POWERLINK ™

Quick Installation Guide
Mini Wireless Travel Router

Articles to check: ●Mini Wireless Travel Router ●DC adapter
●RJ-45 cable ●USB cable ●Quick Installation Guide

VER:1.0

1.Operating mode selection

This mini wireless travel router supports quick exchange among AP, Client and router modes with switch on the side.

Operating mode	Basic function(application)	Hardware connection and software setup
AP mode	Access Point----wired network exchange to wireless network	<Wired router change to wireless AP settings> is shown in the third section of <Operation modes settings>
	Bridge----wireless network exchange to wired network	<Wireless signal amplification/relay settings> is shown in the third section of <Operation modes settings>
	Repeater----wireless hotspot extension and amplification	
Client mode	Wireless receiver----GGSN of wireless network exchange to wired network	<Client mode>Introductions is shown in the third section of <Operation modes settings>
	Wireless access to WAN, supports PPPoE, dynamic IP, Static IP.	
Router mode	Acts as Router, access to WAN with wire, supports PPPoE, dynamic IP and static IP	<Router mode>Introductions is shown in the third section of <Operation modes settings>

2.Configuration before application

A.Local network settings For Windows Vista or Windows 7 system, please follow the steps below to setup

1 Click "Start →Control Panel →Network and Internet → Network and Sharing Center → Change adapter settings → Local Area Connection" Select "Wireless Network Connection", right-click it and select "Properties"

2 Select "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties"

3 Set IP address as 192.168.16.X(X should be a numeral between1 to 253), subnet mask as 255.255.255.0, then click "OK" to return back the last page, click "OK" once again.

Note:
1.In router and client modes, please set IP address and DNS address of your computer as "Obtain DNS server addressautomatically".
2.In client mode, please set the IP address of local wireline network, connect with mini wireless travel router by wireline connection way, then login the management interface.
3.In AP mode, if IP address can be assigned dynamically in wireline network, please set IP address and DNS address of your computer as "Obtain an IP address automatically" and "Obtain DNS server address automatically", if it adopts specified static IP, then please configure IP address and DNS address by manual setting.

B.Wireless settings

1 An icon of "📶" will appear at the right bottom corner of your computer after installation of this pocket router , then click the icon

2 Select an item in the "Wireless Network Connection" list to connect a wireless network, and then click "connect"

3 When there shows "Connected" on the screen, it means your computer has accessed to wireless network successfully

C.Login the wireless router Web Server

1.Open the web browser, input the default address: 192.168.16.254 in address bar, then press "**Enter**"
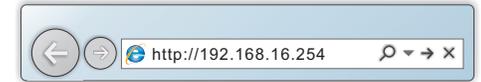
2.Input user name and password, default value are all "admin", and then click "**OK**"

3.Operation mode configuration
User can switch to modes of AP, client and router by just switching the button by the side of mini wireless travel router, and please note that the mode exchange takes exactly one minute

AP mode When mini wireless travel router works in AP mode, there are two operating modes: Wireline connection and wireless connection

