

DG-HR3400

300Mbps 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-HR3400 300Mbps 802.11n Wireless Broadband Home Router! DG-HR3400 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 300Mbps (transfer data rate).

Other features of this router include:

- High Internet Access throughput.
- Wireless speed up to 300Mbps.
- 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.
- 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-HR3400 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. Hardware Installation

2-1 Get Familiar with your new wireless broadband router

2-1-1 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).
LAN(1-4)	On	LAN port is connected.
	Off	LAN port is not connected.

🖀 1800-209-3444 (Toll Free)





	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).
WPS	On	A wireless device has been successfully added to the network by WPS function.
WIS	Off	WPS process is not initiated.
	Blinking	A wireless device is connecting to the network by WPS function.



2-1-2 Back Panel



Interfaces	Description
Antennas	These antennas are 5dBi dipole antennas.
Power on/off button	Press this button to power on/off the router.
Power	The Power socket is where you will connect the power adapter. 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	Reset the router to factory default settings (clear all settings). Press this button and hold for 5 seconds to restore all settings to factory defaults.
WAN	Wide Area Network (WAN / Internet) port.

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2-2 Typical install

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.



2-3 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.



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Connect one end of a network cable to the WAN port of the router and the ٠ other end to the DSL/Cable modem. Click 'Next' to continue.

AutoRun ¥1.0	
	ligisol.com
Connect the modem to the router	
Connect one end of a network cable to the WAN port of the router and the other end to the DSL/Cable modem. Modem	
Cable / DSL Jack	
Model Number : DG-HR3400 300Mbps Wireless Broadband Router	Exit
Toll Free - 18	800 209 3444

Connect one end of the provided network cable to one of the LAN ports $(1\sim4)$ • 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.

IGISOL	www.digisol.com
Power ON the router	
Plug the included power adapter to the route power strip.	Modem Cable / DSL
Model Number : DG-HR3400 300Mbps 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.

	ISC		www.digisol.c
D Description	:		
LED Name	Colour	Status	Description
POWER	GREEN	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
WPS	GREEN	OFF	WPS is Off or WPS process not initiated.
VVP3	GREEN	BLINKING	WPS process on Router is initiated
	: DG-HR3400		



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	
Enter	

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

💶 AutoRun ¥1.0			_ 🗆 🗙
IGISOL		WI	ww.digisol.com
Configure WAN Interfac	ce		
Please select the internet	connection t	уре	
WAN Mode	WAN Mode		
	PPPoE		
	O DHCP		
	C Static IP		
Model Number : DG-HR3400 300Mbps Wireless Broadband Router		Back Next	Exit
		Toll Fre	ee - 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.



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 ¥1	1.0			×
	GISC)L		www.digisol.com
	Configure PPPc	E		
	Please enter th has provided to	e username and pa) you	ssword that your	ISP
	User ID	PPP setting		
		PPP_Password		
	Password			
	ımber : DG-HR34 Wireless Broadl		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.dig	1501.001
Running Status				
If you get an error		hen click	"Back" to hish" to compl	ete
the configuration. Click "Next" to con	figure Wire	less		
the configuration. Click "Next" to con WAN Link Type		less		
the configuration. Click "Next" to con WAN Link Type WAN IP	figure Wire PPPoE Auto	less		
the configuration. Click "Next" to con WAN Link Type	figure Wire	less		
the configuration. Click "Next" to con WAN Link Type WAN IP	figure Wire PPPoE Auto	less		
the configuration. Click "Next" to con WAN Link Type WAN IP Default Gateway	Figure Wire PPPoE Auto Auto	less		
the configuration. Click "Next" to con WAN Link Type WAN IP Default Gateway Primary DNS	Figure Wire	eless	Next	Finish

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

AutoRun V1.0	
JIGISOL	www.digisol.com
Wireless Configuration	
Configure a name (SSID) for your wireless network can always identify your wireless network. The def SSID is "Digisol"	
Wireless Name (SSID): Digisol [Example: MyNetwo	rk, WIFI123]
Model Number : DG-HR3400 300Mbps Wireless Broadband Router	Next Exit

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

AutoRun V1.0	
JIGISOL	www.digisol.com
Configure Wireless Security	
hackers and malicious users	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-HR3400 300Mbps Wireless Broadband Router	Back Next Exit
	Toll Free - 1800 209 3444





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

AutoRun V1.0			
JIGISOI			www.digisol.com
Summarizing Wireless Con	figuration		
Following is the summary of	of your Digisol r	outer's wireless	configuration:
Internet Connection Type: Wireless Name (SSID): Wireless Security: Security Key:	PPPoE DIGISOL WPA2 Mixed digisoltest	-	
Click 'Finish' to save your (Once the router reboots, y router wirelessly.			
Model Number : DG-HR3400 300Mbps Wireless Broadband F	Router	Back	Finish
		Tol	l Free - 1800 209 3444

• Lastly, the router will reboot as shown below.



