled and the alarm will not be triggered. The valid range for the Temperature threshold setting is 5 to 65, and 5 to 95 for Humidity.
Calibration Offset	If the measurement value of a sensor doesn't, for whatever reason, comply with the actual environment, the 'Calibration Offset' setting can be configured to adjust the final value of the sensor. For example, if a sensor reports 43% humidity for a 45% humidity environment, the user can configure the humidity offset as 2% so the sensor can then adjust its final value to 45%.
Alarm Type	If an alarm sensor (water leak, security, etc) is connected to the IP Power Manager, the user can configure the alarm as 'Disabled', 'Normal Open', or 'Normal Close'. A 'Disabled' setting will mean the alarm is inactive. 'Normal Open' and 'Normal Close' are used for a two-wire detector that will emulate an open/close state. When the wires are closed to 'loop-back' (the signal for the sensor), the sensor will detect the state as closed. The sensor will NOT activate the alarm for 'Normal Close' in this case, although the alarm will be activated if configured as 'Normal Open'.
EMD Status	The EMD can be configured as 'Disabled' or 'Auto'. The setup should be configured as 'Disabled' if an EMD is not attached to the port. The EMD type will be auto detected by the IP Power Manager if configured as 'Auto' and if the EMD is plugged into the port.
EMD Temperature Unit	Choose the displayed temperature unit to "Celsius" or "Fahrenheit".

5.2.3 Alarm

This page allows user to modify the parameters associated with the environment events.

Environment Sensor 

Environment Events Action


Event	Turn Off Outlets	Digital Output
Temperature Over High Set Point	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2
Temperature Under Low Set Point	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2
Humidity Over High Set Point	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2
Humidity Under Low Set Point	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2
Alarm-1 Active	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2
Alarm-2 Active	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L	<input type="checkbox"/> 1 <input type="checkbox"/> 2

Set Value

5.3 Power System

5.3.1 Configuration

This page contains three groups, "Configure System", "Administrator Name and Password", and "Control" group. Configuration of this page is allowed when the security level is "Administrator".

Configuration of IPM 

Configure System

System Name
System Contact
System Location
SNMP Read Community
SNMP Write Community
History Log Interval (Sec)

IPM Remote Power System
Technical Support Team

.....
.....
3600

Set Value

Administrator User Name and Password

Administrator User Name
Administrator Password
Confirm Administrator Password

admin
.....
.....

Set Value

Control

Reset to Default
Restart System

Option	Description
Configure System	
System Name	This field allows the user to set the value in System name that is defined in MIB-II or to view the current setting. Size is 31 characters.
System Contact	This field allows the user to set the value in System manager (System Contact) that is defined in MIB-II or to view the current setting. Size is 31 characters.

System Location	This field allows the user to set the value in System installation place (System Location) that is defined in MIB-II or to view the current setting. Size is 31 characters.
SNMP Read Community	This field allows the user to set the read level community of SNMP or to view the current setting. Size is 31 characters.
SNMP Write Community	This field allows the user to set the write level community of SNMP or to view the current setting. Size is 31 characters.
History Log Interval	This field allows the user to set the polling time (in seconds) of the Input, Output and EMD (if connected) information. The readings will be stored in the history log.
Administrator User Name and Password	
Administrator User Name	You may enter the administrator user name, and the default value is "admin". Size is 31 characters.
Administrator Password	You may set the administrator password, and the default value is "admin". Size is 31 characters.
Confirm Administrator Password	Confirm the password again, and the value should be the same as "Administrator Password". Size is 31 characters.
Control	
Reset to Default	All of the configurations will reset to the default value.
Restart System	You may restart the system by click the button.

