

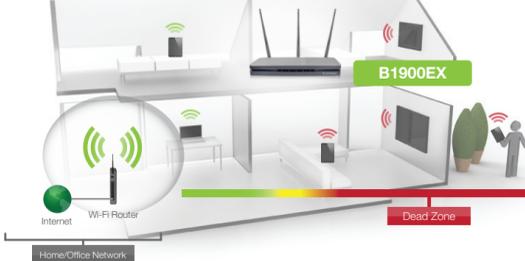
# SETUP GUIDE

## READ FIRST

### B1900EX AC1900 WI-FI RANGE EXTENDER

Watch the Installation Video here: <http://support.ampedwireless.com/b1900ex>

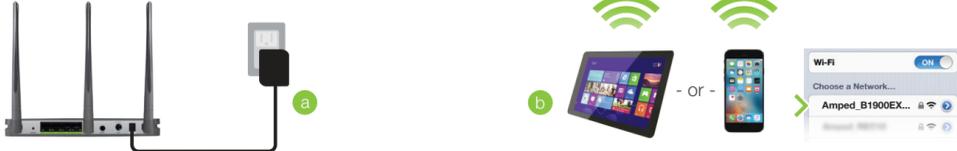
#### 1 Find a Setup Location About Half-Way Between your Wi-Fi Router & your Wi-Fi Dead Zone



**THE RANGE EXTENDER MUST RECEIVE A STRONG SIGNAL FROM YOUR WI-FI ROUTER.**

We recommend the signal from your router is >70%. We'll find out the exact strength in Step 6.  
 If you are connecting to a dual band router, both 2.4GHz and 5GHz connections should be greater than 70%.

#### 2 Connect your Mobile Device or PC to the Range Extender



- a Attach the Power Adapter to the Range Extender's **PWR** port and an available power outlet.
- b Connect to the Range Extender's Wi-Fi network: **Amped\_B1900EX\_2.4** or **Amped\_B1900EX\_5.0** (See back for operating system specific instructions.)

**Attention Windows Users:**  
 A prompt may appear asking: "Do you want to set up your network?"  
 If so, select "Connect to the network without setting it up" or "No, just connect".



#### 3 Open your Web Browser



Enter the setup web address into your browser:

<http://setup.ampedwireless.com>

If the URL fails to open, then try: <http://192.168.1.240>

Recommended browsers: Google Chrome, Safari or Internet Explorer (8.0 and up). Do not use Firefox.

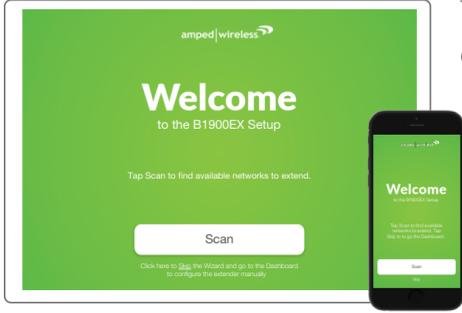
**ACCESSING THE WEB MENU DOES NOT REQUIRE INTERNET ACCESS. THE MENU IS SERVED FROM THE RANGE EXTENDER.**

### IF YOU HAVE PROBLEMS ACCESSING THE WEB MENU...

- a Disconnect your PC from all Wi-Fi networks.
- b Attach an Ethernet cable between the PC and the Range Extender.
- c Open your web browser and go to <http://setup.ampedwireless.com> again.



#### 4 Welcome to the Setup Wizard



The Setup Wizard will guide you through the setup process.

Click **Scan** to find available networks to extend.

Setup screens for mobile devices will vary from desktop and tablet versions.

#### 5 Scan for a Home Network to Extend

Select a Network to Extend

Select your network and click Next below.  
 Rescan for networks: **RESCAN**

For Dual Band networks, select both 2.4 and 5GHz networks. Connecting to networks with poor signal strength (less than 70%) may cause the connection to be slow or unstable.

5GHz Home Network				2.4GHz Home Network			
Home Network	Ch.	Security	Signal	Home Network	Ch.	Security	Signal
<input type="radio"/> Amped_Wireless_Main	6	WEP-128	26%	<input type="radio"/> Amped_Wireless_13	6	WPAWPA2	95%
<input type="radio"/> Amped_Wireless_01	2	WPAWPA2	95%	<input type="radio"/> Amped_Wireless_14	2	WEP-128	94%
<input type="radio"/> Amped_Wireless_02	3	None	89%	<input type="radio"/> Amped_Wireless_15	3	WPAWPA2	90%
<input type="radio"/> Amped_Wireless_03	8	WPAWPA2	85%	<input type="radio"/> Amped_Wireless_16	8	None	89%
<input type="radio"/> Amped_Wireless_04	6	WPA	81%	<input type="radio"/> Amped_Wireless_17	6	WPA	84%
<input type="radio"/> Amped_Wireless_05	10	WPA2	89%	<input type="radio"/> Amped_Wireless_18	10	WPA2	83%
<input type="radio"/> Amped_Wireless_06	1	WEP-64	67%	<input type="radio"/> Amped_Wireless_19	1	WPAWPA2	80%
<input type="radio"/> Amped_Wireless_07	7	WEP-128	65%	<input type="radio"/> Amped_Wireless_20	7	None	69%
<input type="radio"/> Amped_Wireless_08	8	WPAWPA2	64%	<input type="radio"/> Amped_Wireless_21	8	WPAWPA2	69%