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DHCP (Cable Modem users)

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

AutoRun V1.0		
IGISOL		www.digisol.com
Configure WAN Interfa		
Please select the internet		pe
WAN Mode	WAN Mode	
	C PPPoE	
	C Static IP	
Model Number : DG-HR3400 300Mbps Wireless Broadband Route	r 📃	Bock Next Exit
		Toll Free - 1800 209 3444

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

Configure WAN		
Click "Next" if DHCP is selecte	ed or enter Static IP Ac	Idress
if Static IP is selected below a		
DHCP	C 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	
		1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 - 1004 -



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

AutoRun V1.0	
JIGISOL	www.digisol.com
Running Status	Pinada setting DK.
	message then click "Back" to ttings. Else click "Finish" to complete ofigure Wireless
WAN Link Type	DHCP
WAN IP	Auto
Default Gateway	Auto
Primary DNS	Auto
Secondary DNS	Auto
Model Number : DG-HR3400 300Mbps Wireless Broadband Router	
	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 V1.0	
IGISOL	www.digisol.com
Configure Wireless Security	
hackers and malicious users.	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-HR3400 300Mbps 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 V1.0		
Digiso	L	www.digisol.com
Summarizing Wireless C	onfiguration	
Following is the summa	ry of your Digisol router's wire	eless configuration:
Internet Connection Typ Wireless Name (SSID): Wireless Security: Security Key: Click 'Finish' to save you Once the router reboots router wirelessly.	Wireless setup OK, All setup finished. Rebooting now	the router. ents to the
Model Number : DG-HR3400 300Mbps Wireless Broadban	d Router	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**'.

AutoRun ¥1.0	
IGISOL	www.digisol.com
Configure WAN	
Click "Next" if DHCP is select if Static IP is selected below a	ted or enter Static IP Address and then click "Next" to proceed.
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
Model Number : DG-HR3400 300Mbps Wireless Broadband Router	r Back Next Exit
	Toll Free - 1800 209 3444
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• The screen shown below will appear. Click on 'Next'.

💶 AutoRun V1.0		
JIGISO	L	www.digisol.com
Running Status	Static IP mode somp CK.	5
reconfigure t the configura		k "Finish" to complete
WAN Lin	Type Static IP	
v	AN IP 121.242.57.56	
Default Ga	teway 121.242.57.33	
Primar	y DNS 4.2.2.2	
Secondar	y DNS 4.2.2.1	
Model Number : DG-HR3400 300Mbps Wireless Broadban	l Router	lack 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 V1.0	
JIGISOL	www.digisol.com
Configure Wireless Security	
hackers and malicious users	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-HR3400 300Mbps 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 ¥1.0			
JIGISOI	-		www.digisol.com
Summarizing Wireless Con	figuration		
Following is the summary o	of your Digisol	router's wireles	s configuration:
Internet Connection Type: Wireless Name (SSID): Wireless Security: Security Key:	Static IP DIGISOL None WIFI_Password		
Click 'Finish' to save your o Once the router reboots, yo router wirelessly.			
Model Number : DG-HR3400 300Mbps Wireless Broadband R	outer	Back	Finish
		Τα	oll Free - 1800 209 3444

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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".





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

2 Pro	perties				1	?
General	Advanced					
Connec	ct using:					
BB E	Broadcom NetL	ink (TM)	Gigabit El	ther	Configu	re
This co	nnection uses	the follov	ving items			
	Client for Mic File and Prin QoS Packet Internet Prot	er Sharin Schedul	ng for Micro er	osoft Nel	works	
	nstall	[L	Ininstall		Properti	es
Tran wide	ription smission Contr area network ss diverse inter	protocol	that provid	des comr		ult
100000000000000000000000000000000000000	w icon in notifi ify me when thi					tivity
			C	OK		Cancel

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

You can get IP settings assigned automatically if your network support this capability. Otherwise, you need to ask your network administrate appropriate IP settings.	comgaration	Configuration	
Use the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically Ouse the following DNS server addresses: Preferred DNS server:	herwise, you need to ask your r	nerwise, you need to ask your network admin	
IP address: Subnet mask: Default gateway: Obtain DNS server address automatically O Use the following DNS server addresses: Preferred DNS server:	address automatically	address automatically	
Subnet mask: Default gateway:	owing IP address:	wing IP address:	
Default gateway: Obtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server:		1	
Obtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server:		- 18 R 19	
O Use the following DNS server addresses: Preferred DNS server:	ay:	W.	
Preferred DNS server:	server address automatically	server address automatically	
	owing DNS server addresses: -	wing DNS server addresses:	
Alternate DNS server.	server.	server.	
	server.	server	
Advar		Ad	dvanced
			_

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B. "Use the following IP address (S)"
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 you ISP.
Otherwise, you can use the Pouter's default gateway as the DNS provy

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

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	SOL				
	Login				
	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:



SISC	ISOĽ		DG	HR34	100		300Mbps Wirele Broadband Rout
Setup	Wireless		Advanced	Mai	ntenance	Status	Help
Wireless Router Status							Helpful Hints
This page shows the current status and some basic settings of the device. System						This page displays a summary overview of y router status, including device firmware version summary of your Intern configuration including ethernet status.	
Product Name					DG-HR3400		More
Uptime					0 days, 1:27:22		
Date/Time				Thu	Jan 1 1:27:22 1	970	
	Firmware Version Serial Number				1.00.00 00051D030405		
LAN Configura	ition						
	IP Address				192.168.2.1		
	Subnet Mask			255.255.255.0			
	DHCP Server MAC Address			Enable			
				00:05:1D:03:04:05			
WLAN Configu	ration						
	Wireless				Enabled		
	Mode				AP		
	SSID				DIGISOL		
	Encryption				None		
	Channel				6 Fachlad		
	Broadcast SSID WPS				Enabled Enabled		
	Repeater Status				Disconnected		
WAN Configu	WAN Configuration						
Interface	Protocol IP A	ddress	Gateway	DNS	St	tatus	
WAN	DHCP 0.0	0.0.0	0.0.0.0	0.0.0	Link Down	(DHCP Client)	
			Refresh				
			al Support: 1800				

