AG-225H

802.11a/b/g/pre-n Wi-Fi Finder & USB Adapter

Quick Start Guide

(For Windows XP/2000, Vista, Mac OS X*)

Version 1.3

December 2006

Important Note

Federal Communication Commission Interference 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 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
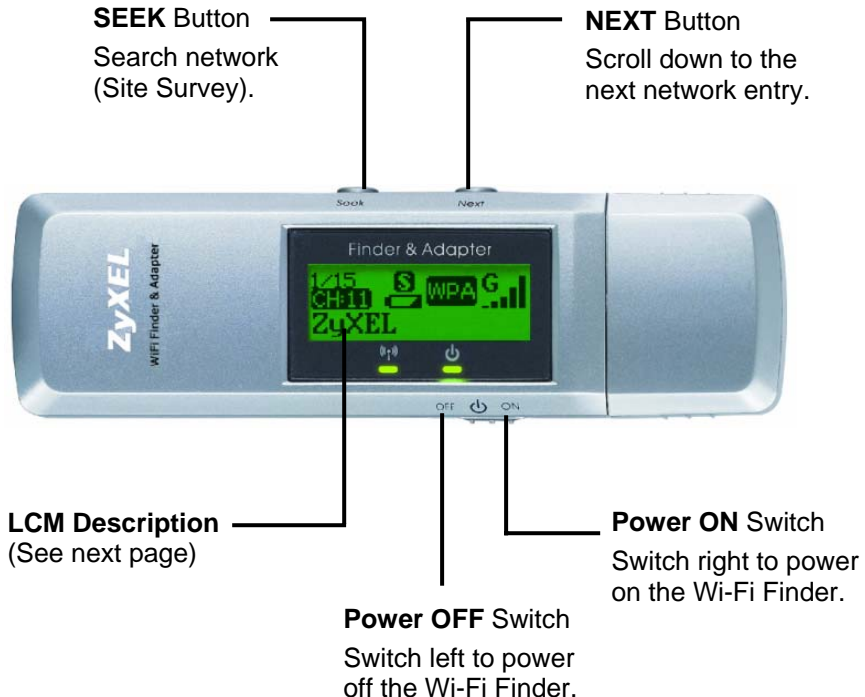
IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Wi-Fi Finder Mode

1. User Interface

SEEK Button
Search network
(Site Survey).

NEXT Button
Scroll down to the
next network entry.

LCM Description
(See next page)

Power ON Switch
Switch right to power
on the Wi-Fi Finder.

Power OFF Switch
Switch left to power
off the Wi-Fi Finder.

2. LCM Description

Detect Mode
- **S** Display up to 15 detected networks in the order of the signal strength.
- **F** Display the detected networks without any security setting (free hot spot).
- **D** Display the dedicated network you choose to use.

Security Information
- **WEP** Displays when WEP security is enabled.
- **WPA** Displays when WPA or WPA2 security is enabled.
- 🔓 Displays when Wireless security is disabled (no security).
- 🔒 Displays when n-mode WEP, WPA, or WPA2 security is enable.

Entry
Display the current entry of the detected Access Points. Users can detect up to 15 networks at one time.

Signal
This displays the wireless standard and signal strength of the selected network.
- ^{A}.ıll 802.11a mode at 5 GHz band
- ^{B}.ıll 802.11b mode at 2.4 GHz band
- ^{G}.ıll 802.11g mode at 2.4 GHz band
- ^{N}.ıll 802.11n (pre-n) mode at 2.4 GHz band

Channel
Display the radio channel of the detected network.

SSID
The SSID identifies the Service Set to the network users detect. When the length of SSID is longer than 12 characters, it will be scrolled horizontally.

