

Regulatory notes and statements

Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

·Onboard airplanes, or

 \cdot In an explosive environment, or

 \cdot In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

Regulatory Information/disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

USA-FCC (Federal Communications Commission) statement

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of this device.

FCC Radio Frequency Exposure statement

This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65 and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this Wireless LAN device is far below the FCC radio frequency exposure limits. Nevertheless, this device shall be used in such a manner that the potential for human contact during normal operation is minimized.

When nearby persons has to be kept to ensure RF exposure compliance, in order to comply with RF exposure limits established in the ANSI C95.1 standards, the distance between the antennas and the user should not be less than 20 cm.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the distance between the equipment and the receiver.

3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/TV technician for help.

Export restrictions

This product or software contains encryption code that may not be exported or transferred from the US of Canada without an approved US Department of Commerce export license.

Safety Information

Your device contains a low power transmitter. When device is transmitted it sends out radio frequency (RF) signal.

CAUTION: To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Mark Warning

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

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1, EN 301 489-17 and EN 55024 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328-2 has been conducted. These are considered relevant and sufficient.

CE in which Countries where the product may be used freely:

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.



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ABOUT THIS GUIDE

Congratulations on your purchase of this IEEE 802.11b/g/n Wireless Broadband Router. This integrated access device combines Internet gateway functions with wireless LAN and Fast Ethernet switch. It provides a complete solution for Internet surfing and office resource sharing, and it is easy to configure and operate for every user.

Purpose

This manual discusses how to install the IEEE 802.11b/g/n Wireless Home Router.

Terms/Usage

In this guide, the term "the WLAN Router" refers to your IEEE 802.11b/g/n Wireless Home Router.

Overview of this User's Guide

Introduction. Describes the IEEE 802.11b/g/n Wireless Home Router and its features.

Unpacking and Setup. Helps you get started with the basic installation of the IEEE 802.11b/g/n Wireless Home Router.

Identifying External Components. Describes the front panel, rear panel and LED indicators of the IEEE 802.11b/g/n Wireless Home Router.

Connecting the WLAN Router. Tells how you can connect the IEEE 802.11b/g/n Wireless Home Router to your xDSL/Cable Modem.

Technical Specifications. Lists the technical (general, physical and environmental, performance and Routers settings) specifications of the IEEE 802.11b/g/n Wireless Home Router.

Note: Run the CD and follow the steps in the Quick Installation Guide first to setup your router. If you still have problems after doing so then proceed to the following paragraphs to install the router with web-based configuration.

INTRODUCTION

With the explosive growth of the Internet, accessing information and services at any time, day or night has become a standard requirement for most people. The era of the standalone PC is waning. Networking technology is moving out of the exclusive domain of corporations and into homes with at least two computers.

This integrated access device combines Internet gateway functions with wireless LAN and Fast Ethernet switch. Designed for the business and home, it saves you the cost of installing a separate modem and ISP line for each computer, while providing ready connection for the users, with or without the network wires.

Broadband network access is also gaining ground. However, allowing more than two computers to access the Internet at the same time means less affordable, higher costs. Thus, there is a need to share one public IP address over a single Internet connection to link the home with the Internet.

The scarcity of IP addresses and using a shared Internet connection through an Internet sharing device can solve high network access costs. All linked computers can make full use of broadband capabilities over such a device.

This device not only comes equipped with a wide range of features, but also can be installed and configured right out of the box. This device supports a simple local area network and Internet access share, offering great cost savings.

The local area network connects home computers while also allowing any of the computers to access the Internet, share resources, or play online games—the basis of the family computing lifestyle.

Applications:

Broadband Internet access:

Several computers can share one high-speed broadband connection through wireless or wired (WLAN, LAN and WAN-Internet).

Resource sharing:

Share resources such as printers, scanners and other peripherals.

File sharing:

Exchange data, messages, and distribute files thus making good use of hard disk space.

Online gaming:

Through the local area network, online gaming and e-commerce services can be easily setup.

Firewall:

A built-in firewall function — for security and anti-hacking systems.

Supported Features:

- High speed data transfer rate
- > NAT for sharing 1 IP address to all LAN/WLAN users.
- > PPPoE and PPTP protocol for Dial-Up ADSL.
- ▶ 64/128 bit WEP Encryption
- ▶ WPA-PSK, WPA2-PSK, WPA, WPA2 security
- DHCP Server / Client.
- ➢ UPnP (Universal Plug and Play).
- WPS (Wi-Fi Protected Setup)
- Virtual Server mapping.
- ➢ MAC filtering.
- Protocol/IP filtering
- Domain/URL filtering
- > DDNS
- Upgradeable firmware for future function.
- Simple installation using Setup Wizard.
- Easy configuration via Web Browser.

UNPACKING AND SETUP

This chapter provides unpacking and setup information for the IEEE 802.11b/g/n Wireless Home Router.

Unpacking

Open the box of the WLAN Router and carefully unpack it. The box should contain the following items:

- TEW-632BRP Wireless N Home Router
- Easy Go Installation CD
- Multi-Language Quick Installation Guide
- 2 x 2dBi gain dipole antenna
- External power adapter
- 1.5m (5ft) Cat.5 Ethernet Cable

If any item is found missing or damaged, please contact your local reseller for replacement.

Setup

The setup of the WLAN Router can be performed properly using the following methods:

- The power outlet should be within 1.82 meters (6 feet) of the Broadband Router.
- Visually inspect the DC power jack and make sure that it is fully secured to the power adapter.
- Make sure that there is proper heat dissipation and adequate ventilation around the Broadband Router. Do not place heavy objects on the Broadband Router.
- Fix the direction of the antennas. Try to place the Wireless Router in a position that can best cover your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.

Front Panel

The figure below shows the front panel of the IEEE 802.11b/g/n Wireless Home Router.



Front Panel

POWER

This indicator lights green when the hub is receives power, otherwise it is off.

SYSTEM

This indicator blinking green means the WLAN Router is working successfully. Otherwise, this indicator always on or off means the function of the WLAN Router has failed.

WAN (Link/ACT)

The indicators light green when the WAN port is connected to a xDSL/Cable modem successfully.

The indicators blink green while the WAN port was transmitting or receiving data from the xDSL/Cable modem.

WLAN (ACT)

This indicator lights green when there are wireless devices connected and transmitting data to the WLAN Router.

LAN (Link/ACT)

These indicators light green when the LAN ports were connected successfully.

These indicators blinking green while the LAN ports were accessing data.

Rear Panel

The figure below shows the rear panel of the IEEE 802.11b/g/n Wireless Home Router.



Rear Panel

Antenna

There are two 2dBi gain antennas on the rear panel for wireless connection.

LAN (1-4)

Four RJ-45 10/100Mbps Auto-MDIX ports for connecting to either 10Mbps or 100Mbps Ethernet connections.

WAN

In the four port broadband Router, there is an RJ-45 10/100Mbps Auto-MDIX port for the WAN that connects to the xDSL/Cable modem for Internet connectivity.