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	SISOL I			R3400	300Mbps Wireless Broadband Router		
	Setup	Wireless	Advanced	Maintenance	Status	Help	
Device Info	Wireless Router 9		Helpful Hints				
Active Client Table	This page shows the current status and some basic settings of the device.						
Statistics	This page shows the current status and some basic settings of the device. summary overview of router status, includin device from a status, includin device from status, includin device from status and some basic settings of the device.						
	System	summary of your Internet configuration including					
						ethernet status.	
		Product Name		DG-HR3400		More	
	Uptime			0 days, 1:57:20			
		Date/Time		Thu Jan 1 1:57:20 1	1970		
		Firmware Version		1.00.00			
		Serial Number		00051D030405	i		

And the following message will be displayed:

Qui	ick 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
 The Quick Setup supports three popular types of connection. To make sure the connection type your ISP provides, please refer to the ISP. PPPOE - Usually for ADSL Modem and you will need a PPPOE username and password from your ISP. Dynamic IP - Usually for Cable Modem and the router will automatically obtain an IP address from the DHCP server. Static IP - This type of connection uses a permanent, fixed (static) IP address 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 accou	nt username and pass	word provided by y	our 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.

Quick Setup - Static IP				
Enter the IP paramet	ters provided by y	our ISP.		
IP Address:	0.0.00			
Subnet Mask:	0.0.0			
Default Gateway:	0.0.00			
Primary DNS:	0.0.0.0	(Optional)		
Secondary DNS:	0.0.00	(Optional)		
			Back	Next

Here is the description of every setup item:

Parameter	Description
IP address	Please input IP address assigned by your service provider.
Subnet Mask	Please input 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:	
		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
radio	disabled 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 designated by your wireless ISP.
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
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	default setting is Auto 20/40M, which can adjust the channel 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 chapter 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:

	Setup	Wireless	Advanced	Maintenance	Status
Wizard]				
Local Network					
Internet Setup	Quid	k Setup			
Mode Settings		The auick setup will tel	you how to configure the	e basic network	

There are four submenus under the Setup menu: Wizard, Local Network, Internet Setup, 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 a few simple steps to get your network up and running.

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

	Setup	Wireless	Advanced	Maintenance	s
Wizard]				
Local Network					
Internet Setup	Quic	k Setup			
Mode Settings		The quick setup will tell yo continue, please click the	u how to configure the basic "Next" button.	network parameters. To	
				Manual	lext

For details please refer to **<u>3.3 Using Quick Setup</u>** on above.



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.

	Setup	Wireless	Advanced	Maintenance	Status
Wizard	LAN Interface Se	tup			
Local Network Internet Setup Mode Settings	This page is used to configure the LAN interface of your Wireless Router. Here you may change the setting for IP addresss, subnet mask, etc This page can be used to config 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 a IP address. (2)This page lists the Ked IP/MAC address on your LAN. The device distributes the number configured to hosts on your network as they request Internet access.				
		tup P Address: 192, 168, 2, 1 onet Mask: 255, 255, 255,	0		
			Apply Changes		
	DHCP Server Sett	tings			
	IP P Max Le	HCP Mode: DHCP Server ool Range: 192.168.2.2 ease Time: 120	- 192.168.2.254]	
	DNS	ain Name: domain.name 5 Server 1: 192.168.2.1 5 Server 2:			
			Apply Changes Un	do	
	DHCP Static IP Co	onfiguration			
		P Address: 0.0.0.0 c Address: 0000000000	0 (ex. 00E086710502)		
		Add Upda	te Delete Selecte	d Reset	
	DHCP Static IP Ta	able			
	Select	IP Ad	ldress	MAC Addı	'ess

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			
Subject Husk				
	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 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

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	network address details automatically.				
Max Lease Time	1 5				
	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 wish				
	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					
IP Address: Mac Address:					
Add Update Delete Selected Reset					

Here is the description of every setup item:

Parameter	Description
IP address	The IP address to be configured for your computer or device on the local area network. For example, 192.168.2.2.
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.

	Setup	Wireless	Advanced	Maintenance	Status
Wizard	WAN Interface Se	tup			
Local Network	This page is used to con	figure the parameters for Ir	nternet network which conne	ects to the WAN port of your	Access Point, Here you
Internet Setup			or PPPoE by click the item va		,,
Mode Settings					
	WAN Interface				
		ost Name: DHCP Client	Y		
	Attain DNS Auto		o repair the connection of you ration changed.)	ur PC if DNS	
	Set DNS	Manually: 🔘	2 /		
	DNS	Server 1: 0.0.0.0			
	DNS	Server 2: 0.0.0.0			
	DNS	Server 3: 0.0.0.0			
	MAC Clone				
	De	fault MAC 💿			
	МА	C from PC (
	MA	C manual O 00:05:1D:04:	05:06		
			Apply Changes Re	set	

Setup procedure for 'Static IP':

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



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 1/2/3	Please input the IP address of DNS servers provided by your service provider.