Highlight and select the wireless network that you wish to repeat. If you have a dual band network, select only the 5GHz network.

**>70% Recommended Signal**  
 Select the wireless network with a signal strength greater than **70%** for the most reliable connection.

Poor signal connections may cause slow speeds or dropped connections.

Click **Next** to continue.

If you do not see your desired wireless networks, or the signal strength is less than 70%, move the Range Extender closer to the router and scan again as it may be out of range.

#### 6 Home Network Security Settings (if necessary)

2.4GHz Home Network Security Settings (if necessary)

If the Wi-Fi network (Home Network) that you are trying to connect to has security enabled, then enter the security key below. If your Home Network does not have security, leave this field blank and click Next

Selected Network: Home\_Network\_01

If your wireless home networks has security enabled, you will need to enter the security key here. If you selected both a 2.4GHz and a 5GHz network to repeat, you will need to enter both security keys here.

If your wireless home network does not have security enabled, leave the security field blank.

Click **Next** to continue.

#### 7 Configure Settings for your Extended Networks

Extended Network Settings

Copy settings from your Home Network or manually configure them below: **Clone Settings**

Extended Network Names  
 This is the name that wireless users will use to connect to your Extended network.

5GHz Extended Network ID (SSID): Amped\_HaloEX\_5.0  
 2.4GHz Extended Network ID (SSID): Amped\_HaloEX\_2.4

5GHz Extended Network Security Key: [blank]  
 2.4GHz Extended Network Security Key: [blank]

The IDs of your Extended Networks are: **Amped\_B1900EX\_2.4** & **Amped\_B1900EX\_5.0**

If you choose to "Clone" the settings from your Home Network, the wizard will copy the SSID and security key of your Home Network.

The SSID of the Extended Network will have a "\_RE" at the end of its name. For example: Home\_Network\_RE

You can also manually enter a new network ID and security key. The new security key must be at least 8 characters long.

Click **Next** to apply the settings.

**DO NOT LEAVE OR REFRESH THIS PAGE**  
 Allow the countdown to complete and the wizard will automatically redirect you to the next step.

#### 8 Connect to the New Extended Network

Connect to your Extended Network

1 If you were connected wirelessly to the Range Extender, please reconnect your computer/tablet to the new Extended Network using the settings below:

2.4GHz Extended Wi-Fi: Amped\_B1900EX\_2.4  
 2.4GHz Security: password

5GHz Extended Wi-Fi: Amped\_B1900EX\_5.0  
 5GHz Security: password

2 If you were connected using a cable, please check the cable connection.

When reconnected, press OK: **OK**

During the countdown process, the Range Extender will reboot and disconnect the Wi-Fi connection. At this point, you will need to reconnect your PC or tablet to the new Extended Network. You may connect to either the 2.4GHz or 5GHz Extended Network. Follow the instructions on the screen to connect.

Once you have connected, click **OK** to complete the setup process.

If there are problems with your configuration, the setup wizard will inform you to rescan for a network to extend.

If there are no problems, you will see the Setup Summary page below.

#### 9 Setup Summary

Congratulations! You're all done!

The Range Extender is now successfully connected to your Home Network

To connected to your Extended Network use the following details:

2.4GHz Extended Network SSID: Network 2  
 2.4GHz Extended Wi-Fi Security Key: password

5GHz Extended Network SSID: Network 1  
 5GHz Extended Wi-Fi Security Key: password

A new firmware update is available for this Range Extender. Would you like to update the Range Extender now? (Recommended)  
 Click Update to proceed. **UPDATE**

**FINISH**

Congratulations, the Range Extender is now successfully configured. Your settings are now saved. You may also attach any wired network devices to the wired ports on the back of the Range Extender.

The wizard will notify you if there is a newer firmware for the Extender. We recommend that you upgrade your Extender at this time if an update is available.

If you experience any problems during this process, please contact Amped Wireless Elite Support:  
 888-573-8820  
[techsupport@ampedwireless.com](mailto:techsupport@ampedwireless.com)  
[www.ampedwireless.com/support](http://www.ampedwireless.com/support)

If you haven't already positioned your Range Extender in an optimal location, you may do so now. All Range Extender settings are saved and can be safely powered off for relocation.