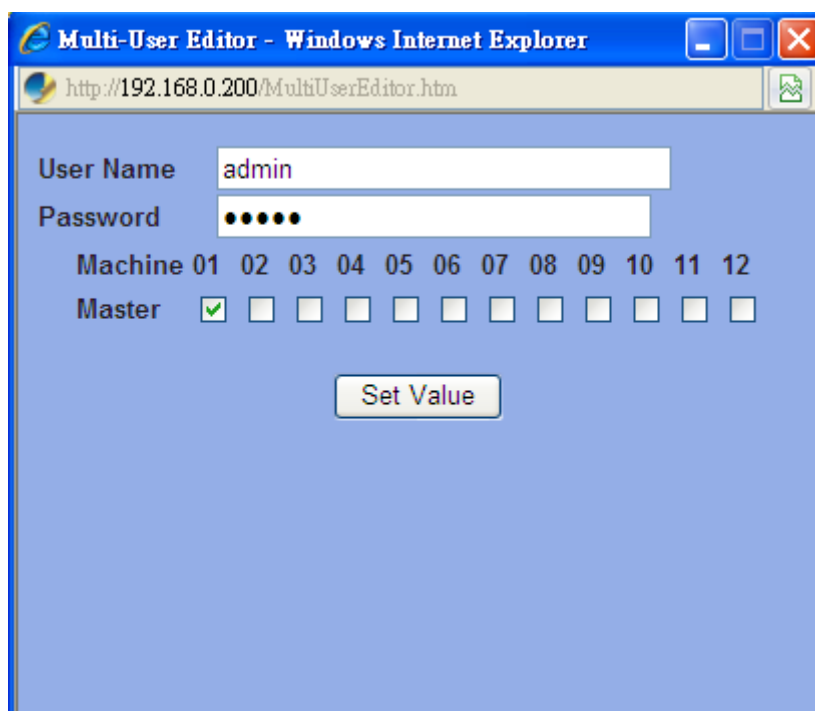
5.3.2 Multi-User

This page allows user to add or remove the IP Power Manager's multi-user list dynamically. The maximum schedule is 10.

Multi-User Configuration of IPM

Multi-User List

Index	User Name	Password	Outlet Control Privilege	Modify
1	admin	****	Master : <input checked="" type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	brandon	****	Master : <input type="checkbox"/> 01 <input checked="" type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12	<input type="button" value="Edit"/> <input type="button" value="Delete"/>



Option	Description
Index	This column provides a reference number for the existence user.
User Name	The user name which is used to log in the IP Power Manager system.
Password	The password which is used to log in the IP Power Manager system.
Outlet Privilege	The security level for each outlet. There are two kinds of security level, one is "Read/Write", and the other is "Read".
Modify	Clicking on the "Add New" or "Edit" button will pop up "Multi-User Editor" window which could configure the setting of schedule. Clicking on the "Delete" button will remove an existence user.

5.3.3 Date & Time

This page provides the appropriate options below to enable the IP Power Manager date/time to be changed in different methods. It will show the current date and time of the IP Power Manager. This can be changed to synchronize with a computer, and enquiry from a time server (NTP) or manually. For the system time, it should be counted automatically.

Date and Time of IPM

Current Date And Time

IPM System Date (dd/mm/yyyy)

10/01/2013

IPM System Time (hh:mm:ss)

17:10:02

Configure Date and Time

☐ Set Manually

Date (dd/mm/yyyy)

10/01/2013

Time (hh:mm:ss)

17:09:58

☒ Synchronize With Computer Time

Computer Date(dd/mm/yyyy)

10/01/2013

Computer Time(hh:mm:ss)

17:10:04

☐ Synchronize With NTP Server

IP Address

0.0.0.0

Time Zone

GMT Dublin,Lisbon,London

☐ Enable Daylight Saving Time

Set Value

Option	Description
Current Date and Time	
IP Power Manager System Date	Current date of the IP Power Manager, format is dd/mm/yyyy.
IP Power Manager System Time	Current time of the IP Power Manager, format is hh:mm:ss.
Configure Date and Time	
Set Manually	User can set the date and time with the following format: dd/mm/yyyy and hh:mm:ss.
Synchronize with computer time	Select this option and click 'Set Value' to synchronize with the time from the computer clock.
Synchronize with NTP server	You must configure the NTP server IP and select the correct timezone to activate this option. After being configured to synchronize with NTP, the IP Power Manager will synchronize its time with the server

periodically. If Daylight Saving Time enabled, the time will be one hour earlier than NTP server time.

5.3.4 Trap Receivers

This page lists the parameters for SNMP trap receivers (For SNMP Network Management).

SNMP TRAP Receivers of IPM



TRAP Receivers Table

Index	NMS IP Address	Community	Trap Type	Severity	Description
1	192.168.0.89	*	IPM Trap	Informational	
2	0.0.0.0	*	None	Informational	
3	0.0.0.0	*	None	Informational	
4	0.0.0.0	*	None	Informational	
5	0.0.0.0	*	None	Informational	
6	0.0.0.0	*	None	Informational	
7	0.0.0.0	*	None	Informational	
8	0.0.0.0	*	None	Informational	

Set Value

Option	Description
Index	The index number of the entry in the table.
NMS IP Address	The IP Address in dotted format of the NMS station to which the trap should be sent.
Community	The community string of the trap PDU to be sent. The maximum length of the string is 19 characters.
Trap Type	Types of the traps to be received. Set the type of the trap. [None]: Traps are not being received. [IP Power Manager Trap]: Traps are received base on IP Power Manager MIB.
Severity	Set the level of the trap to be received. [Information]: All traps are received. [Warning]: Trap that need to be noticed and are in dangerous is received. [Severe]: The significant traps such as the outlet voltage over threshold are received.
Description	Customer description string.