POWER

Plug the power adapter to this power jack

RESET

Use a pin-shaped item to push to reset this device to factory default settings. It will be a useful tool when the manager forgot the password to login, and needs to restore the device back to default settings.

Side Panel

The figure below shows the side panel of the IEEE 802.11b/g/n Wireless Home Router.



WPS (side panel)

Push this button to execute the Wi-Fi Protected Setup process.

Hardware connections Connecting the WLAN Router



..... 300Mbps, share multimedia throughout the house

- 1. Plug in one end of the network cable to the WAN port of the WLAN Router.
- 2. Plug in the other end of the network cable to the Ethernet port of the xDSL or Cable modem.
- 3. Use another network cable to connect to the Ethernet card on the computer system; the other end of the cable connects to the LAN port of the WLAN Router. Since the IEEE 802.11b/g/n Wireless Home Router has four ports, you can connect up to four computers directly to the unit. Then you do not have to buy a switch to connect these computers since one WLAN Router functions both as a connection-sharing unit and as a switch.

Check the installation

The control LEDs of the WLAN Router are clearly visible and the status of the network link can be seen instantly:

- 1. With the power source on, once the device is connected to the broadband modem, the Power, System, LAN, WLAN and WAN port LEDs of the WLAN Router will light up indicating a normal status.
- 2. When the WAN Port is connected to the ADSL/Cable modem, the WAN LED will light up.
- 3. When the LAN Port is connected to the computer system, the LAN LED will light up.

PC NETWORK TCP/IP SETTING

The network TCP/IP settings differ based on the computer's operating system (Win95/98/ME/NT/2000/XP) and are as follows.

Windows 95/98/ME

- 1. Click on the "Network neighborhood" icon found on the desktop.
- 2. Click the right mouse button and a context menu will be show.
- 3. Select "Properties" to enter the TCP/IP setting screen.
- 4. Select "Obtain an IP address automatically" on the "IP address" field.

CP/IP Properties					?
Bindings		/anced	1	NetBIO	
DNS Configuration	Gateway	WINS C	Configurati	ion IP.4	Address
An IP address can t If your network doe: your network admin the space below.	s not autor	matically a	ssign IP a	addresses	, ask
		tomatically	}		
[P Address:	10	. 1 .	1.11		
S <u>u</u> bnet Mask	255	.255.2	255. 0		
			OK	Ca	ancel

5. Select "Disable DNS" in the "DNS" field.

Bindings NS Configuration G		anced WINS () Configura	NetBI tion IF	
Disable DNS					
C Enable DNS					
Host: XX		Doma	in:		
DNS Server Search	ı Order -				
	•		<u>A</u> da		
168.95.192.1 203.66.99.251			<u>R</u> emo	Ve	
		2			
Domain Suffix Sear	ch Order			- r	_
		- 1	Ado	_	
		4	Remo	VB	
1					

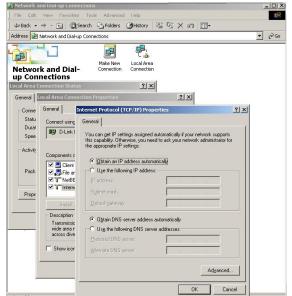
6. Select "None" for the "Gateway address" field.

Bindings		anced		etBIOS
DNS Configuration	Gateway	WINS Conf	iguration	IP Address
The first gateway i The address order machines are used <u>N</u> ew gateway:	in the list wi		r in which	
Installed gatewa	ys:			
_ <u>Installed gatewa</u>	ys:	<u>E</u> emo	we	

Windows 2000

Double click on the "**My Computer**" icon on the desktop. When "**My Computer**" window opens, open the "**Control Panel**" and then open the "**Network dialup connection**" applet. Double click on the "Local area network connection" icon. Select "Properties" to enter the TCP/IP setting window.

- 1. In the "Local area network status" window, click on "Properties."
- 2. In the "Local area network connection" window, first select TCP/IP setting and then select "Properties."
- 3. Set both "IP address" and "DNS" to Automatic configuration.



Windows XP / Vista

Point the cursor and click the right button on the "My Network Place" icon. Select "properties" to enter the TCP/IP setting window.

- 1. Set "IP address" to "Obtain an IP address automatically."
- 2. Set "DNS" to "Obtain DNS server address automatically."

this cap	Alternate Cor n get IP setting ability. Otherw ropriate IP sett	gs assigned a lise, you need					
~	otain an IP ado						
-O U <u>s</u>	e the following	g IP address:					
IP ac	ldress:						-
S <u>u</u> br	iet mask:				8	- 65	
<u>D</u> efa	ult gateway:					-15	
0 O	ptain DNS serv	/er address a	utomatical	<u>V</u>			
OUs	e the following	g DNS server	addresse	s:			
Prefe	rred DNS serv	/er:		175		- 20	
Alten	nate DNS serv	/er:		3	17	- 27	
					1	Ad	vanced

CONFIGURATION

First make sure that the network connections are functioning normally.

This WLAN Router can be configured using Internet Explorer 5.0 or newer web browser versions.

Login to the WLAN Router through Wireless LAN

Before configuring the WLAN Router through WLAN, make sure that the SSID, Channel and the WEP is set properly.

The default setting of the WLAN Router that you will use:

- ✓ SSID: TRENDnet
- ✓ Channel: 6
- ✓ Security: disable

Login to the WLAN Router

Before you configure this device, note that when the WLAN Router, make sure the host PC must be set on the **IP subnet** that can be accessed by the xDSL/Cable modem. For example, when the default network address of the xDSL/Cable modem Ethernet interface is 192.168.10.x, then the host PC should be set at 192.168.10.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

Using the Web Browser

- 1. Open Internet Explorer 5.0 or above Internet browser.
- 2. Enter IP address <u>http://192.168.10.1</u> (the factory-default IP address setting) to the URL web address location.

Address 🗿 http://192.168.10.1

3. When the following dialog box appears, enter the user name and password to login to the main configuration window, the default username and password is *"admin"*.



Setup Wizard

Setup wizard is provided as part of the web configuration utility. User can simply follow the step-by-step process to get the wireless Router configuration ready to run in 6 easy steps by clicking on` the "Wizard" button on the function menu. The following screen will appear. Please click "Next" to continue.

Wireless N Home Router	
Step 1. Set your new password Step 2. Choose your time zone Step 3. Set LAN connection and DHCP Server Step 4. Set internet connection Step 5. Set wireless LAN connection Step 6. Restart Next >	
Display wizard next time?	

Step 1: Set your new password

Setting the new admin password of the WLAN Router. Please click "Next" to continue.

Wireless N Home	Router	
Set Password		
Password	•••••	
Verify Password	••••••	
< Ba	ack Next> Exit	

Step 2: Choose time zone

Select the time zone from the drop down list. Please click "Next" to continue.

Wireless N Home Router	
Choose Time Zone	
(GMT-08:00) Pacific Time (US & Canada)	
<back next=""> Exit</back>	

Step 3: Set LAN connection and DHCP server

Set user's IP address and mask. The default IP is 192.168.10.1. If the user chooses to enable DHCP, please click "Enable". DHCP enabled is able to automatically assign IP addresses. Please assign the range of IP addresses in the fields of "Range start" and "Range end". Please click "Next" to continue.

