

# **DG-HR1400**

## 150Mbps Wireless Broadband Home Router

# **User Manual**

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As our products undergo continuous development the specifications are subject to change without prior notice



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## Safety

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





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# 1. Product Introduction

## 1-1 Introduction and Safety Information

Thank you for purchasing DG-HR1400 150Mbps 802.11n Wireless Broadband Home Router! DG-HR1400 is the best choice for Small office / Home office users, all computers and network devices can share a single xDSL / cable modem internet connection at high speed. Easy install procedures allow computer users to setup a network environment in very short time - within minutes, even inexperienced users. When the number of your computers and network-enabled devices grow, you can also expand the number of network slots by simply connecting a hub or switch, to extend the scope of your network.

All computers and IEEE 802.11b/g/n wireless-enabled network devices (including PDA, cellular phone, game console and more) can connect to this wireless router without additional cabling. With a compatible wireless card installed in your PC, you can transfer files up to 150Mbps (transfer data rate).

#### Other features of this router include:

- High Internet Access throughput.
- Wireless speed up to 150Mbps.
- Allows multiple users to share a single Internet line.
- Shares a single Cable or xDSL internet connection.
- Access private LAN servers from the internet.
- Four wired LAN ports (10/100M) and one WAN port (10/100M).
- Works with IEEE 802.11b/g/n wireless LAN devices.
- Supports DHCP (Server/Client) for easy IP-address setup.
- Supports multiple wireless modes like: AP, Client, Wireless Bridge and Universal Repeater.
- Advanced network and security features like: Special Applications, QoS, DMZ, Virtual Servers, Access Control, Firewall.
- Allows you to monitor the router's status like: DHCP Client Log, System Log, Security Log and Device/Connection Status.
- Easy to use Web-based GUI for network configuration and management purposes.
- Remote management function allows configuration and upgrades from a remote computer (over the Internet).
- Provides Auto MDI / MDI-X function for all wired Ethernet ports.

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## 1-2 Safety Information

In order to keep the safety of users and your properties, please follow the safety instructions as mentioned below:

- 1. This router is designed for indoor use only; **DO NOT** place this router outdoor.
- 2. **DO NOT** place this router close to a hot or humid area, like kitchen or bathroom. Also, do not leave this router in the car during summer.
- 3. DO NOT pull any connected cable with force; disconnect it from the router first.
- 4. If you want to place this Router at a height or mount on the wall, please make sure it is firmly secured. Falling from a height would damage the router and its accessories and warranty will be void.
- 5. Accessories of this router, like antenna and power supply, are dangerous to small children. **KEEP THIS ROUTER OUT OF REACH OF CHILDREN**.
- 6. The Router will get heated up when used for long time (This is normal and is not a malfunction). **DO NOT** put this Access Point on paper, cloth, or other flammable materials.
- 7. There's no user-serviceable part inside the router. If you find that the router is not working properly, please contact your dealer of purchase and ask for help. **DO NOT** disassemble the router, warranty will be void.
- 8. If the router falls into water when it's powered, **DO NOT** use your hands to pick it up. Switch the electrical power off before you do anything, or contact an experienced electrical technician for help.
- 9. If you smell something strange, or even see some smoke coming out from the router or power supply, remove the power supply or switch the electrical power off immediately, and call the dealer of purchase for help.





## 1-3 System Requirements

- Notebook or desktop computer with network adapter. (wired/wireless)
- Internet connection, provided by xDSL or cable modem with a RJ-45 Ethernet port.
- Windows 98/ME/2000/XP/Vista
- Web browser (Microsoft Internet Explorer 4.0 or above, Netscape Navigator 4.7 or above, Opera web browser, or Safari web browser).
- An available AC power socket (100 240V, 50/60Hz)

## 1-4 Package Contents

Before you start using this router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

- DG-HR1400 Wireless Broadband Home Router
- Power adapter (5V DC, 1A)
- Rubber feet (4 Nos.)
- Quick Installation Guide
- Installation Guide CD (includes User Manual, QIG &Utility)
- Patch Cord (1 No.)



## 2 Get Familiar with your new wireless broadband router

### 2-1 Front Panel



LED Name	LED Status	Indication	
Power (PWR)	On	Router is switched on and correctly powered.	
	On	WAN port is connected.	
WAN	Off	WAN port is not connected.	
	Blinking	WAN activity (transferring or receiving data).	
	On	LAN port is connected.	
LAN(1-4)	Off	LAN port is not connected.	
	Blinking	LAN activity (transferring or receiving data).	





	On	Wireless network is switched on.	
WLAN	Off	Wireless network is switched off.	
	Blinking	Wireless LAN activity (transferring or receiving data).	
	On	A wireless device has been successfully added to the network by WPS function.	
WPS	Off	WPS process is not initiated.	
	Blinking	A wireless device is connecting to the network by WPS function.	



## 2-2 Back Panel



Interfaces	Description
Antenna	This antenna is a 5dBi dipole antenna.
Power on/off	Press this button to power on/off the router.
button	
Dowor	The Power socket is where you will connect the power adapter.
rowei	Please use the power adapter provided with this Wireless Router.
LAN (1 – 4)	Local Area Network (LAN) ports 1 to 4.
	The WPS/WIFI button has two functions.
WPS/WIFI	WPS: Press this button for more than 5 seconds to initiate WPS.
	WIFI: Press this button for less than 5 seconds to enable WLAN.
	Reset the router to factory default settings (clear all settings).
Reset	Press this button and hold for 5 seconds to restore all settings to
	factory defaults.
WAN	Wide Area Network (WAN / Internet) port.

🖀 1800-209-3444 (Toll Free)



## 2-3 Hardware Installation

Please follow the below mentioned instructions to build the network connection between your new WIRELESS router and your computers network devices:

1. Connect your xDSL / cable modem to the WAN port of the router by an Ethernet cable.



2. Connect all your computers, network devices (switch / hub) to the LAN port of the router.





3. Connect the power adapter (5V DC / 1A) to the wall socket, and then connect it to the **'Power'** socket of the router.



4. Please check all LEDs on the front panel. Power LED 'PWR' should be steadily ON, WAN and LAN LEDs should be ON. Check if the computer/network device connected to the respective port of the router is powered ON and correctly connected. If power LED 'PWR' is not ON, or any LED you expected is not ON, please recheck the cabling.



## 2-4 Software Installation

• Insert the Setup CD into your CD-ROM drive of notebook/desktop computer.



• Explore the CD and execute the "AutoRun.exe" file. Below given screen will appear. Click 'Start' to Continue.





• Connect one end of a network cable to the WAN port of the router and the other end to the DSL/Cable modem. Click 'Next' to continue.

AutoRun V1.1	
JIGISOL	www.digisol.com
Connect the modem to the r	outer
Connect one end of a network cable to the WAN port to the DSL/Cable modern. Modern Groece Control of the USAN port Broadband Router WAN	of the router and the other end Cable / DSL Jack
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444

• Connect one end of the provided network cable to one of the LAN ports (1~4) of the router and the other end to your computer. Click '**Next**' to continue with the installation.





• Power on the Router. It will take approximately 30 seconds for the router to boot up completely. Click 'Next' to continue with the installation.

AutoRun V1.1	
JIGISOL	www.digisol.com
Power ON the router	
Plug the included power adapter to the power strip. Electrical Outlet LAN Computer	Modem Cable / DSL
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444

• Ensure the normal indication of all LED's on the router. If not, try the above steps again else click '**Next**' to continue.

LED Description	ISC		www.digisol.co
LED Name	Colour	Status	Description
0.014/50	COLEMA	ON	Device is Powered ON
POWER	GREEN	OFF	Device is Powered OFF
		ON	Link is Established
WAN	GREEN	OFF	Link is not established or cable Unplugged
		BLINKING	Data is transmitting
		ON	Cable is connected and link is up
LAN (1~4)	GREEN	OFF	Cable is Disconnected OR link is down
		BLINKING	Data is transmitting
		ON	Wireless is ON
WLAN	GREEN	OFF	Wireless is disabled
		BLINKING	Data is transmitting
MIDE	CREEN	OFF	WPS is Off or WPS process not initiated.
WPS	GREEN	BLINKING	WPS process on Router is initiated
Model Number : DG-HR1400 150Mbps Wireless Broadband Router			



• Enter the Router's password to log in to the Router. The default password is "1234". It is recommended to change the router's password to protect it from being accessed by other users. If you do not wish to change the current password, you can leave "New Password" and "Confirm New Password" fields blank. Click 'Enter' to continue.

Password Dialog			
Enter the Router's password to log in to the Router. The default password is "1234". It is recommended to change the router's password to protect it from being accessed by other users. If you do not wish to change the current password, you can leave "New Password" and "Confirm New Password" fields blank. Click 'Log in' to continue.			
Current Password			
New Password			
Confirm New Password			
Enter			

• Please select the internet connection type. Click 'Next' to continue.

AutoRun V1.1	ce	,	vww.digisol.com
Please select the internet	connection	type	
WAN Mode	WAN Mode		
	· FFFOL		
	C DHCP		
	C Static IP		
Model Number : DG-HR1400 150Mbps Wireless Broadband Route	r 📘	Back	ext
		Toll F	ree - 1800 209 3444

NOTE: The steps mentioned till here are the common steps to be followed for all the three modes. Following steps below describe how to configure the respective modes.

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#### **PPPoE** (DSL users)

• Choose PPPoE. (Point to Point Protocol over Ethernet) If your ISP uses a PPPoE connection you will be provided with a username and password. This option is typically used for DSL services.

AutoRun V1.1			
Digi	SOL		www.digisol.com
Configu	re PPPoE		
Please e has prov	nter the username and j rided to you	password that your	ISP
Use	r ID PPP_User		
Pas	sword		
Model Number : D 150Mbps Wireless	G-HR1400 Broadband Router	Back	Next Exit
		Tol	l Free - 1800 209 3444

• Once the user name and password is entered click on 'Next', the screen shown below will appear. Click on 'Next'.

	www.digisol.com
Running Status FFFaB If you get an error me reconfigure the settin the configuration.	mode some OK. essage then click "Back" to ngs. Else click "Finish" to complete
WAN Link Type	PPPoE
WAN IP	Auto
Default Gateway	Auto
Primary DNS	Auto
Secondary DNS	Auto
Model Number : DG-HR1400	. Back Next Finish.
150Mbps Wireless Broadband Router	Toll Free - 1800 209 3444



• Enter the 'SSID' and click on 'Next'.

AutoRun V1.1	
IGISOL	www.digisol.com
Wireless Configuration	
Configure a name (SSID) for can always identify your wir SSID is "Digisol"	your wireless network, so you eless network. The default
Wireless Name (SSID):	DIGISOL [Example: MyNetwork, WIFI123]
150Mbps Wireless Broadband Router	Next
	Toll Free - 1800 209 3444

• Configure the wireless security. Enter the security mode i.e. either 'None' or 'WPA2 Mixed' and click on 'Next'.

AutoRun V1.1	
JIGISOL	www.digisol.com
Configure Wireless Security	
Wireless security helps to pr hackers and malicious users key and enter 8 to 63 charac key in the given field below	otect your wireless network from . Please enable the WPA Pre-Shared :ters (alphanumeric, case sensitive)
Security Mode:	WPA2 Mixed
Pre-Shared Key:	digisoltest
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444



• The screen as shown below will appear. Click on 'Finish'.



• Lastly, the router will reboot as shown below.





### DHCP (Cable Modem users)

• Select DHCP Client to obtain IP Address information automatically from your ISP. Click on 'Next'.

AutoRun V1.1		
IGISOL		www.digisol.com
Configure WAN Interfa	ce	
Please select the internet	connection type	
WAN Mode	WAN Mode C PPPoE C DHCP C Static IP	
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back	Next Exit
		Toll Free - 1800 209 3444

• The screen shown below will appear. Click on 'Next'.

	www.digisol.com
Configure WAN	
Click "Next" if DHCP is selected if Static IP is selected below a	ed or enter Static IP Address ind then click "Next" to proceed.
© DHCP	C Static IP
Subnet Mask	255.0.0
Default Gateway Primary DNS	11.22.33.65
Secondary DNS	11.22.33.77
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444

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• Below mentioned screen will appear. Click on 'Next'.

AutoRun V1.1				
	ISOL		wi	ww.digisol.com
Rı	Inning Status	mode setup OK		
	If you get an error m reconfigure the setti the configuration.	essage then c ngs. Else click	lick "Back" to "Finish" to com	plete
	WAN Link Type	DHCP		
	WAN IP	Auto		
	Default Gateway	Auto		
	Primary DNS	Auto		
	Secondary DNS	Auto		
Model Numb 150Mbps Wir	er : DG-HR1400 eless Broadband Route	r 📕	Back Next	Finish
			Toll Fre	ee - 1800 209 3444

• Enter the 'SSID' and click on 'Next'.