Exchange of wireline access to wireless access configuration
It is plug and play for this application, there's no need to configure on management interface. Connect the cable from switch of wired internet with the Ethernet port of this pocket router, with power supply it will start working.
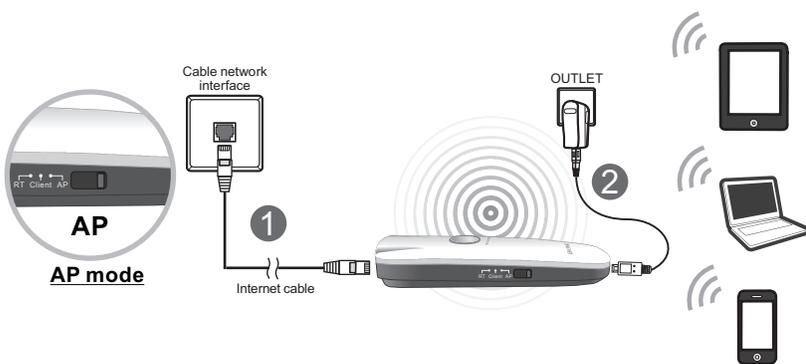
Wireless signal amplification/relay settings
When the wireless hotspot cannot cover effectively, you can also connect to mini wireless travel router by wired connection or wireless connection way. log in the management interface and configure according to steps on the right, then connect to the existing wireless hotspot.making the wireless signal amplified, thus expanding the signal coverage.
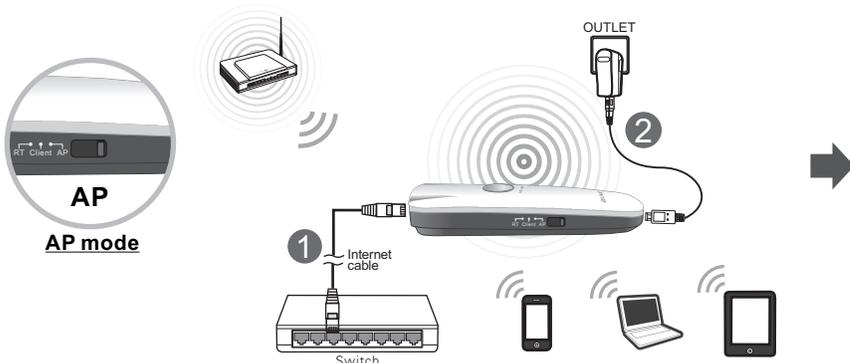
1.Log in the management interface, spread "wireless network settings" item on the left menu and click "AP client"
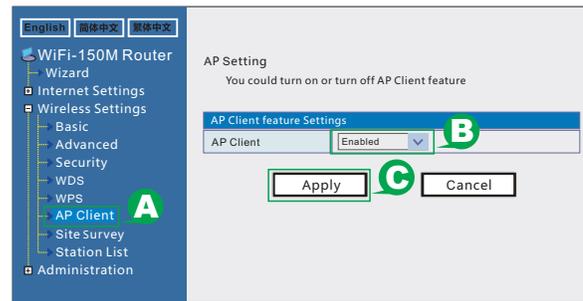
In AP mode,choose "enable" option in the drop-down list, then click "enable" button to enable client function
(Please note that under condition of exchanging wireline to wireless access, it is better to disable "AP client" function)

3.Information of system wireless access point will appear automatically, if your wireless access point is encrypted,You only need to set the same "Encryption Type" and "Pass Phrase"of the two devices .

AP Client Parameter	
SSID	BL-WA02
MAC Address (Optional)	48 : 02 : 2a : 80 : 38 : 20
Security Mode	WPA2-PSK
Encryption Type	AES
Pass Phrase	Tt&13s1e4

Save   Apply   Cancel/Refresh
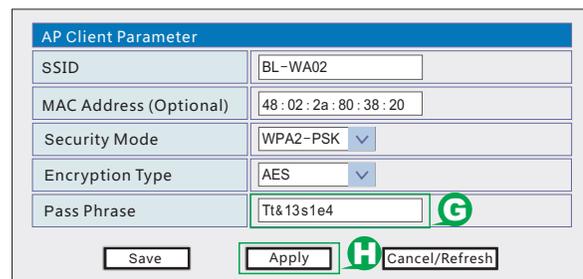
If the Base Station (BS) is encrypted, then please input the password.

!!Tip:
After you connect the wireless successfully through web management of this device, please re-configure the Local Area Network IP address of the computer according to the connected wireless access point. If the connected wireless network can assign the IP address to users dynamically, then set the IP and DNS address of the computer as "Obtain an IP address automatically" and "Obtain DNS server address automatically"If it requires static IP, then you can only access the company(home)LAN or Internet by setting the IP address and DNS address of the computer according to real application.

