

# Wireless Router WR-150 Quick Installation Guide



RECYCLABLE

### Federal Communications Commission (FCC) Statement

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.

This device should be installed and operated with a minimum distance of 20 cm between the antenna and all persons.

Note: 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.

Warning: Changes or modifications made to this device not expressly approved by SHENZHEN MTN ELECTRONICS CO., LTD.may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

# **LEDS** Description

Name	Status	Indication
	Off	No Power
PWR	On	Power on
	Off	The Router has an error
Status	On	The Router is initializing
	Flashing	The Router is working properly
	Off	The Wireless function is disabled
WLAN	Flashing	The Wireless function is enabled
	Off	There is no device linked to the corresponding port
		There are devices linked to the corresponding ports but no
	On	data transmitted or received.
WAN/LAN(1~4)	Flashing	Sending or receiving data over corresponding port

The Router's LEDs are located on the front panel(View from left to right).

## **Reset Button**

There are two ways to reset the router's factory defaults:

1) Use the Factory Defaults function on Management -> Save/Reload Settings page in the router's Web-based Utility.

2) Use the Factory Default Reset button: With the router powered on, use a pin to press and hold the Reset button(about 5 seconds) until the SYS LED becomes quick-flash from slow-flash. And then release the button and wait the router to reboot to its factory default settings.

# Configuring the Router

In the IE browser, type "192.168.1.1" into the login screen.

) 🛃 http://192.168.1.1/home.asp

Enter you username and password, the default username is "admin", and the default password is "admin".

连接到 192.168.	. 1. 1 ? 🔀
Wireless Access P	oint
用户名 (1):	😰 admin 💌
密码(£):	
	🗌 记住我的密码 🗷
	确定 取消

After your successful login, you can see the interface as follows:

11 Portab	<b>N-ROUTE</b> le 1 1n Wireless Ro	E R Nuter				$ \rightarrow $	$\leq$
Wizard	Operation Mode	WAN Interface LAN Interface	Wireless Firewall	Advanced Man	agement Statistics	SysLog Status	3
			Contract of the second s				^
		System					
		Uptime	Oday: 01	n:6m:56s			
	INTERNET	Firmware Version	8196c (8	358)-16M2M-2T2R-V1.	00-STD-EN(20120215)		
		Build Time	Tue Feb	5 15 09:49:24 CST :	2011		
		Vireless Configuration					
		Lode	AP				
	WIRELESS	Band	2.4 GH:	z (B+G+N)			
		SSID	WR-11n				
		Channel Number	11				
( SE	SETTINGS	Encryption	Disable	ed			
$\sim$		BSSID	00:e0:4	lc:81:96:37			
		Associated Clients	1				
		<b>TCP/IP</b> Configuration					
	SECURITY	Attain IP Protocol	Fixed 1	[P			
$\sim$		IP Address	192.168	3.1.1			
		Subnet <b>T</b> ask	255.255	5.255.0			
0-0-0-	PASSWORD	Default Gateway	192.168	3.1.1			
		DHCP Server	Enabled	1			
		<b>EAC</b> Address	00:e0:4	lc:81:96:37			
X	EXIT	<b>VAN</b> Configuration					
		Attain IP Protocol	Getting	g IP from DHCP serv	7er		
		IP Address	0.0.0.0	)			
		Subnet <b>X</b> ask	0.0.0.0	)			
		Default Gateway	0.0.0.0	)			
		TAC Address	00.00.0	10.81.96.09			~
		<		10			>

You can configure and manage the router. There are seven main menus on the left of the Site contents. Submenus will be available after you click one of the main menus. The seven main menus are: Setup Wizard,Operation Mode,Wireless,TCP/IP Settings,Firewall,Management,Logout. To apply any settings you have altered on the page, please click the Apply Change button.

# 1. Setup Wizard

The setup wizard will guide you to configure access point for first time. Please follow the setup wizard step by step.



# 1.1 Operation Mode

You can setup different modes to LAN and WLAN interface for NAT and bridging function.

11 Portab	<b>N-ROUTE</b> le 1 1n Wireless Ro	E <b>R</b> puter								$\succ$
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET	<b>1. Ope</b> You can set bridging fu	eration tup different metion.	Mode modes to LAI	N and WLAN	interface fo	r NAT and			
<b>@</b>	WIRELESS	⊙ Gatewa	ay: In this interne PCs in WAN por by usin or stat	mode, the t via ADSL/( four LAN por t. The connu- g PPPOE, DHO ic IP.	device is s Cable Modem rts share t ection type CP client,	supposed to c a. The NAT is the same IP t c can be setu PPTP client,	onnect to enabled and o ISP through p in WAN page L2TP client			
	SECURITY	○ Bridg	e: In this interfa disable are not	mode, all ce are brid; d. All the supported.	ethernet po ged togethe WAN related	orts and wire or and NAT fu l function an	less nction is d firewall			
	PASSWORD	• Vifi :	ISP: In this and the point. share t must se to the can be	mode, all wireless c The NAT is he same IP t the wirel ISP AP in S setup in WAI	ethernet po lient will enabled and to ISP thro ess to clie ite-Survey N page by u	orts are brid connect to I l PCs in ethe ough wireless ent mode firs page. The co ssing PPPOE.	ged together SP access rnet ports LAN. You t and connect nnection type DHCP client.			
			PPTP cl	ient, L2TP	client or s Cancel	etatic IP.	Next>>			

