

Great thanks for your purchasing ipTIME PRO 54G Wireless Router ,ipTIME PRO 54G Supports IEEE802.11G Standard ,transferring data with speed of 54Mbps , also conforms to IEEE802.11B Standard. ipTIME PRO 54G satisfy enterprise with small scale, SOHO user to lay out WAN and LAN. ipTIME PRO 54G provide multi-protection for the security for the networks, such as support or prohibit SSID broadcast, not allow AP to broadcast SSID network name for SSID prevention. ipTIME PRO 54G support WEP for the security of WLANS with powerful firewall. ipTIME PRO 54G allow many PCs to share one PC's WAN Cable and one Internet account by ISP. ipTIME PRO 54G allow varies ways to internet, such as ADSL, Cable Modem, dial up automatically, easy to configure. ipTIME PRO 54G combines 4 port Ethernet Switch to connect with Ethernet adapters. VLAN server allow Internet user to visit website, FTP and other service in LAN. ipTIME PRO 54G control the outside visit, configure different authorized access. ipTIME PRO 54G support Web management, DMZ, network game and videoconference.

This manual is the user's guide for ipTIME PRO 54G.

This manual consists of hardware specification, installation guide, configuration guide and definition on how to use ipTIME PRO 54G.

Pls use this manual for your reference.

First, Pls read the installation guide in chapter 4, note some points when install. Second, Pls read chapter 6, in order to allow ipTIME PRO 54G to run in corresponding Internet environment.

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## **1. Warning**

- 1. Pls used adaptor provided by manufacturer, otherwise will break ipTIME PRO 54G.**
- 2. Do not drop IP Router down or any damage to the Router and its electronic component.**
- 3. Do not disassemble IP Router, otherwise warranty for repair will not be guaranteed**
- 4. Do not exposure IP Router under Sunshine, to avoid heat.**
- 5. Pls keep IP Router dry and away from fire.**
- 6. Pls keep IP Router under shield and run under 0-40 to the perfect state.**

## 2. PACKAGE CONTENTS

Package contents of Wireless IP Router as follows:

### 1. Wireless IP Router ipTIME Pro 54g



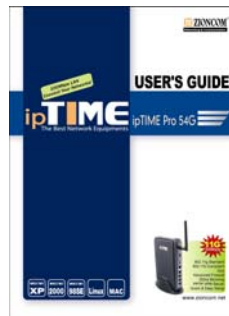
### 2. Switch DC Power Adapter (7.5V,1.5A)



### 3. Ethernet Cable



### 4. User's Guide



### 3.SPECIFICATION

This Wireless IP Router is a highly integrated Wireless IP Router with many functions such as Gateway, Switch, DHCP server, Firewall etc:

**11G 54Mbps :** Support 802.11g , high-speed data rate up to 54Mbps for 802.11g(draft) and 11Mbps for 802.11b with wide range coverage.

**Network Address Transform (NAT):** With providing Internet application this IP Router can allow more than one user to connect with Internet at the same time by sharing one public IP address; It supports many connection ways: xDSL、Cable Modem、LAN/ Leased Line and so on.

**4 Ports 10/100M Switch:** It has 4 Network 10/100M switch ports, port support MDI/MDIX automatic identification function, Switch port can connect to other switches, so that can support over hundred computers to go to Internet at the same time.

**PPPoE(ADSL) Automatic Disconnection/Connection :** Users can optionally choose automatic disconnection in idle time and connection in access time to save Internet access cost.

**DHCP Server Supported:** All of the networked computers can retrieve TCP/IP settings automatically from this product.

**Static IP address Binding:** Authorize user to manage and configure PC in LAN in most by binding MAC address and IP address together.

System Memorandum: ipTIME pro 54g record routing history and forwarder to administrator mailbox.

**UPnP:** Defaulted UPnP enable user to configure networking hardware and software. Management Based on Web Page : Both network configuration and system configuration are based on inside Web Server. The user interface is clear and usage is easy. By this interface users can also update software to enhance the system stability and expansibility.

**Internet Access Control:** Different administration can be setup for different users. Data Package Filtration: Port Filtration, IP Address Filtration, MAC Address filtration, Key word Filtration enable user to configure IP router to analyze data package can be forwarded or refused.

**Virtual Server:** Allow other users from Internet access WWW, FTP server or other servers in LAN.

**QoS:** Control the IP Router bandwidth forwarding and transferring by configuration IP Address QoS , application QoS and port QoS.

**Firewall:** Users can randomly refuse or allow data from Internet

**Scheduler:** Manage and control Local Network accessing Internet by configuration time.

**DMZ Server:** Allow one computer to be totally open to Internet to make sure special application.

**Remote Management:** Users can totally manage office or home network wherever they are.

**DDNS:** By this function users can set up their own web station.

**Remote Wake-up:** Enable user to remote wake up PCs in LAN.

**Support VPN Pass-through:** Supports VPN Pass-through PPTP dialogue, and also supports users to configure VPN Server and Client in LAN.。

**VPN server:** Allow you to setup VPN server, allow 5 VPN client logging at same time

Detailed Specification

ITEM		WIRELESS IP ROUTER	
SPECIFICATION	Standard	IEEE 802.11G、IEEE 802.11B、IEEE 802.3、IEEE 802.3u、IEEE 802.3x、	
	Protocol	TCP/IP, NAT, DHCP, UDP, FTP, PPPoE, PPTP, L2TP,HTTP,DNS, IPSec/VPN Pass-through...	
	External Port	WAN	One 10/100Mbps RJ-45 port, automatic sense cross cable
		LAN	Four 10/100Mbps speed Ethernet switch port, auto sense cross cable
	Wireless Parameter	Frequency Range	2.412~2.472 GHz
		Forward Speed	1, 2, 5.5, 11Mbps(802.11b) 6, 9, 12, 18, 24, 36, 48, 54 Mbps (802.11g)

		<b>Opt. Channel</b>	<b>14</b>
		<b>Data Modulation</b>	<b>CCK, DQPSK, DBPSK, OFDM</b>
		<b>RF Power</b>	<b>16-18dBm</b>
		<b>Antenna Type</b>	<b>1*2.4Ghz Dipole Antenna 1*2.4Ghz Embedded Antenna</b>
	<b>Cable</b>	<b>UTP100Base-TX: UTP/STP 5 or above standard</b>	
	<b>Control interface</b>	<b>Based on Web application</b>	



	<b>Inside function</b>	<b>10/100Mbps switch</b> <b>LAN/WAN port auto sense cross cable</b> <b>WAN port static/dynamic IP flexible setting up</b> <b>Support 64/128 bit WEP and MAC</b> <b>Support AP client Bridge-Point-to Point mode</b> <b>Support client mode</b> <b>PPPoE dial-up and connection time setting up</b> <b>PPPoE dial-up and automatic/manual connection</b> <b>Double IP Configuration</b> <b>Support VPN Pass-through</b> <b>DHCP Service</b> <b>DNS relaying</b> <b>DMZ Server</b> <b>Static IP Address Binding</b> <b>System Memorandum forwarding</b> <b>IP Router configuration back-up</b> <b>UPNP</b> <b>Connection setting up and stat.</b> <b>Time control on access to internet</b> <b>Firewall</b> <b>NAT ON/OFF</b> <b>Port/IP/MAC/Key word Filtration</b> <b>Remote control</b> <b>Remote Wake-up</b> <b>DDNS</b> <b>Gateway</b> <b>Virtual Server</b> <b>Qos &amp; VPN Server</b>
--	----------------------------	--

<b>Product Specification</b>	<b>CPU</b>	<b>KENDIN KS8695PX (ARM9)</b>
	<b>FLASH</b>	<b>2MB Flash</b>
	<b>Memory</b>	<b>16MB SDRAM</b>
	<b>LAN connection</b>	<b>Static or dynamic IP address</b>
	<b>WAN connection</b>	<b>xDSL、Cable Modem、Special cable、LAN</b>
	<b>Power supply</b>	<b>DC 7.5V/1.5A switch power adapter</b>
	<b>Size</b>	<b>179mm×*119mm×*39mm</b>
	<b>Temperature</b>	<b>0 ~ 60 ℃</b>
	<b>Humidity</b>	<b>10 ~ 85%</b>

**Compatible OS:**

**Windows 95/98/ME/NT/2000/XP**

**Mac OS    Linux or other UNIX system**



**Notes:**

**If the specification and functions of IP Router have been changed, it will not be informed. The users please take care of it by themselves.**

## **4.INSTALLATION**

### **4.1 BEFORE INSTALLATION:**

- 4.1.1. Firstly please confirm your computer OS (Windows 95,98,NT, ME, 2000, XP, Linux, Mac) and Web browser (Internet Explorer 4.0 with JavaScript function、Netscape Navigator 4.0 or above version)。
- 4.1.2. Make sure there is LAN Card which has been correctly installed in your computer.
- 4.1.3. If you are xDSL user, please remember your user ID and password.
- 4.1.4. If you connect Internet by LAN or WAN, please get the following information from your network administrator: IP address is static or

dynamic, DNS, default gateway, account and so on.

\* If your computer has installed ADSL PPPoE dial-up software before the installation of IP Router, please backup your installation software and uninstall your ADSL PPPoE dial-up software by Start->control panel->Add or Remove Programs.

## 4.2 INSTALLATION

4.2.1. Setup WAN connection: connect broadband cable (xDSL, Cable Modem or LAN/ Leased cable) with WAN port of IP Router.

4.2.2. Setup LAN connection: connect your computer LAN card's port or your switch UPLINK port with one LAN port of IP Router by a common network cable.

Note: All LAN ports of IP Router can automatically sense cross cable, so you can either use through cable or cross cable to connect LAN card or switch.

4.2.3. Turn on the power: connect and the power supply, turn on it. Then IP Router comes to self-detect state. During the self-detect: PWR LED will be long light, RUN LED will slow flash after correct startup, other four LAN LED and WAN LED will flash only twice rapidly, then the system will come to normal work state.

4.2.4. Start computer

LED	Description	Explanation
PWR	Power LED	Long light
RUN	System status LED	LED flash when device work normally. LED doesn't on or flash refer some problem with device
WLAN	WLAN port connection LED	Flashing refers to data transformation
WAN	WAN port connection LED	Flashing refers to data transformation
LAN	LAN port	Flashing refers to data transformation

	connection LED	
--	----------------	--



===== WLAN  
===== PWR  
===== RUN  
===== WAN  
===== LAN 1 ~ 4

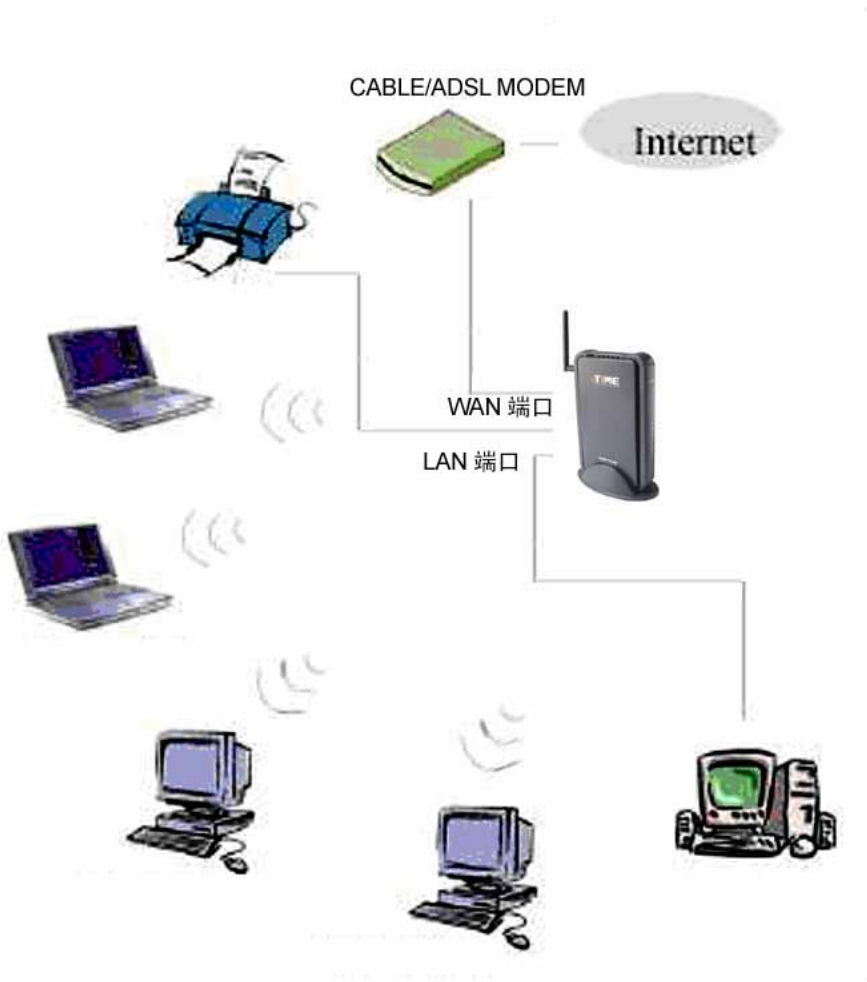
Port explanation	
Antenna	Antenna provide wireless LAN functionality and ensure optimal signal strength
Power jack	Connect power adapter (7.5V/1.5A)
Reset	Press Reset button. Switch the power off/on. After switching the power on, about 5 seconds later

	<b>RUN LED will flash rapidly, then release the button. After IP Router startup, all configurations will restore to default configuration.</b>
<b>WAN</b>	<b>Connect xDSL/Cable Modem or Special cable</b>
<b>LAN 1~4</b>	<b>Connect personal computer or hub, switch and so on</b>



**NOTE:** After switch or hub expand, Wireless IP Router can connect at most 253 client computers in LAN or WLAN.

## 4.3 NETWORK SKETCH MAP



**Note:** During the usage, the sequence of turn on is: firstly turn on Modem's power supply , 1 minute after Modem startup turn on IP Router power supply , then turn on the computer .

## 5. LOCAL COMPUTER SETUP

Users should configure local network to access Internet by IP Router. Users should know the default configuration of IP Router before installation. Users must connect with IP Router again after configure computer's local network. Please make sure your computer setting is as follows, Otherwise IP Router can not be correctly connected (Linux and Mac users please setup as follows by relative conference).