AutoRun V1.1	
JIGISOL	www.digisol.com
Wireless Configuration	
Configure a name (SSID) for can always identify your wir SSID is "Digisol"	your wireless network, so you eless network. The default
Wireless Name (SSID):	DIGISOL [Example: MyNetwork, WIFI123]
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Next Exit
	Toll Free - 1800 209 3444



• Configure the wireless security. Enter the security mode i.e. either 'None' or 'WPA2 Mixed' and click on 'Next'.

AutoRun V1.1	
JIGISOL	www.digisol.com
Configure Wireless Security	
Wireless security helps to pr hackers and malicious users key and enter 8 to 63 charac key in the given field below	otect your wireless network from . Please enable the WPA Pre-Shared ters (alphanumeric, case sensitive)
Security Mode:	WPA2 Mixed 🔍
Pre-Shared Key:	digisoltest
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444

• Following screen will appear. Click on 'Finish'.





• Lastly, the router will reboot as shown below.

AutoRun V1.1		
IGISO	L	www.digisol.com
Summarizing Wireless Con	figuration	
Following is the summary	of your Digisol router's wire	less configuration:
Internet Connection Type: Wireless Name (SSID): Wireless Security: Security Key: Click 'Finish' to save your Once the router reboots, y router wirelessly.	Wireless setup (K, All setup finished. Rebooting now	the router. ents to the
Model Number : DG-HR1400 150Mbps Wireless Broadband I	Router Back	Finish
		Toll Free - 1800 209 3444

#### Static IP (Cable Modem users)

• Select Static IP Address if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address and DNS address provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format. Click on '**Next**'.

🔳 AutoF	Run V1.1				
	IGISOL			www.dig	gisol.com
	Configure WAN				
	Click "Next" if DHCP is selected if Static IP is selected below a	ed or enter S and then clic	itatic IP Address k "Next" to proc	eed.	
	C DHCP	Static IP			
	IP address	11.22.33.44	-		
	Subnet Mask	255.0.0.0	-		
	Default Gateway	11.22.33.55	-		
	Primary DNS	11.22.33.66	-		
	Secondary DNS	11.22.33.77	-		
Mode 150M	el Number : DG-HR1400 bps Wireless Broadband Router	•	Back	Next	Exit
			Тс	oll Free - 180	0 209 3444
		23			





• The screen shown below will appear. Click on 'Next'.

AutoRun V1.1			
DIC	ISOL		www.digisol.com
Rui	nning Status	P mode setup OK.	
	If you get an error me reconfigure the settin the configuration.	essage then click "B Igs. Else click "Finis	ack" to h" to complete
	WAN Link Type	Static IP	
	WAN IP	121.242.57.56	
	Default Gateway	121.242.57.33	
	Primary DNS	4222	
	Secondary DNS	4221	
Model Numbe 150Mbps Wire	r : DG-HR1400 less Broadband Router	Back	Next Finish
			Toll Free - 1800 209 3444

• Enter the 'SSID' and click on 'Next'.





• Configure the wireless security. Enter the security mode i.e. either 'None' or 'WPA2 Mixed' and click on 'Next'.

AutoRun V1.1	
IGISOL	www.digisol.com
Configure Wireless Security	
Wireless security helps to pr hackers and malicious users. key and enter 8 to 63 charac key in the given field below	otect your wireless network from Please enable the WPA Pre-Shared ters (alphanumeric, case sensitive)
Security Mode:	WPA2 Mixed
Pre-Shared Key:	digisoltest
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444

• You can view the information about the wireless configuration in the next screen. Click '**Finish**' to save your current settings and reboot the router.

AutoRun V1.1	
IGISOL	www.digisol.com
Summarizing Wireless Configuration	
Following is the summary of your Dig	sol router's wireless configuration:
Internet Connection Type: Wireless Name (SSID): Wireless Security: Security Key:	
Click 'Finish' to save your current sett Once the router reboots, you can con router wirelessly.	ings and reboot the router. nect wireless clients to the
Model Number : DG-HR1400 150Mbps Wireless Broadband Router	Back
	Toll Free - 1800 209 3444
2:	5





## 3. Quick Install Guide

### 3-1 Connecting to wireless broadband router by web browser

After the network connection is setup, next step is to setup the router with proper network parameters, so it can work properly in your network environment.

Please use the web browser to configure the router. A computer with wired Ethernet connection to the router is required for this first-time configuration.

Before you start to configure the router (**default IP 192.168.2.1**), please configure the IP address of the computer in the same network class as that of the router.

Set the Network Configurations:

1. On your computer desktop right click "My Network Places" and select "Properties".



2. Right click "local Area Network Connection" and select "Properties".

Disable
Status
Repair
Bridge Connections
Create Shortcut
Delete
Rename
Properties



3. Select "Internet Protocol (TCP/IP)" and click "Properties".

2 Properties		? 🛛
General Advanced		
Connect using:		
Broadcom NetLin	nk (TM) Gigabit Ether	Configure
This connection uses th	ne following items:	
<ul> <li>✓ ■ Client for Micro</li> <li>✓ ■ File and Printer</li> <li>✓ ■ QoS Packet S</li> <li>✓ ■ Internet Protocom</li> </ul>	osoft Networks r Sharing for Microso cheduler col (TCP/IP)	ft Networks
Install	Uninstall	Properties
Transmission Control wide area network pr across diverse interco	Protocol/Internet Protocol that provides onnected networks.	otocol. The default communication
Show icon in notifica	ation area when con connection has limite	nected ed or no connectivity
		OK Cancel

- 4. Select "Obtain an IP address automatically" or select "Use the following IP address".
  - A. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically". Click "OK".

automatically if your network supports ed to ask your network administrator for natically s:
s:
\$. 
automatically
er addresses:
1 2 2 Van 1







#### B. "Use the following IP address"

IP Address: 192.168.2.XXX (XXX is a number from 2~254) Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1 DNS Server: You need to input the DNS server address provided by your ISP.

Otherwise, you can use the Router's default gateway as the DNS proxy server. Click "**OK**" to save the configurations.



#### 3-2 Getting Started

Connecting the router's management interface by web browser:

After you assign an IP address to the computer, open the web browser, and type the IP address of the router in the address bar as 'http://192.168.2.1'.

The following message should be shown:

DIGI	SOĽ	
L	ogin	
	Username: Password: Login Reset	
	Technical Support: 1800 209 3444	

Please input user name and password in the field respectively, default user name is **'admin'**, and default password is **'1234'**, then press **'Login'** button, and you can see the web management interface of this router:

### IGISOL

DG-HR1400 User Manual

	ISC			DG-I	HR14	100		150M Broac	bps Wireless Iband Router
	Setup	Wir	eless	Advanced	t.	Maintenance	Status		Help
Device Info	Wireless Rou	ter Status							Helpful Hints
Active Client Table	This page shows	the current stat	tus and some basic	settinas of the	device.				This page displays a summary overview of
Statistics									your router status, including device firmware
IPV6	System								version, summary of your Internet configuration including
		Product	Name			DG-HR1400	)		ethernet status.
		Uptin	ne			0 days, 0:16	:0		More
		Date/1	ïme			Thu Jan 1 0:16:0	) 1970		
		Firmware	Version			1.00.02			
		Built D	ate			Dec 23 2013 11:	:10:46		
		Serial Nu	Imber			0017700000	02	_	
	LAN Configur	ation							
		hhA qī	ress			192,168,2	1	_	
		Subnet	Mask			255.255.255	- 5.0		
	DHCP Server			Enable					
		MAC Ad	dress			00:17:70:00:00	0:02		
	WLAN Config	uration							
		Wirele	955			Enabled			
	Mode AP								
	SSID DIGISOL								
		Encryp	tion			None			
		Enani	101 F COTO			D Enabled		_	
		Bioaucas	3310			Enabled			
		Repeater	s Status			Disconnecte	d		
	WAN Configu	ration							
								_	
	Interface	Protocol	IP Address	Gateway	DNS	Link Dev	Status		
	<b>WAN</b>	DHLP	0.0.0.0	0.0.0	0.0.0.0	LINK DOW	AUDHCH Client)		
				Refresh					
			Techni	ical support: 180	0 209 3444				

NOTE: If you can't see the web management interface, and you're being prompted to input user name and password again, it means you didn't input username and password correctly. Please retype user name and password again.

TIP: This page shows the current status and some basic settings of the device.



#### 3-3 Using Quick Setup

This router provides a 'Quick Setup' procedure, which will help you to complete all required settings you need to access the Internet in very short time. Please follow the instructions mentioned below to complete the '**Quick Setup**':

Please go to Quick Setup menu by clicking 'Setup' button.

DIG	ISOI	Π	DG-HR	1400		150N Broa	/lbps Wireless dband Router
	Setup	Wireless	Advanced	Maintenance	Status		Help
Device Info	Wireless Router	Status					Helpful Hints
Active Client Table	This page shows the	current status and some	basic settings of the device				This page displays a
Statistics			basic secangs of the defice				router status, including
IPV6	System						summary of your Internet
							configuration including ethernet status.
		Product Name		DG-HR140	10		
		Uptime		0 days, 0:1	6:0		More
		Date/Time		Thu Jan 1 0:16:	0 1970		
		Firmware Version		1.00.02			
		Built Date		Dec 23 2013 11	1:10:46		
		Serial Number		001770000	002		

And the following message will be displayed:

Quick Setup
The quick setup will tell you how to configure the basic network parameters. To continue, please click the "Next" button.
Manual Next

Click the "Next" button to continue.

Please follow the steps and complete the router configuration.



#### Step 1 Setup WAN Connection Type:

Below given 'WAN Connection Type' screen will appear.

Quick Setup - WAN Connection Type	
<ul> <li>The Quick Setup supports three popular types of connection. To make sure the connection type your ISP provides, please refer to the ISP.</li> <li>PPPOE - Usually for ADSL Modem and you will need a PPPOE username and password from your ISP.</li> <li>Dynamic IP - Usually for Cable Modem and the router will automatically obtain an IP address from the DHCP server.</li> <li>Static IP - This type of connection uses a permanent, fixed (static) IP address</li> </ul>	
that your ISP assigned.	
Back Next	

Please choose the broadband (Internet connection) type you're using in this page. There are three types of Internet connection: PPPoE, Dynamic IP and Static IP.

If you're not sure, please contact your Internet service provider. A wrong Internet connection type will cause connection problem, and you will not be able to connect to the internet.

If you want to go back to previous step, please press 'Back' button.

NOTE: Some service providers use 'DHCP' (Dynamic Host Configuration Protocol) to assign IP address to your router. In this case, you can choose 'Dynamic IP' as Internet connection type.



#### Setup procedure for 'PPPoE':

Choose PPPoE. (Point to Point Protocol over Ethernet) If your ISP uses a PPPoE connection it will provide you with a username and password. This option is typically used for DSL services. Below given screen will be displayed.

Enter the account use	name and pass	word provided b	y your ISP.	
User Name:				
Password:				
Confirm				
Password:				

Here is the description of every setup item:

Parameter	Description
User Name	Please input user name assigned by your Internet service provider here.
Password	Please input the password assigned by your Internet service provider here.
Confirm Password	Re-enter the password in this field for confirmation.

When you finish with all settings, press 'Next'; if you want to go back to previous menu, click 'Back'.

#### Setup procedure for 'Dynamic IP':

Select Dynamic IP to obtain IP Address information automatically from your ISP.

Usually Cable Modem and the router will automatically obtain an IP address from the DHCP server.



#### Setup procedure for 'Static IP':

Select Static IP Address if IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address and DNS address provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format. Below given screen will be displayed.

Enter the IP parame	ters provided by y	/our ISP.	
IP Address:	0.0.0.0		
Subnet Mask:	0.0.0		
Default Gateway:	0.0.0		
Primary DNS:	0.0.0.0	(Optional)	
Secondary DNS:	0.0.0.0	(Optional)	

Here is the description of every setup item:

Parameter	Description
IP address	Please input the IP address assigned by your service provider.
Subnet Mask	Please input the subnet mask assigned by your service provider
Default Gateway	Please input the default gateway assigned by your service
	provider.
Primary DNS	Please input the DNS IP address in dotted-decimal notation
	provided by your ISP.
Secondary DNS	Please input another DNS IP address in dotted-decimal notation
	provided by your ISP.

#### NOTE: You must use the addresses provided by your Internet service provider, wrong setting value will cause connection problem.

When you finish with all settings, press 'Next'; if you want to go back to previous menu, click 'Back'.



#### **Step 2 Setup Wireless:**

Below given 'Wireless' screen will appear.

