



300Mbps Wireless N Router

FWR-734N

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User Manual

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Introduction

Product Overview

Thank you for choosing FWR-734N Wireless-N Router.

FWR-734N 300Mbps Wireless N Router is an all-in-one router, ideal for home and SOHO users to share broadband Internet connection over the wired and wireless network. With the speed of up to 300Mbps, it can provide users with extraordinary smooth internet surfing, internet phone calling, on-line gaming, and HD video streaming. Moreover, by adopting built-in Omnidirectional antennas and MIMO technology, FWR-734N could greatly increases the wireless range & sensitivity, which enables you to receive wireless signals in the farthest corner of your home or office. And you can quickly setup the security at a simple push of the "WPS" (Wi-Fi Protected Setup) button on the fashionable designed router, preventing your device from potential internet attacks.

Front Panel

Power LED

The Power LED lights up when the Router is powered on. When the Router goes through its self-diagnostic mode during every boot-up, the LED flashes. When the diagnostic is complete, the LED is continuously lit.

WLAN LED

The Wireless LED lights up when the wireless feature is enabled. It flashes when the Router sends or receives data over the wireless network.

Wi-Fi Protected Setup (WPS) LED

If you have client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can use the Wi-Fi Protected Setup button to automatically configure wireless security for your wireless network. To use Wi-Fi Protected Setup, refer to the section of Wi-Fi Protected Setup.

WAN LED

The Internet LED lights up when there is a connection made through the Internet port. It flashes to indicate network activity over the Internet port.

LED (1-4)

These LEDs are corresponding with the LAN ports on the rear panel. The LED is continuously lit when the Router is connected to a device through that port. It flashes to indicate network activity over that port.



LED	Status	Description
d Dowor	On	Power is on
o Powei	Off	Power is off
	On	Wireless network is switched on
۳» WLAN	Off	Wireless LAN is disabled
	Blink	Data is transmitting
	Off	WPS function is disabled
() WPS	Blink	A wireless device is connecting to the network by WPS function. This process will last in the first 2 minutes
	On	A wireless device has been successfully connected to the network by WPS function
	On	Internet is connected
🗚 WAN	Off	Internet is unconnected
	Blink	Data is transmitting
	On	LAN port is connected
LAN (Port 1-4)	Off	LAN port is unconnected
	Blink	Data is transmitting

Rear Panel

Reset

Long press and hold the button for 8 seconds, the Router will reboot to its factory default settings.

WPS

Press the button and the WPS LED in front panel flashing, WPS function is enabled.

WAN

Using an Ethernet cable (also called a network or Internet cable), the Internet port connects the Router to your Internet connection, which is typically a cable or Digital Subscriber Line (DSL) modem.

LAN (1-4)

Using Ethernet cables, these Ethernet ports (4, 3, 2, 1) connect the Router to computers and other Ethernet network devices on your wired network.

Power

The Power port connects to the included power adapter.

ON/OFF

The power on/off button.

Main Features

- 4 LAN ports and 1 WAN port
- Wireless N speed up to 300Mbps, ideal for internet surfing, on-line gaming and HD video streaming
- MIMO technology greatly increases the wireless range, sensitivity and stability
- Multi-SSID allows users to create multiple networks, and distributes access privilege of each network
- QoS controls the reasonable allocation of bandwidth to achieve optimum utilization, ensuring reliable Internet connection
- Quick wireless security setup by simply pressing the WPS button
- WDS wireless bridge provides seamless bridging to expand your wireless network
- Built-in firewall featured with IP, MAC, URL filtering and ARP attack prevention to protect your PC
- Backward compatible with 802.11b/g product
- Setup wizard simplifies installation and configuration



Physical Connection



∧ Note:

- Actual product may be different as the picture, but the installation will be the same.
- Please use the included power adapter. Use of a different power adapter could cause damage and void the warranty for this product.
- Please ensure the Power, LAN and WAN lights are ON when the installation finished successfully.

Configure the Computers IP Address

After connecting your PC to the router, you need to configure your PCs IP address.

For Windows XP/2000

1. Click Start>Control Panel.



2. Select and double click Network Connection.

File	Edit Vie	w Favorite	es Tools	Help		
9	Back = (O - 💋	5 🔎 Se	arch 🔀 Fol	ders 🔝 -	
ddre:	ss 📴 Con	itrol Panel				
1	² Control	Panel	۲		Ń	ø
3	Switch to	o Category Vi	ew	Network Connections	Add Hardware	Add or Remov
				(J)	1	<pre>p</pre>
56	ee Also		~			

3. Right click Local Area Connection and then select Properties.

Connected, Fi	nnection rewalled
	Disable Status Repair
	Bridge Connections
	Create Shortcut Delete Rename

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

Local Area Connection Properties	?
eneral Authentication Advanced	
Connect using:	
Realtek RTL8139 Family PCI Fast Etł	nfigure
This connection uses the following items:	
🗹 🔜 Client for Microsoft Networks	
🛛 🖳 File and Printer Sharing for Microsoft Networks	é l
QoS Packet Scheduler	
Internet Protocol (TCP/IP)	
Install Uninstall [[Pro	operties
Description	
Transmission Control Protocol/Internet Protocol. The	default
wide area network protocol that provides communica	ation
across urverse interconnected hetworks.	
Show icon in notification area when connected	
Notify me when this connection has limited or no co	nnectivity
OK	Cancel

5. Select Obtain an IP address automatically and Obtain DNS server address automatically. Then click OK.

Internet Protocol (TCP/IP) Prop	erties 🛛 🛛 🛛 🛛
General Alternate Configuration	
You can get IP settings assigned aut this capability. Otherwise, you need to the appropriate IP settings.	omatically if your network supports o ask your network administrator for
Obtain an IP address automatica	ally
OUse the following IP address: —	
IP address:	
Subnet mask:	· · ·
Default gateway:	· · ·
 Obtain DNS server address auto 	omatically
Use the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

For Windows Vista/7

- 1. Click Start>Control Panel.
- 2. Click View network status and tasks and then click Manage network connection

(Change adapter settings for Windows 7).

- 3. Right click Local Area Connection and then click Properties.
- 4. Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.
- 5. Select Obtain an IP address automatically and Obtain DNS server address automatically. Then click OK.

Setup Wizard

After successful installation, now you can go ahead with connecting to the internet, the operations are as following:

1. Open your web browser and enter 192.168.0.1.

Vindows Internet Explorer	
2 192. 168. 0. 1	$\checkmark \rightarrow \times$

2. You are prompt to enter the Username/Password (preset as admin/admin) which you can found on the label at the bottom of your router, and then click **Login**.

🕝 רטאנו	า	
Username: Password:	admin	
Log	jin Cancel	

3. After a successful login, the following page will appear. Click Next.



4. You are prompted to select your WAN interface type, there are three types available: **DHCP**, **Static IP** and **PPPoE**.

▼ Basic Setting	Setup Wizard	
Running Status	This router supports three types of n	network connection modes. Please select an appropriate one according to the actual situation. If
WAN Interface Settings	you are not familiar with the network	k environment of the router, the recommended mode is "Auto select".
Wireless Settings		
Wireless Security Settings	WAN Interface Type:	DHCP (Auto Config)
Expert Setting	DHCP Mode	Static Mode (Fixed IP) DHCP (Auto Config)
Setup Wizard	Host Name	PPPOE (ADSL)
Software Upgrade		
▶ Logout		Back Next Cancel

a. Select **Dynamic IP (DHCP)** if your ISP does not give you any IP numbers to use. This option is commonly used for cable modem services. Router will obtain IP address information automatically. In this case, no need to input anything but click **Next**.

 Basic Setting 	Setup Wizard	
Running Status	This router supports three type	s of network connection modes. Please select an appropriate o
WAN Interface Settings	you are not familiar with the net	work environment of the router, the recommended mode is "Au
Wireless Settings		
Wireless Security Settings	WAN Interface Type:	DHCP (Auto Config)
 Expert Setting 	DHCP Mode	
▶ Setup Wizard	Host Name	
 Software Upgrade 		
▶ Logout		Back Next Cancel

b. Select **Static IP** if all the internet ports 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, and then click **Next**.

 Basic Setting 	Setup Wizard		
Running Status	This router supports three types	of network connection modes. Please select an appropriate one according to the actual situati	ion. I
WAN Interface Settings	you are not familiar with the net	vork environment of the router, the recommended mode is "Auto select".	
Wireless Settings			
Wireless Security Settings	WAN Interface Type:	Static Mode (Fixed IP)	
Expert Setting	Static Mode (Fixed IP)		
 Setup Wizard 	IP Address	172 . 16 . 161 . 115	
Software Upgrade	Subnet Mask	255 . 255 . 255 . 0	
▶ Logout	Gateway	172 . 16 . 161 . 254	
	Primary DNS Server	172 . 16 . 160 . 31	
	Secondary DNS Server	172 . 16 . 160 . 30	
		Back Next Cancel	

c. PPPoE is typically used for DSL services. Select **PPPoE** and fill the Username and Password information provided by your ISP, and then click **Next**.