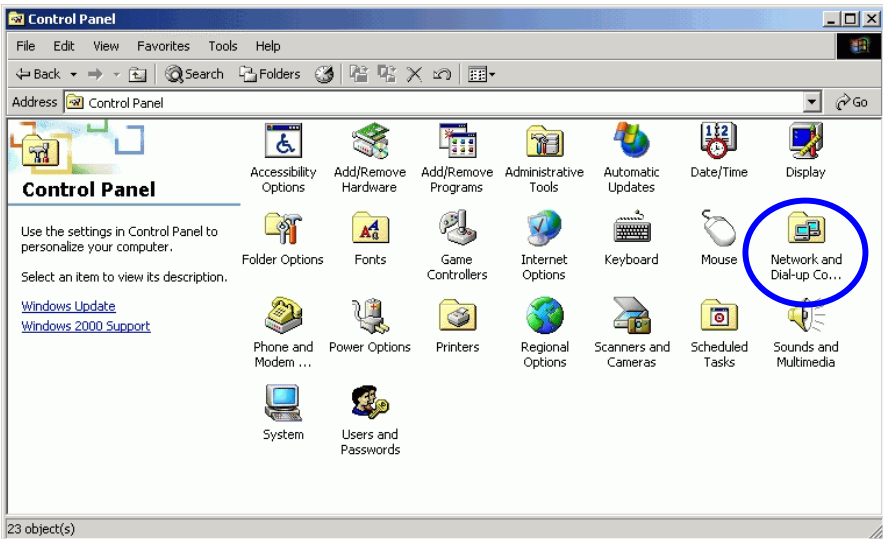
The default configuration of IP Router is:

- IP address: **192.168.0.1**
- Subnet Masks: **255.255.255.0**

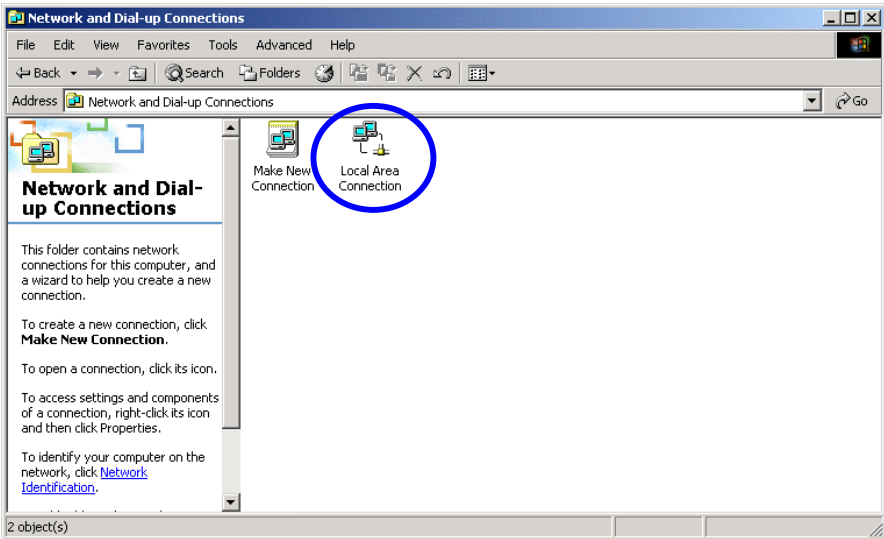
Users can setup static or dynamic IP configuration.

### 5.1 Windows 2000 SETUP

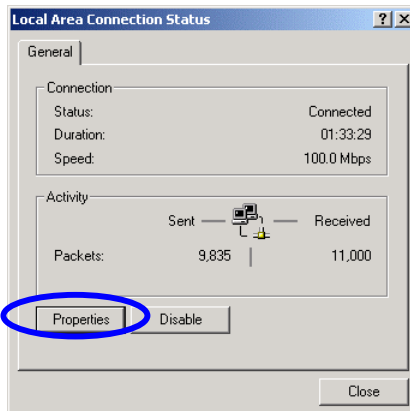
- (1) Install IP Router.
- (2) Start Windows 2000 and check LAN LED is on or off. If off, please confirm the connection of your computer with IP Router.
- (3) Click **“start”->“Setting”->“Panel Control”**.



- (4) Double click the “**Network and Dial-up Connection**” in “**control panel**”.

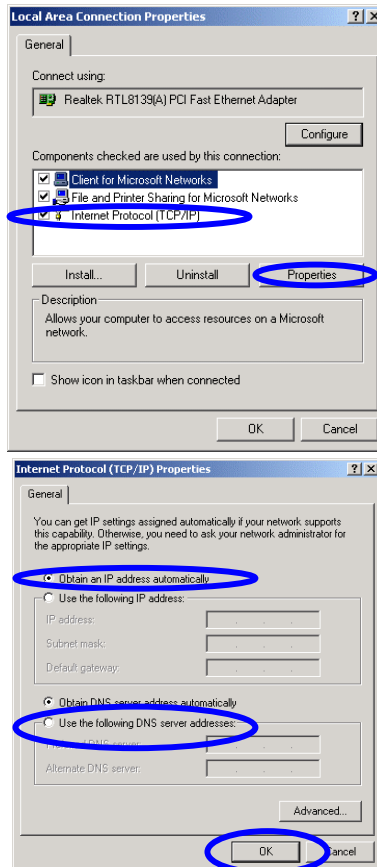


- (5) Click “**Local area connection**”->“**Properties**”->“**Internet protocol (TCP/IP)**” and “**Properties**”.



- (6) Click “**General**” bar, Select “**Obtain an IP address automatically**” and “**Obtain DNS server address automatically**”
- (7) Click “**OK**”.





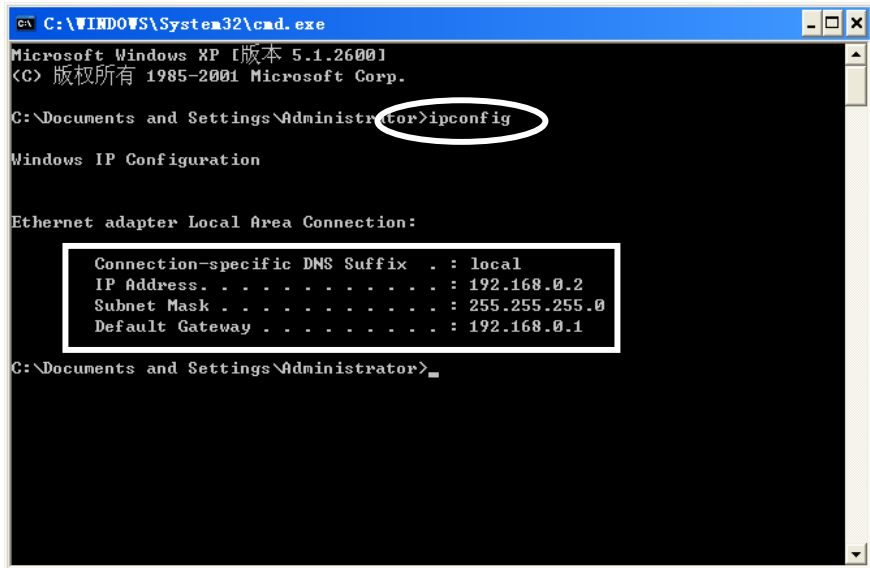
(8) Click **"Start"** -> **"Run"**.

(9) Input **"cmd"** ,then click **"OK"**.

(10) Input **"ipconfig"** in Pop-up Command window.

(9) Please make sure your IP is the same with below. If same then your configuration is successful, or please redo the above steps and restart your computer.

- The IP address is between **192.168.0.2** and **192.168.0.254**
- The subnet mask is **255.255.255.0**
- The default gateway is **192.168.0.1**



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ipconfig

Windows IP Configuration

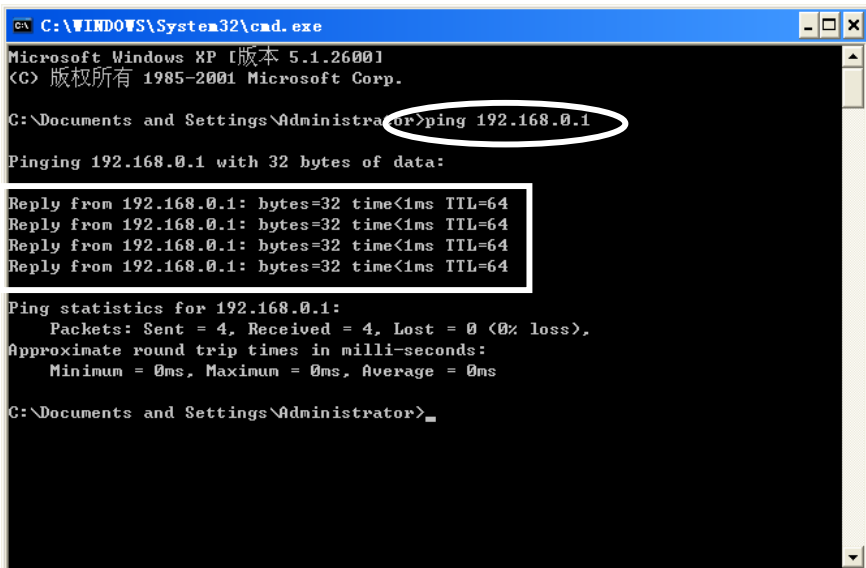
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : local
    IP Address. . . . .               : 192.168.0.2
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.0.1

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

(10) Input “**ping 192.168.0.1**”, then “Enter”.

(11) If you can see “**Reply from 192.168.0.1: bytes=32 time=2ms TTL=64**”, then the connection between your computer and IP Router is completed.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

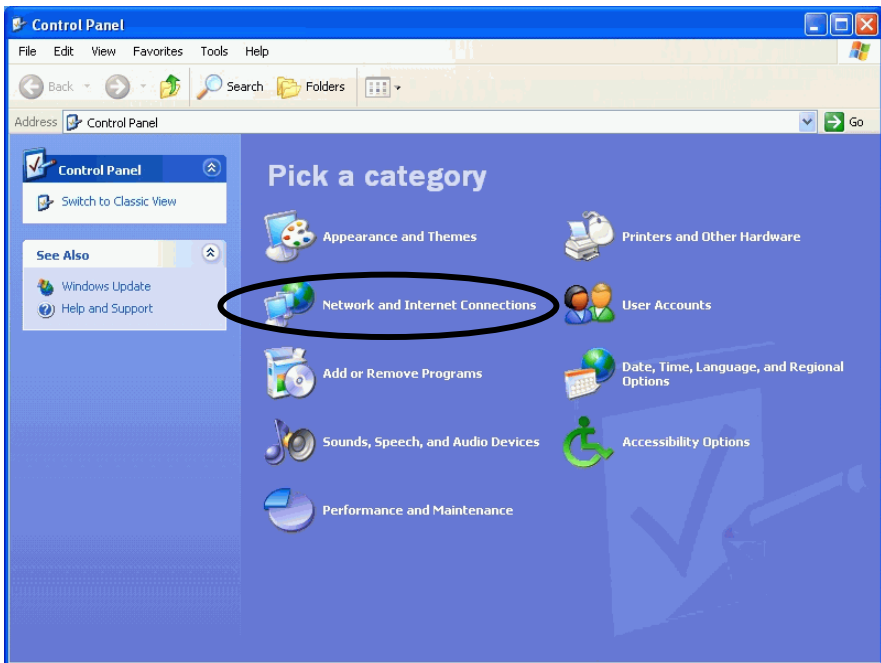
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

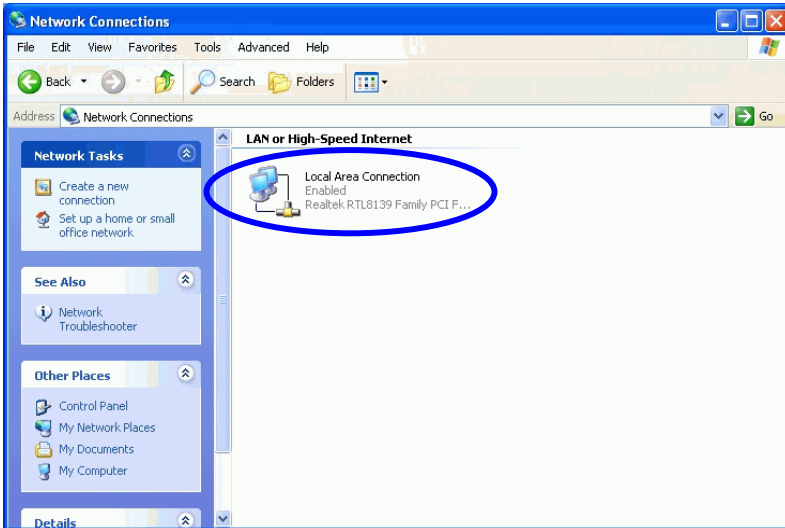
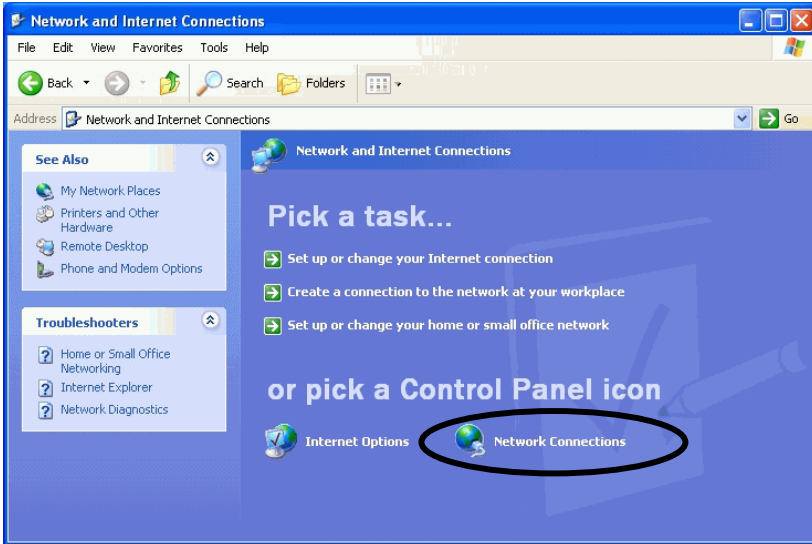
Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