Setup procedure for 'DHCP Client':

WAN Interface	
WAN Access Type:	DHCP Client 🗸
Host Name:	hostname
MTU Size:	1500
Attain DNS Automatically:	 (Need to repair the connection of your PC if DNS configuration changed.)
Set DNS Manually:	0
DNS Server 1:	0.0.0.0
DNS Server 2:	0.0.0.0
DNS Server 3:	0.0.00

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:	РРРоЕ
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:	 (Need to repair the connection of your PC if DNS configuration changed.)
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

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.						
	Continuous – The connection will be kept always On. If the						
	connection is interrupted, the router will re-connect						
	automatically.						
	Connect On-Demand – Only connect when you want to surf						
	the Internet. "Idle Time Out" is set to stop the connection						
	when the network traffic is not sending or receiving after an						
	idle time.						
	Manual – 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						
	43						



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	0
MAC manual	0
	00:05:1D:04:05:06
	Apply Changes Reset

4-1-4 Mode Settings

This page is used to configure mode.

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

	Setup	Wireless	Advanced	Maintenance	Status	
Wizard	Mode Settings					
Local Network	This page is used to cor	figure mode.				
Internet Setup						
Mode Settings	Mode Settings	Mode Settings				
	Bridge Mode Router Mode					
			Apply Changes			

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 to 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 wireless LAN clients which may connect to your Access Point. Here you				
WPS		may change wireless encryption settings as well as wireless network parameters.				
Wireless Advanced	Wireless Setting	Wireless Sattings				
Wireless Repeater	whereas sectings					
WDS		Mode:	AP 🗸			

There are six submenus under the Wireless menu: **Wireless Basics, MBSSID, WPS, Wireless Advanced, Wireless Repeater, 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 a	This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you					
WPS		encryption settings as wel			ccess Folic. Here you		
Wireless Advanced	Wireless Settings	5					
Wireless Repeater	in cless occcing.						
WDS		Mode:	AP 💙				
	Wireless Network						
	Enable SSID Broadcast: 🔽 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 :	None	*			
	-		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
L	Apply Cancel

Here is the description of every setup item:

Parameter	Description
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.
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.
Mode	 Select the wireless mode you want to use. The options are: 802.11b mode. With a maximum speed of up to 11 Mbps. 802.11g mode. With a maximum speed of up to 54 Mbps. 802.11n mode. The band width is 20M, with a maximum 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 300 Mbps). 802.11b/g mode. With a maximum speed of up to 54 Mbps. 802.11b/g mode. With a maximum speed of up to 54 Mbps. 802.11b/g mode. The band width is 20M, with a maximum speed of up to 130 Mbps(short preamble, with a maximum 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 300 Mbps). 802.11b/g/n mode. The band width is 20M, with a maximum speed of up to 300 Mbps). 802.11b/g/n mode. The band width is 20M, with a maximum speed of up to 300 Mbps). 802.11b/g/n mode. The band width is 20M, with a maximum speed of up to 300 Mbps).
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 us 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.

Mode: Client						
	·					
less Client Set	ting					
	SSID of AF	DIGISC	DL			
		Site	Survey			
				_		
SSID	MAC Address	Channel	Signal	Security	Select	
CMCC	00:11:22:33:66:c6	1	100%	WPA-PSK(AES/TKIP)/WPA2-PSK(AES/TKIP)	0	
RTK 11n AP VAP3	00:e3:48:33:44:59	3	100%	None	0	
RTK 11n AP VAP4	00:e3:48:33:44:5a	3	100%	None	0	
Rikey_186	00:e0:61:46:2f:eb	5	100%	None	0	
RTK 11n AP VAP1	00:e3:48:33:44:57	3	86%	None	0	
RTK 11n AP	00:e3:48:33:44:55	3	86%	None	0	
FullRiver WiFi X31	00:e0:61:47:47:0f	11	31%	WPA-PSK(AES)	0	
rity Options						
Security Options : None						
		Apply		ancel		
t t t	SSID CMCC TK 11n AP VAP3 TK 11n AP VAP4 Rikey_186 TK 11n AP VAP1 RTK 11n AP SullRiver WiFi X31	SSID MAC Address CMCC 00:11:22:33:66:c6 TK 11n AP VAP3 00:e3:48:33:44:59 TK 11n AP VAP4 00:e3:48:33:44:54 Rikey_186 00:e0:61:46:2f:eb TK 11n AP VAP1 00:e3:48:33:44:57 RTK 11n AP VAP1 00:e3:48:33:44:55 cullRiver WiFi X31 00:e0:61:47:47:0f	Mac Address DIGISC SSID of AP: DIGISC Site SSID MAC Address Channel CMCC 00:11:22:33:66:c6 1 TK 11n AP VAP3 00:e3:48:33:44:59 3 TK 11n AP VAP4 00:e3:48:33:44:54 3 Rikey_186 00:e0:61:46:2f:eb 5 TK 11n AP VAP1 00:e3:48:33:44:57 3 RTK 11n AP 00:e3:48:33:44:55 3 GUIRiver WiFi X31 00:e0:61:47:47:0f 11	MAC Address Channel Signal SSID MAC Address Channel Signal CMCC 00:11:22:33:66:c6 1 100% TK 11n AP VAP3 00:e3:48:33:44:59 3 100% TK 11n AP VAP4 00:e0:61:46:2f:eb 5 100% Rikey_186 00:e0:61:46:2f:eb 5 100% TK 11n AP VAP1 00:e3:48:33:44:57 3 86% RTK 11n AP VAP1 00:e3:48:33:44:55 3 86% euliRiver WiFi X31 00:e0:61:47:47:0f 11 31%	SSID of AP: DIGISOL SSID MAC Address Channel Signal Security CMCC 00:11:22:33:66:c6 1 100% WPA-PSK(AES/TKIP)/WPA2-PSK(AES/TKIP) TK 11n AP VAP3 00:e3:48:33:44:59 3 100% None TK 11n AP VAP4 00:e3:48:33:44:59 3 100% None Rikey_186 00:e0:61:46:2f:eb 5 100% None TK 11n AP VAP1 00:e3:48:33:44:57 3 86% None RIK 11n AP 00:e3:48:33:44:55 3 86% None rtK 11n AP 00:e0:61:47:47:0f 11 31% WPA-PSK(AES)	