5.3.5 WakeOnLAN

IP Power Manager has support WOL function to wake your PCs up. This function can help your servers work again after the power interruption.

IPM WakeOnLAN

Wake On LAN Configuration

Repeating Times	2
Interval Timer(Seconds)	10

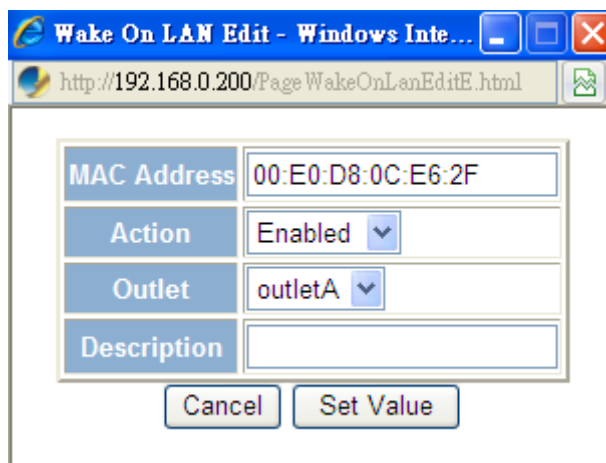
Set Value

Wake On LAN List

Index	MAC Address	Action	Outlet Define	Description	Modify
1	00:E0:D8:0C:E6:2F	Enable	outletA		Edit Delete

Add New

Wake on LAN Test



Option	Description
Repeating Times	The times of WOL packet IP Power Manager will send.
Interval Timer (Sec)	The interval between send next WOL packets.
Index	The index number of the entry in the table.
MAC Address	MAC address of the PC you would like to wake up.
Action	You can select Enable or Disable this option.
Outlet Define	Please select one of the outlets or keep the default setting.
Description	Customer description string.
Modify	You can press Edit to modify the MAC table or press Delete to delete the MAC address table.
Wake On LAN Test	You may press this button to make sure the data of MAC tables are

	correct.
--	----------

5.3.6 Email Notification

This page is allowed when the security level is "Administrator". There are two groups in this page, one is "General Configuration" group and the other is "Email Receivers Tables".

Email Notification of IPM

General Configuration

Mail Server
User Account
User Password
Sender's Email Address
DNS Address
Mail Daily Status Report At (hh:mm)

mail.planet.com.tw
brandonw

brandonw@planet.com.tw
168.95.1.1
00:00

Email Receivers Table

Index	Mail Account	Description	Mail Type	Event Level
1	brandonw		Events/Status	Informational
2			None	Informational
3			None	Informational
4			None	Informational
5			None	Informational
6			None	Informational
7			None	Informational
8			None	Informational

Set Value Send Test

Option	Description
General Configuration	
Mail Server	As Administrator, you may enter the IP Address or Hostname of a SMTP mail server that will be used to send email messages from the IP Power Manager. If entering a Hostname, you are also required to enter the DNS Address. If entering an IP Address, the DNS Address field will automatically be populated with the IP Address you entered.
User Account	As Administrator, you may enter the User Account of the mail server that will be used by the IP Power Manager to login mail server to forward mails.
User Password	As Administrator, you may enter the User Password of User Account.
Sender's Email Address	This field specify the content of the 'From' field of the Email. If this field left blank, the sender's address will be: account@ip_address.
DNS Address	As Administrator, you are required to enter the IP address of your network DNS server if you entered a Hostname for the Mail Server. Otherwise, this field will contain 0.0.0.0.
Mail Daily Status Report At (hh:mm)	If you intend to have the IP Power Manager send a Daily Status report to select email address (Mail Accounts), you need to enter the time of

	day in 24-hour format at which time you want the email sent.
Email Receivers Tables	
Mail Account	As Administrator, you may enter the email address of the individual you wish to have the IP Power Manager send mail to.
Description	As Administrator, you may enter a description for reference purposes for each of the Mail Account you configure.
Mail Type	<p>As Administrator, you are allowed to select what type of email is sent to a specific Mail Account. The choices are None, Events, Daily Status, or Event/Status.</p> <p>The default of None allows you to disable the sending of email to a specific recipient.</p> <p>Selecting Events specifies that the recipient should only receive short event-related messages.</p> <p>Selecting Daily Status specifies that the recipient should only receive the Daily Status message that contains two file attachments containing information logged by the IP Power Manager (in .csv format suitable for viewing in Microsoft Excel). One attachment contains the History Log contents (Logged IP Power Manager data) and the other contains the Event Log contents (Logged Event text).</p> <p>Selecting Events/Status specifies that the recipient should receive an email message containing the event-related notification and the two file attachments (as described above), each time an event notification is sent.</p>
Event Level	As Administrator, you are allowed to select the severity level of notification you wish to send to each Mail Account configured to be sent Mail Type: Events or Events/Status. This filter is based on the SNMP-based traps (events) and allows selection of Informational, Warning or Severe. Refer to the MIB documentation included with the adapter for more information.