Battery Status
- 🔋 Display Low Battery
- **Full** Display Full Battery
- ⚡ Display Battery is charging

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3. Basic Operation

1. Power on ZyXEL AG-225H.

2. The ZyXEL AG-225H will automatically detect the available wireless networks in 6~7 seconds.

3. The site survey information will be displayed on the LCM including the SSID, channel, signal strength, wireless network protocol (IEEE802.11a/b/g/pre-n), and the type of wireless security/encryption (WEP or WPA)

4. Push **NEXT** button to see more Access Points you have detected.
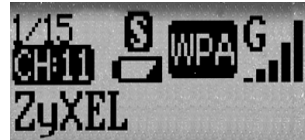
For Advanced Features of the AG-225H, there are totally 3 modes to choose:

Mode mode is set by default for most users to detect the Wi-Fi networks.

Mode (Free Mode) Hold **SEEK** button for 1 second to switch to mode.
In mode, push **SEEK** button to detect the free hot spots or available WLAN that you can connect to the Access Point without any security setting.

🔲 Mode When you need to connect the specific Aceess Point and lock on it, push **NEXT** button to select the desired Aceess Point. To dedicate tracking a certain AP, hold "SEEK" button to swith to 🔲 mode.

Then push **SEEK** button once again to periodically do the site survey automatically in 🔲 mode. By doing so, the modes can be changed from 🔲 mode to 🔳 mode.

When ZyXEL AG-225H Wi-Fi Finder is not used for 1~2 minutes, the device will enter into the power saving mode untill you push the **SEEK** button again for searching the Access Points.

Charging When low power icon appears ▭, recharge the AG-225H with your USB port on your laptop or desktop PC.

The LCM will display 🔌 when the device is charging and display **Full** when the device finishs charging.

☞ **To save power, switch off the AG-225H when not using Wi-Fi Finder function.**

4. Button Display

The following table describes the Buttons on the ZyXEL AG-225H when using the Wi-Fi Finder function.

BUTTON	DESCRIPTION
SEEK	Push **SEEK** button to detect wireless networks in the area.
NEXT	Push **NEXT** button to see the detected wireless networks.
OFF/ON	Switch right to power **ON** the ZyXEL AG-225H Wi-Fi Finder mode.
	Switch left to power **OFF** the ZyXEL AG-225H Wi-Fi Finder mode.

5. LED Display

The following table describes the LEDs on the AG-225H when using **Wi-Fi Finder Mode.**

LED	COLOR	STATUS	DESCRIPTION
	Green	On	The AG-225H is powered on.
		Off	The AG-225H is either powered off or entering into Power Saving Mode.
	Green	On	The AG-225H is detecting available wireless networks
		Off	The AG-225H is not actively detecting wireless networks.

The following table describes the LEDs on the AG-225H when using **Adapter Mode**.

LED	COLOR	STATUS	DESCRIPTION
	Green	On	The AG-225H is powered.
		Off	The AG-225H is powered off.
	Green	On	The AG-225H is connected with an AP/Router.
		Blinking	The AG-225H is receiving or sending data.
		Off	The AG-225H is not receiving or sending data.

Windows XP/2000 Installation

1. Installation Requirements

Before installation, make sure you have the following requirements.

- Pentium II 300MHz or above
- A minimum of 20 MB available hard disk space
- A minimum of 64 MB RAM
- A CD-ROM drive
- An available USB port (for best performance USB2.0 is required)
- Windows XP or Windows 2000 Operating Systems

2. Install the Software

The installation procedures are similar for all supported Windows versions. Windows XP screen shots are shown unless otherwise specified.

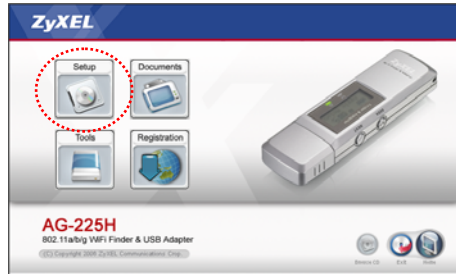☞ **Install the ZyXEL Utility before you insert ZyXEL AG-225H.**

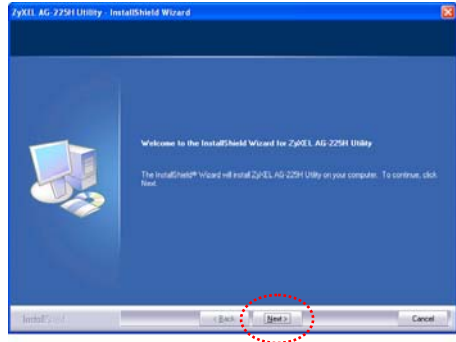1. Insert the support CD into the CD-ROM drive on your computer.

