
GXR-300



User Guide

Wireless Router

WIRELESS G

English 01/2009 ps

Contents

1.	Introduction	6
1.1.	Package Contents	6
1.2.	System requirement	6
1.3.	Features	6
1.4.	The Front Panel (Description Panel Indicators)	7
1.5.	The Rear Panel.....	8
1.6.	Example.....	9
2.	Quick Installation Guide.....	10
2.1.	Control Panel.....	10
2.2.	Settings Wizard.....	11
2.3.	Static IP.....	12
2.4.	Dynamic IP.....	12
2.5.	PPPoE	13
3.	Configuring Guide	14
3.1.	System Status	14
3.2.	Network Settings	15
3.2.1.	WAN Settings	15
3.2.1.1.	Static IP	15
3.2.1.2.	Dynamic IP.....	16
3.2.1.3.	PPPoE.....	17
3.2.2.	LAN Settings	18
3.2.3.	DHCP Server	18
3.2.4.	Static Address Assign	19
3.2.5.	DHCP Clients List.....	20
3.2.6.	MAC Address Clone	20
3.3.	Wireless Settings	21
3.3.1.	Connect Status	21
3.3.2.	Basic Settings.....	21
3.3.3.	Security Settings	22
3.3.4.	Advanced Settings	23
3.3.5.	MAC Filtering.....	24
3.4.	NAT Settings	25
3.4.1.	Virtual Server.....	25
3.4.2.	Port Mapping.....	26
3.4.3.	Special Application.....	27
3.4.4.	ALG Settings	28
3.4.5.	DMZ Settings	28
3.5.	Firewall Settings	29
3.5.1.	Firewall Options.....	29
3.5.2.	IP Filtering	30
3.5.3.	Domain Filtering	31
3.5.4.	Content Filtering.....	32
3.5.5.	MAC Filtering.....	33
3.6.	Advanced Settings	34
3.6.1.	DDNS Settings.....	34
3.6.2.	UPnP Settings.....	35
3.6.3.	Static Router.....	35
3.7.	System Settings	36
3.7.1.	Time Settings.....	36
3.7.2.	Admin Settings	36
3.7.3.	Remote Management	37
3.7.4.	Firmware Upgrade	37
3.7.5.	Configuration Tools.....	38
3.7.6.	System Log	38
	DECLARATION OF COMPLIANCE	39

Safety precautions

CAUTION:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.



Warning:
To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only.



The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

WARNING: Do not use this device where contact with or immersion in water is a possibility. Do not use near flower vase, washbowls, kitchen sinks, laundry tubs, swimming pools, etc.

WARNING: Do not put the candle or lamp stand on the cabinet; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or 230 V) to your home, consult your local dealer or local power company.

WARNING: Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

Note: To ensure proper use of this product, please read this User manual carefully and retain for further reference.

Note: Do not open the cabinet to avoid the unit direct exposure to radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock, or other personal injury.

GLOBO GXR-300

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing device on a bed, sofa, or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this device through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on device.

Note: Moisture may be formed on the lens In the following conditions:

- when the unit is suddenly moved from a cold environment or an air-condition room to a warm place.
- immediately after a heater has been turned on.
- in a steamy or very humid room.

If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit In the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is In the proper condition.

Environment protection



Attention!

Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Information on Disposal for Users (private households) in the European Union

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one. *) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

Information on Disposal for Business Users

In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities,

In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

1. Introduction

1.1. Package Contents

Open the box carefully, check the following articles :

- one wireless broadband Router
- one power adapter
- one antenna
- one CD

Please contact with the franchiser timely if any damage on the product or any shortage of the accessories.

1.2. System requirement

- Broadband internet Access Service(DSL/Cable/Ethernet)
- One DSL/Cable Modem that has an RJ45 connector (you do not need it if you connect the router to the Ethernet)
- Each PC in the LAN needs a working Ethernet Adapter and an Ethernet cable with RJ45 connectors
- TCP/IP protocol must be installed on each PC
- Web browser, such as Microsoft Internet Explorer 6.0 or later, Netscape Navigator 6.0 or later.

1.3. Features

- Complies with IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u standards.
- 1 10/100M Auto-Negotiation RJ45 WAN port, 4 10/100M Auto-Negotiation RJ45 LAN ports, supporting Auto MDI/MDIX.
- Supports 54/48/36/24/18/12/9/6Mbps or 11/5.5/3/2/1Mbps data transfer rates.
- Provides WPA, WPA-PSK authentication, TKIP/AES encryption security.
- Shares data and Internet access for users, supporting PPPoE, Dynamic IP, Static IP Internet access.
- Supports Virtual Server, Special Application and DMZ host.
- Supports UPnP, Dynamic DNS, Static Routing, VPN Pass-through.
- Detachable reverse SMA connector Antenna.
- Connecting Internet on demand and disconnecting from the Internet when idle for PPPoE.
- Built-in NAT and DHCP server supporting static IP address distributing.
- Built-in firewall supporting IP address filtering, Domain Name filtering, and MAC address filtering.
- Supports connecting/disconnecting from the Internet on a specified time of day.
- Supports access control, parents and network administrators can establish restricted access policies based on time of day for children or staff.

GLOBO GXR-300

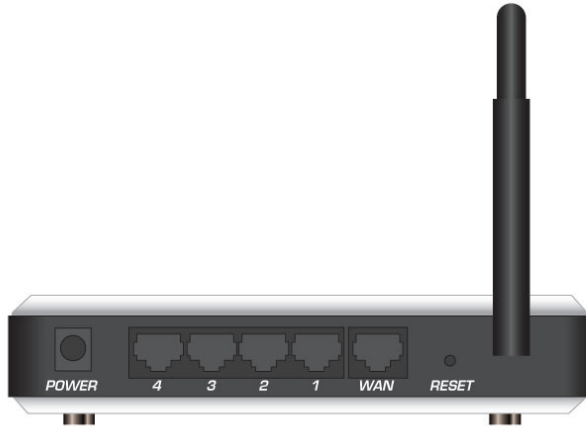
- Provides 64/128/152-bit WEP encryption security and wireless LAN ACL (Access Control List).
- Supports Flow Statistics.
- Supports ICMP-FLOOD, UDP-FLOOD, and TCP-SYN-FLOOD filter.
- Ignores Ping packets from WAN or LAN ports.
- Supports firmware upgrade.