Here is the description of every setup item:

Parameter	Description
SSID of AP	This is the name of wireless network. Input the SSID name that
	your wireless ISP has provided you with.

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Site Survey	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.
Security	If the access point enables wireless security, you have to follow
Options	the same settings in order to access the access point.

Setup procedure for WDS or WDS+AP:

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

Wireless Settings	
Mode:	WDS V
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

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.

	Setup	Wireless		Advanced	Maintenance	e Status
Wireless Basics	MBSSID					
MBSSID	Horo wo provido co	veral quest pet	works for you	r quests to use your rei	tor to surf the Inter	net temporary. You can
WPS						enable your guest network.
Wireless Advanced	Network Profile	S				
Wireless Repeater						
WDS	Select	Scheme	SSID	Security	Apply	SSID Broadcast
	\odot	1	GUEST	None	No	Yes
	Wireless Setting	jsProfile 1				
		Enable Gues	t Network:			
		Enable SSID	Broadcast:	\checkmark		
	Allow Guest to a	ccess My Loca	al Network:			
	E	nable Wireles	s Isolation:			
	Guest Wirele	ss Network Na	ame(SSID):	GUEST		
	Constitute Constitute	- D(1- 1				
	Security Option	sprofile 1				
		Securit	y Options :	None	*	
				Apply Cancel]	



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.
Enable Guest Network	If this feature is checked, then this guest network is enabled. You and your visitors can connect to your network via the SSID of this profile.
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.
Allow Guest to access My Local Network	 If Unchecked, any user that connects to this SSID can only access internet, but can not access gateway management UI, such as Web Server, Telnet, etcAll 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 Isolation	If checked, the wireless clients under this SSID can't access 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 Network 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 SSID_N, N is profile number, but we strongly recommend that you change your network's Name (SSID) to a different 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- 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, use WPA-PSK standard encryption with TKIP encryption type WPA2-PSK [AES] - Wi-Fi Protected Access version 2 with Pre-Shared Key, use 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 recommends that you change your network's security option to WPA2-PSK.

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		
ireless Basics	WPS Setup						
SSID	Through this process	You can oasily add wirold	uss clients to the notwork	without the need for any so	ocific configuration		
/PS	such as SSID, security	· · · · · · · · · · · · · · · · · · ·	ss clients to the network	without the need for any sp	ecine comiguration,		
Vireless Advanced	WDC Catur						
Vireless Repeater	WPS Setup						
NDS	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 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	without the need for any	specific configuration
WPS	such as SSID, security		as clients to the network	without the need for any	specific configuration,
Wireless Advanced	Select:				
Wireless Repeater	Jelecc.				
WDS	 PIN Mode If your card supports PIN Code here. 	WPS, please click "Genera	te PIN code", and input	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 NIC	The length of PIN is limited to four or eight numeric digits. If the AP and Station input the same PIN and 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 wireless	s features, include Fragme	nt Threshold etc.				
WPS								
Wireless Advanced	Advanced Wireles	ss Settings						
Wireless Repeater		Enable Wire	ess: 🔽					
WDS		Fragment Threshold(23	256 - 2346					
		RTS Threshold(1-23	47): 2347					
		Preamble T	ype : Short Preamble 👻					
		Radio Power (Perce	ent): 100% 🚩					
		HT20/40 Coexiste	nce: 💿 Enabled 🔘 D	isabled				
	WPS Setup							
		PIN of the rou	iter :					
		Enable V	/PS: 🔽					
		Disable	PIN:					
		Keep current configuration : Access Control List						
	Access Control L							
	ACL Setup							
			Apply Changes					

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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.

Here is the description of every setup item:

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.

Wireless Access Control Mode	
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	r			
MBSSID	This page is used to c	onfigure the parameters f	for wireless repeater		
WPS			e displayed in the list belo	w.Select one item, and cl	ick "Next".
Wireless Advanced	Wireless Repeate	r Setup			
Wireless Repeater					
WDS		_	Repeater Enabled(D		
			mode will be set to "n the repeater is enable		
		SSID of AP			
			Site Survey		
			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 got IP address from the upstream AP.

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

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

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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 with in 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.