▼ Basic Setting	Setup Wizard		
Running Status	This router supports three types of network connection modes. Please select an appropriate one according to the actual situation. If		
WAN Interface Settings	you are not familiar with the network er	nvironment of the router, the recommended mode is "Auto select".	
Wireless Settings			
Wireless Security Settings	WAN Interface Type:	PPPOE (ADSL)	
 Expert Setting 	PPPoE Mode		
 Setup Wizard 	Username	pppoe_user	
 Software Upgrade 	Password		
▶ Logout	Verify Password		
		Back Next Cancel	

5. In this page, please set the Wireless Network Name (SSID), Mode, Wireless Security, click **Next**.

	' Basic Setting	Setup Wizard	
	Running Status	This wizard is used to configure the wireless routing parameters, in order to access the Internet.	
	WAN Interface Settings		
	Wireless Settings		
	Wireless Security Settings	SSID	feixun-335280
Þ	Expert Setting	Mode	11b/g mixed mode
•	Setup Wizard		O Disable wireless security
k	Software llograde	Wireless Security Options	WPA-Personal/WPA2-Personal Personal Key
Ľ	Soltware opgrade		(8-63 ASCII characters or 8-64 hexadecimal characters)
Р	Logout		O not modify wireless security settings
			Back Next

6. Click **Finish**, you would successfully access to the internet.

-	Basic Setting	Setup Wizard
	Running Status	This wizard is used to configure the wireless routing parameters, in order to access the Internet.
	WAN Interface Settings	
	Wireless Settings	Congratulations! You have successfully completed the basic network settings, you can access the internet now.
	Wireless Security Settings	Click "Finish" to close the wizard.
Þ	Expert Setting	Back Finish
Þ	Setup Wizard	
۲	Software Upgrade	
۲	Logout	

Router Configuration

You will see the five main menus on the left of the web-based utility. On the right, there are the corresponding explanations and instructions. The Status page provides the current status information about the Router. All information is read-only.

Basic Setting Burning Status WAN Interface Settings	Running Status Wireless Router Running Status			
Wireless Settings	LAN Interface Status			
Wireless Security Settings	MAC Address	00:0C:43:33:52:77		
	IP Address	192.168.0.1		
Expert Setting	Subnet Mask	255.255.255.0		
 Setup Wizard 	Wireless Status			
Software Upgrade	Enabling Status	Enable		
	Wireless Network Name (SSID)	feixun-335280		
Logout	Channel	6		
	Mode	11b/g		
	MAC Address	00:0C:43:33:52:80		
	WAN			
	Mode	DHCP		
	MAC Address	00:0C:43:33:52:77		
	IP Address	172.16.161.115		
	Subnet Mask	255.255.255.0		
	Gateway	172.16.161.254		
	DNS	172.16.160.31 172.16.160.30		
	WAN Interface Traffic Statistics			
	Received/Transmitted Bytes	428176/179047		
	Packets	1775		
	Running Time	2 mins, 1 sec		

Basic Setting

The basic setting section configures the Router to your Internet connection. Most of this information can be obtained through your Internet Service Provider (ISP).



▶ WAN Interface Settings

 Basic Setting 	WAN Interface Settings In this page, you can set the basic network parameters of the WAN interface.		
Running Status WAN Interface Settings			
Wireless Settings	WAN Interface Connection Type	Dynamic IP (DHCP)	
Wireless Security Settings	IP Address	Static IP	
 Expert Setting 	Subnet Mask	PPPoE L2TP	
Setup Wizard	Gateway	PPTP	
 Software Upgrade 	Packet MTU (byte) 1500 (Default: 1500. Do not modify it unless it is necessary.)		500. Do not modify it unless it is necessary.)
▶ Logout	Manually set the DNS se	erver	
	DNS Server 172 . 16 . 160 . 31		
	Secondary DNS Server	172 . 16 . 160	. 30 (Optional)
		Save	Cancel

WAN Interface Connection Type:

Dynamic IP: Obtain the IP address automatically assigned by the DHCP server from the ISP.

Static IP: Have a static IP address provided by the ISP.

PPPoE: Access the Internet by virtual ADSL dialup.

L2TP: Layer 2 Tunneling Protocol (L2TP) is a service applies to connections in Israel only.

PPTP: Point-to-Point Tunneling Protocol (PPTP) is a service applies to connections in Europe only.

Select the connection type according to the information provided by your Internet Service Provider (ISP), and fill in the information accordingly.



The basic settings for wireless networking are set on this screen. In this page, you can set the basic network parameters of the wireless network of the router.

 Basic Setting 	Wireless Basic Settings		
Running Status WAN Interface Settings	In this page, you can set the basic network parameters of the wireless network of the router.		
Wireless Settings	Wireless Network		
Wireless Security Settings	Wireless Status		
Expert Setting	Wilcies Status	Display multiple SSID	
 Setup Wizard 	SSID1	feixun-335280 Check Duplication Hidden Isolated	
Software Upgrade	MSSID Access Local network	O Enable Disable	
▶ Logout	Mode	11b/g/n mixed mode	
	Channel	6 Best Channel	
	SSID Broadcast		
	MBSSID AP Isolation	O Enable	
	BSSID	00:0C:43:33:52:80	
	Frequency Bandwidth	○ 20 ④ 20/40	
	MCS	Auto	
	Extension Channel	10 💌	
		Save	

Wireless Status: If you do not have any other wireless devices in your network, select Wireless Disabled.

Wireless Network Name (SSID): The name of routers wireless network. The wireless work station must keep the same SSID name with the APs for connections. By select **Hidden** or Isolated, the device can open or close to search available APs.

Mode: From this drop-down menu, you can select the wireless standards running on your network:

- **11b/g/n-Mixed:** If you have only Wireless-G Wireless-N and Wireless-B devices in your network, select **11b/g/n-Mixed**.
- **11b/g-Mixed:** If you have only Wireless-G and Wireless-B devices in your network, select 11b/g-Mixed.
- Wireless-G Only: If you have only Wireless-G devices, select Wireless-G Only.
- Wireless-B Only: If you have only Wireless-B devices, select Wireless-B Only.

Channel: You can use the channel same as the AP. By enabling Open Scanning button to find out the available APs channel.

SSID Broadcast: Select enable to enable the devices SSID to be visible by wireless clients.

BSSID: It is a 48-bit identity used to identify a particular BSS (Basic Service Set) within an area. In Infrastructure BSS networks, the BSSID is the MAC (Medium Access Control) address of the AP.

Frequency Bandwidth: Select wireless work frequency 20M or 20/40M.

Save: Click the Save button to save your setting.

Wireless Security Settings

The wireless security settings configure the security of your wireless network(s). Six wireless security modes, WEP, WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise and RADIUS, are supported. If you do not want to use wireless security, select **Disable** from the drop-down menu.

 Basic Setting Running Status WAN Interface Settings 	Wireless Security Settings In this page, you can set the security parameters of a wireless network.		
Wireless Settings	Select SSID		
Window Security Settings	Wireless Network N	ame (SSID) feixun-335280 👻	
Expert Setting	feixun-335280		
 Setup Wizard 	Security Mode	Disable	
 Software Upgrade 		Save Cancel	
▶ Logout			

WIRELESS NETWORK NAME (SSID): Select SSID to be configured security. The device

supports to configure different security classes between the main SSID and the subordinate SSID.

Security Mode: There are several different security modes; you can choose one from disable, open, share, WEPAUTO, WPA-PSK WPA2-PSK, and WPA-PSK/WPA2-PSK etc..

The operations of each security mode are as following:

Mode 1: Security Mode > Disable

If you do not want to use wireless security, check this radio button.

Mode 2: Security Mode > Open/Share/ WEPAUTO

It is based on the IEEE 802.11 standard. If you check this radio button, you will find a notice in red as show in Figure 4-18. You can choose the type for the WEP security on the pull-down list. You can select **Shared Key** or **Open System** authentication type automatically based on the wireless stations capability and request.

Default Key: Select a valid encryption key.

WEP Key 1, 2, 3, 4: Enter the WEP key here. Please note that the key should be in accordance with the key format and be valid. The key should be ASCII Characters or Hexadecimal Digits.

▲ **Note:** If you do not set the key, the wireless security function is still disabled even if you have selected Shared Key as the Authentication Type.

Mode 3: Security Mode>WPA-Personal/WPA2-Personal

WPA PSK (Wi-Fi Protected Access): A Wi-Fi standard is a more recent wireless encryption scheme, designed to improve the security features of WEP. It applies more powerful encryption types (such as TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard]) and can change the keys dynamically on every authorized wireless device.