Quick Setup - Wire	less	
You can configu step.	ire the wireless par	rameters and security settings of router on this
Mode:		AP
Disable the wire	eless radio.	
SSID:		DIGISOL
Channel:		6 💌
Mode:		2.4 GHz (B+G+N) 💙
Channel Width:	:	Auto 20/40M 💌
Wireless Securi	ty:	
It is recommend security, and se	ded strongly that y elect WPA-PSK/WP	ou choose one of following options to enable A2-PSK AES encryption.
$\odot$	Disable Security	
0	WPA-PSK/WPA2-	PSK AES
WPA/WPA2 -		(You can enter ASCII characters
Personal:	between 8 and 63	3 or Hexadecimal characters between 8 and 64.)
		Back Next

Here is the description of every setup item:

Parameter	Description	
Disable the wireless	The wireless radio of this Router can be enabled or disabled	
radio	to allow wireless stations access.	
SSID	This is the name of wireless network. Input the SSID name	
	that your wireless ISP has provided you with.	
Channel	This is the radio frequency used to transmit and receive the	
	wireless signal. The wireless devices in the same network	
	should follow the same setting. Select the channel here.	
Mode	Select the desired mode. The default setting is 2.4GHz	
	(B+G+N).	
Channel Width	Select any channel width from the pull-down list. The	
	default setting is Auto 20/40M, which can adjust the channel	
35		



	width for your clients automatically.
Wireless Security	If the access point enables wireless security, you have to
	follow the same settings in order to access the access point.

When you finish with all settings, press 'Next'; if you want to go back to previous menu, click 'Back'.

#### **Step 3 Finish the Quick Setup:**

Below given 'Finish' screen will appear.



You can click the "**Finish**" button to finish the Quick Setup; if you want to go back to previous menu, click '**Back**'.


## 4. Configuring the Router

This section will show each Web page's key functions and the configuration way. After your successful login, you will see the five main menus on the top of the Web-based utility. On the right, there are corresponding explanations and instructions.

## 4-1 Setup

Click '**Setup**' menu on the top of the web management interface, and the following message will be displayed on your web browser:



There are five submenus under the Setup menu: **Wizard, Local Network, Internet Setup, IPv6 and Mode Settings**. Click any of them, and you will be able to configure the corresponding function.

## 4-1-1 Wizard

If you are new to networking and have never configured a router before, click on Wizard and the router will guide you through few simple steps to get your network up and running.

Choose menu "Setup→Wizard", below given screen will be displayed.

For details please refer to 3.3 Using Ouick Setup on above.

IGISC	)Ľ	DG-HF	R1400	15 B	50Mbps Wireless roadband Router
Setup	Wireless	Advanced	Maintenance	Status	Help
Vizard		-			Helpful Hints
ocal Network					First time users are
nternet Setup	Quick Setup				recommended to run the Wizard. Click the Wizard
PV6	The set of set on set it.		- I and a section of the		page and you will be guided step by step
1ode Settings	parameters. To continu	ie, please click the "Next"	e basic network button.		through the process of setting up your
					connection.
			Manual Ne	xt	If you consider yourself a
					advanced user or have configured a router



## 4-1-2 Local Network

These are the settings of the LAN (Local Area Network) interface for the router.

Choose menu "Setup→Local Network", below given screen will be displayed.

DIG	ISOL	n	DG-HF	R1400	150 Bro	Mbps Wireless adband Router
	Setup	Wireless	Advanced	Maintenance	Status	НеІр
Wizard	LAN Interface Set	tup				Helpful Hints
Local Network Internet Setup IPV6 Mode Settings	This page is used to c addresss, subnet mask This page can be usec (1)Enable the DHCP S hosts on your LAN. Th access.	onfigure the LAN interfac c, etc i to config the DHCP moc erver if you are using this the device distributes numl	e of your Wireless Router. le:None or DHCP Server. device as a DHCP server. bers in the pool to hosts o	Here you may change the This page lists the IP addr on your network as they re	e setting for IP ess pools available to equest Internet	The IP address of your router is the same IP address you will use to access the web management interface of your router. If you already have a
	If you choose "None", (2)This page lists the network as they requ	then the router will do n fixed IP/MAC address on y est Internet access.	othing when the hosts re your LAN. The device dist	quest a IP address. ibutes the number configi	ured to hosts on your	DHCP server on your network or are using static IP addresses on all the devices on your network, select DHCP Mode None to disable this feature.
	LAN Interface Set IP Subi	Address: 192.168.2.1	5.0			If you have devices on your network that should always have fixed IP addresses, add a Static DHCP for each such device.
			Apply Changes			More
	DHCP Server Sett	ings				
	DH IP Po	CP Mode: DHCP Server ol Range: 192.168.2.2	• - 192.168.2.254	7		
	Max Le	ase Time: 120	minutes			
	Doma	ain Name: domain.nam	e			
	DNS	Server 1: 192.168.2.1				
	DNS	Server 2: Server 3:				
			Apply Changes U	ndo		
	DHCP Static IP C	onfiguration				
	IP	Address: 0.0.0.0				
	Mac	Address: 000000000	000 (ex. 00E086710502)			
		Add Updat	e Delete Select	ed Reset		
	DHCP Static IP Ta	able				
	Select	IP Ad	dress	MAC Add	ress	

This page is used to configure the LAN interface of your Wireless Router. Here you may change the setting for IP address, subnet mask, etc.

This page can be used to configure the DHCP mode: None or DHCP Server.

(1) Enable the DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request Internet access.

If you choose "**None**", then the router will do nothing when the hosts request an IP address.



(2) This page lists the fixed IP/MAC address on your LAN. The device distributes the number configured to hosts on your network as they request Internet access.

## LAN Interface Setup:

LAN Interface Setup	
IP Address: Subnet Mask:	192.168.2.1 255.255.255.0
	Apply Changes
	Apply Changes

Here is the description of every setup item:

Parameter	Description
IP address	Please input the IP address of this router.
Subnet Mask	Please input the subnet mask for this network.

## **DHCP Server Settings:**

DHCP Server Settings	
DHCP Mode:	DHCP Server
IP Pool Range:	192.168.2.2 - 192.168.2.254
Max Lease Time:	120 minutes
Domain Name:	domain.name
DNS Server 1:	192.168.2.1
DNS Server 2:	
DNS Server 3:	
	Apply Changes Undo

These settings are only available when '**DHCP Server**' in '**LAN IP**' section is '**Enabled**', and here is the description of every setup item.

Parameter	Description
DHCP Mode	Enable or Disable the DHCP Server.
IP Pool Range	These two IP values (from and to) define a range of IP addresses that the DHCP Server uses when assigning addresses to computers and devices on your Local Area Network. Any address that does not fall in this range are not managed by the DHCP Server; these could, therefore, be used for manually configured devices or devices that cannot use DHCP to obtain network address details automatically.



Max Lease Time	The amount of time that a computer may have an IP address
	before it is required to renew the lease. The lease functions, just
	as a lease on an apartment would. The initial lease designates
	the amount of time before the lease expires. If the tenant wishes
	to retain the address when the lease is expired then a new lease
	is established. If the lease expires and the address is no longer
	needed then another tenant may use the address.
Domain Name	Domain name for the DHCP server scope.
DNS Server	DNS Server address for the DHCP server scope.

## **DHCP Static IP Configuration:**

If you need to assign static IP for your computer or device on the local area network, configure static IP with the MAC address.

DHCP Static IP Configuration	n
IP Address:	0.0.0.0
Mac Address:	0000000000 (ex. 00E086710502)
A	Id Update Delete Selected Reset

Here is the description of every setup item:

Parameter	DescriptionThe IP address to be configured for your computer or device on the local area network. For example, 192.168.2.2.			
IP address				
Mac Address	After you enter MAC address and IP address pair, click this button to add the pair to static DHCP leases table.			

After you clicked 'Add', the MAC address and IP address mapping will be added to 'DHCP Static IP Table' section.

DHCP Static IP Table					
Select	IP Address	MAC Address			
0	192.168.2.2	00:E0:52:2F:B8:85			



## 4-1-3 Internet Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP client or PPPoE by clicking the item value of WAN Access type.

Choose menu "Setup→Internet Setup", below given screen will be displayed.

DIG	ISOI			DG-H	R140(	כ	150 Bro	Mbps Wireless adband Router
	Setup	Wirel	ess	Advanced	Maint	enance	Status	Help
Wizard	WAN Interface S	etup						Helpful Hints
Local Network Internet Setup	This page is used to c Here you may change	configure the p e the access m	parameters fo nethod to sta	or Internet network w tic IP, DHCP or PPPoB	hich connects t by click the ite	to the WAN p m value of W	oort of your Access Point. AN Access type.	When configuring the router to access the Internet, be sure to choose the correct Access Type from the
Mode Settings	WAN Interface							list below.
	WAN Act H Attain DNS Auto Set DNS DNS DNS DNS WAN Li	cess Type: [ ost Name: ] MTU Size: [ omatically: @ Manually: @ Server 1: [ Server 2: [ Server 3: ] nk Speed: [	DHCP Client  hostname 1500 Need to configural 0.0.0.0 0.0.0 Auto	repair the connection of tion changed.)	our PC if DNS			Please take care when entering your User name and password as these are case sensitive. The majority of connection issues are caused by incorrect User name or password < combinations. More
	MAC Clone De MAI MA	fault MAC ( C from PC ( AC manual (	0 ) ) 00:17:7C:00:	:00:03 Apply Changes R	eset)			

## Setup procedure for 'Static IP':

Interface	
WAN Access Type:	Static IP
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
MTU Size:	1500
DNS Server 1:	0.0.0.0
DNS Server 2:	0.0.0.0
DNS Server 3:	0.0.0.0
WAN Link Speed:	Auto



Here is the description of every setup item:

Parameter	Description
IP Address	Please input the IP address assigned by your service provider.
Subnet Mask	Please input the subnet mask assigned by your service provider
Default Gateway	Please input the IP address of the gateway provided by your
	service provider.
MTU Size	Please input the MTU value of your network connection here. If
	you don't know, you can use default value.
DNS Servers	Please input the IP address of DNS servers provided by your
1/2/3	service provider.

## Setup procedure for 'DHCP Client':

WAN Interface	
WAN Access Type:	DHCP Client
Host Name:	hostname
MTU Size:	1500
Attain DNS Automatically:	<ul> <li>(Need to repair the connection of your PC if DNS configuration changed.)</li> </ul>
Set DNS Manually:	0
DNS Server 1:	0.0.0.0
DNS Server 2:	0.0.0.0
DNS Server 3:	0.0.0.0
WAN Link Speed:	Auto

Parameter	Description				
Host Name	Please input the host name of your computer. This is				
	optional, and is only required if your service provider asks				
	you to do so.				
MTU Size	Please input the MTU value of your network connection				
	here. If you don't know, you can use default value.				
Attain DNS	If your ISP specifies a DNS server IP address for you,				
Automatically	click the checkbox.				
Set DNS Manually	Enter the DNS IP address manually provided by your ISP.				



## Setup procedure for 'PPPoE':

WAN Interface	
WAN Access Type:	PPPoE 💌
User Name:	
Password:	
Service Name:	(Optional. It should be consistent with the setting of PPPoE Server or empty.)
MTU Size:	1492
Connection Type:	Continuous connect disconnect
Attain DNS Automatically:	<ul> <li>(Need to repair the connection of your PC if DNS configuration changed.)</li> </ul>
Set DNS Manually:	0
DNS Server 1:	0.0.0.0
DNS Server 2:	0.0.0.0
DNS Server 3:	0.0.0.0
WAN Link Speed:	Auto

Parameter	Description					
User Name	Please input user name assigned by your Internet service provider here.					
Password	Please input the password assigned by your Internet service provider here.					
Service Name	Please give a name to this Internet service, this is optional.					
MTU Size	Please input the MTU value of your network connection here. If you don't know, you can use default value.					
Connection Type	Please select the connection type of Internet connection you wish to use.					
	<b>Continuous</b> – The connection will be kept always On. If the connection is interrupted, the router will re-connect automatically.					
	<b>Connect On-Demand</b> – Only connect when you want to surf the Internet. " <b>Idle Time Out</b> " is set to stop the connection when the network traffic is not sending or receiving after an idle time.					
	<b>Manual</b> – After you have selected this option, you will see the "Connect" button and "Disconnect" button, click "Connect" and the router will connect to the ISP. If you want to stop the connection, please click "Disconnect" button.					



Attain DNS	If your ISP specifies a DNS server IP address for you, click
Automatically	the checkbox.
Set DNS	Enter the DNS IP address manually provided by your ISP.
Manually	

## **MAC Clone:**

You can configure the MAC address of the WAN.

MAC Clone	
Default MAC MAC from PC MAC manual	<ul> <li>●</li> <li>●</li> <li>00:17:7C:00:00:03</li> </ul>
	Apply Changes Reset

#### 4-1-4 IPv6

In this section the IPv6 configuration can be done. The WAN and LAN parameters can be defined using this section.