5.3.7 Upgrade

This page is allowed user to upgrade the firmware of IP Power Manger. You can press "Browse" to select the firmware and upgrade.

IPM Upgrade
?

Browse...

Upload Agent Firmware

Upload Status :
Agent Stand By...

5.3.8 External Links

This page describes the setting of External Links. Up to four links can be setup by this page, each link can config to an external web page that user can easily connect to related web pages. Such as another IP Power Manager or Technical Support homepage.

External Links of IPM
?

Links Table

Index	Screen Text	Link Address	Status
1	PLANET	192.168.0.141	Enabled ▼
2			Disabled ▼
3			Disabled ▼
4			Disabled ▼

Set Value

Option	Description
Screen Text	This is the description of link name which will display on the menu tree for user's reference.
Link Address	This field defines the real name of web page to be connected, in URL format.
Status	There are two kinds of status, "Enabled", and "Disabled". If the setting is "Enabled", the screen text will be shown on the main menu frame.

5.4 Network

5.4.1 Configuration

Configuration of this page is allowed when the security level is "Administrator". If user reset configurations to default, the configuration of "IP Address", "Gateway Address" and "Subnet Mask" will also be kept.

Network Configuration of IPM

General TCP/IP Configuration

IP Address

Gateway Address

Subnet Mask

DNS Address

192.168.0.200

192.168.0.254

255.255.255.0

168.95.1.1

Option	Description
IP Address	The IP address of IP Power Manager is dotted format. Default value is "192.168.1.1", and size is 15 characters.
Gateway Address	The IP address of the gateway is dotted format. Default value is "0.0.0.0", and size is 15 characters.
Subnet Mask	The subnet mask of IP Power Manager is dotted format. Default value is "255.255.255.0", and size is 15 characters.
DNS Address	As Administrator, you are required to enter the IP address of your network DNS server if you entered a Hostname for the Mail Server. Otherwise, this field will contain 0.0.0.0.

5.4.2 Control

Configuration of this page is allowed when the security level is "Administrator". It allows user to change some network ports, and enabled or disabled the function of protocols.

Network Control of IPM

TCP/IP Control

Protocol	Port	Status
BootP/DHCP		Enabled <input type="button" value="v"/>
PING Echo		Enabled <input type="button" value="v"/>
Network Upgrade	UDP 69	Enabled <input type="button" value="v"/>
Telnet Connection	TCP <input type="text" value="23"/>	Disabled <input type="button" value="v"/>
HTTP Support	TCP <input type="text" value="80"/>	Enabled <input type="button" value="v"/>
SNMP Support	UDP <input type="text" value="161"/>	Enabled <input type="button" value="v"/>

Option	Description
BootP / DHCP Status	This is the parameter enabling or disabling the Boot Protocol (BootP) / Dynamic Host Configuration Protocol (DHCP) process. These protocols are used to obtain a dynamic IP address from a BootP / DHCP server.
PING Echo	Enable/Disable the IP Power Manager to respond to Ping requests.
Network Upgrade	This is the parameter enabling or disabling the Trivial File Transfer Protocol (TFTP) upgrade control. You can use the provided upgrade utility on Windows via TFTP to upgrade the IP Power Manager firmware.
Telnet Connection	This is the parameter enabling or disabling the terminal to the server application (Telnet) control process. (e.g. telnet 192.168.1.1). The user may configure the Telnet protocol to use a port number other than the standard Telnet port (23).
HTTP Support	Enable/Disable the HTTP connection with the IP Power Manager. The user may configure HTTP protocol to use a port number other than standard HTTP port (80).
SNMP Support	Enable/Disable the SNMP connection with the IP Power Manager. The user may configure the SNMP protocol to use a port number other than the standard SNMP port (161).

5.4.3 Access Control

Configuration of this page is allowed when the security level is "Administrator". It prevents unauthorized network access to the IP Power Manager. There are 2 kinds of type for "Access Type", "Permitted", and "Denied". It is need to set the first item for its "IP Address" to "255.255.255.255" and "Access Type" to "Permitted" as default value in order to let user is able to connect to the IP Power Manager.

