



MACINTOSH INSTALLATION INSTRUCTIONS FOR
**MacWireless High Power 11g Access Point
(1 Watt)**

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Introduction

Thank you for purchasing the MacWireless High Power 11g Access Point! The High Power 11g Access Point requires OS 9 or higher for configuration. Once the unit is configured, it can be accessed by any wireless computer, regardless of operating system. We have provided configuration instructions for OS 9, OS 10.2.x – 10.4.x, and OS 10.5.x. When following the instructions below, be sure to choose the correct configuration section for your operating system.

If you experience a problem during the installation, refer to the troubleshooting guide at the end of this document. We also recommend updating your operating system to the latest version. Free updates are available using Apple menu > Software Update and at www.apple.com.

Pre-Configuration

1. Attach the included antenna to the Access Point.
2. Attach the power supply to the Access Point.
3. Using an ethernet cable, connect one end of the cable to your computer's ethernet port and the other end to the ethernet port on the Access Point.

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4. Attach the access point to the provided power supply and plug it into the wall.
5. Using the supplied crossover Ethernet cable, connect one end of the cable to your computer's Ethernet port and the other end to the Ethernet port on the access point.
6. Open the TCP/IP Control Panel.
7. Go to the file menu at the top of the screen and choose configurations.
8. Click "Duplicate..."
9. Type in "MW Access Point Configuration".
10. Click "Make Active".
11. In the TCP/IP window, choose connect via: Ethernet Built-in.
12. Choose Configure: Manually.

Pre-Configuration, continued.

13. In the IP address text field, type: "**192.168.1.10**"
14. In the Subnet Mask text field, type: "**255.255.255.0**"
15. Close the TCP/IP window.
16. A window will appear asking if you would like to save your changes. Choose "Save".
17. Pre-configuration is complete. Move on the configuration section below.

OS 10.2.x - 10.4.x

1. Attach the access point to the provided power supply and plug it into the wall.
2. Using the supplied crossover Ethernet cable, connect one end of the cable to your computer's Ethernet port and the other end to the Ethernet port on the access point.
3. Go to the Apple menu and choose System Preferences.
4. Click Network.
5. Go to the "Location" menu near the top of the window and choose "New Location."
6. Name the new location "MacWireless AP Configuration" or something similar.
7. When you are finished entering the name, click ok.
8. Beneath the "Location" menu, there is a menu called "Show". Pull this menu down and choose Network Port Configurations.
9. In the port configurations area, check the box next to Built-in Ethernet. Uncheck the boxes next to all other options.
10. Drag Built-in Ethernet to the top of the list.
11. Go back to the show menu and choose Built-in Ethernet.
12. Look for the menu that is called Configure IPv4. Open the menu and choose "Manually."
13. Below the Configure IPv4 menu, in the IP address text field, type: **192.168.1.10**
14. Below the IP address text field, in the subnet mask field, type: **255.255.255.0**
15. In the lower-right corner of the window, click Apply Now.
16. Pre-configuration is complete. Move on the configuration section below.

10.5.x

1. Attach the access point to the provided power supply and plug it into the wall.
2. Using the supplied crossover Ethernet cable, connect one end of the cable to your computer's Ethernet port and the other end to the Ethernet port on the access point.
3. Go to the Apple menu and choose System Preferences.
4. In the Internet and Network section, click Network.
5. Go to the "Location" menu near the top of the window and choose "Edit Locations."
6. A small window will appear. Click the plus sign at the bottom of the window to add a new location.
7. Name the new location "MacWireless AP Configuration" or something similar.
8. When you are finished entering the name, click done.
9. Pull down the Location menu again and choose "MacWireless AP Configuration" if it is not already selected.
10. On the left side of the window, click once on Ethernet. On some computers this will be called Ethernet 1. If you have a MacBook Air and are using a USB to Ethernet adapter, it will be called "USB Ethernet."
11. On the right side of the window, find the menu called Configure. Open the menu and choose "Manually."
12. Below the Configure menu, in the IP address text field, type: **192.168.1.10**
13. Below the IP address text field, in the subnet mask field, type: **255.255.255.0**
14. In the lower-right corner of the window, click Apply.
15. Pre-configuration is complete. Move on the configuration section below.

MacWireless High Power 11g Access Point Configuration

1. Open a web browser [Example: Firefox, Safari..]. For OS 9, we recommend Mozilla. For OS X, we recommend Firefox. Safari and Internet Explorer will not work for configuration, though they may be used once configuration is complete.
2. Type **192.168.1.1** into the address bar at the top of the window and hit return.
3. Log in with username "admin" and password "admin".
4. Click "Management" and then click "Operation Mode".
5. Click the "AP" button and then click "Apply".
6. Wait for 10-15 seconds then direct your browser to "**http://192.168.1.2**".
7. Click "Wireless" then click "Basic Settings".
8. Enter a name for your wireless network in the "SSID" text field. Click "Apply Changes". You will receive a message saying that the changes have been applied. Click OK.

Configuration, continued.