2. Click **Setup** to install the ZyXEL Utility and driver.
   If this screen does not display, locate and double-click **autorun.exe** on the support CD.

3. When the Welcome screen displays, click **Next.**

4. Select **Utility** and **Driver** to install both ZyXEL Utility and driver on your computer. If you want to install the driver only and use Windows Wireless Zero Configuration (WZC) with Windows XP, select **Driver** only (see *Note for Windows XP Users*). Click **Next** to accept the default file location or click **Browse** to select an alternate folder.
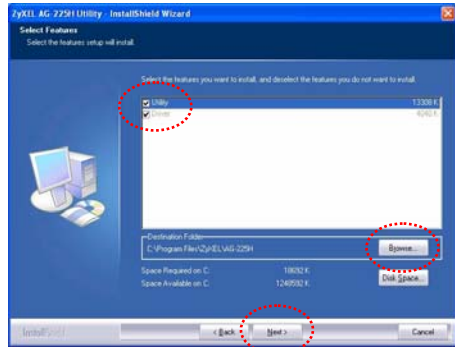
5. Click **Install** to start the installation.
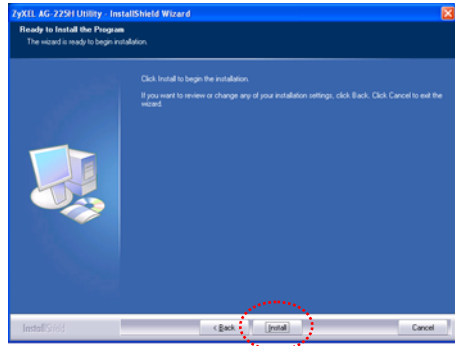
☞ **You will need to restart your computer after installing the ZyXEL Utility. Make sure you have saved any open work before continuing.**

6. Select **Yes, I want to restart my computer now** and click **Finish** to exit the installer and restart your computer.
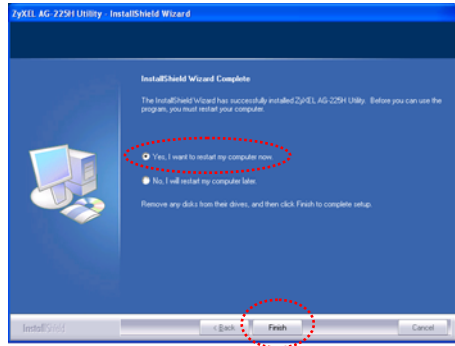
3. Install the Hardware

☞ **Do not install the hardware until you have installed the software from the CD.**

1. After you have installed ZyXEL Utility, please insert your ZyXEL AG-225H into an available USB slot.
2. Windows will automatically detect and proceed with the next installation step for your AG-225H.

3. If the AG-225H is properly inserted, an ZyXEL icon would appear in the system tray (typically at the bottom of the desktop).

4. Double click the **Z** icon to configure your AG-225H wireless adapter.

4. Connect to a Wireless Network

The AG-225H will automatically search for any available network(s) and connects to any wireless network without security enabled. However, this wireless network may not be connected to the Internet.

If the **Z** icon color is red, you are not connected to a wireless network.

If the **Z** icon color is green you are already connected to a wireless network.

Use the following steps to select and connect to a wireless network.

1. Double-click the **Z** icon. The ZyXEL utility **Link Info** screen displays. Click the **Site Survey** tab.

2. The available wireless network(s) displays in the **Available Network List**. **SSID** means Service Set Identity and is the name of the wireless network.

3. If a wireless network has no security, one of the right icons appears next to its entry in the list.

If a wireless network has security, one of the right icons appears next to its entry in the list. Choose the network you want to connect to and double-click its entry in the list.

4. If a network has no security, the **Link Info** screen displays. **Go to step 6**.

5. If a network has security, the security settings screen appears. You need to enter security information to connect to the network. Get this information from the network administrator. Be sure to enter the information exactly as it was given to you.