WPA Algorithms: Select one encryption type, AES or TKIP. (AES is stronger than TKIP)

Pass Phrase: Default as 12345678, please enter a new key (8-63 ASCII characters).

Key Renewal Interval: It is to tell how often the Router changes key. The default time is 3600s; do not change it unless it is necessary.

▲ **Note:** To improve security level, do not set the keyword with words that can be found in a dictionary or too easy to remember.

Expert Setting

Expert Setting enables users to realize many advanced functions of the router. Under this menu, there are ten submenus as follow:



Network Settings

There are five submenus under the Network Setting menu as shown below. Click any of them, and you will be able to configure the corresponding function.



Operating Mode

This page is used to set the operating mode of the device. Please choose Bridge mode or router mode according to your requirement; When the NAT is enabled, it can provide the transfer of internal / external networks addresses for the LAN and wireless networks. You can choose the mode for the router on the pull-down list.

 Basic Setting 	Operating Mode	
Running Status	In this page, you can set up your access to the Internet mode	
WAN Interface Settings		
Wireless Settings	O Bridge	Bridge: All Ethernet interfaces and the wireless network interface are connected to a single bridge interface.
Wireless Security Settings Router: The first Ethernet serves as the WAN in	Router: The first Ethernet serves as the WAN interface. Other Ethernet interfaces and the wireless	
 Expert Setting 	Expert Setting network interface are connected to a single bridge interface, as the LAN interfa	
- Network Settings	NAT Enabled:	Enable
Operating Note Save C		Save Cancel
LAN Interface Settings		

LAN Interface Settings

 Basic Setting 	LAN Int	LAN Interface Settings	
Running Status	In this pag	e, you can set the basic network parameters of the LAN interface.	
WAN Interface Setti	ngs		
Wireless Settings	MAC Addre	ess 00:0C:43:33:52:77	
Wireless Security S	ettings IP Address	192 . 168 . 0 . 1	
 Expert Setting 	Subnet Ma	sk 255.255.255.0 🗸	
		Save Cancel	

MAC Address: The Routers physical MAC address as seen on your local network, which is unchangeable.

IP Address: The Routers LAN IP Address (not your PCs IP address). Once you modify the IP address, you need to remember it for the Web-based Utility login next time. 192.168.0.1 is the default value.

Subnet Mask: It's shown the Routers subnet mask for measurement of the network size. 255.255.255.0 is the default value.

Save: Click the Save button to save your setting.

∧ Note:

- If the LAN IP Address changes, you must use the new IP address to log in to the router, in order to access the Web configuration page.
- If the new LAN IP address is in a different network segment from the original LAN IP address, the dynamic IP service of the router is automatically switched to work in the network segment of the new LAN IP address. To apply virtual server, DMZ host and DHCP Static Address Allocation, please perform the settings again.

• WAN Interface Settings

Please refer to **Basic Setting** > **WAN Interface Settings**.

• PPTP VPN Server

A PPTP Server (Point-To-Point Tunneling Protocol) allows you to connect securely from a remote location (such as your home) to an LAN (Local Area Network) located in another location, such as your workplace, business office, etc. This way you can use the services provided in your office at the comfort of your home.

 Basic Setting 	PPTP VPN Server
Running Status	In this page, you can set the VPN server at the router.
WAN Interface Settings	
Wireless Settings	PPTP Server Basic Settings 🔘 Enable 💿 Disable
Wireless Security Settings	Force MPPE Encryption O Enable MPPE Encryption
 Expert Setting 	Save
- Network Settings	
Operating Mode	PPTP Server Settings (Max rule number 10)
LAN Interface Settings	nete user
WAN Interface Settings	
PPTP VPN Server	pptp password
MAC Address Cloning	pptp client ip 192. 168. 0.
+ Wireless Settings	Add
+ DHCP Server	
+ Forwarding Rule	No. user password ip disconnect delete
+ Security Ontions	Disconnect Delete

PPTP Server Basic Settings: Point-to-Point Tunneling Protocol (PPTP) allows the Pointto-Point Protocol (PPP) to be tunneled through an IP network. To allow PPTP tunnels to pass through the Router, keep the default as **Enabled**.

Force MPPE Encryption: Keep the default as Enabled.

PPTP user: Enter PPTP username provided by your ISP.

PPTP password: Enter PPTP password provided by your ISP.

PPTP client IP: Enter the PPTP client IP address.

Click the Add button to save your setting.

MAC Address Cloning

A MAC address is a 12-digit code assigned to a unique piece of hardware for identification. Some ISPs require you to register a MAC address in order to access the Internet. If you were using cable modem, you were suggested to clone the current registered MAC address to the router. This page was designed to realize this function.

▲ **Note:** To enable this function, you would to ensure the computer connecting to the router is the main computer, and the computer links to the router by cable.

 Basic Setting 	MAC Address Cloning	
Running Status	In this page, you can set the WAN MAC address of the router.	
WAN Interface Settings		
Wireless Settings	Enable Enable	
Wireless Security Settings	MAC Address	
 Expert Setting 	Note: This function applies to computers in the LAN only.	
- Network Settings	Save Cancel	

Disable/Enable: To have the MAC address cloned, select **Enable**.

MAC Address: The MAC address to be registered with your Internet service provider.

Fill my MAC address: Click this button, system will clone the registered MAC address

from your computer and auto fill in the blanks.

Save: Click the Save button to save your setting.

Wireless Settings

There are seven submenus under the wireless menu. Click any of them, you will be able to configure the corresponding function.

 Expert Setting 					
+ Network Settings					
- Wireless Settings					
Basic Settings					
Wireless Security Settings					
Wireless MAC Address Filter					
Advanced Wireless Settings					
Wireless Client List					
WPS Settings					
WDS Settings					

Basic Settings

Please refer to section of **Basic setting** > wireless setting.

• Wireless Security Settings

Please refer to section of **Basic setting > Wireless Security Setting**.

• Wireless MAC Address Filtering

MAC Address: MAC addresses involved in the wireless host access control.

 Basic Setting Running Status WAN Interface Settings 	Wireless MAC In this page, you can network.	Address Filtering set MAC address filtering to control the access of computers t	to the wireless			
Wireless Settings	Access Policy					
Wireless Security Settings	Policy	Disable 😽				
 Expert Setting 	Add MAC					
+ Network Settings	Add MAC					
- Wireless Settings	The maximum rule num	ber is 10.				
Basic Settings		Save Cancel				
Wireless Security Settings	MAC Address List					
Wireless WAC Address Filter	NO.	MAC Address	Access Policy			
Advanced Wireless Settings		Delete				
Wireless Client List						

Example:

If you only want MAC address (00:0A:EB:00:07:5F) to access the wireless network while others cannot:

1. The security policy chooses to allow.

2. Fill MAC address 00:0A:EB:00:07:5F in and click Save.

If you want MAC address (00:0A:EB:00:07:5F) cannot access the wireless network while others can:

- 1. The security policy chooses to refuse.
- 2. Filling MAC address 00:0A:EB:00:07:5F in and click Save.

In the MAC Address list, click **Remove** to delete the MAC addresses selected.

Advanced Wireless Settings

This section is to configure the advanced wireless setting of the Router, including the Radio Preamble, 802.11g/n Rate, Fragmentation Threshold, RTS Threshold, Beacon Period and DTIM Interval.

▼ Basic Setting	Advanced Wireless Settings						
Running Status	In this page, you can set	set the advanced settings of the wireless network.					
WAN Interface Settings Wireless Settings	Advanced Wireless parameters						
Wireless Security Settings	BG Protection Mode	Auto 💌					
 Expert Setting 	Beacon Interval	100 ms (Range 20 - 999, Default 100)					
+ Network Settings	DTIM (Delivery Traffic Indication Message)	1 ms (Range 1 - 255, Default 1)					
- Wireless Settings	Fragment Threshold	2346 (Range 256 - 2346, Default 2346)					
Basic Settings Wireless Security Settings	RTS Threshold	2347 (Range 1 - 2347, Default 2347)					
Wireless MAC Address Filter	TX Power	100 (Range 1 - 100, Default 100)					
Advanced Wireless Settings	Short Preamble	O Enable 💿 Disable					
Wireless Client List	Pkt_Aggregate	Enable Disable					
WPS Settings	DFS RDRegion	ETSI(1-13)					
WDS Settings	WMM Bandwidth Management						
	WMM Capable	Enable Disable					
+ Forwarding Rule	APSD Capability	C Enable 💿 Disable					
+ Security Options	DLS Capable	C Enable O Disable					
+ Access Control	WMM Darametere	WAIM Configuration					
+ Routing Settings							
+ IP Bandwidth Control	Multicast-to-Unicast Conver	ter					
- Dynamic DNS Settings	Multicast-to-Unicast	Enable Disable					
+ System Tools		Save Cancel					

BG protection Mode: Auto by default. You can select On or Off.