1.4. The Front Panel (Description Panel Indicators)



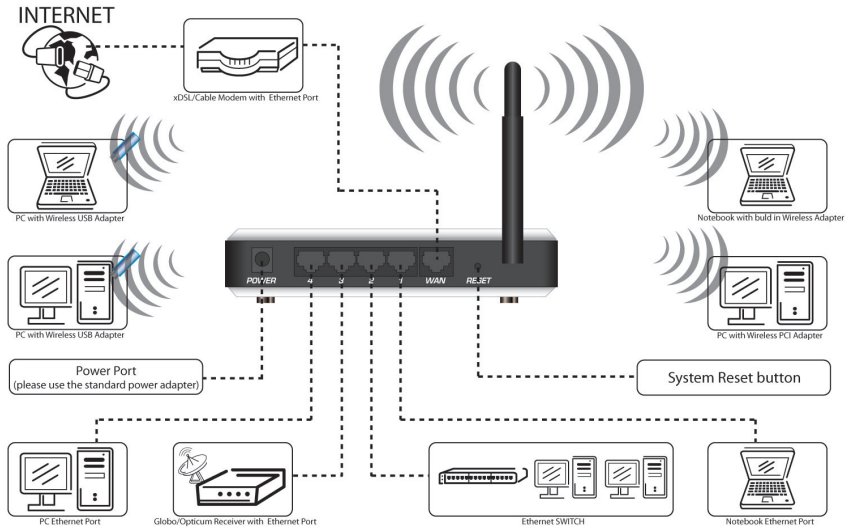
	Description
POWER LED	Power indicator
SYS LED	System indicator
WLAN LED	OFF - There is no wireless device linked to the router FLASHING - The Wireless function is enabled
WAN LED	ON - There is a device linked to the corresponding port FLASHING - There is an active device linked to the corresponding port
LAN LED	ON - There is a device linked to the corresponding port FLASHING - The is an active device linked to the corresponding port

1.5. The Rear Panel



	Description
POWER	Please use the power adapter which is supplied with the 54M Wireless router only
4, 3, 2, 1	Four RJ-45 ports, Computer and hubs / switches through these interfaces connected to LAN
WAN	Wide Area Network Interface (RJ-45). Connect xDSL Modem/Cable Modem or Ethernet
RESET	Press and hold the reset button for 5 seconds under the working state, the system will restore the factory default setting

1.6. Example

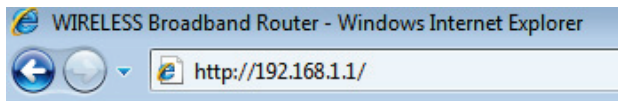


2. Quick Installation Guide

Launch a Web browser (Internet Explorer 6.0 or higher) when the computer and the 54M Wireless Router are correctly connected, close the proxy browser. Then input `http://192.168.1.1` into the browser address bar, press the Enter key, there will appear a login window as figure. Enter admin for the User Name and Password, both in lower case letters. Also you can modify the user name and the password to ensure the network security.

2.1. Control Panel

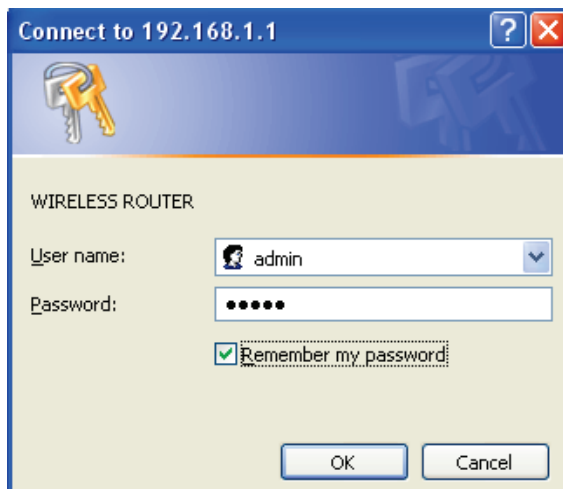
Launch a Web browser (Internet Explorer 6.0 or higher) when the computer and the 54M Wireless Router are correctly connected, close the proxy browser. Then input `http://192.168.1.1` into the browser address bar, press the Enter key, there will appear a login window as figure.



Enter admin for the *User Name* and *Password*, both in lower case letters. Also you can modify the user name and the password to ensure the network security.

Default User name is: admin

Default Password is: admin



If no login window, follow the below steps to solve the problem.

- Close the software agent such as WinGate, SyGate

- Launch the Web browser, go to Tools menu/Internet Option/Connections, select *Never dial a connection*, and go to the *LAN settings*, on the screen that appears, cancel all choices, and click Ok to finish it.
- Confirm the IP address 192.168.1.1 has not been assigned to other PC.
- Change the IP address of the computer to 192.168.1.2~254, subnet mask to 255.255.255.0, gateway to 192.168.1.1 or set up as automatically obtain IP address.

If the User Name and Password are correct, Router Management screen will appear.

The screenshot displays the router's configuration page. On the left is a navigation menu with options like System Status, Settings Wizard, Network Settings, Wireless Settings, MAC Address Bind, NAT Settings, QoS Settings, Firewall Settings, Advance Settings, and System Settings. The main content area is divided into three sections:

- LAN Status:** Shows MAC Address (00-e0-4b-e0-09-95), IP Address (192.168.2.1), Subnet Mask (255.255.255.0), Send Packets (288), and Receive Packets (794).
- WAN Status:** Shows Connection Type (Dynamic IP), Connection Status (Connected), Connect Time (00:05:55), MAC Address (00-e0-4b-e0-09-95), IP Address (192.168.1.10), Subnet Mask (255.255.255.0), Gateway Address (192.168.1.1), Primary DNS (213.199.225.10), Secondary DNS (213.199.225.14), and Send Packets (212). A Release button is present.
- Basic Information:** Shows Running Time (00:06:21) and Firmware Version (V7.1.1). A Refresh button is present.

2.2. Settings Wizard

The router supports three popular ways to connect to Internet. You can select one compatible with your ISP.