6. To access the Internet, open your Internet browser and enter the URL of a web site in the address bar: http://www.zyxel.com. The network should be connected to the Internet. If the web site displays correctly, you are successfully connected to the Internet.

Note for Windows XP Users

If you want to use Windows Wireless Zero Configuration (WZC), either disable the ZyXEL Utility (if you already installed it) or just install the driver only.

- To disable the ZyXEL Utility, right-click the **Z** icon and select **Use Windows Zero Configuration.**
- To activate the ZyXEL Utility again, double-click the **Z** icon and click OK.
- To install the driver only, please select **Driver** only during Software installation step **4** (page 10).

5. Troubleshooting

PROBLEM	CORRECTIVE ACTION
• Windows does not auto-detect the AG-225H. • The LED on the AG-225H does not turn on after installation	Make sure ZyXEL AG-225H is properly connected to the USB port and then restart your computer. Once the computer has restarted, check the status of the LEDs on the AG-225H.
	Perform a hardware scan by clicking **Start**, **Settings**, **Control Panel** and then double-click **Add/Remove Hardware**. (Steps may vary depending on the Windows version). Follow the on-screen instructions to search for the AG-225H and install the driver.
	Install the ZyXEL AG-225H on another computer. If the error persists, there may be a hardware problem. In this case, please contact ZyXEL customer support at **800-978-7222** or on the web at **http://www.zyxel.com**.
The AG-225H does not connect to a wireless network	Make sure there is an available wireless network within range (see *User's Guide* for details about site survey features). If wireless security is enabled for that network, you need to configure security setting in your AG-225H (see the *User's Guide)*

Windows Vista Installation

1. Installation Requirements

Before installation, make sure you have the following requirements.

- A minimum of 20 MB available hard disk space
- A CD-ROM drive
- An available USB port (for best performance USB2.0 is required)
- Windows Vista Operating Systems

2. Install the software

1. Insert the support CD into the CD-ROM drive on your computer.

2. Click **Setup** to install the ZyXEL Utility and driver. If this screen does not display, locate and double-click **autorun.exe** on the support CD.
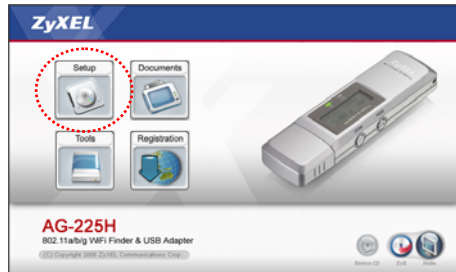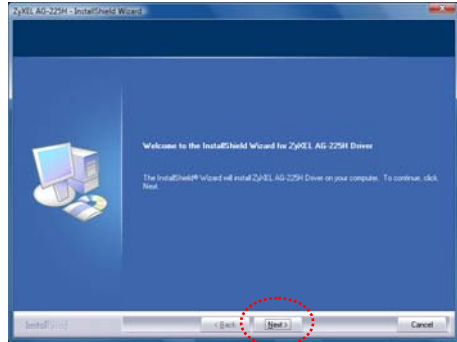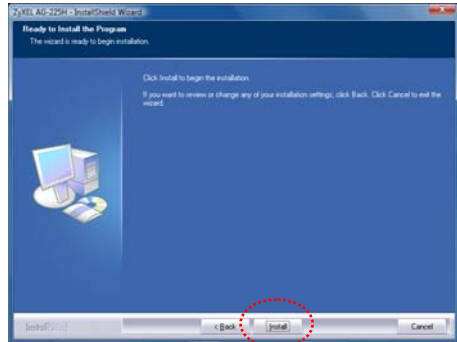
3. A warning in regards to the program being accessed might pop up. Please select **Allow** to continue.