	Setup	Wireless	Advanced	Maintenance	Status
Wizard	IPV6				
Local Network	Use this section to co	onfigure your IPv6 Connec	tion type. If you are upsu	re of your connection met	bod, please contact your
Internet Setup	Internet Service Prov	rider.			
IPV6	IPv6 Connection	Type			
Mode Settings	Choose the mode t	to be used by the route	r to the IDu6 Internet		
		to be used by the route	er to the iPvo internet.		
	My IPv6 Conn	ection is: Link-local only	×		
	Lan IPv6 Addres	s Settings			
	Use this section to co may need to adjust y	onfigure the internal netw our PC's network settings	ork setings of your router. to access the network ag	If you change the LAN IF jain.	v6 Address here, you
	LAN IPv6 Link-Local	Address: fe80::20b:2bff:	fe40:15a/64		
			Apply Changes Rese	et	



## Static IPv6

In Static IPv6 mode, user can set the IPv6 IP address of the WAN port.

	Setup	Wireless	Advanced	Maintenance	Status			
Wizard	IPV6	IPV6						
Local Network	Like this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your							
Internet Setup	Internet Service Prov	Internet Service Provider.						
IPV6	IPv6 Connection	IDu6 Copposition Tupo						
Mode Settings	Chapter the mode t	to be used by the route	, to the IDuc Internet					
		choose the mode to be used by the router to the IPv6 Internet.						
	My IPv6 Conne	My IPv6 Connection is: Static IPv6 V						
	Wan IPv6 Addres	ss Settings						
	Enter the IPv6 add	ress information provid	ed by your Internet Se	rvice Provider (ISP).				
	IPv6 /	Address:						
	Subnet Prefix	Length: 64	]					
	Default G	ateway:						
	IPv6 DNS Setting	gs						
	Obtain DNS server a	Obtain DNS server address automatically or enter a specific DNS server address.						
	Primary DNS /	Primary DNS Address:						
	Secondary DNS Address:							
	Lan IPv6 Addres	Lan IPv6 Address Settings						
	Use this section to co may need to adjust y	Use this section to configure the internal network setings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC's network settings to access the network again.						
	LAN IPv6	Address:	1	64				
	LAN IPv6 Link-Local	Address: fe80::20b:2bff:	fe40:15a/64					
	Address Autocor	nfiguration Settings						
	Use this section to se	Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.						
	Enable Autoconfig	Enable Autoconfiguration: 🔽						
	Autoconfiguration Type: SLAAC + Stateless DHCPv6 🔽							
	Router Advertisement 30 (minutes)							
	Apply Changes Reset							

Parameter	Description
IPv6 address( WAN)	Enter the IPv6 address for WAN port.
Subnet Prefix Length	Enter the Subnet Prefix length here.
Default Gateway	Enter the IPv6 address of the default gateway.
Primary DNS address	Enter the preferred IPv6 DNS address.
Secondary DNS address	Enter the secondary IPv6 DNS address.
LAN IPv6 Address	Enter the Static LAN IPv6 address of the router.
Enable Autoconfiguration	Enable or Disable the Auto configuration (DHCP IPv6).
Autoconfiguration Type	Select the Type of Autoconfiguration from the Dropdown



	list.
Router Advertisement	Set the value of Deuter advantigement duration
Lifetime	Set the value of Router advertisement duration.

## SLAAC/DHCPv6

In this section we can set the WAN parameters as per DHCP IPv6.

	Setup	Wireless	Advanced	Maintenance	Status		
Wizard	IPV6						
Local Network							
Internet Setup	Internet Service Prov	ider.	taon type. If you are arou				
IPV6	IPv6 Connection	Tyne					
Mode Settings	Chapter the mode t	is he used by the rout	ar to the IDu6 Internet				
		to be used by the rout					
	My IPv6 Conne	ection is: SLAAC/DHCPv	6 💌				
	IPv6 DNS Settin	gs					
	Obtain DNS server	address automatically (	or enter a specific DNS s	erver address.			
	Obtain DNS server	address 💿					
	Use the follow	ving DNS 👝					
	Duine and DNO	address					
	Primary DNS Address:						
	Secondary DNS	Aduress:					
	Lan IPv6 Addres	s Settings					
	Use this section to co may need to adjust y	onfigure the internal netw our PC's network setting:	ork setings of your router. s to access the network ag	If you change the LAN IF gain.	v6 Address here, you		
	Enable D	HCP-PD: 🔽					
	LAN IPv6	Address:	1	64			
	LAN IPv6 Link-Local	Address: fe80::20b:2bff	:fe40:15a/64				
	Address Autocor	nfiguration Settings	:				
	Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.						
	Enable Autoconfiguration: 🗹						
	Autoconfigurati	on Type: SLAAC + State	eless DHCPv6 💌				
	Router Adver	tisement Lifetime: 30 (m	inutes)				
			Apply Changes Rese	et			



## **PPPoE**

	Setup	Wireless	Advanced	Maintenance	Status	
Wizard	TPV6					
Local Network	Lico this section to s	opfauro vour IBv6 Coppos	tion tuno. If you are uncu	ro of your connection mat	thad place contact your	
Internet Setup	Internet Service Prov	/ider.	uon type. It you are urisu	re or your connection met	unou, piease contact your	
IPV6	IBu6 Connection	Thus Connection Tuno				
Mode Settings		Chapter the mode to be used by the router to the IDu6 Internet				
			er to trie 1946 Internet.			
	My IPv6 Conn	ection is: PPPoE	×			
	PPPoE					
	Enter the informat	ion provided by your Ir	ternet Service Provider	· (ISP).		
	Us	er Name:				
	р	assword:				
	Servi	ce Name:	(Optional. It should be	consistent with		
		the setting of PP	PoE Server or empty.)			
	Connecti		~			
	Connect	[connect]	disconnect			
	IPv6 DNS Settings					
	Obtain DNS server	address automatically c	r enter a specific DNS s	erver address.		
	Obtain DNS server auto	r address 💿 matically				
	Use the follow	ving DNS O				
	Primary DNS	Address:				
	Secondary DNS	Address:				
	Lan IPv6 Addres	s Settings				
	Use this section to o	onfigure the internal netw	ork setings of your router	. If you change the LAN IF	Pv6 Address here, you	
	may need to adjust	your PC's network settings	to access the network a	gain.		
	Enable D	HCP-PD: 🗹				
	LAN IPv6	Address:	fe40:15=/64	/64		
	Address Autoco	nfiguration Sattings	1240.138/04			
	Lise this section to g	at up IDuG Autoconformation	n to accien ID addresses t		potuoria	
		supievo Autocorniguratio	n to assign ip addresses t	o are computers on your	HELWUK,	
	Autoconfigurati	ion Type: SLAAC + State	ess DHCPv6 👽			
	Router Adver	tisement 30 (mi	nutes)			
		Lifetime:	···,			
			Apply Changes Rese	et		

Parameter	Description
Username	Type the PPPoE username provided by ISP
Password	Type the PPPoE password provided by ISP
Service Name	Type the Service name provided by ISP (optional)
MTU Size	Type the MTU size ( Defined by ISP)
Connection Type	Select the connection type.

## 4-1-5 Mode Settings

This page is used to configure mode.

Choose menu "Setup→Mode Settings", below given screen will be displayed.

DIG	ISOI	т	DG-HR	1400	15 Br	0Mbps Wireless oadband Router
	Setup	Wireless	Advanced	Maintenance	Status	Help
Wizard	Mode Settings					Helpful Hints
Local Network	This page is used to d	configure mode				Bridge Mode
Internet Setup	The page is used to conligure mode.				bridge. All ethernet wired	
IPV6	Mode Settings					are bridged together.
Mode Settings	C Bridge Mode © Router Mode					Router Mode - The device works as a router. It can access to the Internet by DHCP/PPPoE/Static IP.
			Apply Changes			Note:The device would be reboot if you change the mode.

Here is the description of every setup item:

Parameter	Description
Bridge Mode	The device works as a bridge. All ethernet wired ports and wireless ports are bridged together.
Router Mode	The device works as a router. It can access the Internet by Static IP/DHCP Client/PPPoE.

NOTE: The device would reboot if you change the mode.



## 4-2 Wireless

Click 'Wireless' menu on the top of web management interface, and the following message will be displayed on your web browser:

	Setup	Wireless	Advanced	Maintenance	Status
Wireless Basics	Wireless Basics				
MBSSID	This page is used to a	This page is used to configure the parameters for wiseless LAN clients which may connect to your Access Boint. Here you			
WPS	may change wireless	may change wireless encryption settings as well as wireless network parameters.			
Wireless Advanced	Wireless Setting	Wireless Settings			
Wireless Repeater					
WDS	Mode: AP V				

There are six submenus under the Wireless menu: **Wireless Basics, MBSSID, WPS, Wireless Advanced, Wireless Repeater and WDS.** Click any of them, and you will be able to configure the corresponding function.

## **4-2-1 Wireless Basics**

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

Choose menu "Wireless → Wireless Basics", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status	
Wireless Basics	Wireless Basics					
MBSSID	This page is used to (	configure the parameters f	or wireless I AN clients wh	ich may connect to your A	Access Point, Here you	
WPS	may change wireless	may change wireless encryption settings as well as wireless network parameters.				
Wireless Advanced	Wireless Setting	s				
Wireless Repeater						
WDS		Mode:	AP 💌			
	Wireless Network	Wireless Network				
		Enable SSID Broadcast:				
	En	Enable Wireless Isolation:				
	Name(SSID): DIGISOL					
		Mode : 802.11b/g/n 🗸				
		Channel:	6 🕑 Current Ch	annel: 6		
		Band Width :	Auto 20/40M 🖌			
	Security Options					
	Security Options					
		Security Options :	None	<b>~</b>		
			Apply Cancel			



## Setup procedure for AP:

Wireless Settings	
Mode:	AP 🗸
Wireless Network	
Enable SSID Broadcast:	
Enable Wireless Isolation:	
Name(SSID) :	DIGISOL
Mode :	802.11b/g/n 💙
Channel:	6 V Current Channel: 6
Band Width :	Auto 20/40M 🗸
Security Options	
Security Options :	None
	Apply Cancel

Parameter	Description
Enable SSID Broadcast	If Enabled, the Wireless Access Point will broadcast its name (SSID) to all Wireless Stations. Stations which have no SSID (or a null value) can then adopt the correct SSID for connections to this Access Point.
Enable Wireless Isolation	If checked, the wireless client under this SSID can only access internet and it can't access other wireless clients even under the same SSID, Ethernet clients or this device. Other clients can't access the wireless client, either.
Name(SSID)	Enter a value of up to 32 alphanumeric characters. The same name (SSID) must be assigned to all wireless devices in your network. The default SSID is "DIGISOL", but we strongly recommend that you change your network's name (SSID) to a different value. This value is case-sensitive. For example, SSID is not the same as SsiD.

## JIGISOL

Mode	<ul> <li>Select the wireless mode you want to use. The options are:</li> <li>802.11b mode. With a maximum speed of up to 11 Mbps.</li> <li>802.11g mode. With a maximum speed of up to 54 Mbps.</li> <li>802.11n mode. The band width is 20M, with a maximum speed of up to 72 Mbps; The band width is 40M, with a</li> </ul>
	<ul> <li>maximum speed of up to 150 Mbps.</li> <li>802.11b/g mode. With a maximum speed of up to 54 Mbps.</li> <li>802.11n/g mode. The band width is 20M, with a maximum</li> </ul>
	<ul> <li>speed of up to 130 Mbps (short preamble, with a maximum speed of up to 150 Mbps); the band width is 40M, with a maximum speed of up to 270 Mbps (short preamble, with a maximum speed of up to 150 Mbps).</li> <li>802.11b/g/n mode. The band width is 20M, with a maximum speed of up to 72 Mbps; The band width is 40M, with a maximum speed of up to 150 Mbps.</li> </ul>
Channel	This field determines which operating frequency will be used. It should not be necessary to change the wireless channel unless you notice interference problems with another nearby access point.
Band Width	Select any channel width from the pull-down list. The default setting is Auto 20/40M, which can adjust the channel width for your clients automatically.
Security Options	There are six wireless security modes supported by the Router: WEP, WPA-PSK [TKIP], WPA-PSK [AES], WPA2-PSK [AES], WPA2-PSK [TKIP], WPA-PSK/WPA2-PSK AES.



#### **Setup procedure for Client:**

In this mode, you can connect the router to Ethernet devices such as TV, Game player, HDD & DVD to enable the Ethernet device to be a wireless station and join to a wireless network through an access point or AP router.