SNMP/HTTP Access Control of IPM
?

Access Control Table

Index	IP Address	Access Type
1	255.255.255.255	Permitted ▼
2	0.0.0.0	Denied ▼
3	0.0.0.0	Denied ▼
4	0.0.0.0	Denied ▼
5	0.0.0.0	Denied ▼
6	0.0.0.0	Denied ▼
7	0.0.0.0	Denied ▼
8	0.0.0.0	Denied ▼
9	0.0.0.0	Denied ▼
10	0.0.0.0	Denied ▼
11	0.0.0.0	Denied ▼
12	0.0.0.0	Denied ▼

Option	Description
Index	The index number of the entry in the table.
IP Address	The management station's IP address. "0.0.0.0" means entry not configured. (e.g. An entry "192.168.7.255" means the client with the IP address within the range from "192.168.7.0" to "192.168.7.255" become the management station with the access type set by Administrator. "255.255.255.255" grant the access right to all IP.
Access Type	Available options are: Permitted and Denied.

5.5 Logs

This page gives a snap-shot of all the fundamental IP Power Manager parameters. The Administrator can change consolidation interval by modifying the variable "History Log Interval" in "Configuration of IP Power Manager" page. The existing values are overwritten when the maximum number of entries (rows) has been reached. You can clear the log data in "Clear & Save" menu.

5.5.1 History

You will see the history log list in this screen. You may select one of them to check the log content. If an EMD is connected, it will also log the following information.

- Power Management
- Environment
- System
- Network
- Logs

History

- Overall IPM
- Outlets Current
- Outlets Load

Event

Clear & Save

History Log of IPM

Logs

- From 09/01/2013 11:00:00
- From 07/01/2013 17:00:00 To 08/01/2013 13:00:00

Log Date (dd/mm/yyyy)	Log Time (hh:mm:ss)	Inputs			Power (W)	Cumulative Kilo-Watts Hours	EMD Device	
		Voltage (V)	Current (A)	Frequency (Hz)			Temperature (°C)	Humidity (%)
		G1	G1	G1				
09/01/2013	11:00:00	227.4	0.10	60.0	9.2	0.16	28.1	44.6
09/01/2013	12:00:00	230.4	0.10	60.0	9.2	0.17	28.0	44.1
09/01/2013	13:00:00	229.9	0.10	60.0	9.2	0.18	28.7	41.7
09/01/2013	14:00:00	228.7	0.10	60.0	7.6	0.19	29.3	41.6
09/01/2013	15:00:00	229.0	0.10	60.0	7.6	0.19	29.4	40.2
09/01/2013	16:00:00	228.7	0.10	60.0	7.6	0.20	28.4	41.4
09/01/2013	17:00:00	228.8	0.00	60.0	0.0	0.21	27.0	44.0
09/01/2013	18:00:00	228.8	0.00	60.0	0.0	0.21	26.8	46.3
09/01/2013	19:00:00	229.8	0.07	60.0	4.8	0.21	28.5	40.4
09/01/2013	20:00:00	230.6	0.06	60.0	4.8	0.22	27.5	42.8
09/01/2013	21:00:00	231.7	0.06	60.0	6.4	0.22	26.5	44.5
09/01/2013	22:00:00	232.1	0.06	60.0	4.8	0.23	26.3	44.7
09/01/2013	23:00:00	232.3	0.06	60.0	6.4	0.24	26.3	44.8
10/01/2013	00:00:00	233.7	0.06	60.0	6.4	0.24	26.3	44.6
10/01/2013	01:00:00	234.5	0.06	60.0	6.4	0.25	26.1	44.7
10/01/2013	02:00:00	236.9	0.06	60.0	6.4	0.25	26.0	44.8
10/01/2013	03:00:00	235.9	0.06	60.0	6.4	0.26	26.0	44.5
10/01/2013	04:00:00	237.1	0.06	60.0	6.4	0.27	26.1	44.3
10/01/2013	05:00:00	237.3	0.06	60.0	6.4	0.27	26.0	44.1
10/01/2013	06:00:00	236.4	0.06	60.0	4.8	0.28	26.1	44.2
10/01/2013	07:00:00	235.4	0.06	60.0	6.4	0.28	26.0	44.1
10/01/2013	08:00:00	232.4	0.06	60.0	6.4	0.29	26.1	44.0
10/01/2013	09:00:00	228.7	0.07	60.0	6.4	0.30	26.2	43.3

Log Date (dd/mm/yyyy)	Log Time (hh:mm:ss)	Power (W)												Cumulative Kilo-Watt Hours												Power Factor (%)																	
		A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	E	F	G	H	I	J	K	L						
07/01/2013	17:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
07/01/2013	18:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/01/2013	19:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/01/2013	20:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/01/2013	21:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/01/2013	22:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/01/2013	23:00:00	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	00:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	01:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	02:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	03:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	04:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	05:00:00	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	06:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	07:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	08:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	09:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	10:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	11:00:00	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	12:00:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/01/2013	13:00:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.5.2 Event

You will see the event log list in this screen. You may select one of them to check the log content.