The screenshot shows the 'Wizard-WAN Connect Type' screen. It features a navigation menu on the left and a main content area with the following text:

Wizard-WAN Connect Type

This router support three ways to access internet, please select the way you want.

Static IP

Dynamic IP

PPPoE

Next

2.3. Static IP

If you choose the *Static IP*, the Static IP settings page will appear, show in figure, enter the *Static IP address, Subnet Mask, Default Gateway* and *DNS*.

Wizard-Static IP	
The ISP will provide you some essential network parameters if you apply Ethernet Broad Band Service and you have fixed IP address, please input correspondingly the following table. If you forget or don't know well please refer to your ISP .	
IP Address:	<input type="text" value="0.0.0.0"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway Address:	<input type="text" value="0.0.0.0"/> (optional)
Primary DNS Server:	<input type="text" value="0.0.0.0"/> (optional)
Secondary DNS Server:	<input type="text" value="0.0.0.0"/> (optional)
<input type="button" value="Back"/> <input type="button" value="Next"/>	

2.4. Dynamic IP

If you choose the *Dynamic IP*, the router will automatically receive the IP parameters from your ISP without needing to enter any parameter.

WAN Setting	
WAN Connect Type:	<input type="text" value="Dynamic IP"/>
IP Address:	<input type="text" value="192.168.1.13"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway Address:	<input type="text" value="192.168.1.1"/>
MTU:	<input type="text" value="1500"/> (Default:1500.Don't modify,unless you want)
Manually Set DNS:	<input type="checkbox"/>
Primary DNS:	<input type="text" value="0.0.0.0"/>
Secondary DNS:	<input type="text" value="0.0.0.0"/> (Optional)
<input type="button" value="Save"/> <input type="button" value="Help"/>	

2.5. PPPoE

If you choose the *PPPoE*, figure will appear, please enter the user name and the password provided by your ISP.

Wizard-PPPOE

When you apply for virtual ADSL dial-up service, The ISP will provide account and password for internet. If you forget or don't know well please refer to your ISP.

Username:	<input type="text"/>
Password:	<input type="password"/>

3. Configuring Guide

In this chapter we will introduce some detail router settings, such as wireless advanced configuration, wireless access control, network security configuration, system maintenance, upgrades etc.

3.1. System Status

Click on the *System Status* in the menu bar, you can see the current system status and configuration. All information is read-only.

The screenshot shows the 'System Status' page for the GLOBO GXR-300 router. The page is divided into three main sections: LAN Status, WAN Status, and Basic Information. Each section displays a table of network parameters and a 'Refresh' button.

LAN Status	
MAC Address:	00-e0-4b-e0-09-95
IP Address:	192.168.2.1
Subnet Mask:	255.255.255.0
Send Packets:	286
Receive Packets:	794

WAN Status	
Connection Type:	Dynamic IP
Connection Status:	Connected <input type="button" value="Release"/>
Connection Time:	00:05:55
MAC Address:	00-e0-4b-e0-09-95
IP Address:	192.168.1.10
Subnet Mask:	255.255.255.0
Gateway Address:	192.168.1.1
Primary DNS:	213.199.225.10
Secondary DNS:	213.199.225.14
Send Packets:	212
Receive Packets:	898

Basic Information	
Running Time:	00:06:21 <input type="button" value="Refresh"/>
Firmware Version:	V7.1.1

System Status including three submenus: LAN Status, WAN Status, and Basic Information.

LAN Status

This field displays the current settings or information for the LAN, including the MAC address, IP address and the Subnet Mask, Send Packets quantity through the LAN port.

WAN Status

This column show the parameters apply to the WAN port of the router, including WAN connection type, WAN connection time, MAC address, IP address, Subnet Mask, Default Gateway ,DNS server and the data packets quantity through the WAN port.

Basic Information

This field displays the total up time of the router from when it was switched on or reset and the software version.

3.2. Network Settings

There are several submenus under the Network Menu. You can configure the corresponding function by clicking any of them. The detailed introductions for each submenu are provided below.

3.2.1. WAN Settings

WAN port parameters vary with the type of the WAN port, you should choose the WAN Connection Type for Internet at first.

3.2.1.1. Static IP

If you choose *Static IP*, you should have fixed IP Parameters specified by your ISP/The Static IP settings page will appear.

WAN Setting	
WAN Connect Type:	Static IP
IP Address:	0.0.0.0
Subnet Mask:	255.255.255.0
Gateway Address:	0.0.0.0 (Optional)
MTU:	1500 (Default: 1500. Don't modify, unless you want)
Primary DNS:	0.0.0.0 (Optional)
Secondary DNS:	0.0.0.0 (Optional)
<input type="button" value="Save"/> <input type="button" value="Help"/>	

- **IP Address** - Enter the IP address in dotted-decimal notation provided by your ISP.
- **Subnet Mask** - Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- **Default Gateway** - (Optional) Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- **MTU Size** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs you need to reduce the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
- **Primary DNS** - (Optional) Enter the DNS address in dotted-decimal notation provided by your ISP.
- **Secondary DNS** - (Optional) another DNS address in dotted-decimal notation provided by your ISP if provided.

3.2.1.2. Dynamic IP

If you choose *Dynamic IP*, the Router will automatically get IP parameters from your ISP. You can see the page as following.

WAN Setting	
WAN Connect Type:	Dynamic IP ▾
IP Address:	192.168.1.13
Subnet Mask:	255.255.255.0
Gateway Address:	192.168.1.1
MTU:	1500 (Default:1500.Don't modify,unless you want)
Manually Set DNS:	<input type="checkbox"/>
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0 (Optional)
<input type="button" value="Save"/> <input type="button" value="Help"/>	

- **WAN Connect Type** - This router support three ways to access internet, please select the way you want. If you want to apply dynamic IP mode, then automatically obtain an IP address from ISP, Please select Dynamic IP from pull-down list. If you want to apply Static IP mode, then ISP assign you a Fixed IP Address , Please select Static IP from pull-down list. If you want to apply virtual ADSL dial-up mode, then ISP provide account and password for internet, Please select ADSL dial-up from pull-down list.
- **MTU** - The range is in 576 ~ 1500,Default: 1500.
- **Manually Set DNS** - Select the item, then DNS of WAN will not obtain DHCP but Manually setting.
- **Primary DNS** - It is optional. Enter DNS Server that ISP provided. If you don't know well please refer to your ISP.
- **Secondary DNS** - It is optional. Enter additional DNS Server if ISP provided two DNS Servers.