Beacon Interval: The interval for sending packets of the Beacon frame. Its value range is 20.1000ms, default as 100.

DTIM Interval: It indicates the interval of the delivery traffic indication message (DTIM). The value range is between 1 and 255 milliseconds. The default value is 1.

Fragment Threshold: Set the fragmentation threshold. Packets larger than the size set

3

in this field will be fragmented. Too many data packets will lower the wireless network performance. The Fragment Threshold value should not be set too low. The default value is 2346.

RTS Threshold: Set the RTS (Request to send threshold) threshold. When the packet size is larger than the preset RTS size, the wireless router will send a RTS to the destination station to start a negotiation. The default value is 2347.

TX Power: You can set the output power of wireless radio. Unless you are using this wireless router in a really big space, you may not have to set output power to 100%. This will enhance security (malicious/unknown users in distance will not be able to reach your wireless router).

Enable WMM: If you select it, the router will process the packets with the priority first. You are recommended to select this option.

APSD Capable: It is used for auto power-saved service. The default is **Disabled**.

MAC Address List: The added MAC addresses are listed here. Click the **Delete** button to delete the filter management for this MAC address.

Save: Click the Save button to save your Log.

▲ Note: If you are not familiar with the setting items in this page, it's strongly recommended to keep the provided default values; otherwise it may result in lower wireless network performance.

Wireless Client List

Show wireless clients access to the wireless net.

▼ Basic Setting	Wireless Client Lis	t						
Running Status	In this page, You can check the wireless clients connected to this device							
WAN Interface Settings								
Wireless Settings	Wireless Network							
Wireless Security Settings	MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC

• WPS Settings

In this page, you can configure the WPS settings, which can make your client automatically synchronize with the AP setting within several minutes and establish the connection.

▼ Basic Setting	Wi-Fi Protected Setup (WPS)				
Running Status	By entering a personal identificatio	n number (PIN) or pressing the button (PBC) to the implemente the				
WAN Interface Settings	Wi-Fi protected setting, enabling you to build secure mechanisms more easily.					
Wireless Settings	WPS Settings Configuration					
Wireless Security Settings	WPS settings:	Enable V				
 Expert Setting 	wro oddingo.					
+ Network Settings		Save				
- Wireless Settings	WPS settings list					
Basic Settings	WPS Current Status:	ldle				
Wireless Security Settings	The Configured WPS:	No				
Wireless MAC Address Filter	WPS SSID:	feixun-3352E0				
Vireless MAC Address Filler	WPS authentication mode:	Open				
Advanced wireless Settings	WPS encryption type:	None				
Wireless Client List	The Default Key Index of WPS:	1				
WPS Settings	WPS Key(ASCII)					
WDS Settings	PIN (Personal identification number):	33635521 Generate Pin				
+ DHCP Server		OOB				
+ Forwarding Rule						
+ Security Options	WPS mode settings					
+ Access Control	WPS mode:	● PIN ○ PBC				
+ Routing Settings	Personal identification number (PIN)					
+ IP Bandwidth Control		Save				
- Dynamic DNS Settings	WPS setting status					
+ System Tools	WSC:Idle					
Setup Wizard	<					

WPS (Wi-Fi Protected Setting): Easy and quick to establish the connection between wireless network client and Router through encrypted contents. The users only enter the PIN code to configure without selecting encryption method and entering secret keys by manual.

WPS Mode: Supports two ways to configure WPS settings: PBC (Push-Button Configuration) and PIN code.

PBC: Select the **PBC** button or press the WPS button on the panel of the Router. (Press WPS button and WPS LED will blink, which means the WPS function is enabled. During the blinking time, press the WPS button on another network device, WPS LED light will become solid when the connection succeeds.)

PIN: If this option is enabled, you need to enter a wireless clients PIN code in the blank and keep the same code in the client.

Save: Click the Save button to save your setting.

WDS Settings

In this page, you can configure the function of WDS, supporting Repeater mode, Bridge mode and Lazy mode. You'd better use the same router in order to optimize the performance.

▼ Basic Setting	Wireless Distr	ibution System (WDS)							
Running Status	Wireless Distribution	System allows you to make a completely wireless infrastructure. The WDS feature							
WAN Interface Settings	allows the access p	pints to be wirelessly connected. Normally used in large, open areas where pulling a							
Wireless Settings	wire is restricted or	ire is restricted or not cost effective and in residential circumstances.							
Wireless Security Settings	basic wds Settings	basic wds Settings							
 Expert Setting 	WDS Mode	Repeater Mode 💌							
+ Network Settings	Entity Model	Disable Bridge Mode							
- Wireless Settings	WDS 1	Repeater Mode							
Basic Settings	Encryption Type	NONE							
Wireless Security Settings	Encryption key								
Wireless MAC Address Filter	Wireless Access								
Advanced Wireless Settings	Node MAC Address								
Wireless Client List	WDS 2								
WPS Settings	Encryption Type	NONE							
WDS Settings	Encryption key								
+ DHCP Server	Wireless Access								
+ Forwarding Rule	Node MAC Address								
+ Security Options	WDS 3								
	Encryption Type	NONE							
+ Access Control	Encryption key								
+ Routing Settings	Wireless Access								
+ IP Bandwidth Control	Node MAC Address								
- Dynamic DNS Settings	WDS 4								
+ System Tools	Encryption Type	NONE							
Setup Wizard	Encryption key								
 Software Upgrade 	Wireless Access Node MAC Address								
▶ Logout		Save Cancel							

WDS Mode: In this mode, you can expand the scope of network by combining up to four other access points together, and every access point can still accept wireless clients.

Bridge Mode: You can wirelessly connect two or more wired networks via this mode. In this mode, you need to add the Wireless MAC address of the connecting device into the Routers AP MAC address table or select one from the scanning table. At the same time, the connecting device should be in Lazy, Repeater or Bridge mode.

Repeater Mode: You can select the mode to extend the distance between the two WLAN devices. Functioning as a WDS repeater, the W306R connects to both a client card as an AP and to another AP. In typical repeater applications, APs connecting to other APs equipped with WDS functionality must also support WDS. In this mode, you need to add the MAC address of the connecting device into the Routers AP MAC address table and the connecting client should be in Lazy, Repeater or client mode.

Encryption Type: You can select WEP 64bits mode, WEP 128bits mode TKIP mode, AES mode for security here.

Encryption key: Enter the key, the key format according to encryption you selected.

Wireless Access Node MAC Address: Input the MAC address of another wireless router.

△ **Note:** Two wireless routers must use the same band, channel number, and security

setting.

DHCP Server

The TCP/IP protocol settings include the information of the IP address, subnet mask, gateway, and DNS server. Properly configuring the TCP/IP protocol for all computers in the LAN is not easy. Fortunately, the DHCP server provides this function.

DHCP Service

If you enable DHCP server of the router, the DHCP server automatically configures the TCP/IP protocol for each computer in the LAN.

 Basic Setting Running Status WAN Interface Settings 	DHCP Service Each PC's protocol that can be automatically assigned by the built-in DHCP server of the wireless router in the TCP/IP network.						
Wireless Settings Wireless Security Settings	DHCP Server	O Disable 💿 Enable					
 Expert Setting 	Start Address of Address Pool	192 . 168 . 0 . 2					
+ Network Settings	End Address of Address Pool	192 . 168 . 0 . 254					
+ Wireless Settings	Lease Time	86400 sec (The default value is 864 00)					
- DHCP Server	GateWay	192 168 0 1					
DHCP Service	Primary DNS Server	192 . 168 . 0 . 1 (Optional)					
Static Address Allocation DHCP Client List	Secondary DNS Server	192 . [168]. 0 . 1 (Optional)					
+ Forwarding Rule		Save Cancel					

Start Address of Address Pool: The first IP address that is automatically assigned by the DHCP server.

End Address of Address Pool: The last IP address that is automatically assigned by the DHCP server.

Lease Time: The time length of the corresponding IP address lease.

Gateway: You can enter the LAN IP address of the router. The default is 192.168.0.1. It is optional.

Primary DNS Server: Enter the information of the DNS server provided by the ISP. You can consult your ISP. It is optional.

Secondary DNS Server: If the ISP provides you two DNS servers, you can enter the IP address of the other DNS server in this field. It is optional.

Save: Click the Save button to save your setting.