Event Log of IPM

Logs

- [From 10/01/2013 10:10:51](#)
- [From 09/01/2013 18:42:08 To 10/01/2013 10:10:47](#)
- [From 09/01/2013 18:01:14 To 09/01/2013 18:42:08](#)
- [From 09/01/2013 16:47:25 To 09/01/2013 18:01:09](#)
- [From 09/01/2013 10:28:44 To 09/01/2013 16:47:19](#)
- [From 09/01/2013 10:21:28 To 09/01/2013 10:26:04](#)
- [From 08/01/2013 13:03:09 To 08/01/2013 13:16:49](#)
- [From 08/01/2013 11:30:29 To 08/01/2013 13:02:59](#)
- [From 08/01/2013 11:06:14 To 08/01/2013 11:30:29](#)
- [From 08/01/2013 10:37:31 To 08/01/2013 11:06:14](#)
- [From 08/01/2013 10:36:41 To 08/01/2013 10:37:28](#)
- [From 08/01/2013 10:35:02 To 08/01/2013 10:36:36](#)
- [From 08/01/2013 10:34:33 To 08/01/2013 10:34:58](#)
- [From 08/01/2013 10:33:02 To 08/01/2013 10:34:32](#)
- [From 07/01/2013 17:07:07 To 08/01/2013 09:54:25](#)
- [From 07/01/2013 16:57:06 To 07/01/2013 17:07:02](#)

Event Log of IPM

Date (dd/mm/yyyy)	Time (hh:mm:ss)	Event Description
09/01/2013	18:42:08	Router power on delay had changed from HTTP by 192.168.0.89
09/01/2013	18:42:08	Router power off delay had changed from HTTP by 192.168.0.89
09/01/2013	18:42:08	Router output current threshold had changed from HTTP by 192.168.0.89
09/01/2013	18:49:04	Router power has been turned off
09/01/2013	18:49:52	DVR power has been turned on
09/01/2013	18:49:52	Router power has been turned on
09/01/2013	18:50:01	Wake On LAN packet sent to clients
09/01/2013	18:50:11	Wake On LAN packet sent to clients
10/01/2013	09:53:57	Router output current threshold had changed from HTTP by 192.168.0.89
10/01/2013	10:09:38	Router power has been turned off
10/01/2013	10:10:09	Router power has been turned on
10/01/2013	10:10:27	DVR power has been turned off
10/01/2013	10:10:28	Router power has been turned off
10/01/2013	10:10:32	OUTLETB power has been turned off
10/01/2013	10:10:37	OUTLETC power has been turned off
10/01/2013	10:10:47	OUTLETE power has been turned off

5.5.3 Clear and Save Log Data



This screen allows you to clear or save the log file.

Clear And Save Log Data

Clear Log Data

<input type="checkbox"/> IPM History Log	<input type="checkbox"/> IPM Events Log	<input type="button" value="Clear"/>
--	---	--------------------------------------