3.2.1.3. PPPoE

When WAN port is PPPoE, you can see the page as follows.

WAN Settings	
WAN Connect Type:	PPPoE
Username:	user@user.pl
Password:	••••••
Server Name:	
MTU:	1450 (default:1450.Don't modify,unless you want)
ECHO Max Idle Time :	0 (default:60 seconds.0:no echo packet)
Connection Mode	Auto-Connect
Manually Set DNS:	<input type="checkbox"/>
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0 (Optional)
<input type="button" value="Save"/> <input type="button" value="Help"/>	

- **User Name/Password** - Enter the User Name and Password provided by your ISP.
- **Server Name** - This should not be configured unless you are sure it is necessary for your ISP.
- **Data Packets MTU** - maximum transmission unit size, do not change if necessary.
- **Link Model** - There are three model *Connect on Demand* and *Connect Automatically*, *Connect Manually*. If you select the *Connect Automatically*, the router will not dial unless the Internet received a request, and the router will disconnect the PPPoE connection if the no data transmission time exceed the set time. If you select the *Connect Automatically*, the router will dial-up automatically when the router is connected. And if you select *Connect Manually*, you need login the management page to dial-up or disconnection.

3.2.2. LAN Settings

Configure the LAN port, show in figure:

LAN Settings

Here you can set basic network parameters of LAN into router.

IP Address:	<input type="text" value="192.168.1.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>

NOTICE:you should guarantee the address pools, static address in DHCP Server and modified LAN IP being in same subnet, and then restart router, when IP parameters(include IP address, subnet mask) of LAN is be modified and to assure DHCP server normal.

- **IP Address** - Enter the IP address of your router in dotted-decimal notation (factory default is 192.168.1.1)
- **Subnet Mask** - An address code what determine the size of the network. Normally use 255.255.255.0 as the subnet mask.

3.2.3. DHCP Server

DHCP can manage the LAN IP address resources effectively, as shown in figure

DHCP SERVER Settings

TCP/IP protocol setting include IP address, subnet mask ,gateway and DNS server. It is not very easy to Config TCP/IP protocol correctly for all computers in your LAN. Fortunately, the DHCP server provide this function.If you employ this DHCP server function you can make it Config TCP/IP protocol automatically .

DHCP Server:	<input checked="" type="checkbox"/> Enable
IP Pool Starting Address:	<input type="text" value="192.168.1.50"/>
IP Pool Ending Address:	<input type="text" value="192.168.1.100"/>
Lease Time:	<input type="text" value="One day"/> ▾
DNS Proxy:	<input checked="" type="checkbox"/> Enable

- **DHCP Server** – Enable or Disable the DHCP server. If you disable the Server, you must have another DHCP server within your network or else you must manually configure the computer.
- **Start IP Address** – This field specifies the first of the address in the IP address pool.
- **End IP Address** – This field specifies the last of the addresses in the IP address pool.
- **Lease Time** – Host access router to re-address the time interval.
- **DHCP Proxy** – Whether the router Acting DNS requests, and if so, LAN host DNS routers can be set to the LAN address.

3.2.4. Static Address Assign

Static Address Assign could make you effectively manage the IP address, through this feature, IP address can be reserved for certain MAC address. After open this feature, the router will be allocate the reserved IP address to the appointed MAC if the Host request for DHCP.

Static Address Assign

Here you can set DHCP Sever assigning static address. By that, you can better manage and monitor computer in LAN.

Index	IP Address	MAC Address	Action
-------	------------	-------------	--------

IP Address:

MAC Address:

Current host IP and MAC Address in LAN:

Index	LAN IP Address	MAC Address	Action
1	192.168.1.1	00-02-38-12-46-85	<input type="button" value="Import"/>
2	192.168.1.51	00-03-7f-00-00-01	<input type="button" value="Import"/>

The page has shown the existing reservation. Please click the *delete* to delete an option.

- **IP address** - Input the final one of the IP address you want to reserve.
- **MAC address** - Input the MAC address of the Host which you have reserved its IP address.

Click the *Save* to preserve the input item.

3.2.5. DHCP Clients List

This page list the clients has been assigned to facilitate the LAN administrator master IP address resources.

DHCP Clients List

Here list IP address Assigned after router startup.

Assigned Client Counter: 1

Index	Client Host	Assigned IP	Client MAC	Remnant Lease	Static
1	he_jie	192.168.1.50	00-e0-4f-c0-51-2f	23:52:08	no

- **Index** – The index of the DHCP Client
- **Client Name** – name of the DHCP client.
- **Assigned IP** – The IP address that the router has allocated to the DHCP client.
- **MAC address** – The MAC address of the DHCP client.
- **Remain Lease** – It record the time from now to expire time. The Host must re-access request IP address after expire. If the lease time is Forever, it shows that is a reserve IP but not allocated.
- **Static** – show if it is static IP.

Click on the *Refresh* to update the page.

3.2.6. MAC Address Clone

Some ISP will ask you to connect by MAC address, you can enter the MAC address numbers, Please enter the correct MAC address into the field. The format for the MAC Address is xx-xx-xx-xx-xx-xx(x is any hexadecimal digit).

MAC Address Clone

Here you can set MAC address of WAN in router

WAN MAC Address:

NOTICE: The computer only in LAN can Clone MAC Address.

- **Restore Factory MAC** – Restore the MAC address of WAN port to the factory default value. Click the Save button to save your settings.
- **Clone PC MAC Address** - Click on the button, will show the MAC address of the PC which has connected to the router, then click the Save button To save your settings.

3.3. Wireless Settings

There are six submenus under the Wireless settings menu: Connect Status, Basic settings, Secure Settings, Advanced Settings, MAC Filtering.

3.3.1. Connect Status

Show the current wireless network user. You can see the data traffic status of current wireless network users.

3.3.2. Basic Settings

The basic settings for the wireless network are set on this page.