Click the "cancle" button to cancle the setting. Click the "Back" button to return to top-level directory. Click the "Next" button to get into the next-level directory.

# 1.2 Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.



Click the "cancle" button to cancle the setting.

Click the "Back" button to return to top-level directory.

Click the "Next" button to get into the next-level directory.

# 1.3 LAN Interface Setup

You can configure the parameters for local area network which connects to the LAN port of your Access Point.Here you may change the setting for IP address, subnet mask, DHCP, etc.



IP Address – Enter the IP address of your router in dotted-decimal notation (factory default: 192.168.1.1).

Subnet Mask – An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

Click the "cancle" button to cancle the setting.

Click the "Back" button to return to top-level directory.

Click the "Next" button to get into the next-level directory.

Note: If you change the IP Address of LAN, you must use the new IP Address to login the router.

# 1.4 WAN Interface Setup

– 11 Portab	<b>N-ROUT</b> ole 11n Wireless Re	E R outer				_	/		7	$\succ$
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET WIRELESS SETTINGS SECURITY PASSWORD EXIT	4. WA This page which con change th click the VAN Acce	N Interi	face Se nfigure the AN port of y d to static WAN Access HCP Client	cancel	for Internet Point. Here PPPoE, PPTP c	t network you may or L2TP by			

a. If you choose the DHCP Client, you must have another DHCP server within your network or else you must manually configure the computer.

b. If you choose Static IP, you should have fixed IP Parameters specified by your ISP. You should type the following parameters into the spaces provided:

IP Address – Enter the IP address in dotted-decimal notation provided by your ISP. Subnet Mask – Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.

Default Gateway - (Optional) Enter the gateway IP address in dotted-decimal notation provided by your ISP.

MTU Size – The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.

DNS 1 – (Optional) Enter the DNS address in dotted–decimal notation provided by your ISP.

DNS 2 – (Optional) Type another DNS address in dotted-decimal notation provided by your ISP if provided.

DNS 3 – (Optional) Type the third DNS address in dotted-decimal notation provided by your ISP if provided.

c. If you choose PPPoE, you should enter the following parameters.

User Name/Password – Enter the User Name and Password provided by your ISP. These fields are case-sensitive.

Connection Type:

Connect on Demand – You can configure the router to disconnect your Internet connection after a specified period of inactivity (Max Idle Time). If your Internet connection has been terminated due to inactivity, Connect on Demand enables the router to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain active at all times, enter 0 in the Max Idle

Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet connection terminates.

Manually – You can configure the router to make it connect or disconnect manually. After a specified period of inactivity (Max Idle Time), the router will disconnect from the Internet connection, and you will not be able to re-establish your connection automatically as soon as you attempt to access the Internet again. To use this option, click the radio button. If you want your Internet connection to remain active at all times, enter "0" in the Max Idle Time field. Otherwise, enter the number time in minutes that you wish to have the Internet connecting last unless a new link is requested.

Click the "cancle" button to cancle the setting.

Click the "Back" button to return to top-level directory.

Click the "Next" button to get into the next-level directory.

# 1.5 Wireless Basic Settings

You can configure the parameters for wireless LAN clients which may connect to your Access Point.

11 Portab	<b>N-ROUTE</b> le 1 1n Wireless Ro	E <b>R</b> outer							/	
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET	<b>5. Wi</b> This page which may	reless I	Basic S	parameters	<b>gS</b> for wireles:	s LAN clients			
<u></u>	WIRELESS	Band: Node:	2.4 AP	GHz (B+G+N)	~					
<b>※</b>	SETTINGS	Network SSID:	Type: Infr WR-1	astructure	~	-				
<b>2</b>	SECURITY	Channel ControlS Channel	Width: 40MH ideband: Uppe Number: 11	z 🗸						
	PASSWORD	En	able ∎ac Clor	e (Single	Ethernet	Client)				
×	EXIT				Cancel	Kack	Next>>			

Click the "Next" button to get into the next-level directory.

### 1.6 Wireless Security Setup

You can setup the wireless security. Turn on WEP ,WPA,WPA 2 or WPA 2 Mixed by using Encryption Keys could prevent any unauthorized access to your wireless network.

While you choose one of the encryption mode, you should set the encryption key.