Wi	Wireless Settings					
	Mode: Client					
Wi	reless Client Set	tina				
		SSID of A	P: DIGISC	DL		
			Site	Survey		
					_	
#	SSID	MAC Address	Channel	Signal	Security	Select
1	CMCC	00:11:22:33:66:c6	1	100%	WPA-PSK(AES/TKIP)/WPA2-PSK(AES/TKIP)	0
2	RTK 11n AP VAP3	00:e3:48:33:44:59	3	100%	None	0
3	RTK 11n AP VAP4	00:e3:48:33:44:5a	3	100%	None	0
4	Rikey_186	00:e0:61:46:2f:eb	5	100%	None	0
5	RTK 11n AP VAP1	00:e3:48:33:44:57	3	86%	None	0
6	RTK 11n AP	00:e3:48:33:44:55	3	86%	None	0
7	FullRiver WiFi X31	00:e0:61:47:47:0f	11	31%	WPA-PSK(AES)	0
Se	curity Options					
	Security Options : None					
			Apply		ancei	

Description
This is the name of wireless network. Input the SSID name that our wireless ISP has provided you with.
Click 'Site Survey' button, then a "Wireless Site Survey Table" will pop up. It will list all available access points nearby. Select the access point designated by your wireless ISP in the table and the router will join wireless network through this access point.
f the access point enables wireless security, you have to follow he same settings in order to access the access point.
vill pop up. It will list all available access point designated by your wireless I he router will join wireless network through the access point enables wireless security, he same settings in order to access the access



#### Setup procedure for WDS or WDS+AP:

In this mode, you can expand the scope of the network by combining up to four other access points together.

Wireless Settings	
Mode:	WDS
Wireless Network	
Enable SSID Broadcast:	
Enable Wireless Isolation:	
Name(SSID) :	DIGISOL
Mode :	802.11b/g/n 🔽
Channel:	6 Current Channel: 6
Band Width :	Auto 20/40M 💙
Security Options	
Security Options :	None
	Apply Cancel

Here is the description of every setup item:

Parameter	Description				
Enable SSID	If Enabled, the Wireless Access Point will broadcast its				
Broadcast	name (SSID) to all Wireless Stations. Stations which have				
	no SSID (or a null value) can then adopt the correct SSID				
	for connections to this Access Point.				
Enable Wireless	If checked, the wireless client under this SSID can only				
Isolation	access internet and it can't access other wireless clients				
	even under the same SSID, Ethernet clients or this device.				
	Other clients can't access the wireless client, either.				
Name(SSID)	Input the SSID of your wireless router, the setting should				
	be the same with other wireless routers for the				
	convenience of roaming.				
Mode	Select the mode you want to use; all the wireless routers				
	must use the same setting.				
Channel	Select the channel you want to use; all the wireless routers				
	must use the same setting.				
Band Width	Select any channel width from the pull-down list. The				
	default setting is Auto 20/40M, which can adjust the				



	channel width for your clients automatically.
Security Options	If the wireless bridge point enables wireless security, you have to follow the same settings in order to access the access point.

## 4-2-2 MBSSID

Here we provide several guest networks for your guests to use your router to surf the Internet temporary. You can configure your SSID, security options and so on. Guests can only access your router if you enable your guest network.

Choose menu "Wireless→MBSSID", below given screen will be displayed.

DIG	ISC			150Mbps Wireless Broadband Router			
	Setup	Wi	Wireless Advanced Maintenance				s Help
Wireless Basics MBSSID WPS	MBSSID Here we provid configure your	e several guest n SSID, security opt	etworks for your gu tions and so on. Gue	ests to use your rou ests can only access	iter to surf the In to your router if y	ternet temporary. You ca you enable your quest net	Helpful Hints Network Profiles
Wireless Advanced	Network Pre	ofiles			,		button of each profile to check detail info or change settings of
WDS	Select	Scheme	SSID	Security	Apply	SSID Broadcast	each profile. The table is a brief summary of how many profiles you
	•	2	guest-002	None	No	Yes	can create, it provides profile number, SSID of this profile, Security
	C C	3 4	guest-003 guest-004	None None	No No	Yes Yes	type of this profile, this guest wireless network is Enabled or Not, and the SCID will be
	Wireless Set	tingsProfile	1				displayed or not. Wireless Settings of
	Enable Guest Network: Enable SSID Broadcast: Allow Guest to access My Local Network: Enable Wireless Isolation: Guest Wireless Network Name(SSID): GUEST					Profile Enable Guest Network If this check box is checked, then this guest network is enabled. You and your visitors can connect to your network via the SSID of this profile.	
	Security Op	tionsProfile Secu	1 rity Options : Nor Al	ne pply Cancel			More
			Technic	al Support:1800 20	9 3444		

Here is the description of every setup item:

Parameter	Description
Network Profiles	You can click radio button of each profile to check detail info or change settings of each profile. The table is a brief summary of how many profiles you can create, it provides profile number, SSID of this profile, security type of this profile, this guest wireless network is Enabled or Not, and the SSID will be displayed or not.

## IGISOL

Enable Guest	If this feature is checked, then this guest network is enabled.
Network	You and your visitors can connect to your network via the
	SSID of this profile.
Enable SSID	If Enabled, the Wireless Access Point will broadcast its name
Broadcast	(SSID) to all Wireless Stations. Stations which have no SSID
	(or a null value) can then adopt the correct SSID for
	connections to this Access Point
Allow Guest to	If Unchecked any user that connects to this SSID can only
Anow Ouest to	access internet, but can not access actevery management III
Network	such as Web Server, Telnet, etc. All clients in this SSID are not
	allowed to access clients of other SSIDs and Ethernet network.
	If Checked, any user who connects to this SSID can access not
	only internet but also local networks of this wireless router
	like users in primary SSID.
Enable Wireless	If checked, the wireless clients under this SSID can't access
Isolation	other wireless clients under the same SSID.
	If unchecked, the wireless client under this SSID can access
	other wireless clients under the same SSID.
Guest Wireless	Enter a value of up to 32 alphanumeric characters. The same
Network Name	Name (SSID) must be assigned to all wireless devices in your
(SSID)	network. The default SSID is SSID-N N is profile number
(551D)	but we strengly recommend that you shange your network's
	Name (SSID) to a different value. This value is also
	Name (SSID) to a uniferent value. This value is also
	case-sensitive. For example, SSID is not the same as SsiD.
Security Options	• None - No data encryption.
	• WEP - Wired Equivalent Privacy, use WEP 64-bit or 128-bit
	data encryption.
	Note: Wi-Fi Protected Setup function is disabled when the
	security setting is WEP with Shared-Key authentication
	• WPA-PSK [TKIP] - Wi-Fi Protected Access with
	Pre-Shared Key, uses WPA-PSK standard encryption with
	TKIP encryption type.
	• WPA2-PSK [AES] - Wi-Fi Protected Access version 2 with
	Pre-Shared Key uses WPA2-PSK standard encryption with
	the AES encryption type.
	• WPA-PSK [AES] + WPA2-PSK [AES] - Allow clients
	using either WPA-PSK [AES] or WPA2-PSK [AES]
	To achieve the best performance with 11N wireless adapters
	under robust security network, we recommend that you change
	your network's security ontion to WPA2-PSK

# GISOL

## 4-2-3 WPS

Through this process, you can easily add wireless clients to the network without the need for any specific configuration, such as SSID, security mode or password.

Choose menu "Wireless→WPS", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status		
Wireless Basics	WPS Setup						
MBSSID	Through this process	You can easily add wirele	ess clients to the network	without the need for any s	pecific configuration		
WPS	such as SSID, security	mode or password.		menous ene nece for any s	pecific configuration,		
Wireless Advanced	WPS Setup	WDS Satur					
Wireless Repeater		Leatur WDC) is easily	way to connect to a w	inalaca nautan			
WDS	To use the wizard to Check the user manual If the wireless client of	WPS(WiFi Protected setup, WPS) is easily way to connect to a wireless router. To use the wizard to add a wireless client to WPS-enabled wireless router, the client must support WPS. Check the user manual or the box of the wireless client to confirm whether it supports the WPS. If the wireless client does not support WPS, you must configure it manually.					
	Next						

WPS (WiFi Protected Setup) is an easy way to connect to a wireless router.

To use the wizard to add a wireless client to WPS-enabled wireless router, the client must support WPS.

Check the user manual or the box of the wireless client to confirm whether it supports the WPS.

If the wireless client does not support WPS, you must configure it manually.

Click the "Next" button to continue.

	Setup	Wireless	Advanced	Maintenance	Status	
Wireless Basics	Add WPS Client					
MBSSID	Through this process	You can easily add wirele	ss clients to the network y	without the need for any	specific configuration	
WPS	such as SSID, security	mode or password.	so cierto co cire necivore	without the freed for any	specific configuration,	
Wireless Advanced	Select:					
Wireless Repeater						
WDS	<ul> <li>PIN Mode</li> <li>If your card supports</li> </ul>	PIN Mode  If your card supports WPS, please click "Generate PIN code", and input				
	PIN Code here. Entry PIN of wireless NIC:					
			Start PIN			

You can add wireless client by PIN mode. If you use PIN mode, you should input client PIN code. Meanwhile you should start client WPS process. You can find client PIN code on client manager.

Here is the description of every setup item:

Parameter	Description
Entry PIN of wireless	The length of PIN is limited to four or eight numeric
NIC	digits. If the AP and Station input the same PIN, click
	"Start PIN" button in two minutes, they will establish
	connection and setup their security key.

## 4-2-4 Wireless Advanced

This page helps you to setup advanced wireless features, include Fragment Threshold etc.

Choose menu "Wireless  $\rightarrow$  Wireless Advanced", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status		
Wireless Basics	Wireless Advance	ed Settings					
MBSSID	This page helps you t	o setup advanced wireles	s features, include Fragme	nt Threshold etc			
WPS	This page helps you t	o secup advanced wireles.	s reactives, include magnie	ne miesnoù etc.			
Wireless Advanced	Advanced Wirele	ss Settings					
Wireless Repeater		Enable Wire	less : 🔽				
WDS		Fragment Threshold( 23	<b>256</b> - <b>2346</b>				
		RTS Threshold(1-23	<b>47):</b> 2347				
		Preamble T	ype : Short Preamble 💌				
		Radio Power (Perce	ent): 100% 🛩				
		HT20/40 Coexistence :					
	WPS Setup	WPS Setup					
		PIN of the rou	uter :				
		Enable WPS: 🔽					
		Disable	PIN:				
		Keep current configurat	tion : 🔽				
	Access Control L	ist					
	ACL Setup						
	-		Apply Changes				



Here is the description of every setup item:

Parameter	Description
Enable Wireless	Check this box to enable the Router's wireless features; uncheck to disable it.
Fragment Threshold	Used to fragment packets which help improve performance in the presence of radio frequency (RF) interference.
RTS Threshold	Determines the packet size of a transmission through the use of the router to help control traffic flow.
Preamble Type	This is the length of the CRC (Cyclic Redundancy Check) block for communication between the router and wireless clients. High network traffic areas should select Short preamble type.
Radio Power (percent)	You can choose the transmission power of the radio signal. The default one is 100%. It is recommended to choose the default value 100%.
HT20/40 Coexistence	Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.

## ACL Set up

You can specify what kind of service should be enabled in WAN on this page. Packets available in the list or from IP specified can enter the AP router.

Enable Wireless Access Control Mode	
MAC Address	Select
Apply Delete Selected Delete All	
MAC Address: (ex. 00e086710502)	
Add Cancel	,



## 4-2-5 Wireless Repeater

This page is used to configure the parameters for wireless repeater.

Choose menu "Wireless  $\rightarrow$  Wireless Repeater", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Wireless Basics	Wireless Repeate	er			
MBSSID	This page is used to	configure the parameters	for wireless repeater		
WPS	Step 1: click "Site Su	rvey". Sites surveyed will b	e displayed in the list belo	w.Select one item, and cl	ick "Next".
Wireless Advanced	Wireless Repeate	er Setup			
Wireless Repeater					
WDS		SSID of AP	Repeater Enabled(DF mode will be set to "n the repeater is enabled Site Survey	ICP one" if d.)	
			Apply		

DHCP server will automatically shut down if relay mode is enabled (DHCP server will be enabled if relay mode is disabled). We recommend that the computer's IP address and DNS address is set to automatically obtain. You need to manually set the IP address of the computer if you want to access the device, while your PC gets IP address from the upstream AP.

In order to complete these settings, please follow the steps below:

- <sup>1</sup> Click "**Site Survey**". Sites surveyed will be displayed in the list below. Select one item, and click "**Next**".
- <sup>2</sup> Setup the wireless security. Turn on WEP or WPA by using Encryption Keys which could prevent any unauthorized access to your wireless network.
- <sup>3</sup> Click "**Apply**" to save the configuration.