9. Click "TCP/IP Settings" then click "LAN Interface". In the field labeled "Default Gateway", enter your router's IP address. In the field labeled "Default IP Address" it is recommended that you enter an address that is on the same subnet as your router. For example, if your router's IP address is 192.168.0.1, and your subnet mask is 255.255.255.0, then this address could be set to 192.168.0.2. Or if your router's IP address is 10.0.1.1, and your subnet mask is 255.255.255.0, then this address could be set to 10.0.1.20. The last number here can be any number between 1 and 255 that is not used by your router or any other device on your network. Write this new "Default IP Address" down because this is the address you will need to point your browser to in order to get to the access point's configuration pages from now on. See troubleshooting section for more information.
10. Click "Apply Changes". You will receive a message saying that the changes have been applied. Click OK.
11. Direct your web browser to the "Default IP Address" that you set the access point to in step 9.
12. Choose the authentication type you would like. We recommend using WPA-PSK, as it is the strongest option, but some older machines (running OS X 10.2.8 or earlier) may not be able to connect using WPA-PSK. For networks that include these older models, we recommend using WEP. Once you have chosen a password/encryption method, take note of it. You'll need this information in order to connect to the Wireless Network.
 - a. If you have chosen WPA-PSK, you will be prompted to choose a cipher type and passphrase. We recommend using AES because it is the strongest available, but again, some machines may have difficulty connecting using AES. If computers on your network have trouble establishing a wireless connection, try using TKIP instead. Enter a passphrase between 8 and 64 characters (spaces are allowed), enter it a second time to confirm, and then click apply.
 - b. If you have chosen WEP, choose shared key for WEP type. Leave mode at hex and WEP key at 64-bit. In the key 1 field, enter 10 characters. You are limited to the numbers 0-9 and the letters A-F. If you are having difficulty, we recommend using your area code and phone number, as it's a 10 digit sequence that will be easy for you to remember.
13. When you are finished, click apply. You will receive a message that the settings have been saved and that the device is restarting. You needn't wait for the device to restart. Move ahead to the post-configuration section.

Post-Configuration

OS 9

1. Open the TCP/IP Control Panel.
2. Go to the file menu at the top of the screen and choose configurations.
3. Choose the name of your default configuration and click "Make Active".
4. Disconnect the Ethernet cable from your computer and connect it to a router or switch on your network.
5. Congratulations, MacWireless High Power 11g Access Point installation is complete! You can now connect to the access point from any wireless computer.

OS 10.2.x – 10.4.x

1. Go to the Apple menu and choose System Preferences.
2. Click Network.
3. Go to the "Location" menu near the top of the window and choose your default location.
4. Click Apply Now.
5. Disconnect the Ethernet cable from your computer and connect it to a router or switch on your network.
6. Congratulations, MacWireless High Power 11g Access Point installation is complete! You can now connect to the access point from any wireless computer.

OS 10.5.x

1. Go to the Apple menu and choose System Preferences.
2. Click Network.
3. Go to the "Location" menu near the top of the window and choose your default location.
4. Click Apply.
5. Disconnect the Ethernet cable from your computer and connect it to a router or switch on your network.
6. Congratulations, MacWireless High Power 11g Access Point installation is complete! You can now connect to the access point from any wireless computer.

Troubleshooting

When I type in the address for the web-based configuration utility, my browser cannot find the page.

The address you enter into the address bar of your browser should be the "Default IP Address" that you defined during configuration. The computer that you are using to connect to the access point should be on the same subnet as the access point. If the page still does not load, reset the access point to factory default settings. To reset, following the Hardware Reset Procedure below. Reconfigure your access point using the instructions below.

Hardware Reset Procedure

If the device becomes unresponsive, or if you would like to reconfigure the unit, you can reset the unit to factory defaults using the procedure below. Please note that the timing is very important.

1. Go to Apple menu > Location and select "MW Access Point Configuration." If you do not have this location, create it by following the steps in the pre-configuration section above.
2. Unplug the power cable from the access point.
3. Plug the power cable back in and count thirty seconds. At thirty seconds, hold down the reset button on the back of the unit for ten seconds and release. The unit will take forty-five seconds to reboot after the reset button is released.
4. Once the device has finished rebooting, you will be able to access the configuration area by opening a web browser and typing in one of the following addresses: 192.168.1.1, 192.168.1.2, or 192.168.1.254. When you are prompted for a username and password, you know you have the right address. You can then reconfigure the unit by starting from step 3 of the configuration section above.

WDS Mode

It is possible to connect several MacWireless High Power Access Points together wirelessly. This will allow you to cover a wider area with a single wireless network. In this mode, portable computers can enjoy uninterrupted service while roaming freely from access point to access point. To set up WDS, follow the instructions below. We recommend setting all access points up in the same room. Once WDS has been set up correctly, then move the remote units to their final destinations.

1. Go to the configuration area for the access points as outlined at the beginning of the installation sheet.
2. Go to Management > Operation Mode and set all units to AP mode.
3. Go to TCP/IP Settings > LAN Interface. Set DHCP to disabled on all units.
4. Give each access point a unique IP address on the same subnet as the router. For example, if your router is set to 192.168.0.1, you could set your access points to 192.168.0.190 and 192.168.0.191.
5. The unit connected to the router will be the master unit. For the master unit, enter your router's IP address into the default gateway field. For the remote units, set default gateway to 0.0.0.0.
6. Go to Wireless > Basic. Set all units to same SSID and the same channel.
7. Go to Wireless > Security. Disable encryption on all units. After the network is working, then you can add encryption. Be sure to use the same encryption type and password for all units.
8. Go to Wireless > WDS Settings and add the MAC addresses of the other access points. There is no need to add the MAC address of the unit being configured.
9. Connect the master unit to the network (router or switch) using an ethernet cable.
10. When all units have been configured, restart all of them, starting with the master.
11. To verify functionality, go to Management > Statistics and check to make sure that you are sending and receiving packets.
12. WDS setup is complete.

Disclaimer: Although this product has been tested and verified, MacWireless does not accept responsibility for loss or damage to any equipment or device. Use at your own risk.