2.Click "Site Survey" of the menu on the left, select the connecting access point and then click "connect"
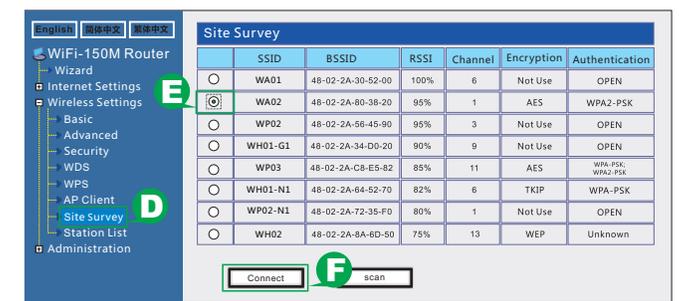
Click "scan" if the connecting access point is not on the list

4.Menu turns out to be as follows if connected successfully
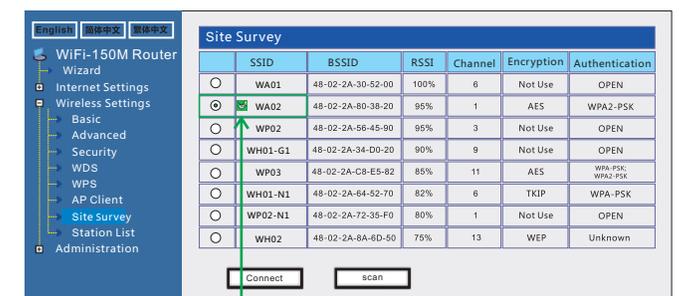
It turns out to be a green icon "☑" if connected successfully

Router(RT)mode

When mini wireless travel router work in router mode, its Ethernet port acts as WAN port, which connect to ADSL Modem or broadband access to realize wireless network multimachine sharing, Applicable environment:home-use or apartment application.

Router mode
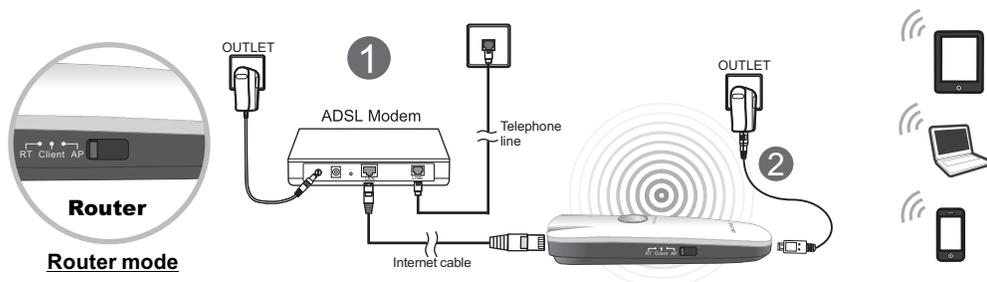
If you use ADSL PPPoe, please select "PPPoE(xDSL)"

WAN Connection Type:	PPPoE (xDSL) ①
PPPoE Mode	
User Name:	pppoe_user
Password:	•••••••••• ②
Verify Password:	••••••••••
Operation Mode:	Keep Alive ③ Keep Alive: Redial Period 60 seconds. On demand Mode: Idle Time minutes. Connect Disconnect
MAC Clone	
Select	Disable ④
Save	Apply ⑤ Cancel/Refresh
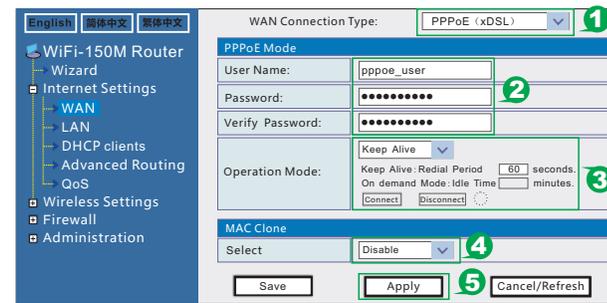
① Select "PPPoE (xDSL)"
② Input the user name and password offered by ISP
③ Select relevant operation mode according to the situation
④ If MAC Clone is required by ISP, please select"Enable" and input valid MAC address
⑤ Click "Apply", it will take effect after auto reboot of the AP