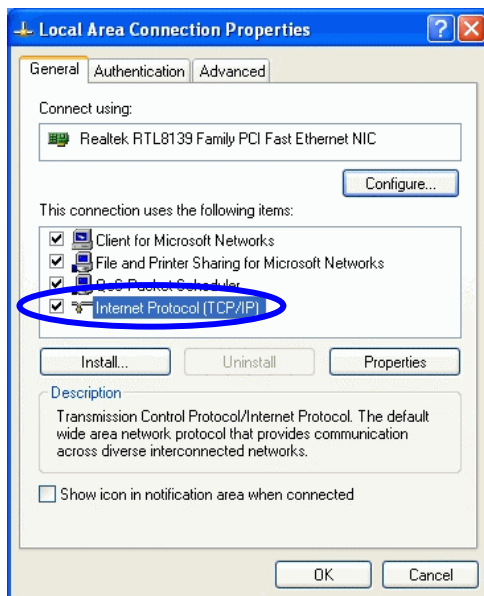
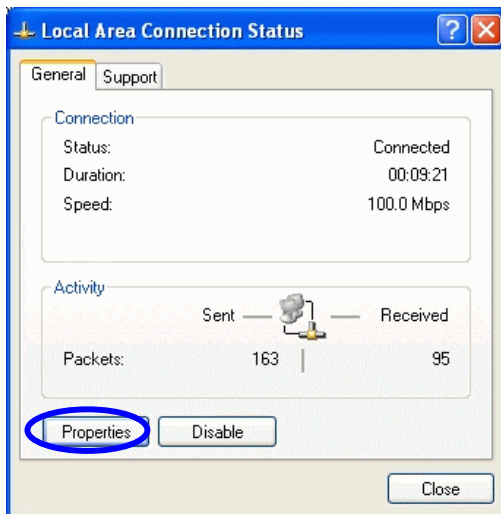
C:\Documents and Settings\Administrator>
```

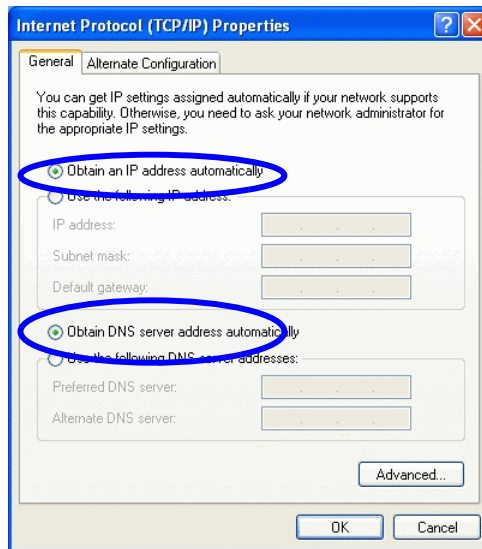
## 5.2 Windows XP SETUP

- (1) Install IP Router.
- (2) Start Windows XP and check LAN LED is on or off. If off, please confirm the connection of your computer with IP Router.
- (3) Click **“Start”->“Setting”->“Panel Control”**
- (4) Double click the **“Network and Internet Connections”** in **“control panel”**.
- (5) Click **“Network connection”->“local area connection”->“properties”-> “Internet protocol (TCP/IP) ”** and **“Properties”**.
- (6) Click **“General “**, Select **“Obtain an IP address automatically”** and **“Obtain DNS server address automatically”**
- (7) Click **“OK”**

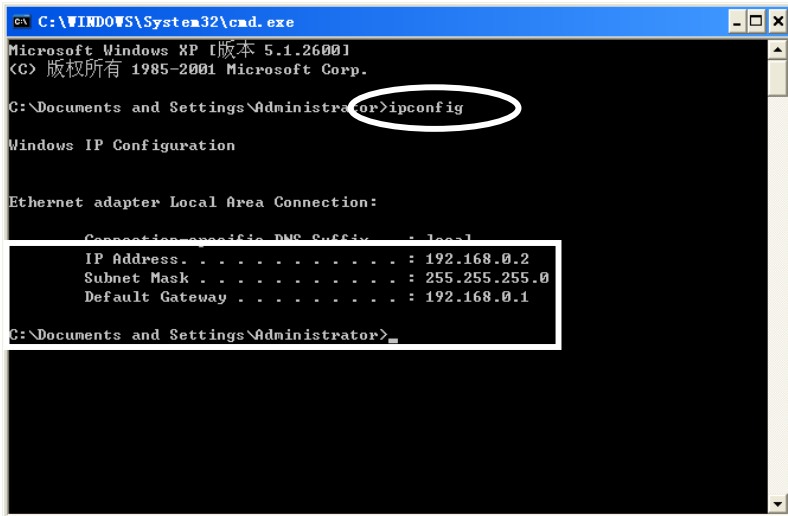








- (8) Click **"Start"**->**"Run"**
- (9) Input **"cmd"** , Click **"OK"**
- (10) Input **"ipconfig"** in the pop-up command window.
- (11) Please make sure your IP is the same with below. If same then your configuration is successful, or please redo the above steps and restart your computer.
  - The IP address is between **192.168.0.2** and **192.168.0.254**
  - The subnet mask is **255.255.255.0**
  - The default gateway is **192.168.0.1**



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ipconfig

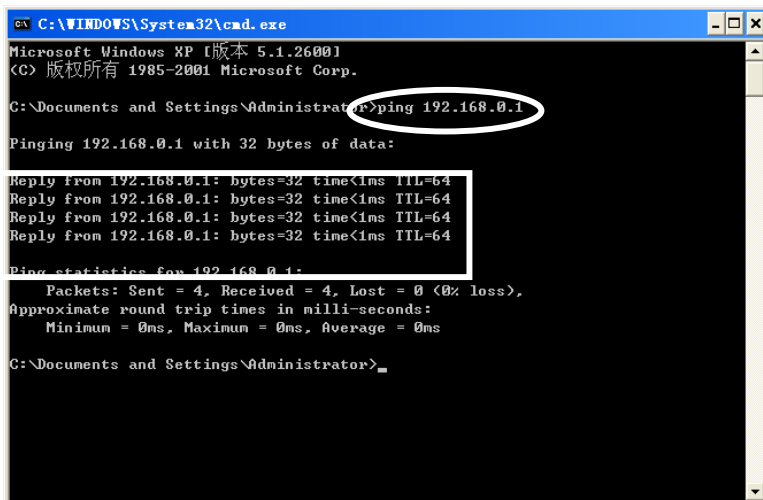
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : local
    IP Address. . . . . : 192.168.0.2
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

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

- (12) Input “**ping 192.168.0.1**”, then “Enter”.
- (13) If you can see “**Reply from 192.168.0.1: bytes=32 time=2ms TTL=64**”, then the connection between your computer and IP router is completed.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:



Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

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

## 6. IP ROUTER SETUP

### 6.1 START INTERNET EXPLORRE TO LOGIN

- Run Internet Explorer (  ), and click the “Stop (  ) button in Internet Explorer’s toolbar.
- Input **http://192.168.0.1** in Internet Explorer’s address bar.



- ✧ **192.168.0.1 is Default IP address of Router.**
- You may see the following login web page. Click “Login” button and make relative configuration. Check “WAN Setup” to Setup Wizard. The setup wizard enables you to configure the router quickly and conveniently. Check “WLAN Setup” to WLAN setup wizard. The wireless setup wizard enables you to configure the wireless setting.
- You can login directly without account & password confirmation because there is no account information required by factory default configuration.

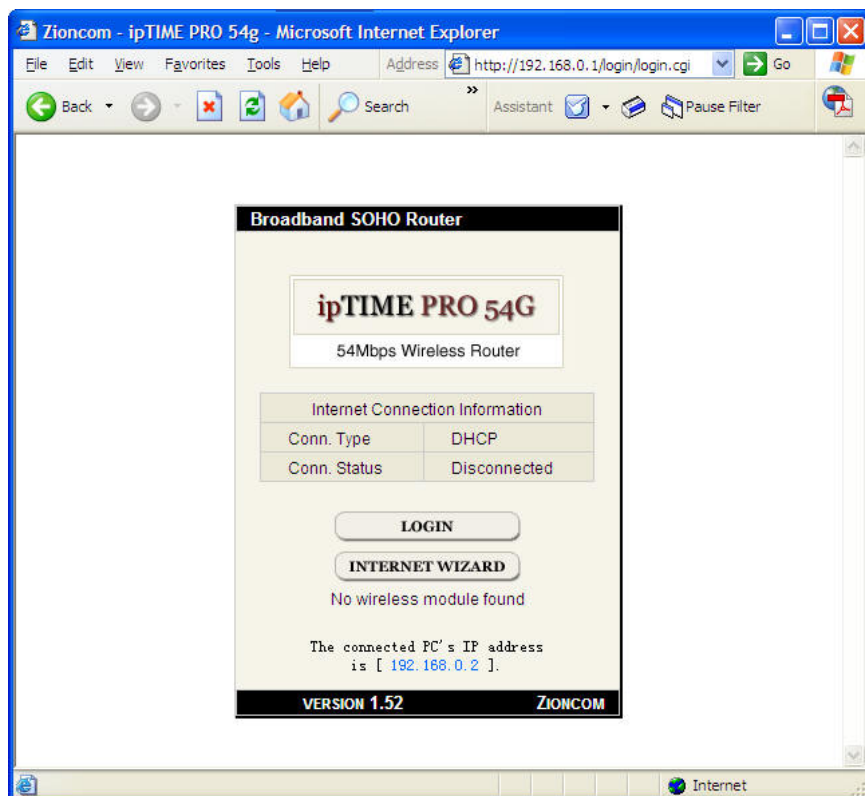
**Conn. Type:** IP ROUTER current connection type, Dynamic IP is default value.

**Conn. Status:** IP Router current connection Status

**WAN IP:** IP ROUTER WAN current IP address

**Connected PC:** IP address of the computer which connects to IP ROUTER.





## 6.2 PPPoE(ADSL) USER SETUP

This connection way is suitable for virtual dial-up Internet connection.

- Open external ADSL Modem and check the WAN LED of IP ROUTER.
  - ✧ If WAN LED is off, check the network cable between external modem and WAN port.
- Click **“Basic setup”** -> **“WAN setup”**, as follows:

**ZIONCOM** **ipTIMEPRO 54g**

Status **Basic Setup** System QoS NAT Advanced

**WAN Setup** Wireless Setup LAN/DHCP Setup Link Setup/Info Routing Table

Basic Setup >> WAN Setup Refresh Save Help

**WAN Setup**

☐ **DHCP User (Cable Modem, VDSL, LAN, IP ADSL)**

☐ Physical Address Clone 00 - 0E - E8 - 12 - 11 - 11

☒ Allow private ip to be accepted

☒ **PPPoE User (ADSL)**

User ID

Password

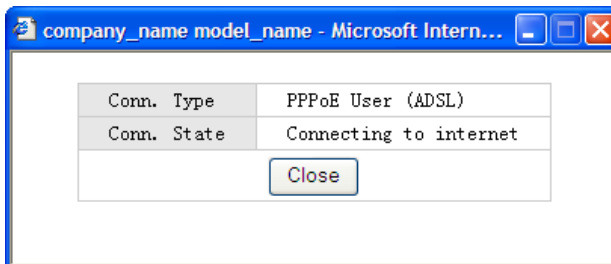
MTU

☐ Disconnect PPP session if idle time is longer than  Min

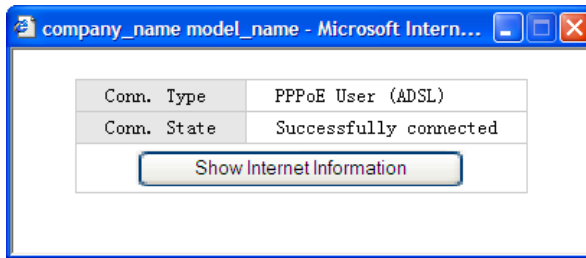
☒ Connect On Demand ☐ Connect Manually

☐ Prevent reconnection although no response from PPP server

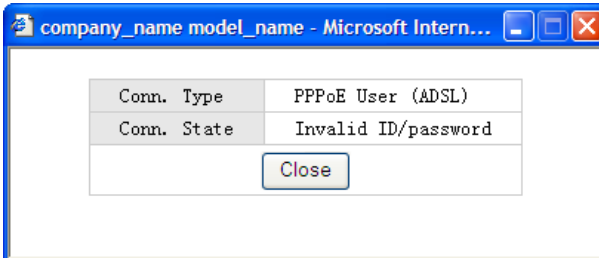
- Select “**PPPoE User (ADSL)**” radio button.
- Key in the “**User ID**” and “**Password**” provided by your Internet service provider.
- Click the “**Apply**” button.
- You may see the popup window.



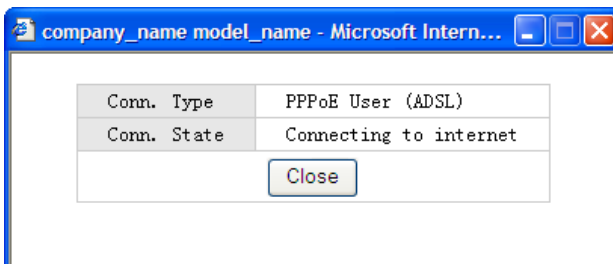
- In case “**Conn. Status**” is “**Successfully connected**”, the configuration is correct.
- Click “**Show Internet connection status**” and see the 6.5.1.



- If In case **“Conn. Status”** is **“Invalid ID/password”**, the configuration is incorrect.
  - ✧ Click the **“close”** button and check your ID& password.



- If **“Conn. Status”** keeps unchanged, check whether your service type is correct.



- **Confirm the WAN connection status:** If WAN connection is successfully established, then by clicking **“Show Internet Information”** you can enter WAN status web page; or click **“Status”**-> **“WAN status”**, as the following.
  - ✧ **Connection Type** should be **PPPoE (ADSL)**
  - ✧ **Connection Status** should be **“successfully connected”**

- ✧ **Physical Address** is shows Router WAN port MAC Address.
- ✧ **WAN IP Address, Subnet mask, Default Gateway, Primary DNS server and Secondary DNS server** can be different from the following values. (These addresses are provided by your ISP)

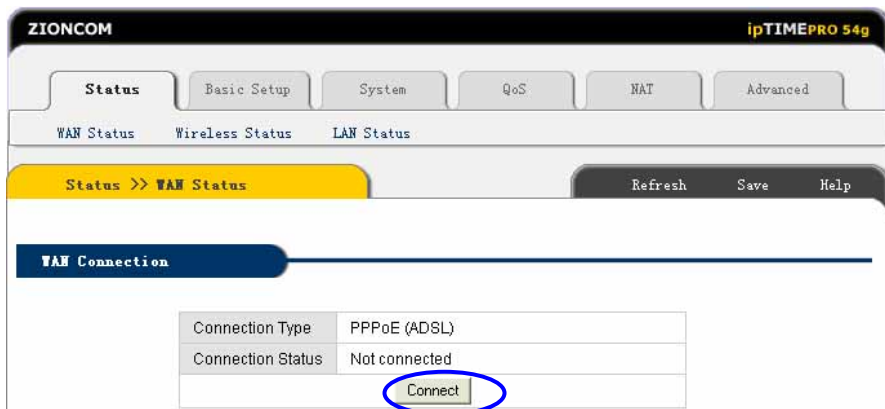
**ZIONCOM** **ipTIMEPRO 54g**

Status >> WAN Status Refresh Save Help

**WAN Connection**

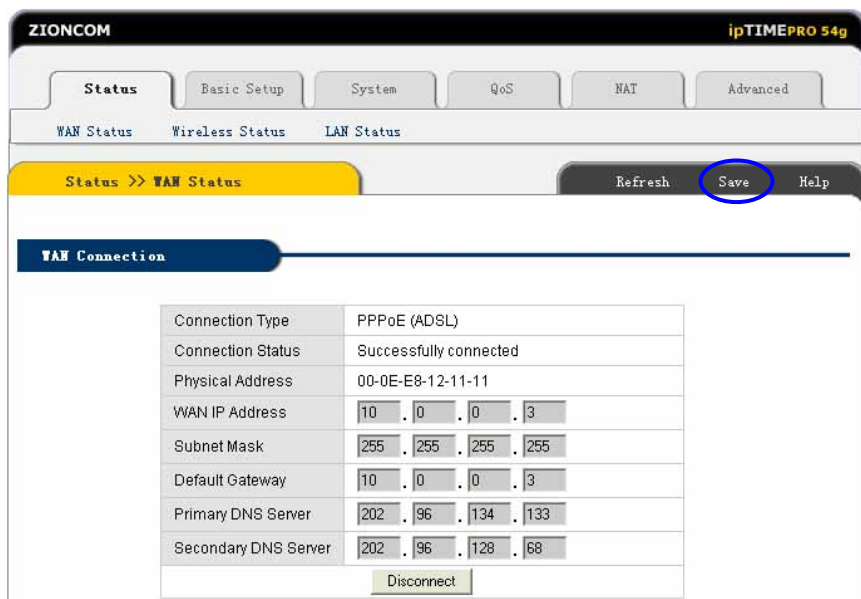
Connection Type	PPPoE (ADSL)
Connection Status	Successfully connected
Physical Address	00-0E-E8-12-11-11
WAN IP Address	10 . 0 . 0 . 3
Subnet Mask	255 . 255 . 255 . 255
Default Gateway	10 . 0 . 0 . 3
Primary DNS Server	202 . 96 . 134 . 133
Secondary DNS Server	202 . 96 . 128 . 68
<input checked="" type="button" value="Disconnect"/>	

- ✧ **“Disconnect”** is manual disconnection button. If you click then the system will disconnect with Internet



✧ “**Connect**” is manual connection button. By clicking it the system can be connected to Internet again.

- Click “**Save**” to save current configuration.
- Restart all PCs connect with IP Router.





**Notes: Please save IP Router Configuration after completion, otherwise configuration will lose when power off or restart.**

#### **Other Configurations:**

**MTU:** Input MTU value of data package, default value is 1454. Normally please do not change it.

**Disconnect PPP session if idle time is longer than Min:** If you choose this option and setup the time T, then the IP router automatically disconnects from Internet after T idle time.

**Connect On Demand:** IP Router can automatically connect with Internet if there is Internet access after disconnection. Note: during usage if there is disconnection due to external causes, then the IP Router will try to connect with Internet at once until successful connection. This function is the IP Router inner function and does nothing with **Connect On Demand** function. **Connect On Demand** is only effective to **Disconnect PPP session if idle time is longer than Min**.

**Connect Manually:** By this option users have to connect with Internet manually after disconnection. This option is only effective to **Disconnect PPP session if idle time is longer than Min**.

**Prevent reconnection although no response from PPP server:** This option is to shut off IP Router inner automatic connection function. By choosing this option if external network disconnects, IP Router will not try to connect at once.

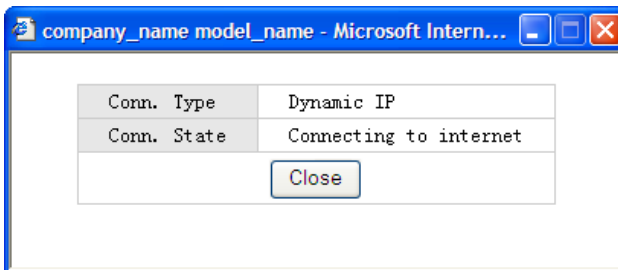
### **6.3 DYNAMIC IP USER (Cable/Modem...) SETUP**

By this connection way IP Router can get IP address automatically from ISP (such as: CHINA TELCOM). It is suitable for connection ways such as Cable Modem, LAN and so on.

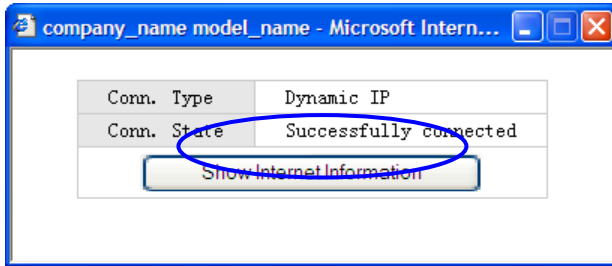
- Turn on the external Cable Modem and check the WAN LED of IP Router.
  - ✧ If WAN LED is off, please re-confirm the network cable between external Modem and WAN port.
- Click **“Basic Setup”**->**“WAN Setup”** as diagram:
- Choose **Dynamic IP user (Cable Modem...)**
- Click **Apply** to complete.



- You will see the following pop-up window

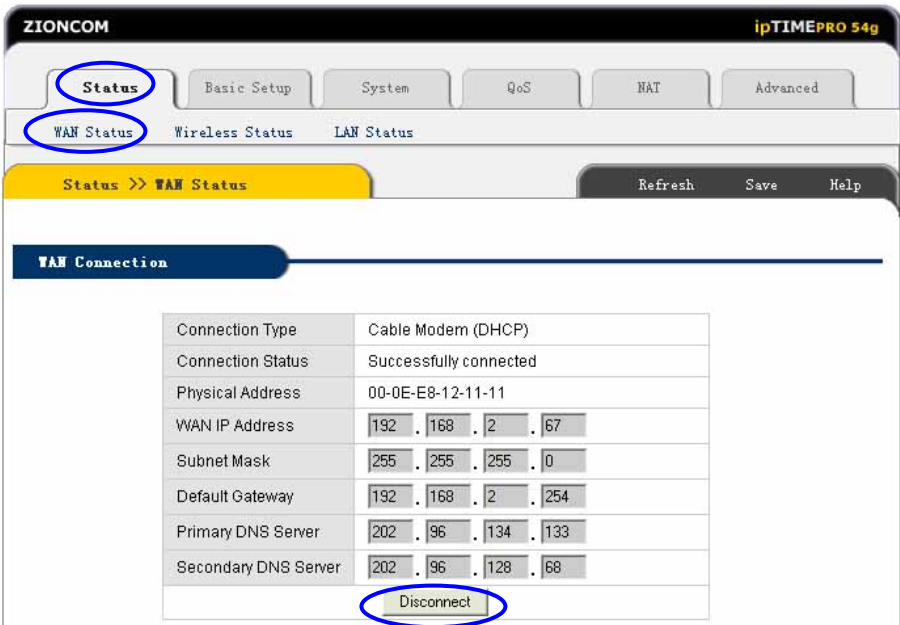


- If **Conn. status** is **“Successful connected”**, the configuration is correct.
  - ✧ Click **“Show Internet Information”** and see the 6.5.1

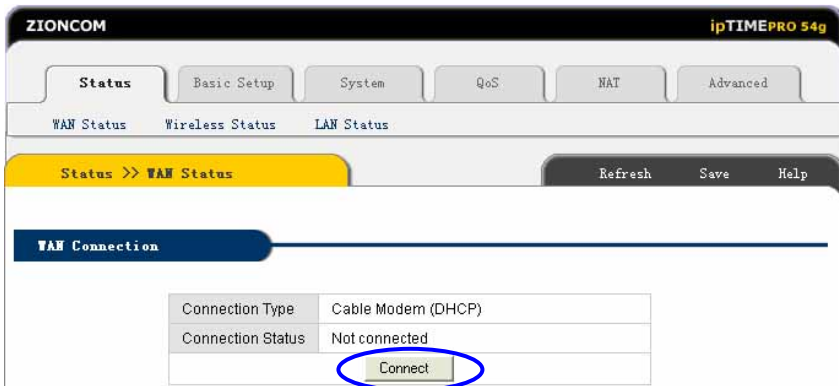


- If connection status keeps to be **“Connecting to Internet”**, please do the following steps:
  - ✧ Close the pop-up window.
  - ✧ Turn off Cable Modem power supply then on, and confirm the WAN LED status.
- Re-click **“Apply”** button.
- **Check the WAN Connection Status:** If the status is **“Successfully connection”**, click **“Show Internet Information”** to enter WAN status page; or click **Status->WAN status**, as following diagram:



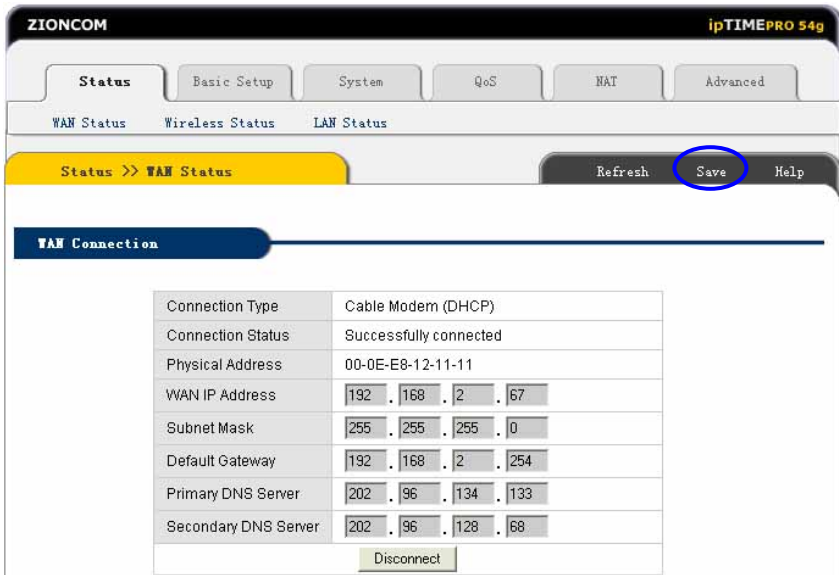


- If WAN connection is successfully established, you can see the following.
  - ✧ **Connection Type** should be “**Cable Modem (DHCP)**”
  - ✧ **Connection Status** should be “**Successful connected**”
  - ✧ **Physical Address** is shows Router WAN port MAC Address.
  - ✧ **WAN IP Address, Subnet mask, Default Gateway, Primary DNS server and Secondary DNS server** in your computer may be different from the following value (These addresses are provided by your ISP).
  - ✧ **Disconnect** button as follows is manual WAN port IP address release function button. If click it IP Router will release WAN port IP address and disconnect with Internet.



- ✧ “**Connect**” button is manual WAN port IP address refresh function button. If click it WAN port will re-get dynamic IP address and connect with Internet.

- Click “**Save**” button to save current configuration, then restart all PCs connected with IP Router



**Note:**

After completed setup, please save IP Router configuration, otherwise the configuration will be lost when IP Router is power off or restarts.