Wireless N Home	Router
Set LAN & DHO	CP Server
LAN IP Address	192.168.10.1
LAN Subnet Mask	255.255.255.0
DHCP Server	⊙ Enable ○ Disable
Range Start	192.168.10.101
Range End	192.168.10.200
< B	ack Next > Exit

Step 4: Set Internet connection

The WLAN Router will attempt to auto detect your Internet Connection.

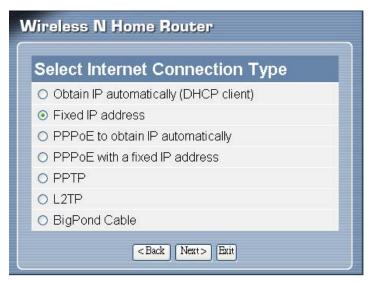
Obtain IP automatically (DHCP client):

V	Vireless N Home Router	
	Select Internet Connection Type	
	⊙ Obtain IP automatically (DHCP client)	
	O Fixed IP address	
	O PPPoE to obtain IP automatically	
	O PPPoE with a fixed IP address	
	O PPTP	
	O L2TP	
	O BigPond Cable	
	<back next=""> Exit</back>	J

If the user has enabled DHCP server, choose "Obtain IP automatically (DHCP client)" to have the WLAN Router assign IP addresses automatically.

	N Home Router
Set Dyn	amic IP Address
Host Name	TRENDnet (optional)
MAC	00 _ 89 _ 89 _ 76 _ 54 _ 33 (optional) Clone MAC Address
	<back next=""> Exit</back>

Fixed IP Address:



If the Internet Service Provider (ISP) assigns a fixed IP address, choose this option and enter the assigned WAN IP Address, WAN Subnet Mask, WAN Gateway Address and DNS Server Addresses for the WLAN Router.

Wireless N Home	Router	
Set Fixed IP Ad	dress	
WAN IP Address	0.0.0.0	
WAN Subnet Mask	0.0.0.0	
WAN Gateway Address	0.0.0.0	
DNS Server Address 1	0.0.0.0	
DNS Server Address 2	0.0.0.0	
< B	<back next=""> Exit</back>	

PPPoE to obtain IP automatically:

N	Wireless N Home Router	
	Select Internet Connection Type	
	O Obtain IP automatically (DHCP client)	
	O Fixed IP address	
	⊙ PPPoE to obtain IP automatically	
	O PPPoE with a fixed IP address	
	O PPTP	
	O L2TP	
	O BigPond Cable	
	<back next=""> Exit</back>	

If connected to the Internet using a PPPoE (Dial-up xDSL) connection, and the ISP provides a User Name and Password, then choose this option and enter the required information.

Wireless N Home Router		
Set PPPoE to obt	ain IP automatically IP	
User Name		
Password	••••••	
Verify Password	••••••	
<₽	ack Next> Exit	

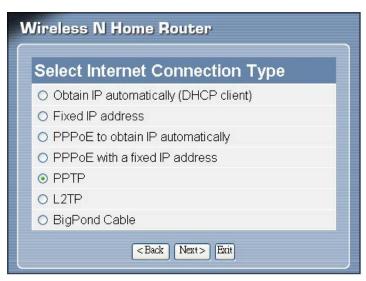
PPPoE with a fixed IP address:

Wireless N Home Router	
Select Internet Connection Type	
O Obtain IP automatically (DHCP client)	
○ Fixed IP address	
O PPPoE to obtain IP automatically	
PPPoE with a fixed IP address	
O PPTP	
O L2TP	
O BigPond Cable	
<back next=""> Exit</back>	

If connected to the Internet using a PPPoE (Dial-up xDSL) connection, and the ISP provides a User Name, Password and a Fixed IP Address, choose this option and enter the required information.

Wireless N Home Router		
Set PPPoe with a fixed IP Address		
User Name		
Passward		
Verify Password	•••••	
IP Address	0.0.0.0	
< Back Next > Exit		

PPTP:



If connected to the Internet using a PPTP xDSL connection, enter your IP, Subnet Mask, Gateway, Server IP, PPTP Account and PPTP Password.

Wireless N Home Router	
Set PPTP Clier	nt
	⊙ Dynamic IP <mark>○</mark> Static IP
My IP	172.21.81.177
Subnet Mask	255.255.240.0
GateWay	0.0.0.0
Server IP	
PPTP Account	
PPTP Password	••••••
Retype Password	••••••
<back next=""> Exit</back>	

<u>L2TP:</u>

1	Wireless N Home Router	
	Select Internet Connection Type	
	O Obtain IP automatically (DHCP client)	
	O Fixed IP address	
	O PPPoE to obtain IP automatically	
	O PPPoE with a fixed IP address	
	O PPTP	
	⊙ L2TP	
	O BigPond Cable	
	<back next=""> Exit</back>	

If connected to the Internet using a L2TP (Dial-up xDSL) connection and the ISP provides a Server IP, Account and Password information, choose this option and enter the required information.

Wireless N Home Router		
Set L2TP Client	1	
	💿 Dynamic IP 🔘 Static	IP
My IP	0.0.0.0	
Subnet Mask	0.0.0.0	
Gateway	0.0.0.0	
Server IP		
L2TP Account		
L2TP Password	•••••	•••••
Retype Password	••••••	•••••
<back next=""> Exit</back>		

Big Pond Cable(Australia):

Wireless N Home Router	
Select Internet Connection Type	
O Obtain IP automatically (DHCP client)	
O Fixed IP address	
O PPPoE to obtain IP automatically	
O PPPoE with a fixed IP address	
O PPTP	
O L2TP	
 BigPond Cable 	
<back next=""> Exit</back>	

If your ISP is Big Pond Cable, the ISP will provide a User Name, Password, Authentication Server and Login Server IP (Optional). Choose this option and enter the required information.

Wireless N Home Router			
Set BigPond			
Please set your Big	Pond Cable data then press Next to continue.		
User Name	User Name		
Password	•••••		
Verify Password	•••••		
Auth Server	Sm-SerVer 👻		
Login Server IP	(optional)		
<back next=""> Exit</back>			

Step 5: Set Wireless LAN connection

Click "Enable" to enable Wireless LAN. If user enables the Wireless LAN, type the SSID in the text box and select a communications channel. The SSID and channel must be the same as wireless devices attempting to connect to the WLAN Router.

Step 6: Setup completed

The Setup wizard is now completed. The new settings will be effective after the WLAN Router restarts. Please click "Restart" to reboot the WLAN Router. If user does not want to make any changes, please click "Exit" to quit without any changes. User also can go back to modify the setting by clicking "Back".

Wi	reless N Home Router
E	Setup Completed
	lick "Restart" button to save the settings and restart Wireless outer.
	< Back Restart Exit

Advanced configuration

Main

The screen enables users to configure the LAN & DHCP Server, set WAN parameters, create Administrator and User passwords, and set the local time, time zone, and dynamic DNS.