#### Finding an Optimal Placement Location (Signal Strength LED)



- OPTIMAL INSTALLATION**  
 Signal Strength LED helps you find the perfect location
- Green: Excellent Signal 70-100%
  - Yellow: Moderate Signal 60-69%
  - Red: Poor Signal 59% and below

The Range Extender is equipped with a Signal Strength LED on front of the device to help you find the most optimal location. It may take 1-3 minutes for the LED to register after powering on the Extender. After setup, the LED can be your guide for positioning the Extender to a better location (if needed). We recommend a signal strength of at least 70%, or when the LED is green.

**Note: The LED will not turn on if the Extender setup has not been completed first.**

## How to Connect Wirelessly to the Range Extender

Connecting to the 5GHz network requires that you have a 5GHz capable network adapter.

### Windows 10

Access the taskbar on the bottom right of your screen, tap on the Wi-Fi icon, enable Wi-Fi, and select [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#).



### Windows 8

Swipe in from the right edge to access the charms bar, tap on Settings, select the Wi-Fi icon, and select [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#).



### Mac OS X

Click on the Wireless icon to see available wireless networks. Select [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#) network.



### iPhone

Tap on your Settings icon, select Wi-Fi, and choose the network, [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#).



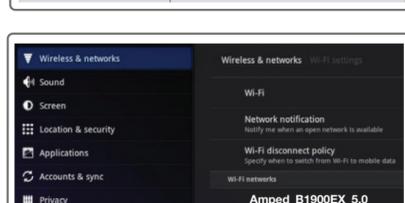
### iPad Tablet

- Tap the "Home" button to get to the home page.
- Tap the "Settings" app icon.
- Tap on Wi-Fi to enter the iPad's Wi-Fi settings.
- Toggle the Wi-Fi "On/Off" selector switch to "On".
- Under "Choose a Network," select: [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#)



### Android Tablet

- Tap the "Apps" menu on the tablet screen.
- Locate and tap the "Settings" app icon.
- Under "Wireless & networks," tap "Wi-Fi settings".
- Tap the Wi-Fi box to turn on Wi-Fi and scan.
- Under "Wi-Fi networks," select: [Amped\\_B1900EX\\_2.4](#) or [Amped\\_B1900EX\\_5.0](#)



### Wi-Fi Protected Setup (One-Touch Setup or Push Button Configuration)

If your wireless adapter has WPS one-touch setup, you can use it when connecting to the Range Extender. Hold down the WPS button on the Range Extender (back panel) for 3 seconds. The Power/WPS LED will begin to blink. As it blinks, push the WPS button on your wireless adapter or enable WPS with the provided software for your wireless adapter.



## Using the Features on the Range Extender

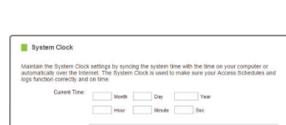
The Range Extender is equipped with many powerful features like advanced security features, all of which can be accessed through the web menu:

	<b>Wireless Access Scheduling</b> Control when your Wi-Fi is on/off. Location: <a href="#">More Settings &gt; 2.4 or 5GHz Wi-Fi Settings &gt; Access Schedule</a>
	<b>User Access Control</b> Restrict network access to specific users. Location: <a href="#">More Settings &gt; 2.4 or 5GHz Wi-Fi Settings &gt; User Access</a>
	<b>Wireless Coverage Control</b> Adjust the distance of your wireless network Location: <a href="#">More Settings &gt; 2.4 or 5GHz Wi-Fi Settings &gt; Wireless Coverage</a>
	<b>Auto Reboot</b> Automatically reboot the Range Extender at set intervals for maintenance. Location: <a href="#">More Settings &gt; Management &gt; Reboot</a>

If you are unfamiliar or want more information on the security features of the Range Extender, please visit the website: <http://support.ampedwireless.com/b1900ex>

## Setting the Range Extender's System Clock

In order for your Access Schedules and logs to perform using the correct time stamps and schedules you will need to set your System Clock. To do so, go under [Management](#) and access the [System Clock](#) tab to sync the System Clock with your computer's time or to sync with the Internet.



## Additional Features

### a Reset the Range Extender to Default Settings

There are two options to reset the Range Extender back to factory default settings:

- Access the Reset button through the web menu on the left side under [More Settings > Management > Save/Reload Settings](#). Select the [Reset Settings to Default](#).
- Access the physical Reset button on the back panel of the Range Extender: Hold down the Reset button for five to ten (5-10) seconds. You may need to use a pen tip or pin to access the button. Pressing the Reset button for less than five (5) seconds will simply reboot the Range Extender while saving your existing settings.