**Other configuration:**

**Physical address Clone:** If you want to change WAN port MAC address you can choose this option; If this option is un-chosen the WAN MAC address is default value; By this option the displayed MAC address is your current MAC address; You can also manually add the WAN port MAC address; without the option WAN port MAC address will restore to default value.

**Allow private IP to be accepted:** Allow WAN port assigned private IP address.

## 6.4 STATIC IP USER SETUP

If you have static IP address provided by ISP, you can choose this option.

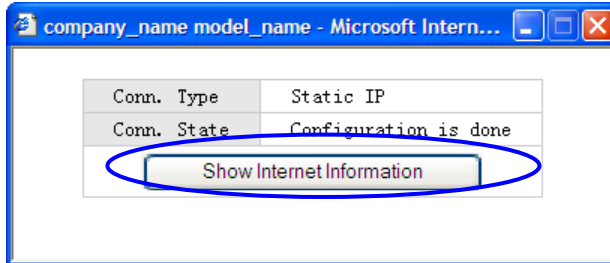
- Turn on the external modem and check the WAN LED of IP Router
  - ✧ If the WAN LED is off, please check the network cable between external modem and the WAN port.
- Click **Basic Setup->WAN Setup** as following diagram:



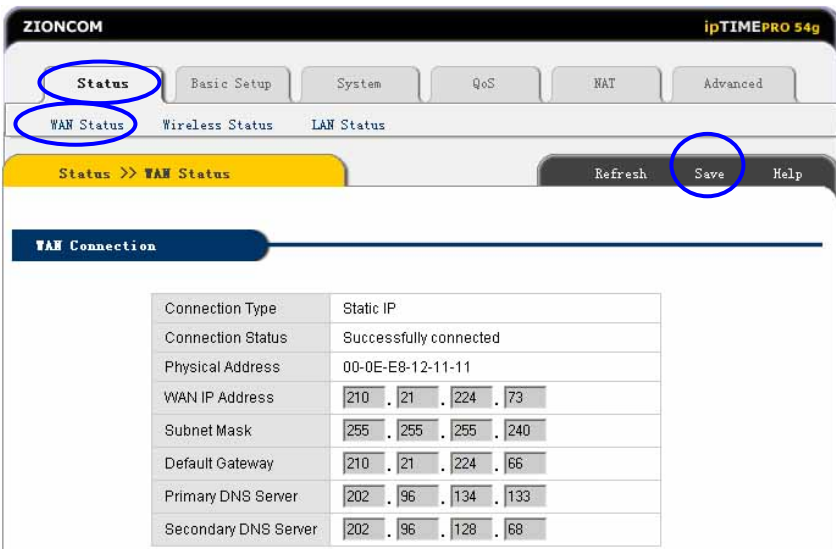
Static IP User							
WAN IP Address	210	.	21	.	224	.	73
Subnet Mask	255	.	255	.	255	.	240
Default Gateway	210	.	21	.	224	.	66
Primary DNS Server	202	.	96	.	134	.	133
Secondary DNS Server	202	.	96	.	128	.	68

Apply

- Input **WAN IP address, Subnet mask, Default Gateway, Primary DNS Server** and **Secondary DNS Server** provided by ISP.
- Click **Apply** to complete.
- You will see the following pop-up window:



- **Check WAN connection status:** If it is “**Configuration is done**”, click “**Show Internet Information**” to enter WAN status page; or click **Status->WAN status**, as following diagram:



- If WAN connection is successfully established, you can see the following.
  - ✧ **Connection Type** should be “**Static IP**”
  - ✧ **Connection Status** should be “**successful connection**”
  - ✧ **Physical Address** is shows Router WAN port MAC Address.
  - ✧ Confirm **WAN IP Address**, **Subnet mask**, **Default Gateway**, **Primary DNS server** and **Backup DNS server** is same with the values provided by ISP or not.
- Click the “**Save**” button to keep current configuration, then restart computers in LAN to re-get IP relative information.



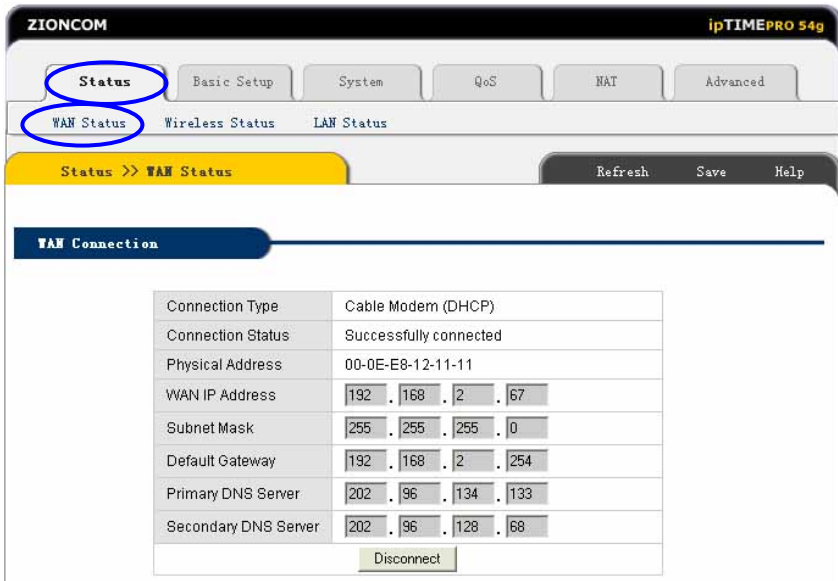
**Note:**

After completion please save the configuration, otherwise configuration will be lost when IP Router is power off or restarts.

## 6.5 STATUS

### ➤ 6.5.1 WAN Status

Click “Status”->“WAN Status” as following:

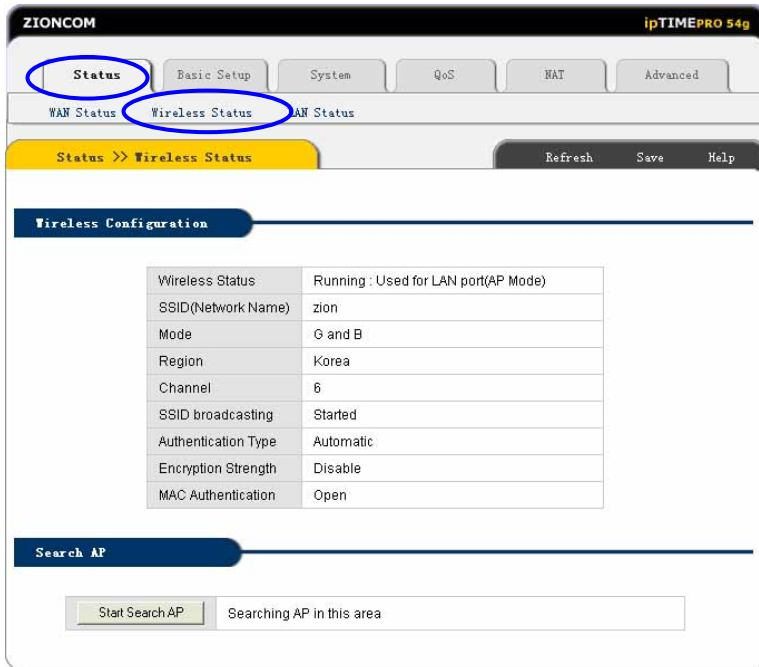


This page shows current Internet connection status (WAN port), including **Connection Type**, **Connection Status**, **WAN IP address**, **Subnet mask**, **Default Gateway** and **DNS server**. If it is dynamic IP way, “**Disconnect**” button or “**Connect**” button will be shown above. Click “**Disconnect**” button to release current WAN Port IP Address, then click “**Connect**” button to refresh WAN IP address; if it is PPPoE way, then “**Connect**” or “**Disconnect**” button will be shown above. Click “**Connect**” button to connect with Internet, click “**Disconnect**” button to disconnect with Internet.

- **Refresh:** Refresh current web page. All of the following web pages will have this button with the same function.
- **Save:** Save IP Router current configuration. All of the following web pages will have this button with the same function.

## 6.5.2 Wireless Status

Click “Status”->“Wireless Status” as following:



This web show current wireless part configuration, including:

- **Wireless Status:** Show current wireless connector status.
- **SSID (networking name):** Show current wireless networking name.
- **Mode:** Current used wireless connector forwarding mode
- **Region:** Show current channel region information
- **Channel:** show current used channel
- **SSID Broadcast:** Show SSID is on or off
- **Authentication Type:** Show current used certification way
- **Encryption Strength:** Show WEP encryption length (64/128 bits)
- **MAC Authentication:** Show how to identify wireless customer by MAC address.

### 6.5.3 LAN Status

Click “Status” → “LAN Status” as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced. The 'Status' tab is selected and circled in blue. Below it, the 'LAN Status' sub-tab is also circled in blue. The main content area shows 'Status >> LAN Status' and a 'Refresh' button. The 'LAN Information' section displays the following details:

Physical Address	00-0E-E8-11-11-11
System IP Address	192 . 168 . 0 . 1
Subnet Mask	255 . 255 . 255 . 0
DHCP IP Pool	192 . 168 . 0 . 2 - 192 . 168 . 0 . 254
Number of IP allocated	1

The 'IP allocated' section shows a table with the following data:

Number	IP Address	Physical Address	Etc.
1	192.168.0.2	00:A0:B0:13:F5:10	Wired : Dynamic

LAN Information : Show user current LAN connecting status (LAN port and wireless connection ) and DHCP server status, include MAC address of the LAN port ,and IP rent regions and quantities of IP address shared by IP Router among IP address ,subnet mask, DHCP server in LAN .

Shared IP information: Show IP address information rent by DHCP server

Serial Number: The position in the subject

Physical Address: MAC address of the client PC

Types: Wireless /Wired, dynamic / static



## 6.6 BASIC SETUP

### 6.6.1 WAN Setup

Click "Basic Setup"->"WAN SETUP" as following:



The way for Dynamic IP User, PPPoE(ADSL) user and static IP user to set up are illustrated in Chapter 6.2 ,6.3,and 6.4 respectively . Pls refer to those chapters.

ipTIME PRO 54G not only connect Internet by cable also with other AP by wireless, named wireless client mode. In this mode, wireless client PC cannot connect with this Wireless router in wireless way but by cable.

If choose this mode, configure wireless connection as Internet connection, click "Applied" and "restart ". This mode enable user to obtain IP in WAN setup.



#### Note:

1. In client mode, click " Basic Setup "->"Wireless Setup" configure corresponding SSID and encryption way.
2. in client mode , wireless router WAN port will be disable.

### 6.6.2 Wireless Setup

Click "Basic Setup"->"Wireless SETUP" as following:

This web show the basic wireless parameter and wireless certification way configuration

**ZIONCOM** **ipTIMEPRO 54g**

Status **Basic Setup** System QoS NAT Advanced

WAN Setup **Wireless Setup** LAN/DHCP Setup Link Setup/Info Routing Table

**Basic Setup >> Wireless Setup** Refresh Save Help

**Basic Setup**

Status	Running - Used for LAN port(AP Mode)		
Operation	ON		
SSID	zion	Mode	g and b
Region	Korea	Channel	ch 6 Search the best channel
TX Power	127 ( 0 ~ 127 [-16dBm ~ 16dBm] : 0.25 dBm per 1 unit )		
<input checked="" type="checkbox"/> Broadcast of SSID option			
Apply			

- **Basic Setup:** Show current wireless status and basic parameter for configuration
- **Status:** Show wireless connector status (on/off, AP/Client mode)
- **Operation:** Wireless connector can be configured as on or off.
- **SSID:** Record wireless SSID
- **Mode:** If wireless connector conforms to 11G and 11B standard, pls choose “G and B”; If wireless connector only run under 11G standard, choose “g only mode”.
- **Region:** Configure region for wireless channel, no need to setup.
- **Channel:** Choose the wireless networks channel in AP mode; In client mode, option for channel is disable.
- **Broadcast of SSID Option:** if SSID configured, AP broadcast SSID to wireless client.

After finishing configuration, click “**Apply**”.

WEP Setup	
Authentication Type	Automatic
Encryption Strength	64 Bit
Key Input Method	String
Basic KEY	Fill the values of Key
<input checked="" type="radio"/> KEY 1	<input type="text"/>
<input type="radio"/> KEY 2	<input type="text"/>
<input type="radio"/> KEY 3	<input type="text"/>
<input type="radio"/> KEY 4	<input type="text"/>
Apply	

- **WEP Setup:** Configure Certification way and WEP key.
- **Authentication Type:** Choose authentication type (automatic/open system/share Key)
- **Encryption Strength:** Choose Key length (64/128bits)
- **Key Input Method:** Choose string, HEX or Pass phrase
- **Basic Key:** Fill in Key value

After finishing configuration, click “Apply” .

MAC Authentication	
Policy	Accept Apply
<b>MAC Address List To Be Rejected</b> <input type="button" value="REMOVE"/> Check items to be removed	<b>MAC Addresses Currently Online</b> <input type="button" value="&lt;==ADD"/> Check items to be added <b>Manual Input</b> <input type="checkbox"/> Get MAC address of this host <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>

- **MAC Authentication:** Configure MAC authentication, choose type (Open/Accept/Reject) and click “Apply”
  - ✧ In open type: All the wireless clients can connect.
  - ✧ In Accept type: Specified clients can connect
  - ✧ In Reject type: Specified client was reject to connect.

**Notes:**

After setup, pls click “Save”. Save IP Router configuration, otherwise, configuration will be lost when power off or router restarted.

### 6.6.3 LAN Status

Click “Basic Setup”->“LAN/DHCP SETUP” as following:

**ZIONCOM ipTIMEPRO 54g**

Navigation: Status | **Basic Setup** | System | QoS | NAT | Advanced

Sub-navigation: WAN Setup | Wireless Setup | **LAN/DHCP Setup** | Link Setup/Info | Routing Table

Path: Basic Setup >> LAN/DHCP Setup | Refresh | Save | Help

---

**System IP Setup**

System IP Address	192	.	168	.	0	.	1
Subnet Mask	255	.	255	.	255	.	0
Apply							

---

**DHCP Setup**

DHCP Server Status	Running
DHCP Server Operation	Start
DHCP IP Pool	192 . 168 . 0 . 2 - 192 . 168 . 0 . 254
<input type="checkbox"/> Manual DNS configuration	202 . 96 . 134 . 133 , 202 . 96 . 128 . 68
Apply	

---

**Static Lease Management**

☐ Add hardware address & IP pair on the real network  
☐ Add hardware address & IP pair manually

IP Address	Physical Address	Del
------------	------------------	-----

LAN port basic parameter and DHCP server parameter can be setup in this web page.

- **System IP Setup:** If you want to change IP Router LAN port address, you can setup as follows:

**System IP address:** IP address in LAN. This IP address is factory default value **192.168.0.1**, and you can change it.

**Subnet Mask:** Subnet mask in LAN. This value cannot be changed.

TCP/IP protocol configuration includes IP address, subnet mask, Gateway and DNS server and so on. It is not easy to configure TCP/IP protocol correctly in all computers in LAN, but it is lucky that –DHCP Server has provided this function. If you choose the DHCP function, you can let DHCP Server configure TCP/IP protocol in all computers in LAN automatically.