## GISO

### 4-2-6 WDS

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate within the table and then enable the WDS. This page also allows you setup the wireless security for WDS. When enabled, you must make sure each WDS device has adopted the same encryption algorithm and Key.

Wireless Advanced Maintenance Setup Status Wireless Basics WDS Settings MBSSID Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the WPS table and then enable the WDS. This page also allows you setup the wireless security for WDS. When enabled, you must make sure each WDS device has adopted the same encryption algorithm and Key. Wireless Repeate WDS **WDS** Configuration WDS Enabled MAC Address Comment Reset Current WDS AP List MAC Address Comment Delete All WDS Security Setup Encryption: None V Encryption:

Choose menu "Wireless→WDS", below given screen will be displayed.

Parameter	Description
MAC Address	Input the MAC address of other wireless routers.
Comment	You can add some comment for this item.
WDS Security Setup	All base stations in a wireless distribution system must be configured to use the same radio channel, method of encryption (none, WEP, TKIP or AES) and the same encryption keys.



## 4-3 Advanced

Click 'Advanced' menu on the top of the web management interface, and the following message will be displayed on your web browser:

	Setup	Wireless	Advanced	Maintenance	Status			
Access Control List	WAN ACL Configuration							
Port Triggering	Entries in this ACL tak	ble are used to permit cert	ain types of data packets	s from Internet network to	the Gateway Using			
DMZ	of such access contro	ol can be helpful in securing	or restricting the Gatev	vay management.	and datamay. Osing			
URL Block								
IP/Port Filter	ACL Settings							
MAC Filter		WAN Setti	ng: WAN	~				
DOS Settings		Services Allow	ed:					
Dynamic DNS			web					
QoS Setup			🗌 telnet					
UPnP			ping					
Routing			Add Reset					
Virtual Server								

There are twelve submenus under the Advanced menu: Access Control List, Port Triggering, DMZ, URL Block, IP/Port Filter, MAC Filter, DOS Settings, Dynamic DNS, QoS Setup, UPnP, Routing and Virtual Server. Click any of them, and you will be able to configure the corresponding function.

## 4-3-1 Access Control List

You can specify what kind of service should be enabled in WAN on this page. Packets available in the ACL list or from IP specified can enter the AP Router.

Choose menu "Advanced $\rightarrow$ Access Control List", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	WAN ACL Config	uration	-		
Port Triggering	Entries in this ACL tak	le are used to permit cert	ain types of data packets	from Internet network to	the Gateway Lising
DMZ	of such access contro	l can be helpful in securing	or restricting the Gatew	ay management.	the baceway. Using
URL Block					
IP/Port Filter	ACL Settings				
MAC Filter		WAN Sett	ng: WAN	~	
DOS Settings		Services Allow	ed:		
Dynamic DNS			web		
QoS Setup			telnet		
UPnP			ping		
Routing			Add Reset		
Virtual Server					
	Current ACL Tab	le			
	Select	IP Address/I	iterface	Service Por	t Action

Parameter	Description
WAN Setting	Select WAN or a specific IP address range.
Services Allowed	Specify what kind of service should be enabled in WAN.

## **4-3-2 Port Triggering**

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Choose menu "Advanced→Port Triggering", below given screen will be displayed.

	Setup	Wireless	Advanc	ed	Maintenance	Status		
Access Control List	Port Triggering							
Port Triggering	Entries in this table are used to restrict certain types of data packets from your local network to Internet through the							
DMZ	Gateway. Use of such filters can be helpful in securing or restricting your local network.							
URL Block								
IP/Port Filter	Port Triggering S	status						
MAC Filter	Nat Po	rt Trigger: 🔘 Enab	le 💿 Disable					
DOS Settings								
Dynamic DNS			Apply Char	ges				
QoS Setup								
UPnP	Application Type							
Routing	Osual Application	on Se	lect One	~				
Virtual Server	Name:	plication Name						
	Start Match End Ma Port Port	UDP     Image: State of the sta	rt Relate End Relate Port Port	e Open Protocol UDP V UDP V UDP V UDP V UDP V UDP V UDP V UDP V	Nat Type outgoing V outgoing V outgoing V outgoing V outgoing V outgoing V outgoing V			
	Current Port Trig	gering Table Frigger Protocol	Direction Mate	h Port O	pen Protocol Re	late Port Action		

Here is the description of every setup item:

Parameter	Description
Nat Port Trigger	If you want to enable Nat Port Trigger function, please select 'Enable'; otherwise please select 'Disable'.



Usual Application Name	You can choose the type for the Usual Application Name on the pull-down list.
User-defined Application Name	Enter an application name for the rule.
Start Match Port - End Match Port	The port range for outgoing traffic. An outgoing connection using this port will "Match" this rule.
Trigger Protocol	The protocol used for Trigger Ports either TCP, UDP, or TCP/UDP.
Start Relate Port - End Relate Port	The port range used by the remote system when it responds to the outgoing request. A response using one of these ports will be forwarded to the PC that triggered this rule.
Open Protocol	The protocol used for Incoming Ports Range, either TCP or UDP, or TCP/UDP.
Nat Type	Incoming mode will allow inbound traffic to specific incoming port. Outgoing mode will allow outbound traffic to specific outgoing port.

## 4-3-3 DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

Choose menu "Advanced→DMZ", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	DMZ				
Port Triggering	A Demilitarized Zone i	is used to provide Internet	t services without sacrificin	a unauthorized access to i	its local private
DMZ	network. Typically, th	ne DMZ host contains devi	ces accessible to Internet	traffic, such as Web (HTT	P ) servers, FTP
URL Block	servers, SMTP (e-mai	<ol> <li>servers and DNS servers.</li> </ol>	•		
IP/Port Filter	DMZ Configurati	- <b>-</b>			
MAC Filter		011			
DOS Settings		Enable DMZ			
Dynamic DNS	DMZ Host I	P Address:			
QoS Setup					]
UPnP			Apply Changes Re	eset	





Here is the description of every setup item:

Parameter	Description
Enable DMZ	Check this box to enable DMZ function, uncheck this box to disable DMZ function.
DMZ Host IP Address	Enter DMZ host IP Address. Specify the LAN IP address of the PC on which you want to have unrestricted Internet communication.

#### 4-3-4 URL Block

This page is used to configure the filtered keyword. Here you can add/delete filtered keyword.

Choose menu "Advanced→URL Block", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status			
Access Control List	URL Blocking Cor	URL Blocking Configuration						
Port Triggering	This page is used to g	onfigure the filtered keyw	ord. Here you can add/de	lete filtered keyword				
DMZ	This page is used to t	ionigure the litered keyv						
URL Block	URL Blocking Cap	ability						
IP/Port Filter			<b>a</b>					
MAC Filter		Capadility: (•) Disable (	Enable					
DOS Settings			Apply Changes					
Dynamic DNS			Apply changes					
QoS Setup	Keywords							
UPnP		Keyword:						
Routing								
Virtual Server		AddKeyword	Delete Selecte	ed Keyword				
	URL Blocking Table							
	Select		Filter	red Keyword				

Here is the description of every setup item:

Parameter	Description
URL Blocking Capability	If you want to enable URL Blocking Capability function, please select 'Enable'; otherwise please select 'Disable'.
Keyword	Enter the keyword that you want to block.

## 4-3-5 IP/Port Filter

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Choose menu "Advanced $\rightarrow$ IP/Port Filter", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status			
Access Control List	IP/Port Filtering							
Port Triggering	Entries in this table ar	e used to restrict certain :	types of data packets from	your local network to Int	ernet through the			
DMZ	Gateway. Use of such filters can be helpful in securing or restricting your local network.							
URL Block								
IP/Port Filter	Default Action S	tatus						
MAC Filter	Outgoing Defau	Ilt Action: <ul> <li>Permit</li> </ul>	Deny					
DOS Settings	Incoming Defau	Ilt Action: 🔿 Permit 🖲	Deny					
Dynamic DNS								
QoS Setup	Rule Configuration	D <b>n</b>						
UPnP	Proto	col: IP 🗸						
Routing	Rule Act	ion: 💿 Permit 🔿 De	nv					
Virtual Server	Direct	ion: Upstream 🗸	,					
	Source IP Addr	ess:	Mas	k Address: 255.255.25	5.255			
	Dest IP Addr	ess:	Mas	k Address: 255.255.25	5.255			
	SP	ort: _	7	DPort: _				
	Ena	ble: 🔽						
		A	pply Changes Re:	set				
	Current Filter Tal	ble						
	Rule Protocol	Source IP/Mask	SPort Dest IP/Mas	k DPort State I	Direction Action			

Parameter	Description		
Default Action	Select Denv or Permit.		
Status			
Protocol	The protocol used to filter, either IP, ICMP, TCP, or UDP.		
Rule Action	Select Permit or Deny.		
Direction	You can choose the type for the IP/Port Filter on the		
	pull-down list.		
Source IP Address	Specify the source IP address that will be affected by this		
	rule.		
Dest IP Address	Specify the destination IP address that will be affected by		
	this rule.		
SPort	Specify the source port range that will be affected by this		
	rule.		
66			





DPort	Specify the destination port range that will be affected by this rule.
Enable	Check this box to enable the IP/Port Filter features; uncheck to disable it.

## 4-3-6 MAC Filter

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Choose menu "Advanced→MAC Filter", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	MAC Filtering				
Port Triggering	Entries in this table a	re used to restrict certain	types of data packets from	n vour local network to Int	ernet through the
DMZ	Gateway. Use of such	n filters can be helpful in s	ecuring or restricting your I	local network.	
URL Block					
IP/Port Filter	Default Policy				
MAC Filter	Outgoing Defa	ult Policy: O Deny	Allow		
DOS Settings	Incoming Defa	ult Policy: O Deny	Allow		
Dynamic DNS			Apply Changes		
QoS Setup					
UPnP	Add Filter				
Routing		Direction: Outgoing V			
Virtual Server		Action: 💿 Deny 🔘	Allow		
	So	urce MAC:	(ex. 00E086710502)		
	Destina	tion MAC:	(ex. 00E086710502)		
			Add		
	Current MAC Filt	er Table			
	Select	Direction S	ource MAC	Destination MAC	Action
		_		_	
			Delete Delete All		



Here is the description of every setup item:

Parameter	Description
Default Policy	Select Deny or Permit.
Direction	You can choose the type for the MAC Filter on the pull-down
	list.
Action	Select Deny or Permit.
Source MAC	Specify a source MAC address.
Destination MAC	Specify a destination MAC address.

#### 4-3-7 DOS Settings

A "**denial-of-service**" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service.

Choose menu "Advanced→DOS Settings", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status	
Access Control List	DoS Settings					
Port Triggering	A "denial-of-service" (	A "denial-of-senvice" (DoS) attack is characterized by an explicit attempt by backers to prevent levitimate users of a				
DMZ	service from using that	service from using that service.				
URL Block						
IP/Port Filter	DoS Configuratio	on				
MAC Filter	Enable DoS P	revention				
DOS Settings	Whole Syst	em Flood: SYN	100 Packe	ts/Second		
Dynamic DNS	Whole Syst	em Flood: FIN	100 Packe	ts/Second		
QoS Setup	Whole Syst	em Flood: UDP	100 Packe	ts/Second		
UPnP	Whole Syst	em Flood: ICMP	100 Packe	ts/Second		
Routing	Per-Source	IP Flood: SYN	100 Packe	ts/Second		
Virtual Server	Per-Source	IP Flood: FIN	100 Packe	ts/Second		
	Per-Source	IP Flood: UDP	100 Packe	ts/Second		
	Per-Source	IP Flood: ICMP	100 Packe	ts/Second		
	TCP/UDP Po	ortScan	Low 💙 Sensitiv	ity		
	ICMP Smur	F				
	IP Land					
	IP Spoof					
	IP TearDrop	<b>)</b>				
	PingOfDeat	h				
	TCP Scan	bosta				
		nvata				
		argen				
	Select ALL	Clear ALL				
	Enable Sour	rce IP Blocking	300 Block ti	me (sec)		
	Apply Changes	]				



Here is the description of every setup item:

Parameter	Description
Enable DoS Prevention	Check this box to enable the Dos Prevention features; uncheck to disable it.
Enable source IP blocking	The Router will block the IP Address of source which sends the DoS attack for specified time.

## 4-3-8 Dynamic DNS

This page is used to configure the Dynamic DNS address from Oray, No-IP, DynDNS.org and TZO. Here you can Add/Remove to configure Dynamic DNS.