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

	Setup	Wireless	Advanced	Maintenance	Status			
Wireless Basics	WDS Settings							
MBSSID	Wireless Distribution	System uses wireless media	to communicate with oth	her APs, like the Ethernet	does. To do this you			
WPS	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							
Wireless Advanced	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 Repeater								
WDS	WDS Configurati	ion						
	MA Current WDS AP	C Address	DS Enabled	:				
		MAC Address	Cor	mment	Select			
			e Selected Dele	ete All				
	WDS Security Se	tup						
		incryption: None V						
			Apply Changes					

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 web management interface, and the following message will be displayed on your web browser:

	Setup	Wireless	Advanced	Maintenance	Status
Access Control List	WAN ACL Config	uration			
Port Triggering	Entries in this ACL tab	le are used to permit cert	ain types of data packets	from Internet network to	the Gateway, Using
DMZ			g or restricting the Gatew		
URL Block					
IP/Port Filter	ACL Settings				
MAC Filter		WAN Sett	ing: WAN	*	
DOS Settings		Services Allow	ved:		
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, 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 netwo	rk to the Gateway. Using
DMZ		l can be helpful in securing			te end outerray. Comp
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					
	Current ACL Tab	le			
	Select	IP Address/II	iterface	Service	Port 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.

Access Control List Port Triggering				Advance	u	Maintenance	Status
Port Triggering	Port Triggering						
Fort Higgening	Entries in this table are	e used to restrict o	ertain types	of data pac	kets from vo	our local network to	Internet through the
DMZ	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.						
URL Block							
IP/Port Filter	Port Triggering S	tatus					
MAC Filter	Nat Por	t Trigger: 🔘 Er	nable 💿 Dis	able			
DOS Settings							
Dynamic DNS				Apply Chang	les		
QoS Setup							
UPnP	Application Type						
Routing	Osual Application	n	Select One		*		
Virtual Server	Name:						
	Start Match End Mat Port Port	Protocol UDP	Start Relate Port	End Relate Port	UDP		

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	e DMZ host contains devi	ces accessible to Internet		
URL Block	servers, SMTP (e-mail) servers and DNS servers			
IP/Port Filter	BHZ Or of course to				
MAC Filter	DMZ Configuration	on			
DOS Settings		Enable DMZ			
Dynamic DNS	DMZ Host IF	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 d	This page is used to configure the filtered keyword. Here you can add/delete filtered keyword.					
DMZ							
URL Block	URL Blocking Car	ability					
IP/Port Filter			2				
MAC Filter	UKL BIOCKING	Capability: 💿 Disable	Enable				
DOS Settings			Apply Changes				
Dynamic DNS			Apply changes				
QoS Setup	Keywords						
UPnP		Keyword:					
Routing							
Virtual Server		AddKeyword	Delete Selecte	d Keyword			
	URL Blocking Table	URL Blocking Table					
	Select		Filter	ed 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→IP/Port Block", 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	n your local network to Inte	ernet through the			
DMZ			ecuring or restricting your					
URL Block								
IP/Port Filter	Default Action S	tatus						
MAC Filter	Outgoing Defau	Ilt Action: Permit	Deny					
DOS Settings	Incoming Defau	Ilt Action: 🔿 Permit 🤅	Deny					
Dynamic DNS								
QoS Setup	Rule Configurati	on						
UPnP	Proto	col: IP 🗸						
Routing	Rule Act	ion: 💿 Permit 🔘 De	env					
Virtual Server	Direct	ion: Upstream 💌						
	Source IP Addr	ess:	Ма	sk Address: 255.255.25	5.255			
	Dest IP Addr	ess:	Ма	sk Address: 255.255.25	5.255			
	SP	ort:		DPort:				
	Ena	ble: 🔽						
		A	pply Changes Re	eset				
	Current Filter Ta	ble						
	Rule Protocol	Source IP/Mask	SPort Dest IP/Mas	k DPort State D	Direction Action			

Parameter	Description
Default Action	Select Deny or Permit.
Status	Select Deny of Fernit.
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.
DPort	Specify the destination port range that will be affected by
	this rule.
Enable	Check this box to 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	your local network to Int	ernet through the			
DMZ		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.						
URL Block								
IP/Port Filter	Default Policy							
MAC Filter	Outgoing Defa	ault Policy: 🔘 Deny 🤇	Allow					
DOS Settings	Incoming Defa	ault Policy: O Deny	Allow					
Dynamic DNS			Apply Changes					
QoS Setup								
UPnP	Add Filter							
Routing		Direction: Outgoing V						
Virtual Server		Action: Deny 	Allow					
	So	ource MAC:	(ex. 00E086710502)					
	Destina	Destination MAC: (ex. 00E086710502)						
			Add					
	Current MAC Filt	er Table						
	Select	Direction S	Durce 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 "depiahof-service" (DoS) attack is characterize	ed by an explicit attempt b	v backers to prevent legit	imate users of a
DMZ		service from using that service.			
URL Block					
IP/Port Filter	DoS Configuratio	n			
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 PC	ortScan	Low 🗡 Sensitiv	ity	
	ICMP Smur	F			
	IP Land				
	IP Spoof				
	IP TearDro	0			
	PingOfDeat	h			
	TCP Scan				
	TCP SynWit	hData			
	UDP Bomb				
	Select ALL	Clear ALL			
	Enable Sou	rce IP Blocking	300 Block tir	ne (sec)	
	Apply Changes	1			
	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	nfiguration	-		
Port Triggering	This page is used to (configure the Dynamic DI	IS address from Oray, No-II	P DynDNS org and TZO H	lere you can
DMZ	Add/Remove to confi				
URL Block					
IP/Port Filter	DDNS Configurat	ion			
MAC Filter		Enable:			
DOS Settings	DDNS	provider: DynDNS.org	*		
Dynamic DNS	H	lostname:			
QoS Setup					
UPnP	Account Settings:	Username:			
Routing		Password:			
Virtual Server		Passworu:			
			Add Remove		
	Dynamic DDNS Ta	able			
	Select	State S	Service Ho	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.