Static Address Allocation

Y	Basic Setting	Static Address Allocation							
	Running Status	In this page, you can set static address allocation of the DHCP server.							
	WAN Interface Settings								
	Wireless Settings	Set rules							
	Wireless Security Settings	IP Address							
•	Expert Setting	MAC Address	Search MAC Address						
	Network Settings		Save Cancel						
	Wireless Settings								
	DUCD Sources	NO. IP Address	MAC Address	Delete					
	BITCE BELVEL	Delete							
	DHCP Service								
	Static Address Allocation								

IP Address: Enter one IP address for the computer on the LAN network.

MAC Address: Enter the MAC address of the computer you want to assign the above IP address. Click **Add** to add the entry in the list.

Save: Click the Save button to save your setting.

DHCP Client List

▼ Basic Setting	DHCP Clients List						
Running Status	In this page, you can view all DHCP clients information.						
WAN Interface Settings	igs						
Wireless Settings	Host Name	MAC Address	IP Address	Lease Time			
Wireless Security Settings	lianghebing	1C:6F:65:9D:AC:D4	192.168.0.2	21:38:56			
▼ Expert Setting	Refresh						

Refresh: Click to refresh the DHCP client list.

Sorwarding Rule

There are four submenus under the Forwarding menu, **Port Forwarding**, **Port Triggering Setting**, **DMZ Host** and **UPnP Settings**. Click any of them, and you will be able to configure the corresponding function.



Port Forwarding

v	Basic Setting	Port Forwarding
	Running Status WAN Interface Settings	Port Forwarding defines the mapping between the WAN service port and LAN network server. The client access to the WAN service port is redirected to the LAN network server with a specified IP address.
	Wireless Settings Wireless Security Settings	Port Forwarding Setting
	Expert Setting	Port Forwarding Setting Enable Save Cancel
	Network Settings	Rule's Name
	Wireless Settings	Server IP Address 192 . 168 . 0 . Search IP Address
	Forwarding Rule	Server Port Range Client Port Range
	Port Forwarding	Protocol O TCP&UDP O TCP O UDP
	Port Triggering Settings DMZ Host	(Max rule number 32) Add Cancel
	Multicast Forwarding	NO. Rule's Name Server IP Address Server Port Range Client Port Range Protocol
	Security Options	Delete

Disable/Enable: To realize the function of port forwarding, select Enable.

Rules Name: Enter the Rules Name.

Server IP Address: Enter the IP address of the server that should receive these requests. Details please refer to the note below.

Server Port Rang: The numbers of External Ports. You can type a service port or a range of service ports (in XXX – YYY format, XXX is the start port number, YYY is the end port number).

Client Port Rang: The numbers of client Ports. You can type a client port or a range of client ports (in XXX – YYY format, XXX is the start port number, YYY is the end port number).

Protocol: Select the protocol (TCP/UDP/Both) for the application.

Save: Click the Save button to save your setting.

▲ Note:

- Before using port forwarding, you should assign a static IP address to the designated server, and then enter this static IP address into router as the Server IP Address.
- Please ensure the SPI Firewall was closed before setting the port triggering. You could check the SPI Firewall settings at Expert SettingSecurity OptionsSecurity Settings.

Port Triggering Settings

Choose menu **Forwarding** > **Port Triggering**, you can view and add port triggering in the screen as shown below. Some applications require multiple connections, like Internet games, video conferencing, Internet calling and so on. These applications cannot work with a pure NAT Router. Port Triggering is used for some of these applications that can work with an NAT Router.

 Basic Setting 	Port Triggering Settings									
Running Status	Some applications require that specific ports in the Router's firewall be opened for access by remote									
WAN Interface Settings	parties. A maximum 10 entries can be configured.									
Wireless Settings	Anstruting Tripper									
Wireless Security Settings		Application	rigger			Open				
	serial numbers	Name	Name protocol	News	News	Port range		protocol	Port range	
 Expert Setting 				protocol	Start	end	Start		end	
+ Network Settings	That have options to: Enable Disable Delete Reset									
+ Wireless Settings										
+ DHCP Server	Increase the application of rules									

Application Name: Describe the name of the application that being set.

Start/End Trigger Port: The port for outgoing traffic. An outgoing connection using this port will trigger this rule.

Trigger Protocol: The protocol used for Trigger Ports, TCP, UDP, or **TCP/UDP**. If you are not clear about which protocol was being used, **TCP/UDP** is recommended.

Open Port: The port or 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 Port Protocol: The protocol used for Incoming Ports Range, either **TCP** or **UDP**, or **TCP/UDP**. If you are not clear about which protocol was being used, **TCP/UDP** is recommended.

To modify an existing entry:

Enable: Select the number of application and click the **Enable** button to make it enabled.

Disable: Select the number of application and click the **Disabled** button to make it disabled.

Delete: Select the number of application and click the **Delete** button.

Reset: Select the number of application and click the **Reset** button.

To add a new rule, follow the steps below:

Click Increase the application of rules button, the following screen appear:

Increase the application									
Application	Application Name:								
۲	Please	select one of Applica	ations	Select One					
0	Custor	mapplication name:							
Start Trig	iger Port	End Trigger Port	Trigger Protocol	A range of ports can be opened from after Trigger	A range of ports can be opened to after Trigger	Open ports Protocol			
			TCP 💙			TCP 💙			
			тср 💌			TCP 💌			

Please select one of the applications: There are few common applications available such as Dailpad, MSN gaming, PC Phone etc. the blank will be automatically filled once been chosen.

Custom application name: If the application you want to add is not included, enter the blank manually.

Save: Click the Save button to save your setting.

- ∧ Note:
- Before using port forwarding, you should assign a static IP address to the designated server, and then enter this static IP address into router as the **Server IP Address**.
- Please ensure the SPI Firewall was closed before setting the port triggering. You
 could check the SPI Firewall settings at Expert Setting > Security Options > Security
 Settings.

DMZ Host

DMZ Host forwards all the ports at the same time to one PC.

▼ Basic Setting	DMZ Host	
Running Status	In this page, you can configure	the DMZ host in your computer
WAN Interface Settings		
Wireless Settings	DMZ	
Wireless Security Settings	DMZ Status	Enable DMZ
 Expert Setting 	IP Address of the DMZ Host	
+ Network Settings		Save Cancel

DMZ Status: Click the checkbox to choose disable or enable DMZ.

IP Address of DMZ Host: Click **Search IP Address** to clone the IP address of the computer you want to expose.

Save: Click the Save button to save your setting.

To set a DMZ host, do as follows:

- 1. Enter the IP address of the computer in the LAN that you want to set to a DMZ host in the DMZ Host IP Address field.
- 2. Select Enabled.
- 3. Click Save to complete the settings.

▲ Note:

- Before using DMZ Host, you should assign a static IP address to the designated server, and then enter this static IP address into router as the Server IP Address.
- DMZ priority is higher than the Port Forwarding, if the DMZ open, all the port forwarding rules are not effective.

UPnP Settings

•	Basic Setting	UPı	nP Settings					
	Running Status	In thi	In this page, you can choose whether to open the UPnP function					
	WAN Interface Settings							
	Wireless Settings	UPnP Status: Disable 🖌 Save						
	Wireless Security Settings							
				UF	'nP Settings List			
	Expert Setting	ID	Application Remarks	External Port	Protocol Type	Internal Port	IP Address	Status
	Network Settings							

UPnP: Click the checkbox to Enable or Disable the UPnP.

Save: Click the Save button to save your setting.

Multicast Forwarding Settings

▼ Basic Setting	Multi	cast Forwarding	Settings			
Running Status	In this p	In this page, you can choose whether to Use the Multicast Forwarding funtion				
WAN Interface Settings						
Wireless Settings	Multicast Forwarding Status: Enable 🔽 Save					
Wireless Security Settings						
- Free and Routing	Group List					
 Expert Setting 	ID	Group Mac	Group IP	Host IP	Port	Status
+ Network Settings	1	01:00:5e:7f:ff:fa	239.255.255.250	192.168.0.2	1	reported
+ Wireless Settings						

Security Options

There are four submenus under the Security Options menu: **Security Settings**, **Advanced Security Settings**, **LAN Web Management** and **Remote Web Management**. Click any of them, and you will be able to configure the corresponding function.

Advanced Security Settings
LAN Web Management
Remote Web Management

Security Settings

 Basic Setting 	Security Setti	ngs
Running Status	In this page, you can	set to enable or disable each basic security option.
WAN Interface Settings		
Wireless Settings	SPI (Stateful Packet Ins	spection)
Wireless Security Settings	SPI Firewall	● Enable ○ Disable
 Expert Setting 	Virtual Private Network	k (VPN)
+ Network Settings	PPTP Pass-through	● Enable ○ Disable
+ Wireless Settings	L2TP Pass-through	● Enable ○ Disable
	IPSec Pass-through	⊙ Enable ○ Disable
+ DHCP Server	Application Layer Gate	eway (ALG)
+ Forwarding Rule	FTP ALG	💿 Enable 🔘 Disable
 Security Options 	TFTP ALG	💿 Enable 🔘 Disable
Security Settings	SIP ALG	🔿 Enable 💿 Disable
Advanced Security Settings		Save Cancel

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Stateful Packet Inspection (SPI): When the SPI firewall is enabled, the system refuses all requests from the Internet. Only packets that belong to connections that respond requests from the LAN and for which status database is created can pass the firewall and access to the LAN. By default, the SPI is enabled. To expose all hosts in the LAN to the Internet, you can disable SPI.