Reset Button **a**

### b Wired Port LEDs

- Indicates when a device is connected to a wired port (modem or local network) on the back of the Range Extender. The LED will light up when wired data traffic is transmitted or received. The green LEDs display when there is an active gigabit connection.

Wired Ports **b**

### c LED Lights On/Off

- LED Lights On/Off: Push button to turn the LED indicators on the front of the Range Extender on or off.

LED Lights On/Off **c**



## Setting a Login & Password for the Web Menu

This login/password is NOT the wireless network key used to connect to your wireless network.

For added security you may want to set a login and password to access the web menu. To do this, go to [More Settings > Management > Password](#) on the left side of the web menu.

If you forget your login and password, you will need to reset the Range Extender back to default settings to access the web menu. To reset the Range Extender to default settings, hold the reset button on the top of the Range Extender for 5-10 seconds.



## Tips: Power Outages, Rebooting Routers & Channel Changes

Wireless routers operate on specific wireless channels to avoid interference with neighboring networks. Some wireless routers are set to automatically scan for the best wireless channel. A power outage, or a simple reboot, may cause your home wireless router to change its wireless channel and cause the Range Extender to disconnect from your home network. **After a minute or two the Range Extender will automatically reconnect to your Home Network with the new settings.** However, if for whatever reason it does not, simply log onto the Range Extender's web menu by opening your web browser and going to <http://setup.ampedwireless.com>. If the page does not load, try resetting the Range Extender by holding down the Reset button on the back panel for five to ten seconds. After the Range Extender has rebooted, open your web browser and run through the Setup Wizard again.

## Autoloading Web Menu

When the Range Extender loses its connection with your Home Network, the web menu will automatically load on your web browser. All web address entries will be redirected to the Dashboard of the Range Extender. This redirect feature is meant to notify and help you to easily reconfigure your Range Extender in the event of a disconnection. You may disable this feature through the web menu (left side): [More Settings > Network Settings > IP Settings](#). The feature is titled: Auto-DNS.

## Troubleshooting Tips

<b>PROBLEM:</b>	I entered <a href="http://setup.ampedwireless.com">setup.ampedwireless.com</a> and it failed to open the web menu.
<b>SOLUTIONS:</b>	<ol style="list-style-type: none"> <li>Make sure your computer is connected to the Range Extender's Wi-Fi network: <a href="#">Amped_B1900EX_2.4</a> or <a href="#">Amped_B1900EX_5.0</a></li> <li>Try to use a different web browser. We recommend the Google Chrome web browser.</li> <li>Try to open your web browser to the default IP address by trying this number into your web browser instead: 192.168.1.240</li> <li>Power off (unplug) the Range Extender and power it back on. Try again.</li> <li>Reset your Range Extender to default settings by holding the Reset button (located on the back panel) for ten (10) seconds and try again.</li> <li>If steps (a) through (e) fail, disconnect your PC from all Wi-Fi networks. Attach an Ethernet cable between the Range Extender and your PC. Try to access <a href="http://setup.ampedwireless.com">http://setup.ampedwireless.com</a> again.</li> </ol>
<b>PROBLEM:</b>	My Range Extender was working fine previously, but now I can no longer access the Internet through the Range Extender.
<b>SOLUTIONS:</b>	<ol style="list-style-type: none"> <li>The connection to your Home Network may have been dropped or the router settings may have changed. Changes to the router could be a result of several events, such as a power outage. When this occurs, connect to the Range Extender and access the setup menu using the web address: <a href="http://setup.ampedwireless.com">http://setup.ampedwireless.com</a>. Run the Wizard to reconnect the Range Extender to your network.</li> <li>Using the setup menu (<a href="http://setup.ampedwireless.com">setup.ampedwireless.com</a>) check to see that the signal strength between the Range Extender and your Home Network is above 70%. The Range Extender may be too far from your router and not maintaining a signal strength of above 70%. Check the signal strength between the router and the Range Extender through the web menu (left side): <a href="#">More Settings &gt; Management &gt; Device Status</a>. The Signal Strength readout will be under the Home Wireless Network Settings section. This Signal Strength must be above 70%. If it is below, move the Range Extender closer to your router, or reposition the Range Extender.</li> </ol>
<b>PROBLEM:</b>	I cannot find my Home Network when scanning for wireless networks in the web menu Scan page.
<b>SOLUTIONS:</b>	<ol style="list-style-type: none"> <li>The connection to your Home Network may be out of range. Move the Range Extender closer towards the wireless router and try the Setup Wizard again from the web menu.</li> <li>Make sure that your Home Network's wireless SSID is broadcasting and not hidden. Hidden SSIDs will require that you manually enter the SSID into the Wireless Settings &gt; Home Network menu.</li> </ol>