LAN & DHCP Server

This page allows the user to configure LAN and DHCP properties, such as the host name, IP address, subnet mask, and domain name. LAN and DHCP profiles are listed in the DHCP table at the bottom of the screen.

	DNET	W	ireless N Home Router TEW-632BRF
Main • LAN & DHCP Server	LAN & DHCP	Server	HELP
- WAN	Host Name	TRENDnet	
 Password Time 	IP Address	192.168.10.1	
• Dynamic DNS	Subnet Mask	255.255.255.0	
Wireless	DHCP Server	Enabled O Disabled	
Status	Start IP	192.168.10.101	
Routing	End IP	192.168.10.200	
Access	Domain Name		
Management	Lease Time	1 Week 🐱	
Tools		Cancel Apply	
Wizard			
	Host Name	IP Address	MAC Address
	192.168.10.101	EDDY-X32	00:40:F4:C1:06:AE

Host Name: Type the host name in the text box. The host name is required by some ISPs. The default host name is "AP-Router."

IP Address: This is the IP address of the WLAN Router. The default IP address is 192.168.10.1.

Subnet Mask: Type the subnet mask for the WLAN Router in the text box. The default subnet mask is 255.255.255.0.

DHCP Server: Enables the DHCP server to allow the WLAN Router to automatically assign IP addresses to devices connecting to the LAN. DHCP is enabled by default.

All DHCP client computers are listed in the table at the bottom of the screen, providing the host name, IP address, and MAC address of the client.

Start IP: Type an IP address to serve as the start of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

End IP: Type an IP address to serve as the end of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

Domain Name: Type the local domain name of the network in the text box. This item is optional.

Lease Time: The lease time specifies the amount of connection time a network user be allowed with their current dynamic IP address.

WAN

This screen enables users to set up the WLAN Router WAN connection, specify the IP address for the WAN, add DNS numbers, and enter the MAC address.

	DNET		Wireless	N Home Router TEW-632BR
Main • LAN & DHCP Server	WAN			HELP
- <u>WAN</u>	Connection Type	DHCP Client or Fi	ined IP 🐱	
 Password Time 	WAN IP Obtain IP Automatically			
• Time • Dynamic DNS		O Specify IP	IP Address	172.21.81.177
Wireless			Subnet Mask	255.255.240.0
Status			Default Gateway	0.0.00
Routing	DNS 1	0.0.0.0		
Access	DNS 2	0.0.0.0		
Management	MAC Address	MAC Address 00 - 89 - 89 - 76 - 54 - 33 Clone MAC Address		
Tools Wizard		Cancel Apply]	
			Conwight © 2007	TRENDnet. All Rights Reserve

Connection Type: Select the connection type, either DHCP client, Fixed IP, PPPoE, PPTP, L2TP or BigPond Cable from the drop-down list.

WAN IP: Select whether user wants to specify an IP address manually, or want DHCP to obtain an IP address automatically. When Specify IP is selected, type the IP address, subnet mask, and default gateway in the text boxes. User's ISP will provide with this information.

DNS 1/2: Type up to three DNS numbers in the text boxes. User's ISP will provide this information.

MAC Address: If required by user's ISP, type the MAC address of the WLAN Router WAN interface in this field.

Password

This screen enables users to set administrative and user passwords. These passwords are used to gain access to the WLAN Router interface.

	DNET "	ireless N Home Router TEW-6328RP
Main • LAN & DHCP Server • WAN	Password Administrator (The login name is "admin")	HELP
• <u>Password</u> • Time • Dynamic DNS	New Password ••••••••••••••••••••••••••••••••••••	
Wireless Status	User (The login name is "user") New Password	
Routing Access Management	Confirm Password Cancel Apply	
Tools		
		ight © 2007 TRENDnet. All Rights Reserved.

Administrator: Type the password the Administrator will use to log into the system. The password must be typed again for confirmation. The Administrator can also authorize users the ability to configure the WLAN Router.

User: Type the password the User will use to log in to the system. The password must be typed again for confirmation.

<u>Time</u>

This screen enables users to set the time and date for the WLAN Router's real-time clock, select properly time zone, and enable or disable daylight saving.

	INET	Wireless N Home Router TEW-6328RP
Main • LAN & DHCP Server	Time	HELP
- WAN	Local Time	Aug/24/2007 06:39:52
• Password	Time Zone	(GMT-08:00) Pacific Time (US & Canada)
• <u>Time</u> • Dynamic DNS	Synchronize the clock with	Manual 🗸
Wireless Status	Default NTP server]
Routing	Set the time	Year 2007 v Month Aug v Day 24 v Hour 06 v Minute 39 v Second 52 v SetTime
Management	Daylight Saving	
Tools		Cancel Apply
Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved

Local Time: Displays the local time and date.

Time Zone: Select the time zone from the drop-down list.

Synchronize the clock with: Select the clock adjustment method form the dropdown list.

Automatic: Automatically adjust the system time from NTP Server.

Manual: Manually adjust the system time when you press the *Set Time* button.

Default NTP server: The Simple Network Time Protocol (SNTP) server allows the WLAN Router to synchronize the system clock to the global Internet through the SNTP Server. Specify the NTP domain name or IP address in the text box.

Set the time: Manually setting the WLAN Router system time, press the *Set Time* button to update the system time.

Daylight Saving: Enables users to enable or disable daylight saving time. When enabled, select the start and end date for daylight saving time.

Dynamic DNS

This synchronizes the DDNS server with your current Public IP address when you are online. First, you need to register your preferred DNS with the DDNS provider. Then, please select the DDNS address in the Server Address and fill the related information in the below fields: Host Name, User Name and Password.

	NET	Wireless N Home Router TEW-632BRP
Main • LAN & DHCP Server	Dynamic DNS	HELP
• WAN	DDNS	○ Enabled ④ Disabled
• Password • Time	Server Address	DynDns.org
Dynamic DNS	Host Name	
Wireless	User Name	
Status	Password	••••••
Routing		Cancel Apply
Access		
Management		
Tools		
Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved.

Wireless

This section enables users to configuration the wireless communications parameters for the WLAN Router.

<u>Basic</u>

This page allow user to enable and disable the wireless LAN function, create a SSID, and select the channel for wireless communications.

	NET	Wireless N Home Router TEW-632BRP
Main	Basic	HELP
Wireless	Wireless	
• <u>Basic</u> • Security	SSID	TRENDnet
 Advanced WiFi Protected Setup 	Channel	6 🗸 (Domain: FCC)
Status	802.11 Mode	Mixed 802.11n and 802.11g
Routing	Channel Width	20 MHz 💌
Access	SSID Broadcast	
Management		Cancel Apply
Tools		
Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved.

Enable/Disable: Enables or disables wireless LAN via the WLAN Router.

SSID: Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN and WAN via the WLAN Router.

Channel: Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the WLAN Router.

802.11 Mode: Select one of the following:

- •Mixed 802.11g and 802.11g Select if you are using both 802.11b and 802.11n wireless clients.
- •Mixed 802.11n, 802.11b, and 802.11g Select if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Channel Width: Select the Channel Width:

- •Auto 20/40 Select if you are using both 802.11n and non-802.11n wireless devices.
- •20MHz This is the default setting with single channel support required by Wi-Fi regulations.