Virtual Private Network (VPN): VPN provides a safe communication method among remote computers through WAN. If a host in the LAN wants to connect to the remote VPN network through the router by using the VPN protocol, such as PPTP, L2TP, or IPSec, you need to enable the corresponding VPN pass through.

Application Layer Gateway (ALG): ALG supports that some protocols at the application layer that adopt the control/data mode, such as FTP, TFTP, and H323, help to translate network addresses and ports at the NAT gateway. You are recommended to enable this option. The Common Service Port drop-down list contains some common service ports. You can select one and click Add to add the service port to the virtual server list.

Advanced Security Settings

Basic Setting Running Status	Advanced Security Settings In this page, you can set the advanced options of security protection	m.
WAN interface Settings Wireless Settings Wireless Security Settings	Anti DoS Attack Enable filtering ICMP-FLOOD attack	Oisable C Enable
▼ Expert Setting	ICMP-FLOOD Packet Threshold (5-3600)	packets/s
+ Network Settings	Enable filtering UDP-FLOOD attack	
+ Wireless Settings	UDP-FLOOD Packet Threshold (5-3600)	packets/s
+ DHCP Server	Enable filtering TCP-SYN-FLOOD attack	
+ Forwarding Rule	TCP-SYN-FLOOD Packet Threshold (5-3600)	packets/s
- Security Options	Deny the PING packet from the WAN interface	
Security Settings Advanced Security Settings	Save Cancel	

Anti DoS Attack: Check to enable it for attack prevention.

IGMP-Flood Packet Threshold: If the number of ICMP data packets exceeds the threshold, the defense measures act immediately.

Enable filtering UDP-FLOOD attack: Select it if you want to protect against UDP-FLOOD attacks.

UDP-Flood Packet Threshold: If the number of UDP data packets exceeds the threshold, the defense measures act immediately.

Enable filtering TCP-SYN-FLOOD attack: Select it if you want to protect against TCP-SYN-FLOOD attacks.

TCP-SYN-Attack Packet Threshold: If the number of TCP-SYN data packets exceeds the threshold, the defense measures act immediately.

Block the PING packets from the WAN interface: If you select this option, the PC in the WAN cannot send the PING packets to the router.

Block the PING packets from the LAN: If you select this option, the PC in the LAN cannot send the PING packets to the WAN.

Save: Click the Save button to save your setting.

LAN Web Management

The alternative to remote web management, it is to allow the network administrator to manage the Router in LAN. Any PC in the LAN can access the Web management utility by default, so you can enter the specific MAC address of the LAN computer.

▼ Basic Setting Running Status WAN Interface Settings	LAN Web Management In this page, you can set the MAC addresses of computers in the I management.	.AN which can perform Web
Wireless Settings Wireless Security Settings	$\textcircled{\ensuremath{ \odot}}$ Allow all hosts in the LAN to access the Web management page	
Expert Setting	\bigcirc Allow only MAC address in the list to access the Web management page	le
+ Network Settings	MAC Address 1	IAC Address
+ Wireless Settings	MAC Address 2	IAC Address
+ DHCP Server	MAC Address 3	IAC Address
+ Forwarding Rule	MAC Address 4 Search N	IAC Address
 Security Options 	Save Cancel	
Security Settings		

MAC Address 1/2/3/4: Enter the MAC addresses of LAN computers.

Save: Click the Save button to save your setting.

Remote Web Management

•	Basic Setting	Remote Web Management
	Running Status	In this page, you can set the Web management port of the router and the IP address of the computer in
	WAN Interface Settings	the WAN.
	Wireless Settings	
	Wireless Security Settings	Enable Remote Web Management:
	Expert Setting	Web Management Port: 80
+	Network Settings	IP Address of Remote Web Management: 255 . 255 . 255 . 255
	Wireless Settings	Save Cancel

This section is to allow the network administrator to manage the Router remotely. If you want to access the Router from outside the local network, please select the **Enable Remote Web Management**.

Web Management Port: The management port open to outside access the default value is 80.

IP Address of Remote Web Management: Specify the range of the WAN IP address for remote management.

Save: Click the Save button to save your setting.

Access Control

There are two submenus under the Access Control menu. Click any of them, and you will be able to configure the corresponding function.

-	A c c ess Control
	Web URL Filtering

• MAC/IP/Port Filter Settings

This page is used to enable the firewall filtering function, select the filtering service or manually set the parameters that need to be filtered, such as MAC address, IP address and Port. You must set at least one filtering condition. You may also set multiple conditions or all the conditions.

▼ Basic Setting	MAC/IP/Port Filter Settings	
Running Status	In this page, You may setup the filter rules, maximum is 10.	
WAN Interface Settings		
Wireless Settings	Basic Settings	
Wireless Security Settings	MAC/IP/Port Filtering	Disable 🗸
 Expert Setting 	Default Policy The packet which don't match with any rules would be:	Accepted V
+ Network Settings	Save Cancel	
+ Wireless Settings		
+ DHCP Server	Current IP/Port Filtering Rules	
+ Forwarding Rule	No. Mac Dest IP Source IP Dest. Port Src Port Address Address Address Range Range	Action Comment
+ Security Options	Others would be accepted	-
- Access Control	Delete Selected Cancel	
MAC/IR/Port Filter Settings		

MAC/IP/Port Filtering: Select Enabled or Disabled to enable or disable filtering.

Default Policy: Accepted chose, all the packets and devices will be allowed to be passed normally, opposite action will be happened if **Dropped** was been chosen.

Current IP/Port Filtering Rules: All the existing rules will be listed below, any needed of rules deleting, please select the rules, and then click **Delete Selected**.

△ **Note:** Please synchronize the routers time first when selecting the timing function.

Web URL Filtering

 Basic Setting Running Status WAN Interface Settings 	Web URL Filtering In this page, you can add or delete URL filtering rules system to restrict access to inappropriate Web page URL (The max is ten)
Wireless Settings	The current system's website at URL filtering rules:
Wireless Security Settings	NO. URL
 Expert Setting 	
+ Network Settings	Delete
+ Wireless Settings	Add URL filter rules
+ DHCP Server	URL:
+ Forwarding Rule	
+ Security Options	Auu Cancel
- Access Control	

Web URL Filter: Check to enable URL filter.

Save: Click the Save button to save your setting.

Routing Settings

There are two submenus under the Routing Setting menu. Click any of them, and you will be able to configure the corresponding function.

•	Routing Settings
	Dynamic routing settings

Static Routing Table

•	Basic Setting	Static Routing Table									
	Running Status	In this page, you can set the static routing information of the router.Max rule number 10.									
	WAN Interface Settings	Current Routing table in the system:									
	Wireless Settings										
	Wireless Security Settings	No.	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface	Comment
-	 Expert Setting 	1	192.168.100.0	255.255.255.0	0.0.0.0	1	0	0	0	br1	
		2	172.16.161.0	255.255.255.0	0.0.0.0	1	0	0	0	eth2.2	
	Network Settings	3	192.168.0.0	255.255.255.0	0.0.0.0	1	0	0	0	br0	
+ '	Wireless Settings	4	0.0.0.0	0.0.0.0	172.16.161.254	3	1	0	0	eth2.2	
	DHCP Server				Delete	Add					

The main duty for router is to look for a best path for every data frame, and transfer this data frame to destination. So, it is essential for the router to choose the best path, i.e. routing arithmetic. In order to finish this function, many transferring paths, i.e. routing table, are saved in the router, for choosing when needed.

Dynamic Routing Settings

▼ Basic Setting	Dynamic Routi	ing Settings				
Running Status	In this page, you can	this page, you can configure some of the basic settings of dynamic routing				
WAN Interface Settings						
Wireless Settings	Dynamic routing					
Wireless Security Settings	RIP	Disable 💌				
 Expert Setting 	Rip Version	version 2 💟				
+ Network Settings	Authentication Code	Disable 😪				
+ Wireless Settings						
+ DHCP Server		Save Cancel				

RIP: The Routing Information Protocol (RIP) is a dynamic routing protocol used in local and wide area networks. Choose **Enable** dynamic routing need to be activated.

Rip Version: Choose the version of RIP.

Authentication Code: Choose the encrypt method used between routers.

Save: Click the Save button to save your setting.