Basic Settings	
Wireless Enable:	<input checked="" type="checkbox"/>
SSID:	<input type="text" value="WiFi"/>
Protocol:	<input type="text" value="802.11g"/> ▼
Channel:	<input type="text" value="6"/> ▼
SSID Broadcast Disable:	<input type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Help"/>	

- **Wireless Enable** - If do not select this option, the wireless module of the router will be closed and does not provide any Wireless connection.
- **SSID** - It is a logo in the wireless network equipment.
- **Protocol** - IEEE802.11b protocol, IEEE802.11g protocol
- **Channel** - This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- **SSID Broadcast Disable** - If you select the Enable SSID Broadcast checkbox, the Wireless Router SSID will broadcast its name (SSID) on the air.

3.3.3. Security Settings

This page is used to configure the security of the wireless network to prevent unauthorized users of wireless network access.

Security Settings

Here list the wireless security settings.

Security Option:

WEP Settings:

Authentication Type:	<input type="text" value="Open System"/>
ii Key Length:	<input type="text" value="64 bit"/>
Encryption Format:	<input type="text" value="Hex"/>

iii

Note:when Key Length you selected is 64 bit,then you must input 10 hex characters or 5 Ascii characters. when Key Length you selected is 128 bit,then you must input 26 hex characters or 13 Ascii characters.

Key Select	Key
Key1: <input checked="" type="radio"/>	<input type="text" value="33315830ab"/>
Key2: <input type="radio"/>	<input type="text"/>
Key3: <input type="radio"/>	<input type="text"/>
Key4: <input type="radio"/>	<input type="text"/>

Security Option contains WEP and WPA.

- **WEP (Wired Equivalent Privacy)** - Select WEP authentication type based on 802.11 authentications.
- **WPA (Wi-Fi Protected Access)** - It is based on the principle of WEP and improve many shortcomings of WEP encryption algorithm A, WPA standard include such security features as below: WPA authentication , WPA encryption key management, temporary key integrity protocol(TKIP), AES support and so on. mainly for the company's infrastructure wireless network.

Here you can set up the WPA authentication type as PSK, the need for PSK key 8-64 at the hexadecimal (0-9 a-f).

3.3.4. Advanced Settings

This page show how to set up the advanced settings.

Advanced Settings	
Control Tx Rates:	
Send Power:	Full ▾
Antenna:	Best ▾
Beacon Period(20-1000):	100
DTIM(1-16384):	1
Fragmentation (256-2346):	2346
RTS/CTS Threshold(256-2346):	2346
<input type="button" value="Save"/> <input type="button" value="Help"/>	

Control Tx Rates: It shows the wireless transmission speed, the max transmission speed of this router is 54MB, Default speed is AUTO, namely auto-negotiation. The system will determine the transmission speed according to the data transmit demand.

- **Send Power** - You can control the wireless cover scope by set up the wireless sent power.
- **Antenna** - select antenna 1 or antenna 2 or select best to automatically configure it.
- **Beacon Period** - It shows the time interval when sent the synchronization signals to the wireless network.
- **RTS/CTS Threshold(256-2346)** - the RTS will be sent when the data packet increased to the critical number.
- **Fragmentation(256-2346)** - the data packet transmission at one time - and one of the largest size (in bytes units). Available scope is from 256 to 2,346. The default is 2346.

3.3.5. MAC Filtering

This page shows how to control the wireless access, it can be set to allow access the MAC address list or deny access the MAC address list. When you saw any non-authorized Host is accessing your network, you can add his MAC address into the deny access list, so that the Host can't visit your network any more.

Wireless MAC Address Filter

Here you can set MAC Address Filtering. Then you can restrict the computer in LAN access Web Site by the filtering MAC Address rule.

Enable MAC Address Filtering:	<input checked="" type="checkbox"/>
Only Allow the computer whose MAC Address in the setting MAC Address list enable accessing Internet:	<input type="radio"/>
Forbid the computer whose MAC Address in the setting MAC Address list enable accessing Internet, but allow others accessing Internet:	<input checked="" type="radio"/>

MAC Address	Commentary	Action
MAC Address:	<input type="text"/>	
Commentary:	<input type="text"/>	

3.4. NAT Settings

It will show how to set up the NAT Settings.

3.4.1. Virtual Server

Virtual Server define a service port, all service request to the port will be reorientation to network sever of LAN appointed by IP address.

Virtual Servers							
Index	Private IP	Private Port	Protocol Type	Common Port	Commentary	Status	Action
1	192.168.1.2	9001	TCP	9001		enable	modify delete
2	192.168.1.2	81	TCP	81	erp	enable	modify delete

Private IP :	<input type="text"/>
Protocol Type :	TCP <input type="button" value="v"/>
Common Port:	Frequent Port <input type="button" value="v"/> <input type="text" value="0"/>
Commentary:	<input type="text"/>
Enable :	<input type="checkbox"/>
<input type="button" value="Save"/>	

<input type="button" value="Help"/>

- **Private IP** - The IP address of the computer on LAN as a server.
- **Private port** - The port number of the computer which is as a LAN server.
- **Protocol Type** - The server's protocol
- **Common Port** - WAN service port, namely the service port the router provide the service to WAN
- **Commentary** - Can add the entry information
- **Status** - Show whether the item is open
- **Action** - Only after this entry selected by the set of rules to come into force.

For example:

If a LAN computer 192.168.18.100 opened HTTP service, used 80 as the default port .you can set up it like this: entry the "192.168.18.100" as the private IP, "80" as the Private port, "http" as the commentary, and select the "enable", then the HTTP service in the private network can be visited by Common network.

3.4.2. Port Mapping

The Host ports on LAN can be mapped to the router.

Port Mapping						
Index	Server IP	Mapping Port	Protocol Type	Commentary	Status	Action
1	192.168.1.254	2001	TCP		enable	modify delete
2	192.168.1.2	81	TCP		enable	modify delete

Server IP :	<input type="text"/>
Mapping Port :	<input type="text"/>
Protocol Type :	TCP <input type="button" value="v"/>
Commentary:	<input type="text"/>
Enable :	<input type="checkbox"/>

- **Server IP** - The IP address of the LAN server.
- **Mapping Port** - The LAN server's opening port NO. .You can enter a port NO.
- **Protocol Type** - The protocol the server used.
- **Commentary** - You can add the commentary of certain item.
- **Status** - This column shows whether the item has been opened.
- **Action** - Click on Modify or Delete, you can modify or delete the item.