Wide Area Network settings

Please refer to the first page of "Configuration before application" to set up network, then go to its management interface

If ISP assign IP dynamically, select the default connection type as"DHCP(Auto config)"

Wide Area Network (WAN) Settings Choose your connection type and their parameters here.	
WAN Connection Type:	DHCP (Auto config) ①
DHCP Mode	
Hostname(Optional):	②
MAC Clone	
Select	Enabled
MAC Address	Fill my MAC ③
Save	Apply ④ Cancel/Refresh
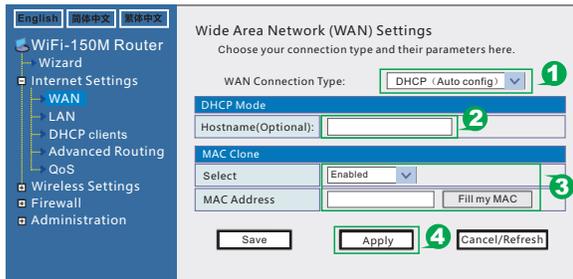
① Select "DHCP(Auto config)"
② Input the "Host Name" or just leave it without configuration
③ If MAC Clone is required by ISP, please select "Enabled" and input valid MAC address. Default is disabled
④ Click "Apply", it will take effect after auto reboot of the Wireless Pocket Router

Please select "STATIC (fixed) IP" connection type if your ISP offers a static IP

WAN Connection Type:	STATIC (fixed IP) ①
STATIC Mode	
IP Address:	0. 0. 0. 0
Subnet Mask:	0. 0. 0. 0
Default Gateway:	0. 0. 0. 0 ②
Primary DNS Server:	0. 0. 0. 0
Secondary DNS Server:	0. 0. 0. 0
MAC Clone	
Select	Enabled
MAC Address	Fill my MAC ③
Save	Apply ④ Cancel/Refresh
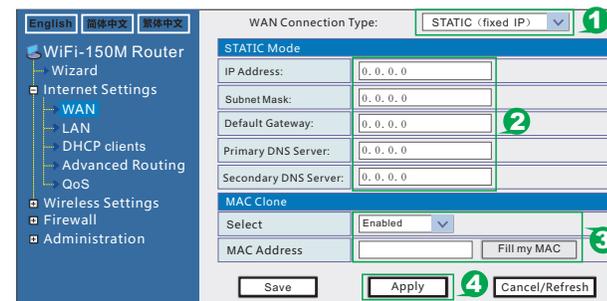
① Select "STATIC (fixed) IP"
② Input IP address, subnet mask, Default Gateway and Primary DNS servers offered by ISP
③ If MAC Clone is required by ISP, please select"Enable" and input valid MAC address
④ Click "Apply", it will take effect after auto reboot of the AP

Client mode

When mini wireless travel router works in this mode, the wireless network acts as WAN, wireline network acts as LAN, it can connect wireless hotspot and or router like wireless card, then connect the PC or other network device with ethernet port by cable.

Client mode

2 Some configuration of wireless access points in the "system setting" is automatically generated without setting, you don't need to modify the configuration and adjust adpot the default setting.