Choose menu "Advanced→Dynamic DNS", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	Dynamic DNS Cor	figuration			
Port Triggering	This page is used to a	configure the Dynamic I	NIC address from Oray. No. I	Due DNC are and TZO 1	
DMZ	Add/Remove to confi	gure Dynamic DNS.	ins address from Oray, NO-1	P, Dyndius.org and 120. P	lere you can
URL Block					
IP/Port Filter	DDNS Configurat	ion			
MAC Filter		Enable:			
DOS Settings	DDNS	provider: DynDNS.or	g 💙		
Dynamic DNS	F	lostname:			
QoS Setup					
UPnP	Account Settings:	Isername:			
Routing		Password:			
Virtual Server					
			Add Remove		
	Dynamic DDNS Ta	ible			
	Select	State	Service H	ostname	Username

Here is the description of every setup item:

Parameter	Description
Enable	Check this box to enable the DDNS features; uncheck to disable it.



DDNS Provider	Choose your DDNS Provider from the drop down menu.				
Host Name	Enter the Host Name that you have registered with your DDNS service provider.				
Username	Enter the Username for your DDNS account.				
Password	Enter the Password for your DDNS account.				

## 4-3-9 Qos Setup

This page is used to configure QoS bandwidth and rules.

Choose menu "Advanced→Qos Setup", below given screen will be displayed.

	Setup	Wireless	Advance	d Maintena	ance Stat	us			
Access Control List	QoS Setup	QoS Setup							
Port Triggering	This page is used to	configure OoS bandwidth	and rules						
DMZ		compare goo banamaan							
URL Block	OoS Setup								
IP/Port Filter	Total Da	dwidth(0							
MAC Filter	Total Ba	Unlimited): UP Stream 0	kbps Dow	n Stream 0 kbps					
DOS Settings		_							
Dynamic DNS	Auto Traffic S	haping 🔄							
QoS Setup			Apply	]					
UPnP									
Routing	QoS Rules								
Virtual Server	Brotocol Source	Garanted Bandwidth (Kbps) Max Bandwidth(Kbps)							
	Protocol	Protocol Port Port Source IP Dest IP Up Floor Down Floor Up Ceiling Down Ceiling							
			Add De	lete					

Parameter	Description
Up Stream	The upload speed through the WAN port.
Down Stream	The download speed through the WAN port.
Auto Traffic	Check this box to enable the Auto Traffic Shaping features;
Shaping	uncheck to disable it.



## 4-3-10 UPnP

This page is used to configure UPnP. The system acts as a daemon when you enable UPnP.

Choose menu "Advanced→UPnP", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status			
Access Control List	UPnP Configura	UPnP Configuration						
Port Triggering	This page is used to	configure UPnP. The syste	em acts as a daemon when	you enable UPnP.				
DMZ								
URL Block	UPnP Configura	tion						
IP/Port Filter			<u>^</u>					
MAC Filter		UPNP: ODisable	<ul> <li>Enable</li> </ul>					
DOS Settings	Current UDeD T	able						
Dynamic DNS	Current OPHP 1a	ible						
QoS Setup	Active Pro	tocol Internal Po	ort External Por	t IP Address	Description			
UPnP			Apply Changes					
Routing			Apply changes					
Virtual Server								

Parameter	Description
UPnP	Select Enable or Disable to enable or disable UPnP function.



## 4-3-11 Routing

This page is used to configure the routing information. Here you can add/delete IP routes.

Choose menu "Advanced→Routing", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	Routing Configuration				
Port Triggering	This page is used to (	This page is used to configure the routing information. Here you can add/delate ID routes			
DMZ	This page is used to configure the folding monthation. Here you can add/delete in foldes.				
URL Block	Host				
IP/Port Filter					
MAC Filter	Enable M				
DOS Settings	Destination       Subnet Mask       Next Hop				
Dynamic DNS					
QoS Setup					
UPnP	Metric 2				
Routing	Add Pouto		Delete Selected		aw Pautas
Virtual Server	Aud Koule Updale Delete Selected Delete All Show Routes				
	Static Route Tab	le			
	Max rule number: 32				
	Select St	ate Destination	Subnet Mask	NextHop	Metric

Parameter	Description			
Enable	Check this box to enable the Routing features; uncheck to disable it.			
Destination	Enter the remote destination LAN IP.			
Subnet Mask	Enter the remote LAN subnet mask.			
Next Hop	Enter the next hop IP.			
Metric	Determines the priority of the route. If multiple routes to the			
	chosen.			




#### Static route table

Max rule number: 32					
Select S	tate D	estination 5	Subnet Mask	NextHop	Metric

Parameter	Description
State	Shows if Routing rule is Disabled or Enabled.
Destination	Shows the remote destination LAN IP.
Subnet Mask	Shows the remote LAN subnet mask.
Next Hop	Shows the IP of the next hop.
Metric	Shows metric in numeric form.

#### 4-3-12 Virtual Server

The page allows you to configure virtual server, so others can access the server through the Gateway.

Choose menu "Advanced→Virtual Server", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	Virtual Server				
Port Triggering	The page allows you	to config virtual server s	o others can access the sen	ver through the Gateway	
DMZ	The page allows you	to coming virtual server,s	o others can access the serv	rer tillough the Gateway.	
URL Block	Service Type				
IP/Port Filter					
MAC Filter	O Usual Ser	vice Name AUTH	×		
DOS Settings	User-define	Name			
Dynamic DNS		Protocol TCP	*		
QoS Setup		WAN Port 113	(ex. 5001:5010)		
UPnP	LAN	Open Port 113			
Routing	LAN I	p Address			
Virtual Server	]				
			Apply Changes		
	Current Virtual S	erver Forwarding	able		
	ServerName	Protocol Loc	al IP Address Loca	Port WAN Port	State Action

Parameter	Description
Usual Service Name	You can choose the type for the Usual Application Name on the pull-down list.
User-defined Service	Enter a name for the rule.
Name	
Protocol	The protocol used for this application, either TCP, UDP.
WAN Port	Enter the port that you want to open next to WAN port.
LAN Open Port	Enter the port that you want to open next to LAN port.
LAN IP Address	Enter the IP address of the computer on your local network
	that you want to allow the incoming service to.



### 4-4 Maintenance

Click '**Maintenance**' menu on the top of web management interface, and the following message will be displayed on your web browser:

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Reboot/Reset				
Firmware Upgrade	This page is used to r	eboot your system with c	urrent setting or reset co	nfiguration to default setting	a a a a a a a a a a a a a a a a a a a
Backup/Restore		aboot your system war e			·9·
Password	Reboot/Reset Sy	/stem			
Time and Date				1	
System Log			Reboot Reset		
Diagnostics-Ping					
Diagnostics-Traceroute					

There are eight submenus under the Maintenance menu: **Reboot, Firmware Upgrade, Backup/Restore, Password, Time and Date, System Log, Diagnostics-Ping, Diagnostics-Traceroute.** Click any of them, and you will be able to configure the corresponding function.

#### 4-4-1 Reboot

This page is used to reboot your system with current setting or reset configuration to default setting.

Choose menu "Maintenance→Reboot", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Reboot/Reset				
Firmware Upgrade	This page is used to r	eboot your system with c	urrent setting or reset con	figuration to default setti	0.0
Backup/Restore	This page is used to t	eboot your system with t	unent setting of reset con		
Password	Reboot/Reset Sy	/stem			
Time and Date					
System Log			Reboot Reset		
Diagnostics-Ping	-				
Diagnostics-Traceroute					

Parameter	Description
Reboot	Restarts the router for the settings to take effect.
Reset	Restarts the router with factory default setting.



#### 4-4-2 Firmware Upgrade

The Firmware Upgrade section can be used to upgrade to the latest firmware code to improve functionality and performance.

Choose menu "Maintenance Firmware Upgrade", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Upgrade Firmwar	e			
Firmware Upgrade	This page allows you	ungrade the Wireless Rout	er firmware to new versio	n Please note do not no	wer off the device
Backup/Restore	during the upload be	cause it may crash the sys	tem.		
Password	Note:System will rebo	ot after file is uploaded.			
Time and Date					
System Log	Select File				
Diagnostics-Ping			Browse		
Diagnostics-Traceroute	Automatically rese	et default after firmware u	pgraded		
			Upload Reset		

The Firmware Upgrade section can be used to upgrade to the latest firmware code to improve functionality and performance.

To update the firmware, follow these steps:

- 1 Click the Browse button to locate the upgrade file on your computer.
- 2 Once you have found the file to be used, click the Upload button below to start the firmware update process. This can take a minute or more.
- <sup>3</sup> Wait for the router to reboot. This can take another minute or more.

#### NOTE: Some firmware updates reset the configuration options to the factory defaults. Before performing any update, be sure to save the current configuration.

#### 4-4-3 Backup/Restore

Save your configurations in a file on your computer so that it may be accessed again later if your current settings are changed. Be sure to save the configuration before performing a firmware update.

Choose menu "Maintenance $\rightarrow$ Backup/Restore", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Backup/Restore	Settings			
Firmware Upgrade	This page allows you	hackup and restore Settin	05.		
Backup/Restore			<u>go</u> ,		
Password	Save Settings To	File			
Time and Date					
System Log			Save		
Diagnostics-Ping					
Diagnostics-Traceroute	Load Settings Fr	om			
		Browse	Upload		

Parameter	Description
Save Settings to File	Press 'Save' button, and you'll be prompted to download the configuration as a file, default filename is 'config.img', you can save it as another filename for different versions, and keep it in a safe place.
Load Settings From	Press 'Browse' to pick a previously-saved configuration file from your computer, and then click 'Upload' to transfer the configuration file to the router. After the configuration is uploaded, the router's configuration will be replaced by the file you just uploaded.



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#### 4-4-4 Password

This page is used to add user account to access the web server of Wireless Router. Empty user name or password is not allowed.

Choose menu "Maintenance→Password", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	User Account Co	nfiguration			
Firmware Upgrade	This page is used to a	add user account to acces	s the web server of Wirele	ess Router. Empty user na	me or password is not
Backup/Restore	allowed.				
Password	]				
Time and Date	Configuration				
System Log	u	ser Name:			
Diagnostics-Ping		Privilege: User 🗸			
Diagnostics-Traceroute	Old	Old Password:			
	New	Password:			
	Confirm	Password:			
	User Account Tal	Add	Modify Delete	Reset	
	Select		User Name		Privilege
	0		admin		root
	0		user		user

Parameter	Description
User Name	Please input new User Name here.
Privilege	Please select the privilege of account you wish to use.
Old Password	Please input current password here.
New Password	Please input new password here.
Confirm	Please input new password here again.
Password	

#### 4-4-5 Time and Date

This page is used to configure the system time and Network Time Protocol (NTP) server.

Choose menu "Maintenance→Time and Date", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status						
Reboot	System Time Con	System Time Configuration									
Firmware Upgrade	This page is used to d	This page is used to configure the system time and Natwork Time Protocol/NTP) server									
Backup/Restore	Here you can change	the settings or view some	information on the syste	m time and NTP paramete	ers.						
Password											
Time and Date	System Time										
System Log	Sys	tem Time: 1970 Year	Jan 💙 Month 1 Day	0 Hour 13 min 57	7 sec						
Diagnostics-Ping	Daylight Savi	ng Offset: 0:00 🗸									
Diagnostics-Traceroute											
			Apply Changes Re	set							
	NTP Configuratio	on:									
	State: 💿 D	isable 🔘 Enable									
	Server: time.	windows.com									
	Server2:										
	Interval: Every	1 hours									
	Time Zone: (GMT-	+05:30) Chennai, Kolkata, Mu	mbai, New Delhi	~							
	GMT time: Thu Jan	n 10:13:57 1970									
			Apply Chapage	cot ]							
			Apply changes Re	set							
	Start NTP:										
		NTP Start: Get GM1	Time								

Parameter	Description
System Time	Displays the current time of the router. If the time is incorrect, please fill in the correct time.
Daylight Saving Offset	Check this option if your location observes daylight saving time. Daylight saving time begins in the southern hemisphere between September–November and ends between March–April. Standard time begins in the southern hemisphere between March–April and ends between September–November. Many countries in the southern hemisphere may observe DST.

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State	There are two options here: Enable or Disable. The default value is Disable.
Server	You can fill the address used for clock synchronization of network time server.
Time Zone	You can select your time zone drop-down box.
Start NTP	You can click Get GMT Time from network time server.

#### 4-4-6 System Log

This page is used to display the system event log table. By checking Error or Notice (or both) will set the log flag.

Choose menu "Maintenance→System Log", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Log Setting				
Firmware Upgrade	This page is used to (	lisplay the system event l	og table. By checking Erro	r or Notice ( or both)will se	et the log flag. By
Backup/Restore	clicking the ">> ", it	will display the newest log	information below.		te ene log hag. by
Password					
Time and Date	Setting				
System Log	Error:	N	otice:		
Diagnostics-Ping					
Diagnostics-Traceroute	Apply Changes	Reset			
	Event Log Table				
	old	Save Log to File	Clean Log Table	,	
	Time Index	Туре	Log I	nformation	
	Page: 1/1				



Here is the description of every setup item:

Parameter	Description
Setting	By selecting the log type, only logs of this type will be shown.
Save Log to File	Save current event log to a text file.
Clean Log Table	Delete all event logs displayed here.