Enter the added item or modify item, then click *Save* to finish the configuration.

Operation Example:

If you need map the 6000 port of the LAN computer 192.168.18.100 as a same port in WAN, you can set up this: enter "192.168.18.100" as server IP, "6000" as mapping port, "TCP" as protocol type. Select "enable". After finish this ,the WAN computer can access LAN computer 192.168.18.100 6000 port through access the router's 6000 port.

Note:

Different with the Virtual Server, the mapping port must is same as the LAN port.

3.4.3. Special Application

The function of the Special Application is when private host require connecting to public Trigger Port corresponding Port will be opened, and the private host allows the port and public host Trigger Port establish connection request. But when private host require releasing connecting to public Trigger Port corresponding open Port will be closed, and each rules can be employed by only a host simultaneously, and the request that other host connected will reject. All open port simultaneously are not identical.

Special Application							
Index	Trigger Port	Trigger Type	Common Port	Common Type	Commentary	Status	Action
	Trigger Port :	<input type="text" value="0"/> - <input type="text" value="0"/>					
	Trigger Type:	TCP ▾					
	Common Port:	<input type="text"/>					
	Common Type:	TCP ▾					
	Commentary:	<input type="text"/>					
	Enable :	<input type="checkbox"/>					
<input type="button" value="Save"/>							
<input type="button" value="Help"/>							

Trigger Port - Port that trigger application program.

Trigger Type - Protocol Type that trigger application program.

Common Port - When Trigger Port is scouted, the data packets passing through the port And gaining entrance to private network will penetrate through firewall, in order to corresponding special application can normally run under NAT router control. You can input group amount of port(or segment port) is not more than 5.and each group is separated by ","(eg:1000-2000,2500,2500-2600,3000-4000).

Common Type - The Protocol type that Common Port has employed.

Commentary - The information that interpret item.

Enable - The rule can become effective only if you enable it.

Status - Display whether the item is enable or not.

Action - You can modify or delete the item by clicking "modify" or "delete" button.

If you add or modify item, Please enter parameters, then click *Save* button.

Operation Example:

Set up 8000 as the trigger port , TCP trigger as type, 8000 as common port, TCP as common type. The private Host will trigger a link request to public network, and the WAN 8000 port will be opened and through the firewall when the trigger port is 8000.

3.4.4. ALG Settings

ALG(Application Layer Gateway). Some application need penetrate through router by Application Layer Gateway.

ALG Settings

FTP:	<input checked="" type="checkbox"/>
H323/Netmeeting:	<input type="checkbox"/>
PPTP Passthrough:	<input type="checkbox"/>
Windows Messenger(File Transfer):	<input type="checkbox"/>
Ipssec Passthrough:	<input type="checkbox"/>

Select the ALG function you need, then click *Save* to finish the configuration.

3.4.5. DMZ Settings

One of the features of DMZ is that it allows network user exposing to Internet (eg: Internet Game, online-meeting), in virtue of accessing special Server DMZ host will synchronously transfer all ports to a computer.

DMZ Host

Generally, NAT router unallows computer in WAN directly accessing host in LAN. But we sometimes want a certain host in LAN to be open to WAN in order to communicate each other. At that time , we will only set DMZ in this computer.

DMZ Host IP Address: Enable

- **DMZ Host IP Address** - The IP Address of host to be set DMZ in LAN.
- **Enable** - Sign the item, then DMZ will enable, otherwise disable.

Click *Save* button, then will finish DMZ setting.

3.5. Firewall Settings

Using the Firewall Settings, you can turn the firewall switch on or off.

3.5.1. Firewall Options

You can see the firewall setting page in figure:

Firewall Options	
<input checked="" type="checkbox"/> Enable Attack Protect	
Discard PING from WAN side	<input checked="" type="checkbox"/>
Unallow to PING the Gateway	<input type="checkbox"/>
Drop Port Scan Packets	<input checked="" type="checkbox"/>
Allow to Scan Security Port (113)	<input checked="" type="checkbox"/>
Discard NetBios Packets	<input type="checkbox"/>
Accept Fragment Packets	<input checked="" type="checkbox"/>
Send ICMP packets when error	<input checked="" type="checkbox"/>
Protect Form DOS Attack:	
TCP-SYN-FLOOD Packets threshold:	<input type="text" value="60"/> (packets/per second,50-200)
UDP-FLOOD Packets threshold:	<input type="text" value="60"/> (packets/per second,50-200)
ICMP-FLOOD Packets threshold:	<input type="text" value="60"/> (packets/per second,50-200)
<input type="button" value="Save"/> <input type="button" value="Help"/>	

Select the firewall options you need and click *Save* to finish the settings.

3.5.2. IP Filtering

In order to facilitate your further management to the LAN computers, you can control the access from LAN computers to Websites by data packet filtering function.

IP Filtering

You can control computer in LAN access Internet by filtering IP Address.

Enable IP Filtering: Save

Source IP	Source Port	Destination IP	Destination Port	Protocol Type	Filtering Mode	Time	Status	Action
Source IP :	<input type="text"/> - <input type="text"/>							
Source Port :	<input type="text"/>	-	<input type="text"/>					
Destination IP :	<input type="text"/> - <input type="text"/>							
Destination Port :	<input type="text"/>	-	<input type="text"/>					
Protocol Type :	TCP ▾							
Filtering Mode :	<input checked="" type="radio"/> Reject <input type="radio"/> Allow							
Time :	<input type="text"/>	-	<input type="text"/>					
Enable :	<input type="checkbox"/>							Save

- **Enable IP Filtering** - The setting rules can become effective only if you sign the item, otherwise not.
- **Source IP Address** - It is Controlled host in LAN holds IP address.
- **Source Port** - It is controlled host in LAN holds port if it empty, all server ports will be controlled. And you also can input a segment port(eg:1000-2000).
- **Destination IP Address** - It is Controlled web Server in WAN holds IP address. If it empty, all servers in WAN will be controlled. And you also can input a segment IP Address (eg:210.83.249.220-210.82.249.230).
- **Destination Port** - It is controlled web Server in WAN holds port. If it empty, all server ports will be controlled. And you also can input a segment port(eg:1000-2000).
- **Protocol Type** - The protocol that controlled packets employed.
- **Filtering Mode** - When you select *Allow* option, the packets fit the rule will pass through router, otherwise do not pass.
- **Time** - The rule will become effective between starting and Ending time.
- **Enable** - The rule can become effective only if you enable it.
- **Status** - Display whether the item is enabled or not.
- **Action** - You can modify or delete the item by clicking *modify* or *delete* button.