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Table 1800-209-3444 (Toll Free)



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					
Port Triggering	This page is used to (configure QoS bandwidth	and rules			
DMZ		configure Quo banamaci				
URL Block	QoS Setup					
IP/Port Filter		dwidth(0, up of				
MAC Filter	l	UP Stream 0	kbps Dow	n Stream 0 kbps		
DOS Settings						
Dynamic DNS	Auto Traffic Sh	aping 🔄				
QoS Setup			Apply]		
UPnP						
Routing	QoS Rules					
Virtual Server	Protocol Source	Protocol Source Dest Source IP Dest IP Garanted Bandwidth (Kbps) Max Bandwidth(Kbps) Delete				
	Protocol Port	Port Source IP	Dest IP	Up Floor Down Floor	Up Ceiling Down Ceiling	Delete
			Add	lete		

Here is the description of every setup item:

Parameter	Description
Up Stream	The upload speed through the WAN port.
Down Stream	The download speed through the WAN port.
Auto Traffic Shaping	Check this box to to enable the Auto Traffic Shaping features; uncheck to disable it.
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 Configurat	tion			
Port Triggering	This page is used to	configure UPnP. The syste	m acts as a daemon when	vou enable LIPnP.	
DMZ					
URL Block	UPnP Configurat	ion			
IP/Port Filter			A		
MAC Filter		UPnP: 🔘 Disable	 Enable 		
DOS Settings	Current UPnP Ta	bl.			
Dynamic DNS	Current OPhP Ta	ble			
QoS Setup	Active Prot	tocol Internal Po	rt External Port	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 Configur	ation			
Port Triggering			mation. Here you can add,	delete ID routes	
DMZ		oningure and routing into	macioni ficice you can adaj		
URL Block	Host				
IP/Port Filter		Fachle 🖂			
MAC Filter	Dr	Enable 🔽			
DOS Settings					
Dynamic DNS		Subnet Mask			
QoS Setup		Next Hop			
UPnP		Metric 2			
Routing	Add Route	Update	Delete Selected	Delete All Sh	now Routes
Virtual Server			Delete Selected		low Rouces
	Static Route Tab	e			
	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 same destination exist, the route with the lowest metric is chosen.		



Static route table

Static Route Table							
Max rule number: 32							
Select	State	Destination	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 next hop IP.
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, so others can access the server through the Gateway.					
DMZ	The page allows you to coming virtual serveryso others can access the server through the dateway.					
URL Block	Service Type					
IP/Port Filter						
MAC Filter		vice Name AUTH	*			
DOS Settings	O 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 Server Forwarding Table					
	Current Virtual S	erver Forwarding Ta	Die			
	ServerName Protocol Local IP Address Local Port WAN Port State Act					

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	Reboot/Reset						
Firmware Upgrade	This page is used to r	This page is used to reboot your system with current setting or reset configuration to default setting.						
Backup/Restore		cooce your system mare			·9·			
Password	Reboot/Reset Sy	Reboot/Reset System						
Time and Date				1				
System Log	Reboot							
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", be	elow 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 cor	nfiguration to default settir	a a a a a a a a a a a a a a a a a a a
Backup/Restore		cooc your system men e			·9·
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 \rightarrow Firmware Upgrade", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status			
Reboot	Upgrade Firmwar	Upgrade Firmware						
Firmware Upgrade	This page allows you	This page allows you upgrade the Wireless Router firmware to new version. Please note, do not power off the device during the upload because it may crash the system.						
Backup/Restore	during the upload bed							
Password	Note:System will rebo	Note:System will reboot after file is uploaded.						
Time and Date	Colort File							
System Log	Select File Browse							
Diagnostics-Ping								
Diagnostics-Traceroute	Automatically reset default after firmware upgraded							
			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.
- ³ 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→Backup/Restore", below given screen will be displayed.