System Configuration	
Profile Name	PROF001
SSID	WA02
Network Type	Infrastructure
Power Saving Mode	⊙ CMA (Constantly Awake Mode) ○ Power Saving Mode
RTS Threshold	☐ Used 2347
Fragment Threshold	☐ Used 2346
Security Policy	
Security Mode	WPA-Personal
WPA	
WPA Algorithms	○ TKIP ⊙ AES
Pass Phrase	•••••••• ⑩
Apply ⑪	Cancel
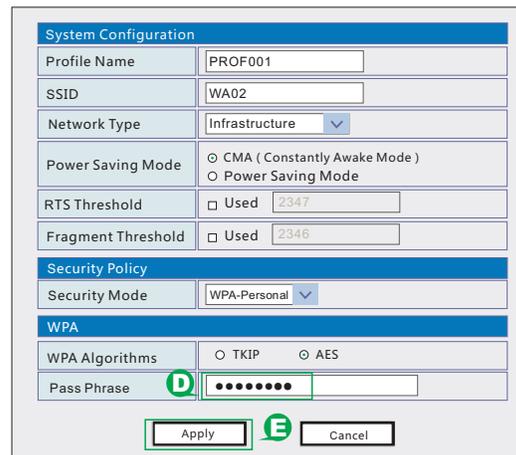
If the Base Station (BS) is encrypted, then please input the password.

3 Online-bound activation

Profile List						
	SSID	BSSID	Channel	Encryption	Authentication	Network Type
○	WA02	48-02-2A-80-38-20	1	AES	WPA2-PSK	infrastructure
Add	Delete	Edit	Activate			
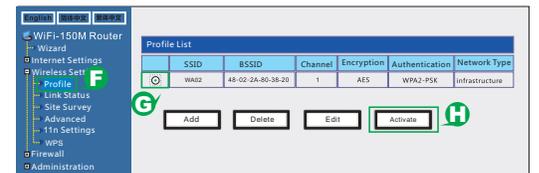
4 If the connection is activated successfully, then an icon ✅ will appear.

Profile List						
	SSID	BSSID	Channel	Encryption	Authentication	Network Type
○✅	WA02	48-02-2A-80-38-20	1	AES	WPA2-PSK	infrastructure
Add	Delete	Edit	Activate			

Router/Client mode configuration

In Router/Client mode, please refer to wide Area Network configuration in router mode, then configure as follows.

1 A.Spread "The wireless network settings", click "Site Survey"

Site Survey						
	SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
○	WA01	48-02-2A-82-52-00	100%	6	Not Use	OPEN	infrastructure
◉	WA02	48-02-2A-80-38-20	95%	1	AES	WPA2-PSK	infrastructure
○	WP02	48-02-2A-56-45-90	95%	3	Not Use	OPEN	infrastructure
○	WH01-G1	48-02-2A-34-D0-20	90%	9	Not Use	OPEN	infrastructure
○	WP03	48-02-2A-C8-E3-62	85%	11	AES	WPA-PSK,WPA2-PSK	infrastructure
○	WH01-N1	48-02-2A-64-52-70	82%	6	TKIP	WPA-PSK	infrastructure
○	WP02-N1	48-02-2A-72-35-F0	80%	1	Not Use	OPEN	infrastructure
○	WH02	48-02-2A-8A-6D-50	75%	13	WEP	Unknown	infrastructure
Connect	scan	Add Profile				

B.find out the WISP or access point you need to connect and select it, click"scan"if it is not on the list
C.Click "Add Profile"

Tips Once the connection is set up, please check the state of indicator light.

Indicator light	Name of indicator	Normal state
POWER	Indicator of power	Light consistently
WIFI	Wireless indicator	Indicator light glints slowly indicates no signal transmitted Indicator light glints quickly indicates signal transmitted
WLAN	Indicator of LAN system state	Indicator light glints or keeps lighting consistently with cable connection.

*If the indicator is not in normal state, please check the connection.

⚠ **Warning**
1.Under the condition of thunder or storm, please unplug the connected power and wire of device to avoid damage from thunder;
2.Keep away of moisture during storage, transportation and operation;
3.Use the power adapter of the device;
4.Keep away from interference sources (cordless telephone, microwave oven and refrigerator etc)

Wireless security settings

The default of mini wireless travel router is without wireless security/encryption settings, for the sake of your network security, it is suggested to setup wireless security/encryption to prevent unauthorized access.