If you add or modify the item, please enter parameters, then click *Save*.

Operation Example:

Assumed the LAN host 192.168.18.100 is opening the HTTP service which port is 80, Now we do not want the Host of "210.56.78.9-210.56.78.100" which in WAN could login. We can set up as following: enter "192.168.18.100" as source IP address, "80" as source port, keep destination port empty, select TCP as the protocol type, the filtering

mode is reject. Enter the time “0:00-24:00” and select the enable, then click “Save” to end the configuration.

3.5.3. Domain Filtering

For the sake of your advance managing computers in LAN access web, you can control computer in LAN access web you want in Internet by setting domain filtering.

Domain Filtering

Here you can set domain Filtering. Then you can restrict the computer in LAN access Web Site by the filtering Domain rules.

Enable Domain Filtering :

IP Address	Domain	Status	Action
IP Address:	<input type="text"/> - <input type="text"/>		
Domain:	<input type="text"/>		
Enable :	<input type="checkbox"/>		
<input type="button" value="Save"/>			

- **Enable Domain Filtering** - The setting rules can become effective only if you sign the item, otherwise not.
- **IP Address** - It is controlled host in LAN holds IP Address.
- **Domain** - It is entire or part of filtered domain. If you input a certain string here (not sensitive) the computers in LAN can't access web in Internet whose domain contains the string.
- **Enable** - The rule can become effective only if you enable it.
- **Status** - Display whether the item is enabled or not.
- **Action** - You can modify or delete the item by clicking *modify* or *delete* button.

If you add or modify the item, please enter parameters, then click *Save* button.
And if you want to delete the item, click *delete*.

Operation Example:

If you want prohibit your LAN computers from “192.168.1.20” to “192.168.1.80” to access <http://www.google.com/>, you can set as following: enter “192.168.1.20-80” in IP address column. “google.com” in domain column, select *enable*, then the configuration will go into effect.

3.5.4. Content Filtering

To facilitate you controlling the access website contents, you can filter the contents you want to filter by content filtering function.

Content Filtering

Here you can set Content Filtering. Then you can restrict the computer in LAN access network by the rule that strings content filter.

Enable Content Filtering:

IP Address	Filter Content	Status	Action
------------	----------------	--------	--------

IP Address: -

Filter Content:

Enable:

- **Enable Content Filtering** - The setting rules can become effective only if you sign the item, otherwise not.
- **IP Address** - It is controlled host in LAN holds IP Address.
- **Filtering Content** - The string will be filtered.
- **Enable** - The rule can become effective only if you enable it.
- **Status** - Display whether the item is enabled or not.
- **Action** - You can modify or delete the item by clicking *modify* or *delete*.

If you add or modify the item, please enter parameters, then click *Save* button.

3.5.5. MAC Filtering

The MAC Filtering page allows you to control access to the Internet by users on your local network based on their MAC Address.

MAC Filtering

Here you can set MAC Address Filtering. Then you can restrict the computer in LAN access Web Site by the filtering MAC Address rule.

Enable MAC Address Filtering:	<input type="checkbox"/>
Only Allow the computer whose MAC Address in the setting MAC Address list enable accessing Internet.	<input type="radio"/>
Forbid the computer whose MAC Address in the setting MAC Address list enable accessing Internet, but allow others accessing Internet.	<input checked="" type="radio"/>

Index	MAC Address	Description	Action						
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 5px;">MAC Address:</td> <td style="border: 1px solid #ccc; width: 30%;"></td> </tr> <tr> <td style="padding: 5px;">Description:</td> <td style="border: 1px solid #ccc; width: 60%;"></td> </tr> <tr> <td colspan="2" style="text-align: right; padding: 5px;"><input type="button" value="Save"/></td> </tr> </table>				MAC Address:		Description:		<input type="button" value="Save"/>	
MAC Address:									
Description:									
<input type="button" value="Save"/>									

Current host IP and MAC address in LAN:

Index	MAC Address	Description Information	Action
1	00-e0-4b-e0-09-95	192.168.1.10	<input type="button" value="Import"/>
2	00-e0-4b-e0-09-95	192.168.2.1	<input type="button" value="Import"/>
3	00-1a-73-ae-c3-41	192.168.2.50	<input type="button" value="Import"/>

- **Enable MAC Address Filtering** - The setting rules can become effective only if you sign the item, otherwise not.
- **Default Filtering Route** - Only Allow the MAC Address below MAC List accessing Internet, and only forbid the MAC Address below MAC List accessing Internet.
- **MAC Address** - The MAC Address of computer that is controlled in LAN.
- **Description** - The single description of controlled computer.
- **Action** - You can modify or delete the item by clicking *modify* or *delete* button.
- **Import** - The MAC Lists display current host MAC Address in LAN and default information is IP Address which corresponds with MAC Address. Click *Import*, and then the item will save to firewall MAC Address Filtering table.

If you add or modify the item. Please enter parameters, then click *Save*.

3.6. Advanced Settings

3.6.1. DDNS Settings

DDNS function can make your dynamic IP Address required by others, and it is important for you to build FTP or Web Server. But please notice that you must apply a user name and password from www.dyndns.org or www.oray.net.

Dynamic DNS Settings

Here you can set DDNS parameter.

Enable DDNS:	<input type="checkbox"/>
DDNS Server:	www.dyndns.org ▾ Let's go Register...
User Name:	<input type="text"/>
Password:	<input type="password"/>
Domain Name:	<input type="text"/>
Connected Status:	

- **DDNS Server** - Select DDNS Server by pull-down list, then Click *Let us go, Register...*, your information will be registered into DDNS Server in corresponding DDNS Website.
- **Enable DDNS** - Sign the item, then DDNS will enable, otherwise disable.
- **Username** - The username that is registered in DDNS Server.
- **Password** - The Password that is registered in DDNS Server.
- **Connected Status** - Display DDNS connected status information.