- **DHCP Setup:** If you want to able or disable DHCP Server, change DHCP address range, you can choose the following options:

**DHCP Server Status:** Display DHCP Server current status.

**DHCP Server Operation:** Able and disable DHCP Server. The default value is able DHCP Server.

**DHCP IP Pool:** IP address range automatically allocated by DHCP Server is address pool.

**Manual DNS configuration:** Let DHCP Server automatically allocated the DNS Server to Client PC.

- **Static Lease Management:** This function makes sure the convenient control of the IP address in LAN computers. Static lease IP can obligate static IP address for computer with appointed MAC address. Afterwards when the

computer asks DHCP Server for IP address, DHCP Server will give it the obligated IP address.

**Add hardware address & IP pair on the real network:** Choose this function, IP Router list PC IP address and MAC address, specify IP address and MAC address to be binded, click “Add” to implement binding.

Static Lease Management										
<input checked="" type="radio"/> Add hardware address & IP pair on the real network <input type="radio"/> Add hardware address & IP pair manually										
	<table border="1"> <thead> <tr> <th></th> <th>IP Address</th> <th>Physical Address</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>192.168.0.2</td> <td>00-A0-B0-13-F5-10</td> </tr> <tr> <td colspan="3" style="text-align: right;">Add</td> </tr> </tbody> </table>		IP Address	Physical Address	<input checked="" type="checkbox"/>	192.168.0.2	00-A0-B0-13-F5-10	Add		
	IP Address	Physical Address								
<input checked="" type="checkbox"/>	192.168.0.2	00-A0-B0-13-F5-10								
Add										

**Add hardware address & IP pair manually:** Choose this option, user just input the MAC address and IP address of PC to be binded



#### Notes:

1. In order to use DHCP function of the IP Router, TCP/IP protocol of computers in LAN must be configured as “automatically get IP address”.
2. After completion please click “Apply” to make the configuration valid. Please save the configuration, otherwise configuration will be lost when IP Router is power off or restarts.

## 6.6.4 Link Setup/Info

Click “Basic setup”->” Link Setup/Info” as follows:



Link Setup

Port	Mode	Speed	Apply
WAN	Auto	10Mbps	Apply
1	Auto	10Mbps	Apply
2	Auto	10Mbps	Apply
3	Auto	10Mbps	Apply
4	Auto mode only		

Link Information

Port	WAN	1	2	3	4
Link	On	Off	Off	On	Off
Speed	100 Mbps	-	-	100 Mbps	-
Deuplex	Full	-	-	Full	-

Link Statistics

Port	WAN	1	2	3	4
Rx-Packets	419	0	0	2325	0
Rx-Bytes	109782	0	0	343104	0
Rx-Broadcast	171	0	0	130	0
Rx-Multicast	0	0	0	10	0
Rx-Error	0	0	0	0	0
Tx-Packets	224	0	0	2256	0
Tx-Bytes	54262	0	0	521680	0
Tx-Collision	0	0	0	0	0

Clear

All IP Router ports' speed, Link information and port statistics data and so on can be setup by this web page:

- **Link Setup:** Setup every port's connection speed.
  - Port:** IP Router WAN Port and LAN Port.
  - Mode:** Automatic mode and manual mode turn on/off.
  - Speed:** Setup port speed.
  - Apply:** Apply current setup.
  
- **Link Information:** Display all current ports connection status.

**Port:** IP Router WAN port and LAN port.

**Link:** Connection port is being used or not.

**Speed:** Current port speed.

**Duplex:** If **FULL**, then it is full Duplex; If **HALF**, then it is half- Duplex

- **Link Statistics:** Display received and sent-out data flow from every current port.



**Note:**

Click “Save” to save this IP Router configuration, otherwise configuration will be lost when power is off or PC restarted.

### 6.6.5 Routing Table

Static routes can be added if you require specific routes, Click “**Basic setup**”->” **Routing Table**” as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The 'Basic Setup' tab is selected and circled in blue. Within 'Basic Setup', the 'Routing Table' sub-tab is also circled in blue. Below the tabs, there is a 'Basic Setup >> Routing Table' breadcrumb and buttons for 'Refresh', 'Save', and 'Help'. The main section is titled 'Static Routing Table'. It contains a form to add a new static route with the following fields:

Type	Target	Mask	Gateway
NET	10.30.0.0	255.255.255.0	192.168.2.10

An 'Add' button is located below the form. Below the table, there is a 'Del' button circled in blue. The entire table and the 'Del' button are circled in blue.

- **Type:** Routing Type. Have two options: **NET/Host**.
- **Target:** Enter in the IP of the specified network or host that you want to access using the static route



- **Mask:** Enter in the subnet mask to be used for the specified network,  
For example:255.255.255.0=>24.
- **Gateway:** Enter in the gateway IP address to the specified network.  
For Complete Setup, Please click “Add” button to add a Routing rule.

**Note:**

Click “Save” to save this IP Router configuration, otherwise configuration will be lost when power is off or PC restarted.

## 6.7 SYSTEM

### 6.7.1 PASSWORD

Click “System” -> “Password” as follows:

System administrator ID and password can be changed by this web page.

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System (highlighted with a blue circle), QoS, NAT, and Advanced. Below this, a sub-navigation bar includes Admin Setup (highlighted with a blue circle), Firmware Upgrade, System Log, and Misc. The main content area is titled 'System >> Admin Setup' and contains a 'Login Account Setup' section. This section has a table with the following fields:

Current Login ID	<input type="text" value="root"/>
Current Password	<input type="password"/>
New Login ID	<input type="text"/>
New Password	<input type="password"/>
Re-type New Password	<input type="password"/>
<input type="button" value="Apply"/>	

Admin E-mail Setup	
Admin E-mail	<input type="text"/>
Mail Server(SMTP)	<input type="text"/>
E-mail of sender	<input type="text"/>
<input type="checkbox"/> Use Authentication	
SMTP Account	<input type="text"/>
SMTP Password	<input type="password"/>
<input type="button" value="Apply"/>	

Firstly please input your old ID and password, and then input your expected new ones. If your old ID and password which have been input are correct then click **“Apply”** to successfully change.

**Admi E-Mail Setup:** If user wants to receive IP Routing log, configure Email address and SMTP server to receive.



**Note:**

1. According to the safety, we strongly recommend you to change the initial administrator username and password. If you forget your system password please change them to factory default values by Reset button.
2. If want to restore the default value, Please press Reset button and pull out the power adapter DC plug then insert the DC plug, about 5 seconds later RUN LED will flash rapidly, then release the button. After IP Router startup, all configuration will restore to default configuration.

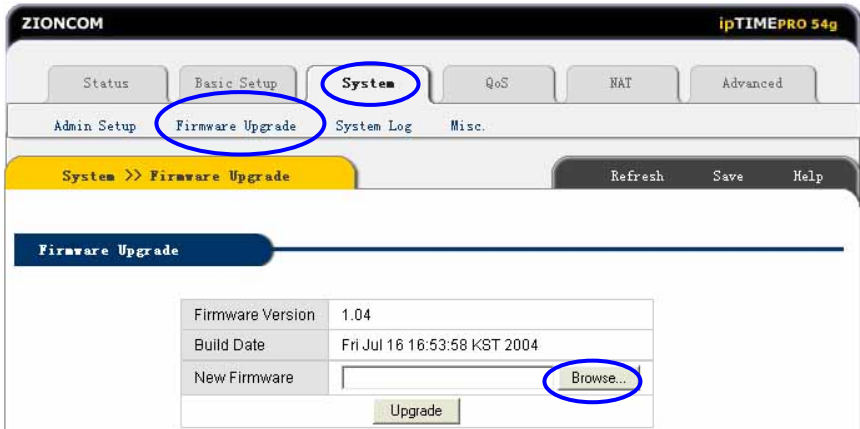
## 6.7.2 Firmware Upgrade

Click **“System”** -> **“Firmware Upgrade”**, as follows:

IP Router will be obtained new function by upgradation .

How to upgrade firmware:

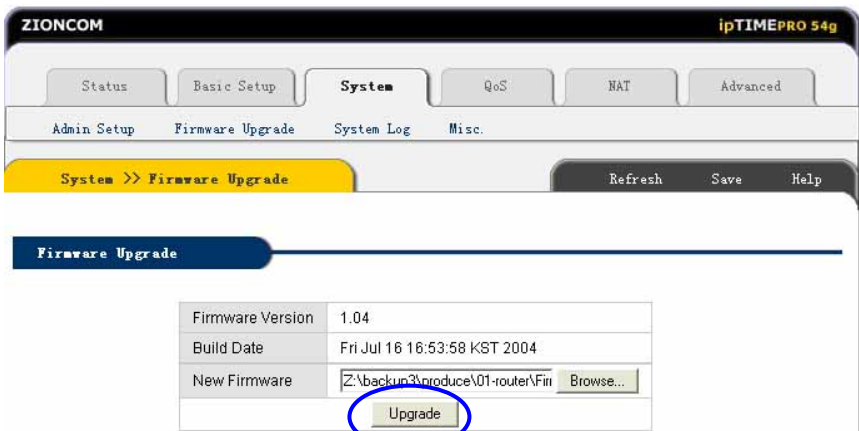
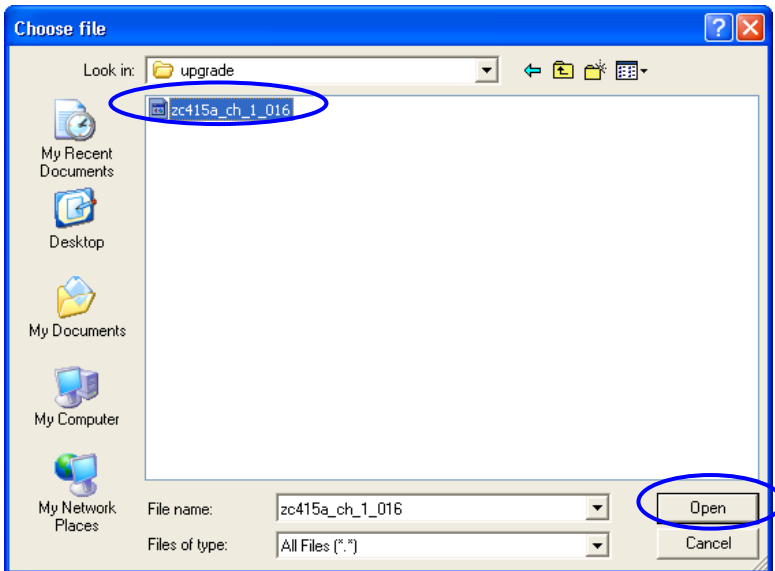
Login our website [www.zioncom.net](http://www.zioncom.net), download advanced software to local hard disk; pls pay attention to model number.



By updating the IP Router software, you can get new functions or performance.

Software update steps:

- 1) Login our company homepage: [www.zioncom.net](http://www.zioncom.net), download new version software to your local hard disk.  
*\* Please notice production and software type.*
- 2) Click **"Browse"** button to choose you downloaded file.



- 3) Click **“Upgrade”** button to upgrade system software.

## Firmware Upgrade

Upgrade process is completed.  
When the system is restarted, configuration page will be opened automatically.  
Please, wait a minute .....

- 4) After update, IP Router will restart automatically.
- 5) Please check you firmware version.



### Note:

Update phase is about 60 seconds. During the update progress please do not turn the power off otherwise the IP Router will be damaged.

## 6.7.3 System log

Click “System” -> “System log”, as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced. The 'System' tab is selected and circled in blue. Below it, the 'System Log' sub-tab is also selected and circled in blue. The main content area is titled 'System >> System Log' and contains two sections: 'System Log Setup' and 'System Log History'.

**System Log Setup**

Status	System Log is running Log Count(Max Count) : 14(400)
Operation	<input type="button" value="Stop"/>
E-mail Report	Please, set the email address of administrator & SMTP mail server.
Clear System Log	<input type="button" value="Clear"/>

**System Log History**

Timestamp	System Log Contents
*****	WAN is connected by DHCP client: 192.168.2.87
*****	Administrator changed the WAN configuration: Static -> DHCP

This web record IP router system log and can switch system log status for checking system history happens on the Router.

### 6.7.4 Misc.

Click “System” -> “Misc.”, as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced. The 'System' tab is selected, and its sub-menu shows Admin Setup, Firmware Upgrade, System Log, and Misc. The 'Misc.' sub-menu item is highlighted. Below the navigation bar, the breadcrumb 'System >> Misc.' is displayed. The main content area is titled 'Hostname Setup' and contains a 'Hostname' input field and an 'Apply' button. Below this, the 'Config Mgmt/Restart' section includes buttons for Config Backup, Config Restore, Restore Default, and Restart System, each with a description. The 'System Time Setup' section includes fields for Current System Time, Time Server, and Standard Time Zone, with an 'Apply' button at the bottom.

**System >> Misc.**

**Hostname Setup**

Hostname