SSID Broadcast: While SSID Broadcast is enabled, all wireless clients will be able to view the WLAN Router's SSID. For security purposes, users may want to disable SSID Broadcast to ensure only authorized clients have access.

<u>Security</u>

	INET	Wireless N Home Router TEW-632BRP
Main	Security	HELP
Wireless	Authentication Type Disable	
• Basic	Cancel Apply Clear	
 <u>Security</u> Advanced 		
WiFi Protected Setup		
Status		
Routing		
Access		
Management		
Tools		
Wizard		
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Authentication Type: The authentication type default is set to open system. There are four options: Disabled, WEP, WPA, WPA2 and WPA-Auto.

WEP Encryption

)NET	Wireless N Home Router TEW-632BRP
Main	Security	HELP
Wireless	Authentication Type	WEP
• Basic	WEP	💿 Open System 🔘 Shared Key
 <u>Security</u> 	Mode	HEX 🖌
 Advanced WiFi Protected Setup 	WEP Key	64-bit 🗸
• WIFI Protected Setup	Key 1	© 00000000
Status	Key 2	00000000
Routing	Key 3	00000000
	Key 4	00000000
Access	Cancel Apply Clear	
Management		
Tools		
Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved.

WEP: Open System and Shared Key requires the user to set a WEP key to exchange data with other wireless clients that have the same WEP key..

Mode: Select the key type: ASCII or HEX

WEP Key: Select the level of encryption from the drop-down list. The WLAN Router supports, 64 and 128-bit encryption.

Key $1 \sim$ Key 4: Enables users to create up to 4 different WEP keys. Manually enter a set of values for each key. Select a key to use by clicking the radio button next to the key.

WPA/WPA2/WPA-Auto Security



If WPA, WPA2 or WPA-Auto EAP is selected, the above screen is shown. Please set the length of the encryption key and the parameters for the RADIUS server.

Cipher Type: Select the cipher type for TKIP or AES encryption, Selected Auto for auto detects the cipher type.

RASIUS Server:

- 1. Enter the IP address, Port used and Shared Secret by the Primary Radius Server.
- 2. Enter the IP address, Port used and Shared Secret by the Secondary Radius Server. (optional)

WPA-PSK/WPA2-PSK Security

If WPA, WPA2 or WPA-Auto PSK is selected.



Cipher Type: Select the cipher type for TKIP or AES encryption, Selected Auto for auto detects the cipher type.

Passphrase: The length should be 8 characters at least.

Advanced

This screen enables users to configure advanced wireless functions.

)NET		Wireless N Home Router TEW-632BRP
Main	Advanced		HELP
Wireless • Basic	Beacon Interval	100	(default:100 msec, range:25~1000)
Security	RTS Threshold	2346	(default:2346, range: 256~2346)
Advanced WiFi Protected Setup	Fragmentation Threshold	2346 only)	(default:2346, range: 1500~2346, even number
Status	DTIM Interval	1	(default:1, range: 1~255)
Routing		Cance	Apply
Access			
Management			
Tools			
Wizard			
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Beacon Interval: Type the beacon interval in the text box. User can specify a value from 25 to 1000. The default beacon interval is 100.

RTS Threshold: Type the RTS (Request-To-Send) threshold in the text box. This value stabilizes data flow. If data flow is irregular, choose values between 256 and 2346 until data flow is normalized.

Fragmentation Threshold: Type the fragmentation threshold in the text box. If packet transfer error rates are high, choose values between 1500 and 2346 until

packet transfer rates are minimized. (NOTE: set this fragmentation threshold value may diminish system performance.)

DTIM Interval: Type a DTIM (Delivery Traffic Indication Message) interval in the text box. User can specify a value between 1 and 255. The default value is 1.

Wi-Fi Protected Setup

This screen enables users to configure the Wi-Fi Protected Setup function.

	ÎNET	Wireless I	N Home Router TEW-632BRP
Main	Wi-Fi Protected	Setup	HELP
Wireless • Basic	WPS	• Enabled • Disabled Apply	
Security	Status	UnConfigured Configured	
 Advanced WiFi Protected Setup 	Self-PIN Number	77548023	
	Client PIN Number	Start PIN	
Status Routing	Push Button Configuration	Start PBC	
Access	Authentication	Encryption	Key
Management	Disabled	None	<u>.</u>
Tools			
Wizard			
		Copyright © 2007 TR	ENDnet. All Rights Reserved.

WPS: Enable or Disable the WPS (Wi-Fi Protected Setup) function

Status: Display the state (Un-configured State/Configured State) information of WPS.

Self-PIN Number: Display the default PIN number of WLAN Router.

Client PIN Number: Type Client PIN number the client uses to negotiate with WLAN Router via WPS protocol. It is only used when users want their station to join Router's network.

Push Button Configuration: Clicking this button will invoke the Push Button Configuration (PBC) method of WPS. It is only used when WLAN Router acts as a Registrar.

Status

This selection enables users to view the status of the WLAN Router LAN, WAN and Wireless connections, and view logs and statistics pertaining to connections and packet transfers.

Device Information

This screen enables users to view the WLAN Router's LAN, Wireless and WAN configurations.

	DNET	Wireless N Home Router TEW-632BRP				
Main	Device Info	ormation HELP				
Wireless Status	Firmware Ve	Firmware Version: 1.00, Wed, 22 Aug 2007				
Device Information	WAN					
• Log	MAC Address	00:89:89:76:54:33				
 Log Setting Statistic 	Connection	DHCP Client Connected DHCP Release DHCP Renew				
• Wireless	IP	172.21.81.177				
Routing	Subnet Mask	255.255.240.0				
Access	Default Gateway	172.21.80.254				
Management	DNS	172.21.1.1,172.21.1.2				
Tools	Wireless					
	Connection	802.11g AP Enable				
Wizard	ESSID	TRENDnet				
	Channel	6				
	Authentication	Disable				
	LAN					
	MAC Address	00:89:89:76:54:32				
	IP Address	192.168.10.1				
	Subnet Mask	255.255.255.0				
	DHCP Server	Enabled DHCP Table				
		Copyright © 2007 TRENDnet. All Rights Reserved				

Firmware Version: Displays the latest build of the WLAN Router firmware interface. After updating the firmware in Tools - Firmware, check this to ensure that the firmware was successfully updated.

WAN: This section displays the WAN interface configuration including the MAC address, Connection status, DHCP client status, IP address, Subnet mask, Default gateway, and DNS.

Wireless: This section displays the wireless configuration information, including the MAC address, the Connection status, SSID, Channel and Authentication type.

LAN: This section displays the LAN interface configuration including the MAC address, IP Address, Subnet Mask, and DHCP Server Status. Click "DHCP Table" to view a list of client stations currently connected to the WLAN Router LAN interface.

Click "*DHCP Release*" to release all IP addresses assigned to client stations connected to the WAN via the WLAN Router. Click "*DHCP Renew*" to reassign IP addresses to client stations connected to the WAN.