#### 4-4-7 Diagnostics-Ping

This page is used to ping. Diagnostic Ping can check network reachable or not.

Choose menu "Maintenance $\rightarrow$ Diagnostics Ping", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status						
Reboot	Ping Diagnostic	Ping Diagnostic									
Firmware Upgrade	This page is used to r	bing									
Backup/Restore											
Password	Host										
Time and Date											
System Log		PING									
Diagnostics-Ping											
Diagnostics-Traceroute											

Parameter	Description
Host	Type the destination IP address.



#### 4-4-8 Diagnostics-Traceroute

This page is used to traceroute diagnostic. Diagnostic traceroute can check if network is reachable or not, and find the route path between user and the host under check.

Choose menu "Maintenance→Diagnostics Traceroute", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status
Reboot	Diagnostic-Trace	route			
Firmware Upgrade	This page is used to t	raceroute diagnostic			
Backup/Restore	This page is used to t	nacerouce diagnostic.			
Password	Traceroute				
Time and Date					
System Log		Host			
Diagnostics-Ping	Num	berOfTries 3			
Diagnostics-Traceroute		Timeout 5000 ms			
		Datasize 38 Byte	25		
		DSCP 0			
	Maxi	HopCount 30			
		Interface any 💌			
	traceroute	Show Result			

Here is the description of every setup item:

Parameter	Description
Host	Type the destination IP address.
Numberoftries	Type the number of tries.
Timeout	Set the waiting time for the reply of each packet. If there is no reply in the specified time, the connection is overtime.
Datasize	The size of packet.
DSCP	Configure the DSCP parameters.
MaxHopCount	The max number of hops for a traceroute connection.
Interface	By selecting the Interface type.

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#### 4-5 Status

Click '**Status**' menu on the top of web management interface and the following message will be displayed on your web browser:

	Setup	Wireless	Advanced	Maintenance	Status	Help	
Device 31/a	Wireless Router	Status				Helpful Hints	
Active Clent Table	The same draws the						
Sandes	ins page stows ore	your router status,					
215	Shu Land					version, summary of	
	System					your loternet.	

There are four submenus under the Status menu: **Device Info, Active Client Table, Statistics and IPv6**. Click any of them, and you will be able to view the corresponding status.

#### 4-5-1 Device Info

This page shows the current status and some basic settings of the device.

Choose menu "Status→Device Info", below given screen will be displayed.

	Setup	Wir	reless	Advance	≥d	Mainte	enance	Status	Help
Device Info	Wireless Rout	er Status							Helpful Hints
Active Client Table									This page displays a
Statistics	This page shows t	ne current sta	tus and some bas	sic settings of	the device.				summary overview of your router status,
IPV6									including device firmwar version, summary of
	System								your Internet configuration including
		Product	Name				DG-HP1400		ethernet status.
		Untir	ne			0	days, 0:25:4	g	More
		Date/1	rime			Thu J	an 1 0:25:49	1970	
		Firmware	Version				1.00.02		
		Built D	)ate			Dec 2	23 2013 11:1	.0:46	
		Serial Nu	umber			0	017700000	2	
	LAN Configuration								
							192.168.2.1		
			255.255.255.0						
		DHCP Server					Enable		
		MAC Ad	dress		00:17:70:00:00:02				
	WLAN Configu	ration							
		Wirele	ess				Enabled		
					AP				
		SSI	D				DIGISOL		
		Encryp	tion		None				
		Chan	nel		6				
		Broadcas	t SSID				Enabled		
		Repeater	5 Status		Enabled Disconnected				
		•							
	WAN Configur	ation							
	Interface	Protocol	IP Address	Gatewa	y DN	S	S	tatus	
	WAN	DHCP	0.0.0.0	0.0.0.0	0.0.0	0.0	Link Dowr	n(DHCP Client)	
				Refres	h				

#### 4-5-2 Active Client Table

This table shows IP address, MAC address for each client.

Choose menu "Status→Active Client Table", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status						
Device Info	Active Client Tab	Active Client Table									
Active Client Table	This table shows IP a	ddress MAC address for e	ach client								
Statistics			Berr clienc.								
	Active Wired Clie	Active Wired Client Table									
	Name		IP Address	MAC Ad	dress						
	Unknov	<i>i</i> n	192.168.2.147	c8:be:19:c	12:c0:9c						
	Active Wireless C	Active Wireless Client Table									
	Name		IP Address	MAC Ad	dress						
	Refresh										

#### **4-5-3 Statistics**

This page shows the packet statistics for transmission and reception regarding network interface.

Choose menu "Status→Statistics", below given screen will be displayed.

	Setup	Wireless		Advanced	Maintenance		Status		
Device Info	Statistics								
Active Client Table	This page shows th	e packet statistics for	transmission	and reception rea	arding to network interfa	<b>50</b>			
Statistics	The page shows the packet statistics for transmission and reception regarding to network intenace.								
	Statistics								
	Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop		
	LAN1			0	4310	0	0		
	LAN2	2029	0						
	LAN3								
	LAN4	_	_			_			
	WAN	0	0	0	0	0	0		
	WLAN	13352	0	0	906	0	12900		
	Refresh								
				Kenesii					

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#### 4-5-4 IPv6

This page shows the IPv6 internet and network connection details.

Choose menu "Status→IPv6", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status				
Device Info	IPv6 Network Information								
Active Client Table	All of your IPy6 Inter	All of your IDv6 Internet and network connection details are displayed on this page							
Statistics	All of your 12-your fitter let and network connection details are displayed off this page.								
IPV6	IPv6 Connection Information								
	IPv6 Connect	nnection Type Link La							
	LAN IPv6 Link-Lo	ocal Address	fe80::20b:2bff:fe40:15a/64						
	Active LAN IPv6	Client							
		IPv6 Address		Name					
	Refresh								

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### 5. Appendix

#### **Hardware Specifications** •

- Flash: 2MB
- SDRAM: 16MB
- Antenna: One fixed 5 dBi antenna
- WPS Push Button
- Factory reset button \_

#### **Network Ports**

- 1 \* 10/100Mbps UTP WAN Port
- 4 \* 10/100Mbps UTP LAN Ports

#### Status LED

Power, WAN, LAN (1-4), WLAN, WPS -

#### **Standards Compliance** •

- IEEE802.3 10 Base-T Ethernet
- \_ IEEE802.3u 100 Base-TX Ethernet
- IEEE802.11b, IEEE802.11g, IEEE802.11n -

#### Frequency Band

- 2.4000 ~ 2.4835 GHz
- WLAN Data Transfer Rates •
  - IEEE802.11b up to 11Mbps \_
  - IEEE802.11g up to 54Mbps
  - IEEE802.11n up to 150Mbps \_

#### • Wireless Output Power

- IEEE802.11b: 23 +/- 1 dBm
- IEEE802.11g: 19 +/- 1 dBm
- IEEE802.11n: 18 +/- 1 dBm





#### • Environmental Specifications

- Operating temperature: 0 to 40°C
- Storage Temperature: -40 to 70°C
- Operating Humidity: 10 % to 90 %
- Storage Humidity: 5% to 95%

#### • Power Supply

- 5V DC, 1A Switching Power Adapter



### 6. Glossary

**Default Gateway (Router):** Every non-router IP device needs to configure a default gateway IP address. When the device sends out an IP packet, if the destination is not on the same network, the device has to send the packet to its default gateway, which will then send it to the destination.

**DHCP:** Dynamic Host Configuration Protocol. This protocol automatically gives every computer on your home network an IP address.

**DNS Server IP Address:** DNS stands for Domain Name System, which allows Internet servers to have a domain name (such as www.Broadbandrouter.com) and one or more IP addresses (such as 192.34.45.8). A DNS server keeps a database of Internet servers and their respective domain names and IP addresses, so that when a domain name is requested (as in typing "Broadbandrouter.com" into your Internet browser), the user is sent to the proper IP address. The DNS server IP address used by the computers on your home network is the location of the DNS server your ISP has assigned to you.

**DSL Modem:** DSL stands for Digital Subscriber Line. A DSL modem uses your existing phone lines to transmit data at high speeds.

**Ethernet:** A standard for computer networks. Ethernet networks are connected by special cables and hubs, and move data around at up to 10/100 million bits per second (Mbps).

**Idle Timeout**: Idle Timeout is designed so that after there is no traffic on the Internet for a pre-configured amount of time, the connection will automatically get disconnected.

**IP** Address and Network (Subnet) Mask: IP stands for Internet Protocol. An IP address consists of a series of four numbers separated by periods, which identifies a single, unique Internet computer host in an IP network. Example: 192.168.2.1. It consists of 2 portions: the IP network address, and the host identifier.

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A network mask is also a 32-bit binary pattern, and consists of consecutive leading 1's followed by consecutive trailing 0's, such as

When both are represented side by side in their binary forms, all bits in the IP address that correspond to 1's in the network mask become part of the IP network address, and the remaining bits correspond to the host ID.

For example, if the IP address for a device is, in its binary form, 11011001.10110000.10010000.00000111, and if its network mask is, 11111111.111111111111110000.00000000 It means the device's network address is 11011001.10110000.10010000.00000000, and its host ID is, 00000000.00000000.00000000.00000111. This is a convenient and efficient method for routers to route IP packets to their destination.

**ISP Gateway Address:** (see ISP for definition). The ISP Gateway Address is an IP address for the Internet router located at the ISP's office.

**ISP:** Internet Service Provider. An ISP is a business that provides connectivity to the Internet for individuals and other businesses or organizations.

LAN: Local Area Network. A LAN is a group of computers and devices connected together in a relatively small area (such as home or office). Your home network is considered a LAN.

**MAC Address:** MAC stands for Media Access Control. A MAC address is the hardware address of a device connected to a network. MAC address is a unique identifier for a device with an Ethernet interface. It is comprised of two parts: 3 bytes of data that correspond to the Manufacturer ID (unique for each manufacturer), plus 3 bytes that are often used as the product's serial number.

**NAT:** Network Address Translation. This process allows all the computers on your home network to use one IP address. Using the broadband router's NAT capability, you can access Internet from any computer on your home network without having to purchase more IP addresses from your ISP.

**Port:** Network Clients (LAN PC) uses port numbers to distinguish one network application/protocol over another. Below is a list of common applications and protocol/port numbers:



Application	Protocol	Port Number	
Telnet	ТСР	23	
FTP	ТСР	21	
SMTP	ТСР	25	
POP3	ТСР	110	
H.323	ТСР	1720	
SNMP	UDP	161	
SNMP Trap	UDP	162	
HTTP	ТСР	80	
РРТР	ТСР	1723	
PC Anywhere	ТСР	5631	
PC Anywhere	UDP	5632	

**PPPoE**: (Point-to-Point Protocol over Ethernet.) Point-to-Point Protocol is a secure data transmission method originally created for dial-up connections; PPPoE is for Ethernet connections. PPPoE relies on two widely accepted standards, Ethernet and the Point-to-Point Protocol. It is a communications protocol for transmitting information over Ethernet between different manufacturers.

**Protocol:** A protocol is a set of rules for interaction agreed upon between multiple parties so that when they interface with each other based on such a protocol, the interpretation of their behavior is well defined and can be made objectively, without confusion or misunderstanding.

**Router:** A router is an intelligent network device that forwards packets between different networks based on network layer address information such as IP addresses.

**Subnet Mask:** A subnet mask, which may be a part of the TCP/IP information provided by your ISP, is a set of four numbers (e.g. 255.255.255.0) configured like an IP address. It is used to create IP address numbers used only within a particular network (as opposed to valid IP address numbers recognized by the Internet, which must be assigned by Inter NIC).



TCP/IP, UDP: Transmission Control Protocol/Internet Protocol (TCP/IP) and Unreliable Datagram Protocol (UDP). TCP/IP is the standard protocol for data transmission over the Internet. Both TCP and UDP are transport layer protocols. TCP performs proper error detection and error recovery, and thus is reliable. UDP on the other hand is not reliable. They both run on top of the IP (Internet Protocol), a network layer protocol.

WAN: Wide Area Network. A network that connects computers located in geographically separate areas (e.g. different buildings, cities, countries). The Internet is a wide area network.

Web-based management Graphical User Interface (GUI): Many devices support a graphical user interface that is based on the web browser. This means the user can use the familiar Netscape or Microsoft Internet Explorer to Control/configure or monitor the device being managed.

This product comes with lifetime warranty. For further details about warranty policy and product registration, please visit support section of www.digisol.com