	Setup	Wireless	Advanced	Maintenance	Status		
Reboot	Backup/Restore	Backup/Restore Settings					
Firmware Upgrade	This page allows you	This page allows you backup and restore Settings.					
Backup/Restore			<u> </u>				
Password	Save Settings To	Save Settings To File					
Time and Date							
System Log		Save					
Diagnostics-Ping							
Diagnostics-Traceroute	Load Settings Fr	Load Settings From					
		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	User Account Configuration						
Firmware Upgrade	This page is used to a	add user account to acces	s the web server of Wirele	ess Router. Empty user nar	me or password is not			
Backup/Restore	allowed.							
Password]							
Time and Date	Configuration							
System Log	u	lser Name:						
Diagnostics-Ping		Privilege: User 💌						
Diagnostics-Traceroute	Old	Password:						
	New	Password:						
	Confirm	Password:						
	Add Modify Delete Reset User Account Table							
	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 \rightarrow 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 g	This page is used to configure the system time and Network Time Protocol(NTP) server.						
Backup/Restore		Here you can change the settings or view some information on the system time and NTP parameters.						
Password								
Time and Date	System Time							
System Log	Sys	tem Time: 1970 Year	Jan 💙 Month 1 Da	y 0 Hour 13 min 57	7 sec			
Diagnostics-Ping	Daylight Savi			, ,				
Diagnostics-Traceroute								
			Apply Changes Re	set				
	NTP Configuratio	n:						
	State: 💿 D	isable 🔘 Enable						
	Server: time.	windows.com						
	Server2:							
	Interval: Every	1 hours						
		+05:30) Chennai, Kolkata, Mu	mbai, New Delhi	\vee				
	GMT time: Thu Jan	n 10:13:57 1970						
			Analy Channes D					
			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.



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 g	display the system event l	og table. By checking Error	or Notice (or both) will se	et the log flag. By			
Backup/Restore		This page is used to display the system event log table. By checking Error or Notice (or both)will set the log flag. By clicking the ">> ", it will display the newest log information below.						
Password								
Time and Date	Setting							
System Log	Error:	N	otice:					
Diagnostics-Ping								
Diagnostics-Traceroute	Apply Changes	Reset						
	Event Log Table	Event Log Table						
	9	Save Log to File	Clean Log Table					
	blo		> >> New					
	UIA		New					
	Time Index	Tune	Log I	formation				
	Time Index	Туре	Log II	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 p	bing						
Backup/Restore	This page is used to p							
Password	Host	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 network 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	This page is used to traceroute diagnostic.					
Backup/Restore							
Password	Traceroute						
Time and Date							
System Log		Host					
Diagnostics-Ping	Num	berOfTries 3					
Diagnostics-Traceroute		Timeout 5000 ms					
		Datasize 38 Byte	es				
		DSCP 0					
	Max	HopCount 30					
		Interface any ⊻					
	traceroute	Show Result					

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.



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			
Device Info	Wireless Router	Wireless Router Status						
Active Client Table	This page shows the	This page shows the current status and some basic settings of the device.						
Statistics	The page anows the current status and some basic sectings of the device.							

There are three submenus under the Status menu: **Device Info, Active Client Table and Statistics**. 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 "Maintenance→Device Info", below given screen will be displayed.

	Setup	Wi	reless	Advanced	Ма	intenance	Status	
ice Info	Wireless Router Status							
ve Client Table	This name shows	the current sta	atus and some basi	r settings of the	device			
istics	The page shows	r and current sta	and some Dasi	e seconds of the	acrice.			
	System							
	o y o ceni							
		Product	Name			DG-HR3400		
		Uptir	me		0 days, 0:0:50			
		Date/Time			Thu Jan 1 0:0:50 1970			
		Firmware	Version			1.00.00		
		Serial Nu	umber			00051D030405		
	LAN Configu	ation						
		IP Add	iress			192.168.2.1		
		Subnet				255.255.255.0		
		DHCP S	erver		Enable			
		MAC Ad	dress		00:05:1D:03:04:05			
	WLAN Config	uration						
		Wire	855			Enabled		
		Mod			AP			
		SSI				DIGISOL		
		Encryp	tion			None		
		Chan	nel			6		
		Broadcast SSID			Enabled			
		WP	s		Enabled			
		Repeater Status			Disconnected			
	WAN Configu	ration						
	Interface	Protocol	IP Address	Gateway	DNS	Status		
	WAN	DHCP	0.0.0.0	0.0.0.0	0.0.00	Link Down(DH	CP Client)	
				Refresh				



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	This table shows IP address, MAC address for each client.								
Statistics										
	Active Wired Clie	Active Wired Client Table								
	Name	Name IP Address MAC Address								
	Unknov	/n	192.168.2.147	c8:be:19:d	2: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 to network interface.

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

	Setup	Wireless	5	Advanced	Maintenan	ce	Status	
evice Info	Statistics							
ctive Client Table	This page shows t	he packet statistics f	or transmission	and reception rec	arding to potwork i	ntorfaco		
atistics				and reception reg	arding to network i	interface.		
	Statistics							
	Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop	
	LAN1							
	LAN2	2029	0	0	4310	0	0	
	LAN3	2023						
	LAND							
	LAN4							
		0	0	0	0	0	0	



5. Appendix

• Hardware Specifications

- Flash: 2MB
- SDRAM: 16MB
- Antenna: Two 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
- IEEE802.3 11b, IEEE802.11g, IEEE802.11n

• Frequency Band

- 2.4000 ~ 2.4835 GHz

• WLAN Data Transfer Rates

- IEEE802.3 11b up to 11Mbps
- IEEE802.11g up to 54Mbps
- IEEE802.11n up to 300Mbps

• Wireless Output Power

- IEEE802.3 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

1111111111111111111111111111100000000. Therefore sometimes a network mask can also be described simply as "x" number of leading 1's.

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, 11111111.11111111111110000.00000000 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	
Н.323	ТСР	1720	
SNMP	UDP	161	
SNMP Trap	UDP	162	
НТТР	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 InterNIC).



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