Log

This screen enables users to view a running log of Router system statistics, events, and activities. The log displays up to 200 entries. Older entries are overwritten by new entries. The Log screen commands are as follows:

Click "First Page" to view the first page of the log

Click "Last Page" to view the final page of the log

Click "Previous Page" to view the page just before the current page

Click "Next Page" to view the page just after the current page

Click "*Clear Log*" to delete the contents of the log and begin a new log Click "*Refresh*" to renew log statistics

Main	Log		HELP
Wireless	First Page Last F	age Prev	ious Page Next Page Clear Log Refresh
Status	Page: 1/25		
Device Information			
• <u>Log</u>	Time	Туре	Message
 Log Setting 	Aug 23 14:50:13	info	Sending discover
 Statistic 	Aug 23 14:50:10	info	Sending discover
• Wireless	Aug 23 14:49:06	info	Sending discover
Routing	Aug 23 14:49:05	info	device_lan_ip=192.168.10.1, device_lan_subnet_mask=255.255.255.0
Access	Aug 23 14:49:05	info	DHCP server start.
Access	Aug 23 14:49:05	info	DNS started
Management	Aug 23 14:49:04	info	Sending discover
	Aug 23 14:49:02	info	Sending discover
Tools	Aug 23 14:49:01	info	DHCP client start.
Wizard	Aug 23 14:49:01	info	[Initialized, firmware version: 1.00]

Time: Displays the time and date that the log entry was created.

Message: Displays summary information about the log entry.

Log Setting

This screen enables users to set Router Log parameters.

Vlain	Log Setting	HELP
Nireless	SMTP Authentication	○ Enabled ④ Disabled
Status	SMTP Account	user
Device Information Log	SMTP Password	
Log Setting Statistic	SMTP Server	
Wireless	Send to	Email Log Now
Routing Access	Log Type	✓ System Activity □ Debug Information
Management Fools		 ✓ Attacks □ Dropped Packets ✓ Notice
Nizard		Cancel Apply

SMTP Authentication: Selected the Enabled if the SMTP server need for authentication, fill in account name and password in SMTP Account field and SMTP Password field.

SMTP Account: If the SMTP Authentication enabled, fill in the SMTP account name here.

SMTP Password: If the SMTP Authentication enabled, fill in the password of the SMTP account here.

SMTP Server: Type your SMTP server address here.

Send to: Type an email address for the log to be sent to. Click "Email Log Now" to immediately send the current log.

Syslog Server: Type the IP address of the Syslog Server if user wants the WLAN Router to listen and receive incoming Syslog messages.

Log Type: Enables users to select what items will be included in the log:

System Activity: Displays information related to WLAN Router operation.

Debug Information: Displays information related to errors and system malfunctions.

Attacks: Displays information about any malicious activity on the network.

Dropped Packets: Displays information about packets that have not been transferred successfully.

Notice: Displays important notices by the system administrator.

<u>Statistic</u>

This screen displays a table that shows the rate of packet transmission via the WLAN Router's LAN, Wireless and WAN ports (in bytes per second).

	6				TEW-6328
Main	Statis	tic			HELP
Wireless	Utilizatio	n (bytes/sec)	LAN	Wireless	WAN
Status	Send	Peak	203990	38324	2623
Device Information	Receive	Peak	8668	408	43290
• Log		Reset			
 Log Setting Statistic 					
Wireless					
Routing					
Access					
Management					
Tools					
Wizard					

Click "Reset" to erase all statistics and begin logging statistics again.

Wireless

This screen enables users to view information about wireless devices that are connected to the WLAN Router.

	DNET	Wireless N Home Router TEW-632BRP
Main	Wireless	HELP
Wireless	Connected Time	MAC Address
Status	22:14:32	00:0c:43:25:73:92
Device Information		
• Log		
 Log Setting 		
Statistic		
 <u>Wireless</u> 		
Routing		
Access		
Management		
Tools		
Wizard		
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Connected Time: Displays how long the wireless client has been connected to the WLAN Router.

MAC Address: Displays the wireless client's MAC address.

Routing

This selection enables users to set how the WLAN Router forwards data: Static and Dynamic. Routing Table enables users to view the information created by the WLAN Router that displays the network interconnection topology.

<u>Static</u>

It enables users to set parameters by which the WLAN Router forwards data to its destination if the network has a static IP address.

	DNET		Wirele	ss N Hom T	e Router EW-632BRP
Main	Static				HELP
Wireless	Network Address				
Status	Network Mask				
Routing • Static	Gateway Address				
• <u>Static</u> • Dynamic	Interface	LAN 🖌			
Routing Table	Metric				
Access		Add Update	Delete Cancel		
Management	Network Address	Mask	Gateway	Interface	Metric
Tools					
Wizard					
			Copyright © 2	007 TRENDnet. All	Rights Reserved.

Network Address: Type the static IP address the network uses to access the Internet. Contact the ISP or network administrator for this information.

Network Mask: Type the network (subnet) mask of the network. If this field is left blank, the network mask defaults to 255.255.255.0. Contact the ISP or network administrator for this information.

Gateway Address: Type the gateway address of the network. Contact the ISP or network administrator for this information.

Interface: Select an interface, WAN or LAN, to connect to the Internet.

Metric: Select which metric that the user wants to apply to this configuration.

Add: Click to add the configuration to the static IP address table at the bottom of the page.

Update: Select one of the entries in the static IP address table at the bottom of the page, and after changing parameters, click "Update" to confirm the changes.

Delete: Select one of the entries in the static IP address table at the bottom of the page and click "Delete" to remove the entry.

New: Click "New" to clear the text boxes and add required information to create a new entry.

Dynamic

This screen enables users to set NAT parameters.

	DNET	V	Vireless N Ho	me Router TEW-632BRP
Main	Dynamic			HELP
Wireless	Transmit	⊙ Disabled ○ RIP 1	O RIP 2	
Status	Receive	⊙ Disabled ○ RIP 1	O RIP 2	
Routing		Cancel Apply		
 Static Dynamic 				
Routing Table				
Access				
Management				
Tools				
Wizard				
		Сору	right © 2007 TRENDnet.	All Rights Reserved.

Transmit: Click the radio buttons to set the desired transmit parameters, Disabled, RIP 1, or RIP 2.

Receive: Click the radio buttons to set the desired transmit parameters, Disabled, RIP 1, or RIP 2.

Routing Table

This screen enables users to view the routing table of the WLAN Router. The routing table is a database created by the WLAN Router that displays the network interconnection topology.

Main	Routing Ta	able				HELP
Wireless	Network Address	Network Mask	Gateway Address	Interface	Metric	Туре
Status	192.168.10.0	255.255.255.0	0.0.0	LAN	0	Dynamic
302003	172.21.80.0	255.255.240.0	0.0.0	eth1	0	Dynamic
Routing	239.0.0.0	255.0.0.0	0.0.0	LAN	0	Dynamic
Static	127.0.0.0	255.0.0.0	0.0.0.0	Local Loopback	0	Dynamic
• Dynamic	0.0.00	0.0.0.0	172.21.80.254	eth1	0	Dynamic
Access Management Tools						
Wizard						

Network Address: Displays the network IP address of the connected node. Network Mask: Displays the network (subnet) mask of the connected node. Gateway Address: Displays the gateway address of the connected node. Interface: Displays whether the node is connected via a WAN or LAN. Metric: Displays the metric of the connected node.