**Config Mgmt/Restart**

<input type="button" value="Config Backup"/>	Download configuration file into your PC
<input type="button" value="Browse..."/>	
<input type="button" value="Config Restore"/>	After browsing a configuration file, click "Config Restore" button
<input type="button" value="Restore Default"/>	To restore the factory default configuration, click this button.
<input type="button" value="Restart System"/>	To restart the system, click this button. But, some configuration would be erased if you didn't save a configuration.

**System Time Setup**

Current System Time	Thu Jan 1 01:31:27 1970
Time Server	<input type="text" value="time.nist.gov"/>
Standard Time Zone	<input type="text" value="(GMT+08:00) Beijing, Hongkong, Ulan-Bator, Kuala Lumpur, Singapore"/>

<b>UPNP Setup</b>	
<input checked="" type="checkbox"/> Enable UPNP Server	<input type="button" value="Apply"/>
<b>Auto Connecting Setup-Page</b>	
<input checked="" type="checkbox"/> Connect with a system setup-page automatically when a internet was disconnected	<input type="button" value="Apply"/>
<b>Login Page Setup</b>	
<input checked="" type="radio"/> The login page would be displayed <input type="radio"/> The login page would not be displayed	<input type="button" value="Apply"/>

- **Setup Hostname:** Configure IP Router name in the networking presented on the report forwarded to administrator mailbox.

- **Config Mgmt /Restart:**

**Config Backup:** Enable user to backup all the configurations.

**Config Restore:** Restore previous configuration on router.

**Restore Default:** Restore defaulted configuration provided by manufacturer, including:

Defaulted user name: **Blank**

Defaulted IP address: **192.168.0.1**

Defaulted Subnet Mask: **255.255.255.0**

Restore defaulted configuration provided by manufacturer, router will reboot automatically.

**Restart System:** Click “**Restart System**”, router will reboot automatically.

**System Time Setup:** For sake of Scheduler. pls configure accurate time system.

Refresh router current time in accurate time zone : Or choose other system server until time to be refreshed.

**UPNP Setup:** UPNP is configured as defaulted. General plug and play UPNP refer to system architecture for the networking between PC and other universal intelligent equipments, especially for the SOHO user. UPnP works with wired or wireless

networks and can be supported on any operating system. UPnP boasts device-driver independence and zero-configuration networking, enable networking equipments connect automatically and working harmoniously.

## 6.8 QoS

### 6.8.1 Basic Setup

Click “QoS” -> “Basic Setup”, as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced. The 'QoS' tab is selected and circled. Below it, the 'Basic Setup' sub-tab is also selected and circled. The main content area is titled 'QoS >> Basic Setup' and includes a 'Refresh', 'Save', and 'Help' button. The 'QoS Basic Setup' section shows 'QoS Status' as 'Started' and 'QoS Operation' as 'Stop'. The 'WAN Speed Setup' section includes a dropdown for 'Internet Type' (set to 'VDSL Pro'), input fields for 'Download Rate' (13 Mbps) and 'Upload Rate' (13 Mbps), and an 'Apply' button. A red warning message at the bottom states: 'Not allow to use a radix point. ex) 2.5Mbps -> 2500Kbps'.

**Function:** Above web is for user to configure Qos basic functions status, access to the Internet and bandwidth speed.

#### Setup Method:

Start up Qos , configure the access to the internet and bandwidth speed under subject of internet throughput, Qos specify the throughput level of the internet application, and then click “Apply”.



**Notes:**

1. If Internet throughput configuration changed, current QoS configuration will be missing.
2. Save current configuration before router power is off or reboot.
3. For the management, prefer to static lease IP or using static IP address on client's PC.

## 6.8.2 IP QoS

Click “QoS” -> “IP QoS”, as follows:

**ZIONCOM** ipTIMEPRO 54g

Status Basic Setup System **QoS** NAT Advanced

Basic Setup **IP QoS** Application QoS Port QoS

QoS >> IP QoS Refresh Save Help

**Setup by IP Address**

Internet Rate Download 13 Mbps Upload 13 Mbps

IP Address ☒ 192 . 168 . 10 .  -  . 192 . 168 . 10 .

☐ Twin IP

Operation Mode  Max. Limit

Download Rate  0  Kbps  Upload Rate  0  Kbps

IP Address Op. Mode Download Upload

**Function:**

IP QoS enable user to control forwarding and downloading speed between the maximum and minimum on PC with specified IP address.

**Setup Method:**

Fill in specified IP address in the column, choose operating mode (maximum Limit /Minimum Guarantee), and then fill value in forwarding and downloading Bandwidth throughput, click “Apply”.

If delete current configuration, choose the value, click “del”



#### Notes:

1. If Internet throughput configuration changed, current Qos configuration will be missing.
2. Save current configuration before router power is off or reboot.
3. For the management, prefer to static lease IP or using static IP address on client's PC.

### 6.8.3 Application QoS

Click “QoS” -> “Application QoS”, as follows:

**Setup by Application**

Internet Rate      Download 13 Mbps      Upload 13 Mbps

Apps	Operation Mode	Download		Upload	
<input type="checkbox"/> WWW (HTTP)	Max. Limit	0	Kbps	0	Kbps
<input type="checkbox"/> Soribada	Max. Limit	0	Kbps	0	Kbps
<input type="checkbox"/> GuruGuru	Max. Limit	0	Kbps	0	Kbps
<input type="checkbox"/> WinMX	Max. Limit	0	Kbps	0	Kbps
<input type="checkbox"/> eDonkey	Max. Limit	0	Kbps	0	Kbps
<input type="checkbox"/> MS Streaming	Max. Limit	0	Kbps	0	Kbps

Apply

**Function :**

QoS on application programme bandwidth throughput will be specified between maximum or minimum value.

**Setup Method:**

Choose application programme to be specified, choose operation mode (maximum Limit /Minimum Guarantee), specify the bandwidth throughput value, and click "Apply".

If want to delete current configuration, choose the column to be deleted, and click "Apply".

**Notes:**

1. If Internet throughput configuration changed, current Qos configuration will be missing.
2. Save current configuration before router power is off or reboot .
3. For the management, prefer to static lease IP or using static IP address on client's PC.

## 6.8.4 Port QoS

Click “QoS” -> “Port QoS”, as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced. The QoS tab is selected and circled in blue. Below it, the Port QoS sub-tab is also selected and circled in blue. The main content area is titled 'QoS >> Port QoS' and includes buttons for Refresh, Save, and Help. A 'Setup by Port' section contains the following configuration fields:

- Internet Rate: Download 13 Mbps, Upload 13 Mbps
- External Port #: [ ]
- Protocol: TCP
- Operation Mode: Max. Limit
- Download: 0 Kbps
- Upload: 0 Kbps
- [Apply]

Below the configuration fields is a table with the following columns: Port #, Protocol, Op. Mode, Download, Upload, and Del.

### Function:

QoS on port bandwidth throughput will be specified between maximum or minimum value.

### Setup Method:

Choose port to be specified, choose operation mode (maximum Limit /Minimum Guarantee), specify the bandwidth throughput value, and click “Apply”.

If want to delete current configuration, choose the column to be deleted, and click “Apply”.



### Notes:

1. If Internet throughput configuration changed, current Qos configuration will be missing.
2. Save current configuration before router power is off or reboot.

3. For the management, prefer to static lease IP or using static IP address on client's PC.

## 6.9 NAT

### 6.9.1 Applications

Click “NAT”->”Applications”, as follows:

**ZIONCOM ipTIMEPRO 54g**

Navigation tabs: Status, Basic Setup, System, QoS, **NAT**, Advanced.

Sub-navigation tabs: **Applications**, Internal Server, Port Forwarding, Port Trigger, NAT On/Off.

**NAT >> Applications** Refresh Save Help

**Application Setup**

Application	Internal IP Address
<input type="checkbox"/> BuddyBuddy	192 . 168 . 0 .
<input type="checkbox"/> WinAmp Broadcasting	192 . 168 . 0 .
<input type="checkbox"/> GuruGuru	192 . 168 . 0 .
<input type="checkbox"/> NetMeeting	192 . 168 . 0 .
<input type="checkbox"/> WinMx	192 . 168 . 0 .
<input type="checkbox"/> Windows XP/2000 Remote Desktop	192 . 168 . 0 .
<input type="checkbox"/> Network Drive	192 . 168 . 0 .
<input type="checkbox"/> H.323 Internet Phone	192 . 168 . 0 . 1719
<input type="checkbox"/> Soribada2	192 . 168 . 0 .
<input type="checkbox"/> Soribada2 Multi Forward Option	UDP port 22321 & 7674 is forwarded by using non-standard NAT algorithm

The connected PC's IP address is 192.168.0.2

Apply

FTP Private Port

Port Number	<input style="width: 90%;" type="text"/>	<input type="button" value="Add"/>
-------------	--	------------------------------------

<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>	<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>	<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>	<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>	<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>	<input type="checkbox"/> <div style="background-color: #cccccc; padding: 2px; border: 1px solid black;">0</div>
--	--	--	--	--	--

Some programs such as Internet network game, Video meeting, network phone and so on need more than one connection. Because of Firewall some of the programs can not work with simple NAT IP Router. But **“Applications”** can make those programs work well with NAT IP Router.

#### Function:

This page is only for the special application programs that cannot work well with Firewall or Proxy Server. If use these functions I, make the special application programs work well with IP Router.

#### Setup Method:

Choose needed application program. Then fill the program's IP address in **“Internal IP address”**. Click **“Apply”** to make it effective.



#### Note:

1. If you want to save all values after IP Router power off or restart, please click **“Save”** button which is in right-above to save current values.