IP Bandwidth Control

There are two submenus under the IP Bandwidth Control menu. Click any of them, and you will be able to configure the corresponding function.



IP Bandwidth Control Settings

 Basic Setting 	IP Bandwidth Control Settings		
Running Status	In this page, you can enable or disable IP bandwidth control.		
WAN Interface Settings			
Wireless Settings	Enable IP bandwidth control		
Wireless Security Settings	Total Uplink Bandwidth Kbps		
 Expert Setting 	Total Downlink Bandwidth Kbps		
+ Network Settings	Save Cancel		

Enable IP bandwidth control: If you select it, the bandwidth control rule takes effect.

Total Uplink Bandwidth: The rate of uploading through the WAN interface.

Total Downlink Bandwidth: The rate of downloading through the WAN interface.

Save: Click the Save button to save your setting.

▲ Note:

- The bandwidth conversion: 1 Mbps = 1024 Kbps.
- Select the type of the broadband line and the bandwidth according to the actual situation. If you are not sure about the information, consult your broadband provider.
- After finishing the settings, click the Save button to apply the settings.

IP Bandwidth Control List

▼ Basic Setting	IP Bandwidth Control List								
Running Status WAN Interface Settings	In this page, you can set rules of IP bandwidth control.								
- Wireless Settings Wireless Security Settings	ID	Remarks	Uplink Band	Uplink Bandwidth (Kbps)		Downlink Bandwidth (Kbps)		Edit	Delete
	10		Min	Max	Min	Max	LIIADIC	Edit	Delete
Export Sotting	The list is empty. Add Delete								
* Expert setting									
+ Network Settings									

Enable IP bandwidth control: If you select it, the bandwidth control rule takes effect.

Total Uplink Bandwidth: The rate of uploading through the WAN interface.

Total Downlink Bandwidth: The rate of downloading through the WAN interface.

Bandwidth setting: The min. rate can be zero, the sum of all items min. rate should be

 \leq the master bandwidth. The max rate must > 0. If the max rate is larger than the master bandwidth, the rule will use master bandwidth instead.

Save: Click the Save button to save your setting.

Dynamic DNS Settings

The **DDNS (Dynamic Domain Name System)** is supported in this router. It is to assign a fixed host and domain name to a dynamic Internet IP address, which is used to monitor hosting website, FTP server and so on behind the Router. If you want to activate this function, please select Enable and a DDNS service provider to sign up.

 Basic Setting 	Dynamic DNS Settings		
Running Status	In this page, you may configure Dynamic DNS parameters		
WAN Interface Settings			
Wireless Settings	Dynamic DNS service settings		
Wireless Security Settings	Dynamic DNS service website Disable		
 Expert Setting 	UserName		
+ Network Settings	PassWord		
+ Wireless Settings	Dynamic DNS service address		
+ DHCP Server	Save Cancel		

Dynamic DNS service website (DDNS): Select to enable or disable the DDNS service.

Username: Enter the username the same as the registration name.

Password: Enter the password you set.

Dynamic DNS service address: Enter the DDNS service address.

Save: Click the Save button to save your setting.

System Tools

This section is to select the time zone for your location. If you turn off the Router, the settings for time disappear. However, the Router will automatically obtain the GMT time again once it has access to the Internet.



Network Time Settings

•	Basic Setting Running Status WAN Interface Settings	Network Time Setting In this page, you can set the network time of system.				
	Wireless Settings	Network Time Setting				
	Wireless Security Settings	Current Time	Fri Jan 1 10:33:49 UTC 1971 Synchro	onize with the host		
	Expert Setting	Time Zone	(GMT+09:00) South Korea,Japan			
	Network Settings		time.kriss.re.kr			
	Wireless Settings	Network time server	ex: time.nist.gov ntp0.broad.mit.edu			
	DHCP Server		time.stdtime.gov.tw			
+	Forwarding Rule		Save Cancel			

Current time: Show the current time.

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

Network time server: To set NTP server.

Save: Click the Save button to save your setting.

▲ **Note:** The system will Synchronous with the Network Time Server every hour after saving, and it will affect the WAN dial-up on demand.

Diagnosis Tools

 Basic Setting Running Status WAN Interface Settings 	Diagnosis Tools In this page, you can use the PII	VG or Tracert function to diagnose the connection status of the router.
Wireless Settings	Parameter Settings	
Wireless Security Settings	Select	Ing ○ Tracert
 Expert Setting 	IP Address/Domain Name	
+ Network Settings	Ping Packet Total	4 (1-50)
+ Wireless Settings	Ping Packet Size	64 (8-1472)
+ DHCP Server	Ping Timeout	10 (10-100, Unit: seconds)
+ Forwarding Rule	Tracert Hops	20 (1-30)
+ Security Options	Diagnosis Result	
+ Access Control		A
+ Routing Settings		
+ IP Bandwidth Control		
- Dynamic DNS Settings		
- System Tools		
Network Time Settings		
Diagnosis Tools	4	×
WOL Load Default Settings		Start Diagnosis Cancel

Select: Select Ping or Tracert.

IP Address/Domain Name: The destination IP address or domain name.

Ping Packet Total: The number of transmitted data packet when Ping operation is carried out.

Ping Packet Size: The size of transmitted data packet when Ping operation is carried

out.

Ping Timeout: The timeout time of the ping operation.

Tracert Hops: The hops of tracert.

Click Start Diagnosis button, the selected ping or tracert testing will be started.

Below is a Ping diagnosis example that router has been connected to IP 172.16.160.31:

l	Diagnosis Result			
	PING 172.16.160.31 (172.16.160.31): 64 data bytes 72 bytes from 172.16.160.31: seq=0 ttl=127 time=2.260 ms 72 bytes from 172.16.160.31: seq=1 ttl=127 time=1.900 ms 72 bytes from 172.16.160.31: seq=2 ttl=127 time=2.760 ms 72 bytes from 172.16.160.31: seq=3 ttl=127 time=3.620 ms			
	172.16.160.31 ping statistics 4 packets transmitted, 4 packets received, 0% packet loss round-trip min/avg/max = 1.900/2.635/3.620 ms			

Below is a Ping diagnosis example that router has failed to connect to IP 100.1.1.1:

Diagnosis Result				
PING 100.1.1.1 (100.1.1.1): 64 data bytes				
100.1.1.1 ping statistics 4 packets transmitted, 0 packets received, 100% packet loss				

Wake On LAN

WOL broadcasts so called Magic Packet Frames across a network to wake up hardware that understands such packets. These are normally NICs with Wake On LAN function.

▼ Basic Setting	Wake On LAN			
Running Status	In this page, you can use mac address to wake up computes which normally NIC's with Wake On La			
WAN Interface Settings	function			
Wireless Settings				
Wireless Security Settings	MAC Address			
 Expert Setting 	Search MAC Address			
+ Network Settings	Explain PC			
+ Wireless Settings	You can register max 10 item Add			
+ DHCP Server	NO MAC Address Explain PC			
+ Forwarding Rule	Wake Up Delete			

MAC Address: Increase a MAC address to wake the computer on.

Explain PC: Description about the computer.

Add: Click the Add button to finish, and the computer will display in the list.

Select one or more computers in the list, and click the **Wake Up** button, these computers will be waked up.

Load Default Settings

 Basic Setting 	Load Default Settings
Running Status	In this page, you can reset the router to factory defaults.
WAN Interface Settings	
Wireless Settings	Load Default Settings
Wireless Security Settings	Load Default Settings Load Default Settings

Load Default Settings: Click this button to restore to factory default settings.

User Name: admin

Password: admin

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

▲ **Note:** After restoring to default settings, please restart the device, then the default settings can go into effect.

Export and Load Settings

 Basic Setting 	Export And Load Settings			
Running Status	In this page, you can back up the existing configuration file, you can also load an existing configuration			
WAN Interface Settings	file to change the configuration.			
Wireless Settings	Export Settings			
Wireless Security Settings				
Expert Setting	Expon Buildin			
Network Settings	Warning! To upgrade the incorrect configuration file will lose your settings.			
Wineless Settings	Import Settings			
	Set File Locations Browse			
DHCP Server	Save Cancel			
Forwarding Rule				

Reboot

Rebooting the Router makes the settings configured go into effect or to set the Router again if setting failure happens.

▼ Basic Setting	Reboot
Running Status	It takes about 2 Minutes to restart the router.
WAN Interface Settings	
Wireless Settings	Really need to restart the router?
Wireless Security Settings	
 Expert Setting 	ReBoot

Reboot the router: Click this button to reboot the device.

System Settings

•	Basic Setting	System Settings	
	Running Status	In this page, you can set the system administrator with the password, network time, Dynamic Domain Name Service.	
	WAN Interface Settings		
	Wireless Settings		
	Wireless Security Settings	Account Management	
	Expert Setting	Account	admin
	Network Settings	Enter the new password	
	Wireless Settings	Re-enter password	
	DHCP Server		Save Cancel

Account: Enter the username you set.