11 Portab	<b>N-ROUTI</b> Die 11n Wireless Ro	E <b>R</b> puter								
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET WIRELESS SETTINGS SECURITY PASSWORD EXIT	6. Wi This page by using wireless Encrypti Pre-Shar Key:	reless : allows you se Encryption Key network. on: WPA2(AE: ed Passphra ed	tup the wire could prev s could prev ase	v Sets secur vent any un Cancel	ity. Turn on authorized a	WEP or WPA ccess to your			

Click the "Next" button to get into the next-level directory. Click the "Finished" button to enable configuration to take effect.

## 2. Operation Mode

As the following screenshots ,you can setup different modes to LAN and WLAN interface for NAT and bridging function.

11 Portab	<b>N-ROUT</b> Die 1 1n Wireless R	ER outer							//	$\succ$
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET	<b>Operat</b> You can set bridging fu	ion Mod	<b>e</b> modes to LAI	V and WLAN	interface fo	or NAT and			<
<b>@</b>	WIRELESS SETTINGS	⊙ Gatewa	ny: In this interne PCs in 1 port. T using P static	mode, the d t via ADSL/( LAN ports sh he connectio PPOE, DHCP d IP.	device is s Cable Modem hare the sa on type can client, PPT	upposed to c L The NAT is me IP to ISP be setup in P client , L	connect to c enabled and d through WAN n WAN page by .2TP client or			
2	SECURITY	○ Bridge	In this interfa disable are not	mode, all e ce are bridg d. All the V supported.	ethernet po ged togethe VAN related	rts and wire r and NAT fu function an	eless motion is nd firewall			=
	PASSWORD	● WiFi I	(SP: In this and the point. share t must se to the can be PPTP cl	mode, all a wireless c The NAT is a he same IP t t the wireld ISP AP in S setup in WAM ient , L2TP	ethernet po Lient will enabled and to ISP thro ess to clie ite-Survey V page by u client or	rts are brid connect to I I PCs in ethe ugh wireless nt mode firs page. The co sing PPPOE, static IP.	lged together SP access Frnet ports ELAN. You and connect onnection type DHCP client,			
		Apply Ch	ange R	eset						×

Gateway: In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client, L2TP client or static IP.

Bridge: In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported. Wireless: In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client, L2TP client or static IP. Click "Apply Change" button to eanble configuration to take effect. Click "Reset" button to reset.

# 3. Wireless Security Setup

Select Wireless---->Wireless Security Setup,get into the wireless security setup interface.

You can setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

	$\leq$		/
Portat	<b>N-ROUT</b> Del 1 1n Wireless Ro	ER Jouter	
Wizard	Operation Mode	WAN Interface LAN Interface Wireless Firewall Advanced Management Statistics SysLog S	tatus
	INTERNET	Wireless Security Setup This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network	
<u></u>	WIRELESS	Select SSID: Root AP - WR-11n	
<b>※</b>	SETTINGS	Encryption: Disable v B02.1x Authentication: WEP	
2	SECURITY	WFA WFA2 WFA-Mixed	
	PASSWORD		
×	EXIT	Apply Changes Reset	

Encryption —if you select "Disable" the wireless stations will be able to connect the router without encryption. The encryption settings are described below.

Authentication Type - You can select one of the following authentication types: WEP , WPA , WPA2 , WPA-Mixed

Note :When you selecte one of the four authentication types, you must set the key value.

# 4. TCP/IP Settings

There are two submenus under the TCP/IP Settings menu : LAN Interface and WAN Interface setting.Click one of them, and you will be able to configure the corresponding function.

# 4.1 LAN Interface Setup

You can configure the parameters for local area network which connects to the LAN port of your Access Point.Here you may change the setting for IP address, subnet mask, DHCP, etc..

11 Portab	<b>N-ROUT</b> le 1 1n Wireless Re	ER outer							
Wizard	Operation Mode	WAN Interface LAN Interface	e Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET	LAN Interface This page is used to which connects to the change the setting fo	configure the p LAN port of yo r IP addresss,	parameters our Access subnet mas	for local ar Point. Here k, DHCP, etc	ea network you may			
<u></u>	WIRELESS	IP Address: Subnet Mask:	192.168.1.1 255.255.255.0	-					
<b></b>	SETTINGS	Default Gateway: DHCP:	0.0.0.0 Server 💌						
<b>~</b>	SECURITY	DHCP Client Range:	192.168.1.100 192.168.1.200	- Show	Client				
<b>—</b>	PASSWORD	Static DHCP: Domain Name: 802.1d Spanning	Set Static Realtek	DHCP					
×	EXIT	Tree: Clone <b>LAC</b> Address:	Disabled V 000000000000000						
		Apply Changes	Reset						

Note:

a. If you change the IP Address of LAN, you must use the new IP Address to login the router and you must change the DHCP Client Range at the same time.

b. If the new LAN IP Address you set is not in the same subnet, the IP Address pool of the DHCP server will not take effect, until they are re-configured.

c. If the new LAN IP Address you set is not in the same subnet, the Virtual Server and DMZ Host will change accordingly at the same time.