2. If you want to choose option **“Applications”**, we recommend you to use **“Reserving IP”** function or use static IP address in client computer in order to manage it easily.
3. The following is the list of all application port:

Application	Port
BuddyBuddy	TCP 812, TCP 987
WinAmp Broadcasting	TCP 8000
GuruGuru	TCP 9292 TCP 9999
NetMeeting	TCP 1720
WinMX	TCP 6699 UDP 6257
Windows XP/2000 Remote Desktop	TCP 3389 UDP 3389
Soribada2	UDP22321

### 6.9.2 Internal Server

Click **"NAT"**-> **"Internal Server"** as follows:

**ZIONCOM ipTIMEPRO 54g**

Status Basic Setup System QoS **NAT** Advanced

Applications **Internal Server** Port Forwarding Port Trigger NAT On/Off

**NAT >> Internal Server** Refresh Save Help

### Internal Server Setup

Protocol	Internal Server IP Address	External Port #
<input type="checkbox"/> DNS	192 . 168 . 0 .	53
<input type="checkbox"/> SMTP	192 . 168 . 0 .	25
<input type="checkbox"/> POP3	192 . 168 . 0 .	110
<input type="checkbox"/> HTTP	192 . 168 . 0 .	80
<input type="checkbox"/> News	192 . 168 . 0 .	119
<input type="checkbox"/> FTP	192 . 168 . 0 .	21
<input type="checkbox"/> Telnet	192 . 168 . 0 .	23
<input type="checkbox"/> PPTP	192 . 168 . 0 .	1723

The connected PC's IP address is 192.168.0.2

Apply

### DMZ Host Setup

☐ DMZ 192 . 168 . 0 . ALL

The connected PC's IP address is 192.168.0.3

Apply

Because there is Firewall function in the IP Router, if computers in WAN try to access servers in LAN through the IP Router, under default configuration the firewall protection will not allow the access, then conflict occurs – at the same time IP Router has to protect computers in LAN from WAN, at the other time it has to allow access of valid users in WAN.

Here the IP Router provides you “**Internal Server**” function to solve the conflict. Virtual Server provides one service port. All service requests to this port will be relocated to the servers whose IP address has been appointed in LAN.



**Function:**

After been setup the IP Router can allow some services, such as DNS、SMTP、POP3、HTTP、NEWS、FTP、Telnet、PPTP in LAN, to be open to Internet. Then users from Internet can access servers in your LAN; Or by setting up DMZ Server you can allow all application services and ports of one Server in your LAN to be open to Internet.

**Setup Method:**

1. Please confirm the LAN services which you wan to be open to Internet according to the following list:

Protocol	Server
DNS	DNS (Domain Name Server)
SMTP	SMTP (Simple Message Transfer Protocol)
POP3	POP3(Post Office Protocol)
HTTP	Web Server
News	News Server
FTP	FTP File Transfer Server
Telnet	Telnet Server
PPTP	VPN (Virtual Private Network)

2. Choose the Server which you want to be open to Internet, then input Server IP address. Click **“Apply”** button to make current setup valid. Note: All open protocol port should be standard port, otherwise IP Router can not transfer the data package from the invalid port which you have configured;

You can change external port number. But other users who want to access the services which you have setup have to setup the port number before successful access.

3. If you want to setup **“DMZ Host”** please choose **“DMZ ”** option, then input the internal Server's IP address which you want to be open to Internet. IP Router will transfer all received data packages except those which have been setup in **“Internal Server”** to DMZ Server, and will allow the unlimited dual communication between DMZ Server and outside Internet. If you are using a new network application but IP Router can not transfer data package without knowing the Port of this application, then you can setup all DMZ ports to be open. After DMZ service being effective, firewall protection of this computer will be invalid, please notice the safety.

**NOTE:**

1. If you want to save all values after IP Router power off or restart, please click **“Save”** button which is in right-above to save current values.
2. If you use **“Internal Server”**, we recommend you to use **“Reserving IP”** function or use static IP address in client computer in order to manage it easily.

### 6.9.3 Port Forwarding

Click “NAT”->”Port Forwarding” as follows:

**Port Forwarding Setup**

Rule Name	<input type="text"/>	Protocol	TCP
External Port Range	<input type="text"/> - <input type="text"/>		
Internal PC IP Address	192 . 168 . 0 . <input type="text"/>		
Internal Port Range	<input type="text"/> - <input type="text"/>		
The connected PC's IP address is 192.168.0.2			
		Add	Modify

Rule Name	Proto	External Port Range	Internal PC IP	Internal Port Range	Del

#### Function:

By the Port Range which user has setup, “**Port Forwarding**” will be defined as Service Port. All requests to this port will be transferred to the computer which appointed with “**Internal PC IP address**”.

#### Setup Method:

Input port transfer details which you want to setup in “**Rule Name**”. Choose “**Protocol**” and “**External Port Range**” which you want to setup. Then setup “**Internal PC IP Address**” and Port Transfer Range. Click “**Add**” to apply current configuration. If you want to delete rule, then choose the rule which you want to delete, click “**Delete**”.

- **Rule Name:** Port transfer details need to be added.
- **Protocol:** Port transfer protocol. There are 2 choices: **TCP** and **UDP**.

- **External Port Range:** Port Range which is open to outside.
- **Internal PC IP Address:** IP address of the computer to which IP Router will transfer data.
- **Internal Port Range:** Internal PC Port Range.

**Note:**

- 1.If you want to save all values after IP Router power off or restart, please click “Save” button which is in right-above to save current values.
- 2.If you use “Port Forwarding”, we recommend you to use “Reserving IP” function or use static IP address in client computer in order to manage it easily.

## 6.9.4 Port Trigger

Click “NAT”->”Port Trigger” as follows:

**Port Trigger Setup**

Rule Name	<input type="text"/>		
Port Trigger	Protocol	TCP ▼	
	Port Range	<input type="text"/> - <input type="text"/>	
Port Forward	Protocol	TCP ▼	
	Port Range	<input type="text"/>	
<input type="button" value="Add"/>			

Rule Name	Trigger Condition	Forward Condition	<input type="button" value="Del"/>
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## Function:

If application program is connected form forward ports. All in trigger ports will be opened to prepare for connection.

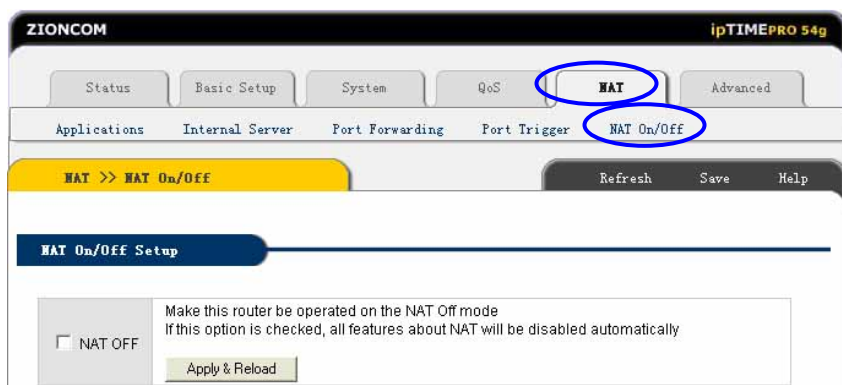
## Setup Method:

Key in the description which you setup the function on the trigger port, Setup the protocol and range of the trigger port, then setup the protocol and range of the forward port, Click “**Add**” Button and add the rule, If want to delete the current rule, Please select the rule which you want to delete and click “**Del**” button.

- **Rule Name:** The description of adding the trigger port.
- **Port Trigger:** Setup the trigger port.
  - ✧ **Protocol:** Select the trigger port's protocol (TCP / UDP)
  - ✧ **Port Range:** Trigger port's range.
- **Port Forward:** Setup the forward port
  - ✧ **Protocol:** Select the forward port's protocol (TCP / UDP)
  - ✧ **Port Range:** Forward port's range.

### 6.9.5 NAT ON/OFF

Click “**NAT**” -> “**NAT ON/OFF**” , as follows:



Make this router be operated on the NAT Off mode, If this option is checked, all features about NAT will be disabled automatically

## 6.10 Advanced Setup

### 6.10.1 Firewall

Click “Advanced”->”Firewall” as follows:

**Blocking DoS**

☒ SYN Flooding
 ☒ Smurf
 ☒ IP source routing
 ☒ IP Spoofing

☐ Blocking ICMP(ping) from internet  
☐ Blocking ICMP(ping) from LAN to internet

Apply

**Connection Filtering**

Direction	LAN -> WAN					
Source HW address	<input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> <input type="button" value="Search MAC address"/>					
Source IP Address	<input checked="" type="radio"/> <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>		Net Mask		<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	
Destination IP Address	<input checked="" type="radio"/> <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>		Net Mask		<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	
Protocol	any		Destination Port		<input type="text"/> ~ <input type="text"/>	
Accept/Drop	Accept					
Add						

Direction	Source Address	Destination IP Address	Protocol	Dest. Port	A/D	Del

#### Function:

- **Blocking Dos:** Blocking list from all attack, all default value of the options mentioned above is **ON**.

- **Blocking ICMP (ping) from Internet:** In order to setup Ping package from Internet to which IP Router has no response. It is for the protection from shock wave attack and other hacker detects.
- **Blocking ICMP (ping) from LAN to Internet:** In order to setup Ping package from LAN to which IP Router has no response. It is for the protection from shock wave attack.
- **Connection Filtering:** By setting up IP address Filter, data package from source IP address to destination address can be accepted or dropped.

### Setup Method:

1. Choose Dos attack from which needed protected, then click **“Apply”** button to effect current configuration. (Note: Current all options' default value is **ON**)
2. Setup relative parameter of connection filter. Click **Add** to effect current configuration. If you want to delete current rule, then choose the rule and click **“Delete”** button.
  - **Direction:** Setup the orientation of connection filter. There are two options: **“WAN”->“LAN”** and **“LAN”->“WAN”**.
  - **Source IP Address:** IP Router address of the computer which sends the data.
  - **Net Mask:** Subnet Mask of the computer which sends the data. Such as 255.255.255.0 will be 24.
  - **Destination IP Address:** IP Router address of the computer which receives the data.
  - **Net Mask:** Subnet Mask of the computer which receives the data. Such as 255.255.255.0 will be 24.
  - **Protocol:** Protocol support. There are four options: **Any**、**TCP**、**UDP** and **ICMP**, **Any** refers to all protocols.
  - **Destination Port:** Protocol port of destination computer. If **any**, then it cannot be setup.