Type: Displays whether the node has a static or dynamic IP address

Access

This page enables you to define access restrictions, set up protocol and IP filters, create virtual servers, define access for special applications such as games, and set firewall rules.

<u>Filters</u>

Using filters to deny or allow the users to access. Five types of filters to select: MAC, URL blocking, IP, Protocol filter and Domain blocking.

	NET	Wireless N Home Router TEW-632BRP
Main Wireless Status Status Routing Access • Fitter • Virtual Server • Special AP • DMZ Management Tools Wizard	Filter Filters MAC Filter MAC Table	TEW-632BRP
	Name	Add Update Delete Cancel MAC Address Copyright © 2007 TRENDnet. All Highta Heserved.

MAC Filters

	INET	Wireless N Home Router TEW-632BRP
Main Wireless Status Routing	Filter Filters	HELP Filters are used to allow or deny LAN users from accessing the Internet. MAC Filters Domain/URL Blocking
Access • Filter • Virtual Server • Special AP • DMZ Management	MAC Filter	Protocol/IP Filters Disabled Only allow computers with MAC address listed below to access the network Only deny computers with MAC address listed below to access the network
Tools Wizard	MAC Table	Apply Name: MAC Address:
	Name	Add Update Delete Cancel MAC Address
		Copyright © 2007 THENDnet. All Rights Reserved.

MAC Filter: Enables you to allow or deny Internet access to users within the LAN based upon the MAC address of their network interface. Click the radio button next to Disabled to disable the MAC filter.

Disable: Disable the MAC filter function.

Allow: Only allow computers with MAC address listed in the MAC Table.

Deny: Computers in the MAC Table are denied Internet access.

MAC Table: Use this section to create a user profile which Internet access is denied or allowed. The user profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)

Name: Type the name of the user to be permitted/denied access.

MAC Address: Type the MAC address of the user's network interface.

Add: Click to add the user to the list at the bottom of the page.

Update: Click to update information for the user, if you have changed any of the fields.

Delete: Select a user from the table at the bottom of the list and click Delete to remove the user profile.

New: Click New to erase all fields and enter new information.

Domain/URL Blocking

You could specify the domains that allow users to access or deny by clicking one of the two items. Also, add the specified domains in the text box.

	ET	Wireless N Home Router TEW-632BRP
Main F Wireless Status Status Routing Access - • Fitter - • Virtual Server • Special AP • DMZ Management Tools	Filter Filters Domain Blocking	HELP Filters are used to allow or deny LAN users from accessing the Internet. MAC Filters Domain/URL Blocking Protocol/IP Filters Disabled Allow users to access all domains list. Deny users to access all domains list. Apply
Wizard	Domains List	Add Cancel Copyright © 2007 THENDnet. All Hights Reserved.

Disable: Disable the Domain/URL Blocking function.

Allow: Allow users to access all domains except "Domains List".

Deny: Deny users to access all domains except "Domains List".

Domains List: List Domain/URL you will Denied or Allowed.

Add: Click to Add button to add domain to the Domains list.

Delete: Select a Domain/URL from the table at the bottom of the list and click Delete to remove the Domain/URL.

IP Filters

This screen enables you to define a minimum and maximum IP address range filter; all IP addresses falling within the range are not allowed Internet access. The IP filter profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)

	NET	Wireless N Home Router TEW-6328RP
Main Wireless Status Routing Access	In (HELP Iters are used to allow or deny LAN users from accessing the ternet. MAC Filters Domain/URL Blocking Protocol/IP Filters
F <u>ilter</u> Virtual Server Special AP DMZ Management	Edit protocol Filter i Enable Name	□ List □ Enable □ Disabled
Tools Wizard	Protocol Port IP Range	
	Name	Add Update Delete Cancel

Enable: Click to enable or disable the IP address filter.

Name: Type the name of the user to be denied access.

Protocol: Select a protocol (TCP or UDP) to use for the virtual server.

Port: Type the port range of the protocol.

IP Range: Type the IP range. IP addresses falling between this value and the Range End are not allowed to access the Internet.

Add: Click to add the IP range to the table at the bottom of the screen.

Update: Click to update information for the range if you have selected a list item and have made changes.

Delete: Select a list item and click Delete to remove the item from the list.

Cancel: Click the *Cancel* button to erase all fields and enter new information.

Virtual Server

This screen enables users to create a virtual server via the WLAN Router. If the WLAN Router is set as a virtual server, remote users requesting Web or FTP services through the WAN are directed to local servers in the LAN. The WLAN Router redirects the request via the protocol and port numbers to the correct LAN server. The Virtual Sever profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.

)NET	Wireless N Home Router TEW-632BRP
Main		
Wireless	Virtual Serve	er HELP
Status	Enable	○ Enable ④ Disabled
Routing	Name	
Access	Protocol	TCP 💌
• Filter	Private Port	
 <u>Virtual Server</u> Special AP 	Public Port	
• DMZ	LAN Server	
Management		Add Update Delete Cancel
Tools	Name	Protocol LAN Server
Wizard	Name	
		Copyright © 2007 TRENDnet. All Rights Reserved.

Enable: Click to enable or disable the virtual server.

Name: Type a descriptive name for the virtual server.

Protocol: Select a protocol (TCP or UDP) to use for the virtual server.

Private Port: Type the port number of the computer on the LAN that is being used to act as a virtual server.

Public Port: Type the port number on the WAN that will be used to provide access to the virtual server.

LAN Server: Type the LAN IP address that will be assigned to the virtual server.

Add: Click to add the virtual server to the table at the bottom of the screen.

Update: Click to update information for the virtual server if the user has selected a listed item and has made changes.

Delete: Select a listed item and click "Delete" to remove the item from the list. **Cancel**: Click *Cancel* button to erase all fields and enter new information.

Special AP

This screen enables users to specify special applications, such as games which require multiple connections that are blocked by NAT. The special applications profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.

	ÎNET	Wireless N Hom TE	e Router W-632BRP
Main	Special AP		HELP
Wireless	Enable	○ Enabled ⊙ Disabled	
Status	Name		
Routing		Protocol TCP v	
Access	Trigger	Port Range	
 Filter Virtual Server 	Incoming	Protocol TCP 🖌	
Special AP		Port	
• DMZ		Add Update Delete Cancel	
Management			
Tools	Name	Triger Port Range Incoming	Port
Wizard			
S.		Copyright © 2007 TRENDnet. All	Rights Reserved.

Enable: Click to enable or disable the application profile. When enabled, users will be able to connect to the application via the WLAN Router's WAN connection. Click "Disabled" on a profile to prevent users from accessing the application on the WAN connection.