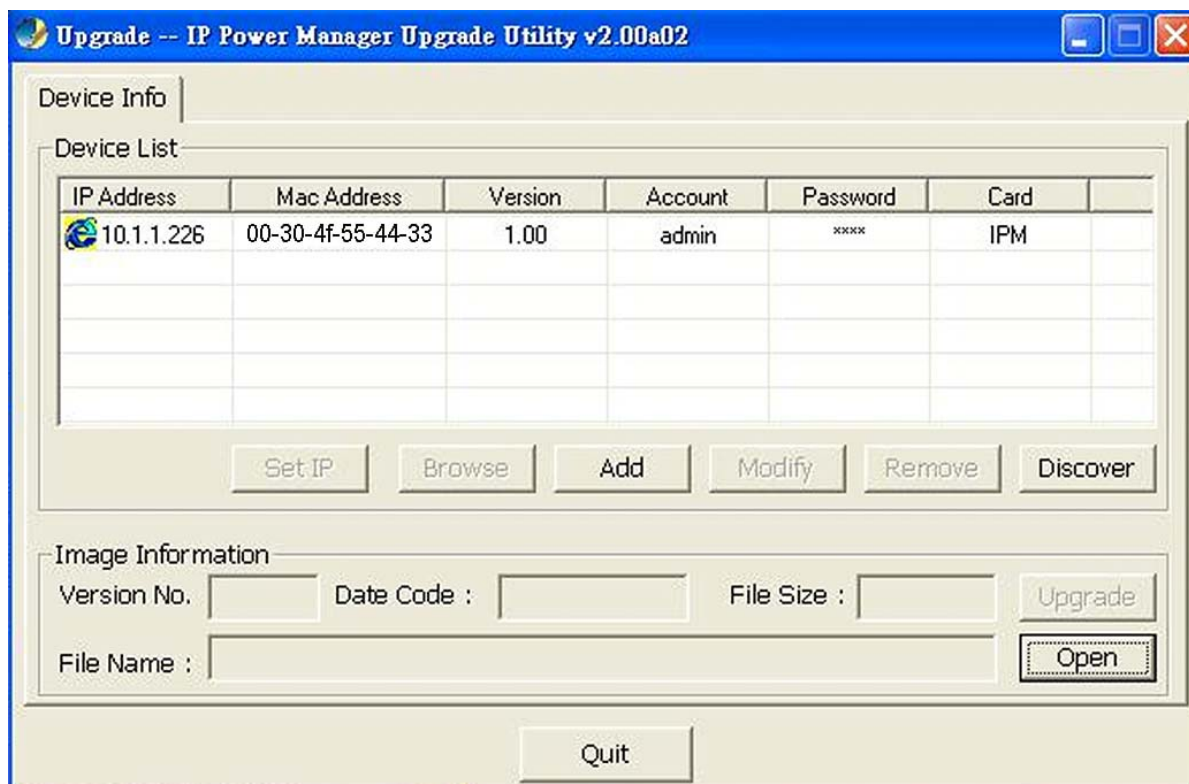
Save Log Data

	History Log of IPM
	Event Log of IPM

Option	Description
Clear Log Data	Please select which log you would like to delete and click "Clear" button.
Save Log Data	You can click the diskette icon to save History or Event log into a file.

Chapter 6 Utility

IP Power Manager has provided a utility for customer to set the IP address and upgrade. You can find this utility in "Utility" folder of bundled CD.



Buttons	Description
Device List	This will show you all the IP Power Manager in your network.
Set IP	Assign an IP address to IP Power Manager.
Browse	Open the configuration web page of selected IP Power Manager.
Add	If the knowing IP Power Manager is not appearing in the list, you can add this device to the list manually.
Modify	You may press this button to enter the default login user name and password of your IP Power Manager. Before some operating of this utility, you will need to enter the default login user name and password firstly.
Remove	Remove IP Power Manager from the list.
Discover	When your IP Power Manger is not in the list, you can press this button to search.
Upgrade	In default, this button will be gray. After press "Open" to locate the upgrade firmware. Then you can press this button to upgrade your IP Power Manager with the located firmware.

Open	Press this button to locate the firmware.
Quit	Close utility.

Appendix A Error Code

Description	Error Code
Network Link Down	E01
Parameters Checksum Error	E02
Input G1 Voltage Over Threshold High (Volt)	E03
Input G1 Voltage Over Threshold Low (Volt)	E04
Input G2 Voltage Over Threshold High (Volt)	E05
Input G2 Voltage Over Threshold Low (Volt)	E06
Outlet A Current Over Threshold (Amp)	E07
Outlet B Current Over Threshold (Amp)	E08
Outlet C Current Over Threshold (Amp)	E09
Outlet D Current Over Threshold (Amp)	E10
Outlet E Current Over Threshold (Amp)	E11
Outlet F Current Over Threshold (Amp)	E12
Outlet G Current Over Threshold (Amp)	E13
Outlet H Current Over Threshold (Amp)	E14
Outlet I Current Over Threshold (Amp)	E15
Outlet J Current Over Threshold (Amp)	E16
Outlet K Current Over Threshold (Amp)	E17
Outlet L Current Over Threshold (Amp)	E18
Input Source Abnormal (Should be 120v Model)	E19
Input Source Abnormal (Should be 230v Model)	E20

Appendix B Glossary

Authentication

Authentication refers to the verification of a transmitted message's integrity.

DHCP

DHCP (Dynamic Host Configuration Protocol) software automatically assigns IP addresses to client stations logging onto a TCP/IP network, which eliminates the need to manually assign permanent IP addresses.

DNS

DNS stands for Domain Name System. DNS converts machine names to the IP addresses that all machines on the net have. It translates from name to address and from address to name.