Enter the new Password: Enter the password you set.

Re-enter password: Re-enter the password you set.

System Log

The section is to view the system log. Click the **Refresh** to update the log. Click **Clear** to clear all the shown information. If the log is over 150 records, it will clear them automatically.

▼ Basic Setting	System Log
Running Status	In this page, you can check the system log of the device.
WAN Interface Settings	
Wireless Settings	Enable remote System Log
Wireless Security Settings	Save

Enable remote System Log: Check the radio button to enable remote System Log.

Save: Click the Save button to save your Log.

Clean: Click the Clear button to clear all shown information.

Traffic Statistics

This page used to display the current system memory usage, WLAN, LAN and WAN networks to send and receive data packets to the number.

▼ Basic Setting	Traffic Statistics	
Running Status	In this page, you can check the wireless router statistics.	
WAN Interface Settings		
Wireless Settings	Memory	
Wireless Security Settings	Total Memory Capacity:	13888 kB
The set Cotting	The remaining amount of memory:	2096 kB
• Expert setung	WAN / LAN	
+ Network Settings	The packet numbers that the wide area network receives:	73280
+ Wireless Settings	The data amount that the wide area network receives:	8731735
	The packet numbers that the wide area network transmits:	6539
	The data amount that the wide area network transmits:	1269333
+ Forwarding Rule	The packet numbers that the local area network receives:	57119
+ Security Options	The data amount that the Local area network receives:	3737378
+ Access Control	The packet numbers that the local area network transmits:	22545
	The data amount that the local area network transmits:	16520613
+ Routing Settings	All of the interface	

Setup Wizard

Please find the section of **Setup Wizard**.

Software Upgrade

Software Update

Basic Setting	Software Update	
Running Status	Upgrade the Wireless router's Software to obtain new functionality.	
WAN Interface Settings Wireless Settings	Current Hardware Version□1.0 Current Software Version□1.0 Upload the Software will takes about 3 minutes.	
Wireless Security Settings	Please keep power on and be patient during upgrading procedures.	
Expert Setting	Caution A corrupted image or power broken of during the upgrading will hang up the system. After finished the upgrade, the connections will be broke down when the system rebooting. Software Update	
Setup Wizard		
Software Upgrade	Notice: After upgrade, AP might lost its configurations, it is better to save your configuration to file before upgrading.	
Logout	Location: Update Update	
	Auto Upgrade	
	Auto FTP Upgrade: Update	

You can choose to upgrade manually by:

- 1. Click the **Browse** button to browse the directory where you download the software upgrade files.
- 2. Click **Update** button to start upgrade.

Or you can choose to upgrade automatically by click the **Update** button, the router will download and upgrade automatically from FTP server.

Router will auto reboot when the upgrade finished.

- ▲ Note:
- Router might be changed to factory default settings after upgrade, please backup in advance.
- During the updating, please do not turn off the power.
- Please make sure the software version is matching with the existing hardware.

Logout

Click to logout from the router configuration web.

Specification

Wireless		
Standard	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, CSMA/CA with ACK	
Wireless Signal Rate	11n: 300Mbps 11g: 54Mbps 11b: 11Mbps	
Frequency Range	2.4-2.4835GHz	
Wireless Transmit Power	< 20dBm	
Modulation Type	OFDM/CCK/16-QAM/64-QAM	
300M: -68dBm@10% PER 108M: -68dBm@10% PER 54M: -68dBm@10% PER 11M: -85dBm@8% PER 6M: -88dBm@10% PER		
Security 64/128-bit WEP, WPA/WPA2-Enterprise, WPA /WPA2-Personal (TK		
Support Operating System	Microsoft® Windows® 98SE, NT, 2000, XP, Vista and Windows 7	
Hardware		
Connection 4 x 10/100Mbps LAN ports 1 x 10/100Mbps WAN port Power connector		
Button	Power button WPS button Reset button	
Power Supply	12VDC, 0.5A	
Dimension (W x D x H)	150 x 144 x 28mm	
Package		
Contents	1× Wireless N Router 1× Power Adapter 1× CD-ROM 1× Quick Installation Guide 1× RJ-45 Ethernet Cable	
Others		
Operating Temperature	ng Temperature 0°C~40°C (32°F~104°F)	
Storage Temperature	-40°C~70°C (-40°F~158°F)	
Relative Humidity	10% ~ 90%, non-condensing	
Storage Humidity	5% ~ 95%, non-condensing	
Certification	FCC, CE, ROHS	

Appendix A: Troubleshooting

1. Feixun Setup cannot find my Router.

If Feixun Setup is not able to communicate with your Router during installation, please check the following items.

- Ensure that the Router is on. The front-panel light should be on.
- Make sure the computer is connected to the routers LAN port via cable.
- Make sure the routers WAN port is connected to DSL modem via cable.
- There may be firewall software on your computer preventing an outgoing connection. You may choose to temporarily disable this software before attempting setup.
- Unplug the Routers power supply for 10 seconds, then plug it back in.

2. The DSL telephone line does not fit into the Routers Internet port.

The Router does not replace your modem. You still need your DSL modem in order to use the Router. Connect the telephone line to the DSL modem, and then insert the setup CD into your computer. Follow the QIG to install your router.

3. I cannot enter into the routers web page or cannot login.

- Check if the computer is connected to the router.
- Configure your computers IP address, details please refer to the section of Configure the Computers IP Address in this manual.
- If you cannot login because of forgetting username and password, please reset router by pressing reset button for 5 seconds, and then login with default username and password (admin/admin).

4. The computer cannot connect to the Internet.

- Make sure that the Power LED, WAN LED, and Wireless LED are on; the LAN LED you connected is on or blinking.
- Make sure the DSL/cable modem is connect to the Router correctly.
- Make sure to enter correct password. If you have forgotten the password, please reset the router by pressing reset button.
- Reconnect all of the devices on your network if you still cannot link to the Internet.

5. The computer cannot connect to the network wirelessly.

At first, please make sure you could log on the Internet successfully by cable (detailed operations please refer to Question 3), and then do the followings to check the wireless connection:

• If you are far from the Router, you might try moving closer to see if you might have been out of range.

- Search available networks and choose your network. If your network SSID is not listed in, please connect to Router via a network cable, visit 192.168.0.1 and ensures the Broadcast SSID is enabled. This setting can be found on the Wireless Settings page.
- Make sure the wireless network name or SSID is the same on both the computer and the Router.
- If you have enabled wireless security, then make sure the same security method and key are used by both the computer and the Router.
- 6. I've installed this new Router and some of my network clients (computers, game consoles etc.) are unable to connect.

Your new Router came pre-configured with a network name and no password. All clients must use this network name to connect wirelessly to your Router. You will need to find the network settings on your client, and select the network name from the list of available networks to join the wireless network. Details please refer to your client (computer, game consoles etc.).



FCC 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 and, if not installed and used in accordance with the instructions, 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

FCC Caution

- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.
- This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

• CE Mark Warning



Marking with the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC).

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.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

▲ **Note:** Please don't use the product outdoors in France.

Appendix C: Glossary

- 802.11b: The 802.11b standard specifies a wireless networking at 11 Mbps using directsequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11g:** Specification for wireless networking at 54 Mbps using direct-sequence spreadspectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **DDNS (Dynamic Domain Name System):** The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- **DHCP (Dynamic Host Configuration Protocol):** A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- **DMZ (Demilitarized Zone):** A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- **DNS (Domain Name System):** An Internet Service that translates the names of websites into IP addresses.
- **Domain Name:** A descriptive name for an address or group of addresses on the Internet.
- **DSL (Digital Subscriber Line):** A technology allowing data to be sent or received over existing traditional phone lines.
- ISP (Internet Service Provider): A company that can provide access to the Internet.
- MTU (Maximum Transmission Unit): The size in bytes of the largest packet that can be transmitted.
- NAT (Network Address Translation): NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- **PPPoE (Point to Point Protocol over Ethernet):** PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- SSID (Service Set Identification): It is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- WEP (Wired Equivalent Privacy): A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- Wi-Fi: A trade name for the 802.11b wireless networking standard, given by the Wireless

Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.

• WLAN (Wireless Local Area Network): A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

☑ Appendix D: Technical Support

Please contact Feixun technical support through Feixun website:

www.feixun.com.cn

Support via E-mail:

support@feixun.com.cn

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. FWR-734N)
- Hardware version (e.g. Ver.: A1.0)
- Serial number (S/N)

All these information can be found on the label at the bottom of your product.

www.feixun.com.cn



Shanghai Feixun Communication Co., Ltd.