First input above information, click *Save* button to save settings if DDNS function enables then start to update IP Address of DDNS domain.

3.6.2. UPnP Settings

If you enable UPnP, host in LAN can requires connecting router to transform special port, and then outer host can access inner resource when it want.

UPnP Settings

Here you can enable UPnP settings and displays UPnP mapping port list.

Enable UPnP:

Index	IP Address	Inner Port	Outer Port	Protocol Type	Persistence Time	Applications	Description
-------	------------	------------	------------	---------------	------------------	--------------	-------------

- **Enable UPnP** - sign the *Enable UPnP* option, and then the UPnP feature will activate. It is closed by default because it will aroused a certain adventure.
- **IP Address** - The IP Address of host in LAN that want to port transform.
- **Inner Port** - The IP port of host in LAN that want to port transform.
- **Outer Port** - The router port that is utilized when transforming port.
- **Protocol Type** - The Protocol Type that is utilized when transforming port.
- **Applications Description** - The description is given when application program requires Router connect and transform port.

Click *Save* and then you will finish setting.

3.6.3. Static Router

You can manage your internet's router rule by setting static router.

Static Routing Settings

Here you can set static routing information in router.

Destination IP	Submask	Gateway	Status	Action
----------------	---------	---------	--------	--------

Destination IP :

Submask:

Gateway:

Enable:

- **Destination IP Address** - The IP Address of host wanted to access.

- **Subnet mask** - Generally it is 255.255.255.0
- **Gateway** - The IP address of host or router which packets will be sent to.
- **Status** - Display whether the item is enabled or not.
- **Action** - You can modify or delete the item by clicking *modify* or *delete*.

If you add or modify the item, please enter parameters, then click *Save*.

3.7. System Settings

3.7.1. Time Settings

You can set system time-zone of router and obtain standard GMT time from internet.

Time -Settings	
Time Zone:	(GMT+01:00)Amsterdam, Berlin,Rome,Stockholm,Vienna,Belgrade,Ljubljana
Current System Time:	2009-02-03 23:49:02
<input type="button" value="Save"/> <input type="button" value="Refresh"/> <input type="button" value="Help"/>	

Notice:

When shut the router power, the time information will lost and router will obtain MT time automatically. You must connect internet to obtain GMT time or set time in this page so the time restriction of other function (eg: firewall) can go into effect.

3.7.2. Admin Settings

This page allows you to set the user name and the password.

Administrator Settings	
Here you can modify username and password of web Administrator.	
Original Username:	admin
Original Password:	•••••
New Username:	
New Password:	
Confirm Password:	
<input type="button" value="Save"/> <input type="button" value="Clear"/>	

Please click *Save* when finished , click *Clear* will clear your setting.

3.7.3. Remote Management

You can configure the remote management function on this page shown in figure. This feature allows you to manage your router from a remote location, via internet.

Remote Management	
Remote Management :	<input type="checkbox"/> Enable
Remote Web Management Port:	<input type="text" value="80"/>
Remote Web Management IP:	<input type="text" value="0.0.0.0"/>
<input type="button" value="Save"/> <input type="button" value="Help"/>	

- **Web Management Port** - Web browser access normally uses the standard HTTP service port 80. This router's default remote management Web port number is 80. For greater security, you can change the remote management Web interface to a custom port by entering that number in this box provided. Choose a number between 1024 and 65534, but do not use the number of any common service port.
- **Remote Management IP Address** - This is the current address you will use when accessing your router from the Internet. The default IP Address is 0.0.0.0. It means this function is disabled. To enable this function, change the default IP Address to another IP Address as desired.

3.7.4. Firmware Upgrade

The page allows you to upgrade the latest version firmware to keep your router up-to-date.

Firmware Upgrade	
You will obtain new function by upgrading router software	
Current Firmware Version:	V7.1.1
Current Firmware Date:	Dec 17 2008 08:48:41
Current Hardware Version:	V6.0.1
Select Upgrade File:	<input type="text"/> <input type="button" value="Przełóżaj..."/>
Notice: You can't shut the router power when upgrading otherwise the router will be damaged. If upgrading succeed, the router will restart automatically. It's will take some minutes to upgrade, please wait.	
<input type="button" value="Upgrade"/>	

Click the browse, select the update. Click upgrade, then upload the files to the router and cover the existing system.

3.7.5. Configuration Tools

This page allows you to configure the router with configuration tools.

Configuration Tools

Click this button, then Route will restart.

Click this button, then Route will reset all the Setting(Factory Configuration).

Click this button, then Route will backup current the Setting.

Restore Router

- **Restart Router** - Click this button, then router will restart.
- **Restore Factory Settings** - Click this button, then router will reset all factory configuration .
- **Backup System Settings** - Click this button, then router will backup current setting to your computer. Once you have the router working property, you should backup the information to have it available if something goes wrong. When you backup the settings, they are saved as a file in your computer. You can restore the router's settings from this file.
- **Restore System Settings** - Restore the router's configuration.

3.7.6. System Log

This page allows you to query the logs of the router.

System Log

Index	Content
1	2001-12-24 00:00:00 [WEB]:Web Variable successfully set.

Click on *Refresh* to refresh the log, Click on *Clear all* to clear all log.

Note:

System log only keep the last 128 log, the latest log will cover the top of the log if the total amount of the log is more than 128.

DECLARATION OF COMPLIANCE

The following products has been tested by us with the listed standards and found in compliance with the council EMC directive 89/336/EEC and CE Marking Directive 93/68/EEC. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.

Type of equipment: Wireless router

Technical data: 9.0Vdc, 800mA

EN55022:1998+A1:2000+A2:2003 Information technology equipment – Radio disturbance characteristics - limits and methods of measurement.

EN55024:1998+A1:2001+A2:2003 Information technology equipment – Immunity characteristics - limits and methods of measurement.

EN61000-3-2:2000+A1:2006 Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

EN61000-3-3:1995+A1:2001+A2:2006 Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection.