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Ъ		T: 86	3617	76	pir		edt

Click the "Show Client" button, you can see the active DHCP client table.

# 4.2 WAN Interface Setup

You can configure the parameters for Internet network which connects to the WAN port of your Access Point.

a. If you choose Static IP, you should have fixed IP Parameters specified by your ISP.

11 Portab	<b>N-ROUT</b> Die 11n Wireless Re	ER		/		7	$\prec$
Wizard	Operation Mode	WAN Interface LAN Interface Wireless Firewall	Advanced	Management	Statistics	SysLog	Status
	INTERNET	WAN Interface Setup This page is used to configure the parameter connects to the WAN port of your Access Poin method to static IP, DHCP, PPPOE, PPTP or L2	s for Internet t. Here you ma IP by click th	network which y change the a e item value o	ccess f WAN		~
5	WIRELESS	Access type.					
<b>※</b>	SETTINGS	IP Address: 172.1.1.1 Subnet Mask: 255.255.255.0					Ξ.
<b>?</b>	SECURITY	Default Gateway:         172.1.1.254           IIU Size:         1500         (1400-1500)	bytes)				
	PASSWORD	DRS 1:					
×	EXIT	DNS 3: Clone MAC 0000000000 Address: Enable uPNP					
		<ul> <li>✓ Enable IGTP Proxy</li> <li>Enable Ping Access on VAN</li> <li>Enable Web Server Access on VAN</li> </ul>					~

You should type the following parameters into the spaces provided:

IP Address – Enter the IP address in dotted-decimal notation provided by your ISP. DNS 1 – (Optional) Enter the DNS address in dotted-decimal notation provided by your ISP.

b. If you choose PPPoE, you should enter the following parameters.

11 Portab	N-ROUTI le 1 In Wireless Ro	E R outer				_	/		//	$\succ$	
Wizard	Operation Mode	WAN Interface	LAN Interface	Wireless	Firewall	Advanced	Management	Statistics	SysLog	Status	
		WAN I	nterface	Setup						^	
	INTERNET	ITERNET This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.									
<u></u>	WIRELESS	VAN Acce	ss Type: PP	PoE 💌	1						
<b>※</b>	SETTINGS	User Nam Password	e:	-							
<b>~</b>	SECURITY	Service Connecti	Mame:	ous	Conn	ect Di	sconnect				
<b></b>	PASSWORD	lype: Idle Tim MIU Size	e: 5 : 1452	(1-1000)	) minutes) 492 bytes)						
×	EXIT	○Attair ⊙Set DI	DNS Automat IS Manuall <del>y</del>	ically							
		DHS 1 DHS 2	-								
		DWS 3								~	

User Name/Password – Enter the User Name and Password provided by your ISP. These fields are case-sensitive.

# Appendix A: FAQ

#### 1. How do I configure the router to access Internet by ADSL users?

1) First, configure the ADSL Modem configured in RFC1483 bridge model.

2) Connect the Ethernet cable from your ADSL Modem to the WAN port on the router. The telephone cord plugs into the Line port of the ADSL Modem.

3) Login to the router, click the "Tcp/IP setting" menu on the left of your browser, and click "WAN Interface" submenu. On the WAN Interface page, select "PPPoE" for WAN Connection Type. Type user name in the "User Name" field and password in the "Password" field, finish by clicking "Apply Changes".

#### 2. How do I configure the router to access Internet by Ethernet users?

1) Login to the router, click the "Tcp/IP setting" menu on the left of your browser, and click "WAN Interface" submenu. . On the WAN Interface page, select "Dynamic IP" for "WAN Connection Type", finish by clicking "Apply Changes".

2) Some ISPs require that you register the MAC Address of your adapter, which is connected to your cable/DSL Modem during installation. If your ISP requires MAC register, login to the router and click the "Network" menu link on the left of your browser, and then click "MAC Clone" submenu link. On the "MAC Clone" page, if your PC's MAC address is proper MAC address, click the "Clone MAC Address" button and your PC's MAC address will fill in the "WAN MAC Address" field. Or else, type the MAC Address into the "WAN MAC Address" field. The format for the MAC Address is XX-XX-XX-XX-XX. Then click the "Apply Changes" button. It will take effect after rebooting.

#### 3. The wireless stations cannot connect to the router.

1) Make sure that the wireless stations' SSID accord with the router's SSID.

2) Make sure the wireless stations have right KEY for encryption when the router is encrypted.

3) If the wireless connection is ready, but you can't access the router, check the IP Address of your wireless stations.