Name: Type a descriptive name for the application.

Trigger: Defines the outgoing communication that determines whether the user has legitimate access to the application.

- **Protocol:** Select the protocol (TCP, UDP, or ICMP) that can be used to access the application.
- **Port Range:** Type the port range that can be used to access the application in the text boxes.

Incoming: Defines which incoming communications users are permitted to connect with.

• **Protocol:** Select the protocol (TCP, UDP, or ICMP) that can be used by the incoming communication.

• **Port:** Type the port number that can be used for the incoming communication.

Add: Click to add the special application profile to the table at the bottom of the screen.

Update: Click to update information for the special application if user have selected a list item and have made changes.

Delete: Select a list item and click Delete to remove the item from the list.

Cancel: Click *Cancel* button to erase all fields and enter new information.

DMZ

This screen enables users to create a DMZ for those computers that cannot access Internet applications properly through the WLAN Router and associated security settings.

Note: Any clients added to the DMZ exposes the clients to security risks such as viruses and unauthorized access.

)NET	Wireless N Home Router TEW-632BRP
Main	DMZ	HELP
Wireless	Enable	○ Enabled ⊙ Disabled
Status	DMZ Host IP	0.0.0
Routing		Apply
Access		
 Filter Virtual Server 		
Virtual Server Special AP		
• DMZ		
Management		
Tools		
Wizard		
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Enable: Click to enable or disable the DMZ.

DMZ Host IP: Type a host IP address for the DMZ. The computer with this IP address acts as a DMZ host with unlimited Internet access.

Apply: Click to save the settings.

Management

Management enables users to set up the Remote Management feature.

Remote Management

This screen enables users to set up remote management. Using remote management, the WLAN Router can be configured through the WAN via a Web browser. A user name and password are required to perform remote management.

	NET	Wireless N Home Router TEW-632BRP
Main	Remote Manag	ement HELP
Wireless	HTTP	⊖ Enable ⊙ Disabled
Status		Port: 80
Routing		Remote IP Range:
Access	• U 4- Di 14/4 M	From To
Management	Allow to Ping WAN Port	• Enable O Disabled
Remote Management	UPNP Enable	Inabled O Disabled
Tools	PPTP	
Wizard	IPSec	Enabled O Disabled
		Cancel Apply
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HTTP: Enables users to set up HTTP access for remote management.

Allow to Ping WAN Port: Type a range of Router IP addresses that can be pinged from remote locations

UPnP Enable: UPnP is short for Universal Plug and Play that is a networking architecture that provides compatibility among networking equipment, software, and peripherals. The WLAN Router is an UPnP-enabled Router and will only work with other UPnP devices/software. If user does not want to use the UPnP functionality, select "Disabled" to disable it.

PPTP: Enables users to set up PPTP access for remote management.

IPSec: Enables users to set up IPSec access for remote management.

Tools

This page enables users to restart the system, save and load different settings as profiles, restore factory default settings, run a setup wizard to configure WLAN Router settings, upgrade the firmware, and ping remote IP addresses.

Restart

Click "Restart" to restart the system in the event the system is not performing correctly.



Settings

This screen enables users to save settings as a profile and load profiles for different circumstances. User can also load the factory default settings, and run a setup wizard to configure the WLAN Router and Router interface.

	DNET	Wireless N Home Router TEW-632BRP
Main	Settings	HELP
Wireless	Save Settings Save	
Status	Load Settings	Browse Load
Routing	Restore Factory Default Settings	
Access	Delaut Settings	
Management		
Tools		
Restart		
 <u>Settings</u> 		
Firmware		
Ping Test Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved.

Save Settings: Click "Save" to save the current configuration as a profile that can load when necessary.

Load Settings: Click "Browse" and go to the location of a stored profile. Click "Load" to load the profile's settings.

Restore Factory Default Settings: Click "Restore" to restore the default settings. All configuration changes will lost.

<u>Firmware</u>

This screen enables users to keep the WLAN Router firmware up to date.

)net	Wireless N Home Router TEW-632BRP
Main	Firmware	HELP
Wireless	Upgrade Firmware	Browse
Status	Upgrade	
Routing		
Access		
Management		
Tools		
Restart		
 Settings 		
Firmware		
Ping Test		
Wizard		
		Copyright © 2007 TRENDnet. All Rights Reserved.

Please follow the below instructions:

Download the latest firmware from the manufacturer's Web site, and save it to disk. Click **"Browse"** and go to the location of the downloaded firmware file.

Select the file and click "Upgrade" to update the firmware to the latest release.

Ping Test

The ping test enables users to determine whether an IP address or host is present on the Internet. Type the host name or IP address in the text box and click Ping.



TECHNICAL SPECIFICATIONS

	General	
Standards	IEEE 802.3u 100BASE-TX Fast Ethernet	
	IEEE 802.11n draft 2.0; IEEE 802.11g; IEEE 802.11b	
Protocol	CSMA/CD	
Radio Technology	DSSS/OFDM	
Data Transfer	802.11n mode: up to 300Mbps (auto sense)	
Rate	802.11g mode: up to 54Mbps (auto sense)	
	802.11b mode: up to 11Mbps (auto sense)	
	Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex)	
Dession	Fast Ethernet: 100Mbps (half duplex), 200Mbps (full- duplex)	
Receiver	802.11n: -70dBm typical @ 300Mbps	
Sensitivity	802.11g: -72dBm typical @ 54Mbps	
TX Power	802.11b: -84dBm typical @ 11Mbps 802.11n: 14dBm typical	
INFOWEI	802.11g: 15dBm typical	
	802.11b: 18dBm typical	
Network Cables	10BASE-T: 2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100-	
Network Oables	ohm STP (100 m)	
	100BASE-TX: 2-pair UTP Cat. 5 (100 m), EIA/TIA-568 100-ohm	
	STP (100 m)	
Frequency Range	2412 ~ 2484 MHz ISM band	
Modulation	DBPSK/DQPSK/CCK/OFDM	
Schemes	DBF3NDQF3NCCNOFDM	
Security	64/128-bits WEP Encryption; WPA, WPA-PSK, WPA2, WPA2-	
	PSK	
Channels	1~11 Channels (US) 1~13 Channels (EU)	
Number of Ports	LAN: 4 x 10/100Mbps Auto-MDIX Fast Ethernet port	
	WAN: 1 x 10/100Mbps Auto-MDIX Fast Ethernet port	
Physical and Environmental		
DC inputs	5VDC 2.5A	
Power	7\\/ (\\	
Consumption	7W (Max)	
Temperature	Operating: 0° C ~ 40° C, Storage: -10° ~ 70° C	
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%	
Dimensions	180 x 122 x 30 mm (6.8 x 4.6 x 1.1 inches)	
EMI:	CE, FCC	

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TEW-632BRP	3 Years
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If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or deliver to customer an equivalent product to replace the defective item. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product through any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

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Governing Law: This Limited Warranty shall be governed by the laws of the state of California. <u>Note</u>: AC/DC Power Adapter, Cooling Fan, Cable, and Power Supply carry 1-Year Warranty

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Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

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