Select WPA-PSK, WPA2-PSK or WPA-PSK/WPA2-PSK (recommended) as the security mode

Select SSID	
SSID choice	WP01 ①
"MP 01"	
Security Mode	WPA-PSK
WPA	
WPA Algorithms	○ TKIP ⊙ AES ○ TKIPAES ②
Pass Phrase	12345678
Key Renewal Interval	3600 seconds ③
Access Policy	
Policy:	Disable
Add a station Mac:	
Save	Apply ④ Cancel/Refresh

① Select a security mode
② Select the "WPA algorithms" here, it is recommended to select "AES"
③ Input the pass phrase you set, which shall be 8-63 ASCII character,or 8-64 hex digits
④ Click "Apply", it will take effect after auto reboot of the mini wireless travel router

Select "OPENWEP" as the security mode

Select SSID	
SSID choice	MP01 ①
"MP 01"	
Security Mode	OPENWEP ①
Wire Equivalence Protection (WEP)	
Default key	Key 1 ② ③
WEP Keys	WEP Key 1 — Hex WEP Key 2 — Hex WEP Key 3 — Hex WEP Key 4 — Hex
Access Policy	
Policy:	Disable
Add a station Mac:	
Save	Apply ④ Cancel/Refresh
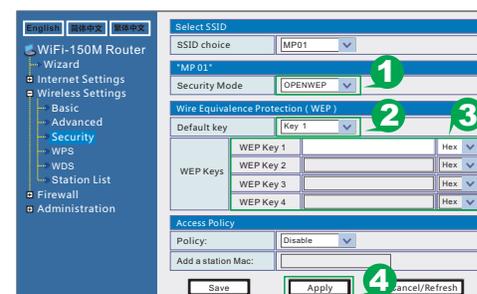
① Select a security mode
② Select the default key number here
③ Input the password you set in WEP Keys, For Hex key number key number can be set as a 10 or 26 hexadecimal character. (Arabic numerals 0-9 or letter ABCDEF); For ASCII key number; password can be a 5 or 13 ASCII characters
④ Click "Apply", it will take effect after auto reboot of the mini wireless travel router

!!Tips:
When select OPENWEP or WPA as the security mode, while"WPA algorithms"as the TKIP or TKIPAES, the maximum data transmisstion rate would decline as 54Mbps, therefore it is suggested to select WPA safety mode with AES algorithms to encrypt the wireless.

FAQ (Frequently Asked Question)

Question1: Power light does not light
1.Check whether the power adapter(5V 500mA~2000mA) matches this product.
2.Please check the power connection.

Question2: Unable to access to web server of the device
1.Check whether the connection of computer and device is correct and make sure the corresponding indicator is glintling normally
2.Please note that whether mini wireless travel router is in routing client mode, as in this mode user can only apply the wireless network connection
3.Affirm that your web browser is the latest version and supports Java
4.Disconnect the power supply of the router, connect the power a moment later, and then reboot the router
5.If you have done all steps as above but still cannot login the router management interface, it is recommended that you press the function key on panel for 5 seconds to reset it as default value.

Question3: Unable to successfully connect the upper-level network device in wireless router or wireless client mode
1.Please make sure that your settings are correct, network is connected properly and your upper-level network device works normally
2.Check whether both of your upper-level network device and mini wireless travel router use the same network segment. If it is, please change them into different network segment.

Question4: Why does the notebook fail to gain the wireless signal
1.If it is built-inl wireless card, then check whether there is a wireless switch firstly, and check whether the switch is turned on. (You should confirm with notebook manufacturers or check notebook specifications)
2.Dispose any possibilities of displacement or interference.

Question5: What should I do if I forget the password?
Answer: If you forget the user name and password, the only way to solve this problem is to reset the router, press the reset button and keep it for over 5 seconds, then leave the button, the reset is done, both default user name and password are "admin".