- **Accept/Drop:** Setup “**Connection Filtering**” to accept or drop data package.

**Note:**

1. If you want to save all values after IP Router power off or restart, please click “Save” button which is in right-above to save current values.
2. If you use “Connection Filter” , we recommend you to use “Reserving IP” function or use static IP address in client computer in order to manage it easily.

## 6.10.2 DDNS

Click “Advanced”->”DDNS” as follows:

**ZIONCOM** ipTIMEPRO 54g

[Status](#)
[Basic Setup](#)
[System](#)
[QoS](#)
[NAT](#)
[Advanced](#)

[Firewall](#)
[DDNS](#)
[WOL](#)
[URL Filter](#)
[Remote Mgmt](#)
[Scheduler](#)
[VPN Setup](#)

**Advanced >> DDNS** [Refresh](#) [Save](#) [Help](#)

**DDNS Status**

DynDNS Client Operation: Stopped

\* Sign up [www.dyndns.org](http://www.dyndns.org) first (Free)

**DDNS Setup**

DynDNS Operation: Start

User ID:

Password:

[Apply](#)

**Hostname Registration**

Host Name:  [Add](#)

Host Name	Connection State	Del
-----------	------------------	-----

With Internet connections ways such as ADSL or Cable Modem, normally ISP



will allocate a dynamic IP address. **Dynamic domain name service** is a method of keeping a domain name linked to dynamic IP address gets from ISP. But dynamic domain name service depends on dynamic domain name service system. This function can allow you to use registered dynamic domain name service no matter how IP address changes.

Before use DDNS, an account provided by DDNS provider is needed.

Choose Dynamic DNS to be **Stat**, input valid "**User ID**" and "**Password**" that got from DDNS provider. Fill your registered domain name in "**Host Name**". Click "**Apply**" button to effect current configuration.

- **DDNS Status:** Display current DDNS status. "**Started**" or "**Stopped**".
- **DynDNS Operation:** DDNS "**Start/Stop**".
- **User ID:** The valid ID which you get from DDNS provider.
- **Password:** The valid password which you get from DDNS provider.
- **Host Name:** The valid domain name which you get from DDNS provider.。

### 6.10.3 WOL

Click “Advanced ”->”WOL”:

**ZIONCOM** **ipTIMEPRO 54g**

Status Basic Setup System QoS NAT **Advanced**

Firewall DDNS **WOL** URL Filter Remote Mgmt Scheduler VPN Setup

**Advanced >> WOL** Refresh Save Help

**WOL PC Registration**

PC Name

Physical Address Auto 00 -A0 -B0 -13 -F5 -10 Search MAC address

Add

PC Name	Physical Address	Wake Up	Del
a	00-A0-B0-13-F5-10	<span>Wake-up PC</span>	<span>Del</span>

#### Function:

This function allows the wake-up signal from LAN or remote equipment to connect to IP Router's Internal network, and supports network wake-up computers.

#### Setup Method:

1. If you want to send network wake-up signal to special client computer, please input the computer's name and LAN Card's MAC address. Then click “**Add**” button to add new rule.
2. After setup, click “**Wake-up PC**” button to send network waken-up signal to the computer which you want to wake up.
3. If you want to delete current rule, please choose rule then click “**Delete**” button.

## 6.10.4 URL Filter

Click “Advanced ”->”URL Filter” as follows:

**URL Filtering Setup**

Status: Stopped  
Operation:

**Filtering Rule**

IP Address: ☐ 192 . 168 . 0 .  - 192 . 168 . 0 .  ☐ ALL IP

Physical: ☐ 00 - 00 - 00 - 00 - 00 - 00

Input string:

Filtering Address	Filtering Keyword	Del
all IP addresses	sex xxx	<input type="button" value="Del"/>

### Function:

In order to control the web stations which can be accessed by the computers in LAN, you can use “URL Filter” function by PC’s IP or MAC address to appoint the web stations which can be allowed to access or not.

### Setup Method:

1. Click “start” button to start URL Filter function.
2. Input the IP address or MAC address which you want o filter in “IP Address”. Input the web station address which you want to filter in “Input String”. For example, if you want to forbid users to access “www.xxx.com”, you may input

**“www.xxx.com” in “Input String”.**

3. Click **“Add”** button to effect current configuration.
4. If you want to delete current rule, please click **“Delete”** button follow with the rule.
  - **Status:** URL filter current status. **“Started ”** or **“Stoped”**.
  - **Operation:** URL setup **“Start”** and **“Stop”** switch. Click **“Start”** button to start **“URL Filter”**, click **“Stop”** button to forbid **“URL Filter”**.
  - **IP Address:** Setup all computers which you want to limit. Include IP address and MAC address limit. Choose **“All IP”** to limit all computers in LAN; when choose MAC address, the default MAC address is the MAC address of the IP Router which you are accessing.
  - **Input String:** The web station URL or keyword which you want to limit the access.
    - ✧ By inputting **www.xxx.com** to limit users to access **www.xxx.com**
    - ✧ By inputting web sites' keywords, such as **sex xxx** (between is Blank) to forbid users to access **www.sex.com** and **www.xxx.com**.



**Note:**

1. If you want to save all values after IP Router power off or restart, please click **“save”** button which is in right-above to save current values.
2. If you use **“URL Filter”**, we recommend you to use **“Reserving IP”** function or use static IP address in client computer in order to manage it easily.

### 6.10.5 Remote Management

Click **“Advanced”->“Remote Mgmt”** as follows:

The screenshot shows the ZIONCOM ipTIMEPRO 54g web interface. The top navigation bar includes tabs for Status, Basic Setup, System, QoS, NAT, and Advanced (which is selected and circled in blue). Below this, a secondary navigation bar shows Firewall, DDNS, WOL, URL Filter, Remote Mgmt (circled in blue), Scheduler, and VPN Setup. A yellow banner reads 'Advanced >> Remote Mgmt'. On the right, there are buttons for Refresh, Save, and Help. The main content area is titled 'Remote Mgmt Setup' and contains a table with the following data:

Status	Stopped
Operation	Start ▼
Management Port #	0

Below the table is an 'Apply' button.

This page is to setup IP Router's remote management and WEB management ports. After start Remote Management, users can remote manage the IP Router by “**http://WAN port IP address: Your setup Port (between is colon)**”; If you want to start remote management, please setup “**Management port**” then click “**Apply**”.

- **Status:** Display the status and management Port number of remote management setup.。
- **Operation:** IP Router remote management **Start/Stop** switch.
- **Management Port:** Remote WEB management port number.

## 6.10.6 Scheduler

Click “Advanced”->”Scheduler” as follows:

**ZIONCOM ipTIMEPRO 54g**

Navigation: Status | Basic Setup | System | QoS | NAT | **Advanced** | Firewall | DDNS | WOL | URL Filter | Remote Mgmt. | **Scheduler** | VPN Setup

Advanced >> Scheduler [Refresh] [Save] [Help]

### Schedule Setup

Days To Block	<input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat							<input type="checkbox"/> Everyday	
Time To Block	00:00 ~ 00:00 (24 Hour)							<input type="checkbox"/> ALL Day	
Address To Block	IP	192 . 168 . 0 . [ ] - 192 . 168 . [ ]							<input type="checkbox"/> ALL IP
	Netmask	[ ] . [ ] . [ ] . [ ] / [ ]							
	Physical	[ ] - [ ] - [ ] - [ ] - [ ] - [ ]							<input type="text"/> Search MAC address

[Add]

Days To Block	Time Of Day To Block	Address To Block	Del
Sun Mon Tue Wed Thu Fri Sat	00:00 ~ 24:00	ALL IP	<input type="checkbox"/>

### Function:

This function can limit Internet access time of client computers in LAN. Then client computers in LAN can not access Internet in special time, but in other time the access can be allowed.

### Setup Method:

1. Setup the days which you want to limit or “**Everyday**”.
2. Choose limited time period or “**All Day**”.
3. Input the IP or MAC address of the computer which you want to limit or “**All IP**”.
4. Click “**Add**” button to effect current configuration.
5. If you want to delete current rule, please click “**Delete**” button follows with the rules.

- **Days To Block:** The days you want to limit. From **“Monday”** to **“Sunday”** or **“Everyday”**.
- **Time Of Day To Block:** The time you want to limit. **“24 Hours”** or **“All Day”**.
- **Address To Block:** The computers you want to limit. **“IP /Mask”** or **“Physical”**, or **“All IP”**.



**Note:**

1. If you want to save all values after IP Router power off or restart, please click **“save”** button which is in right-above to save current values.
2. If you use **“Scheduler”**, we recommend you to use **“Reserving IP”** function or use static IP address in client computer in order to manage it easily.

### **6.10.7 VPN Setup**

Click **“Advanced”->“VPN Setup”** as follows:

**VPN (PPTP) Setup**

VPN Server Status: Started : MPPE encryption

Encryption(MPPE): ON

Operation: Start

Apply

**VPN (PPTP) Account**

VPN Account:

VPN Password:

Assign IP Address: 192 . 168 . 0 .

Add

VPN Account	Assign IP Address	Connection State	Disconnection	Del
zion	192.168.0.3	Disconnected	Disconn...	<input type="checkbox"/>

**Function:**

This wireless router VPN server, allow 5 user to get in at same time.

**Setup Method:**

- **VPN (PPTP) setup:** Check Apply button to open VPN server
- **VPN (PPTP) account:** Type in VPN client Account and Password, also enter account IP address then check add button

If want to delete current account, check the account and check delete button to delete it.

**Note:**

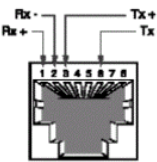
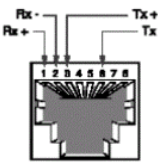
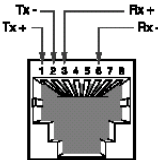
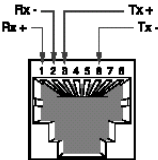
If you want to save all values after IP Router power off or restart, please click “save” button which is in right-above to save current values.



# 1 Appendix A UTP Cable specification

Twisted pair Category-5 straight-through cable

Twisted pair Category-5 Cross over cable



Pin No.		Pin No.
1	↔	1
2	↔	2
3	↔	3
4	---	4
5	---	5
6	↔	6
7	---	7
8	---	8

Straight-through Cable

Pin No.		Pin No.
1	↗	2
2	↖	1
3	↗	6
4	---	4
5	---	5
6	↖	3
7	---	7
8	---	8

Cross over Cable