Domain Name

The domain name typically refers to an Internet site address.

Firmware

Firmware refers to memory chips that retain their content without electrical power (for example, BIOS ROM). The router firmware stores settings made in the interface.

Gateway

Gateways are computers that convert protocols enabling different networks, applications, and operating systems to exchange information.

Host Name

The name given to a computer or client station that acts as a source for information on the network.

HTTP

HTTP (HyperText Transport Protocol) is the communications protocol used to connect to servers on the World Wide Web. HTTP establishes a connection with a Web server and transmits HTML pages to client browser (for example Windows IE). HTTP addresses all begin with the prefix 'http://' prefix (for example, *http://www.yahoo.com*).

ICMP

ICMP (Internet Control Message Protocol) is a TCP/IP protocol used to send error and control messages over the LAN (for example, it is used by the router to notify a message sender that the destination node is not available).

IP

IP (Internet Protocol) is the protocol in the TCP/IP communications protocol suite that contains a network address and allows messages to be routed to a different network or subnet. However, IP does not ensure delivery of a complete message—TCP provides the function of ensuring delivery.

IP Address

The IP (Internet Protocol) address refers to the address of a computer attached to a TCP/IP network. Every client and server station must have a unique IP address. Clients are assigned either a permanent address or have one dynamically assigned to them via DHCP. IP addresses are written as four sets of numbers separated by periods (for example, 211.23.181.189).

LAN

LANs (Local Area Networks) are networks that serve users within specific geographical areas, such as in a company building. LANs are comprised of servers, workstations, a network operating system, and communications links such as the router.

MAC Address

A MAC address is a unique serial number burned into hardware adapters, giving the adapter a unique identification.

(Network) Administrator

The network administrator is the person who manages the LAN within an organization. The administrator's job includes ensuring network security, keeping software, hardware, and firmware up-to-date, and keeping track of network activity.

NTP

NTP (Network Time Protocol) is used to synchronize the real-time clock in a computer. Internet primary and secondary servers synchronize to Coordinated Universal Time (UTC).

Packet

A packet is a portion of data that is transmitted in network communications. Packets are also sometimes called frames and datagram's. Packets contain not only data, but also the destination IP address.

Ping

Ping (Packet Internet Groper) is a utility used to find out if a particular IP address is present online, and is usually used by networks for debugging.

Port

Ports are the communications pathways in and out of computers and network devices (routers and switches). Most PCs have serial and parallel ports, which are external sockets for connecting devices such as printers, modems, and mice. All network adapters use ports to connect to the LAN. Ports are typically numbered.

Protocol

A protocol is a rule that governs the communication of data.

Server

Servers are typically powerful and fast machines that store programs and data. The programs and data are shared by client machines (workstations) on the network.

SMTP

SMTP (Simple Mail Transfer Protocol) is the standard Internet e-mail protocol. SMTP is a TCP/IP protocol defining message format and includes a message transfer agent that stores and forwards mail.

SNMP

SNMP (Simple Network Management Protocol) is a widely used network monitoring and control protocol. SNMP hardware or software components transmit network device activity data to the workstation used to oversee the network.

Subnet Mask

Subnet Masks are used by IP protocol to direct messages into a specified network segment (i.e., subnet). A subnet mask is stored in the client machine, server or router and is compared with an incoming IP address to determine whether to accept or reject the packet.

TCP

(Transmission Control Protocol) is the transport protocol in TCP/IP that ensures messages over the network are transmitted accurately and completely.

TCP/IP

TCP/IP (Transmission Control Protocol/Internet Protocol) is the main Internet communications protocol. The TCP part ensures that data is completely sent and received at the other end. Another part of the TCP/IP protocol set is UDP, which is used to send data when accuracy and guaranteed packet delivery are not as important (for example, in real-time video and audio transmission).

The IP component of TCP/IP provides data routability, meaning that data packets contain the destination station and network addresses, enabling TCP/IP messages to be sent to multiple networks within the LAN or in the WAN.

Telnet

Telnet is a terminal emulation protocol commonly used on the Internet and TCP- or IP-based networks.

Telnet is used for connecting to remote devices and running programs. Telnet is an integral component of the TCP/IP communications protocol.

UDP

(User Datagram Protocol) is a protocol within TCP/IP that is used to transport information when accurate delivery isn't necessary (for example, real-time video and audio where packets can be dumped as there is no time for retransmitting the data).

WAN

WAN (Wide Area Network) is a communications network that covers a wide geographic area such as a country (contrasted with a LAN, which covers a small area such as a company building)