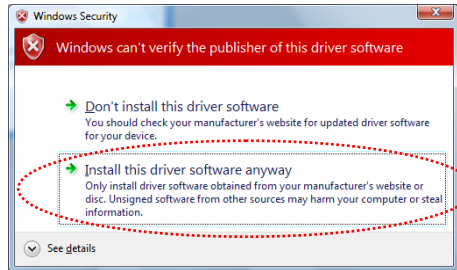4. When the Welcome screen displays, click **Next.**

5. Click **Install** to start the Installation.

6. A warning in regards to the software being installed might pop up. Please select **Install this driver software anyway** to proceed with the installation.

☞ **You will need to restart your computer after installing the ZyXEL AG-225H driver. Make sure you have saved your work before continuing.**

7. Select **Yes, I want to restart my computer now** and click **Finish** to exit the installer and restart your computer.
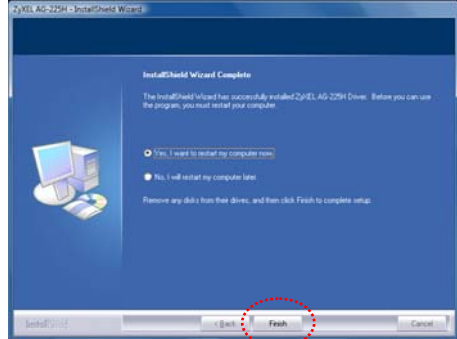
8. Insert your AG-225H device into a USB port after your computer restarted. The LED light turns on if the AG-225H is properly inserted.

3. Wireless LAN Network Setting

To connect to a network, you must set same SSID as the Access Point (AP) you want to connect with and configure the security settings if any. AG-225H offers WEP, WPA-PSK and WPA2-PSK for wireless network security.

1. When first time insert the AG-225H after driver installation, your computer will auto detect the AG-225H driver.

2. Click the Network icon and select **Connect to a network** and use Windows Wireless Zero Configuration (WZC) for security setting if any.
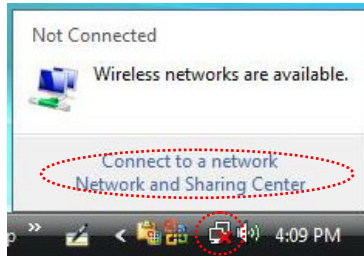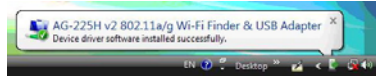
3. If wireless security is enabled for that network, the security setting window will display, enter the appropriate WEP Key or WPA Pre-Shared Key (both are case-sensitive) to match your AP and then click **Connect** to activate the connection.

Mac OS X* Installation

*version 10.3 or above

1. Installation Requirements

Before installation, make sure you have the following requirements.

- A minimum of 20 MB available hard disk space
- A minimum of 64 MB RAM
- An available USB port (for best performance USB2.0 is required)
- Mac OS X *10.3 or above

2. Install the software

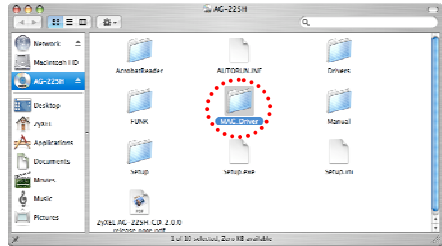**Mac OS 10.4 screen shots are shown unless otherwise specified.*

☞ **DO *NOT* insert ZyXEL AG-225H at this point.**

1. Insert AG-225H CD into your CD-ROM.
2. Double click on the **AG-225H** CD icon.
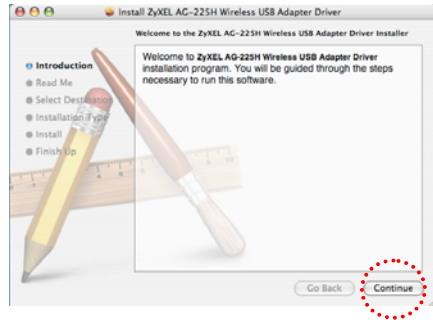
3. Double click on the **MAC_Driver** folder.

4. Double click on the file **ZyXEL_AG-225H_4_5_8_0.dmg**.

5. Select a folder which matches your Mac OS version.

6. Double click on the file **Install_4_5_8_0_OSX10_4.pkg.**

7. *Step_ Introduction*
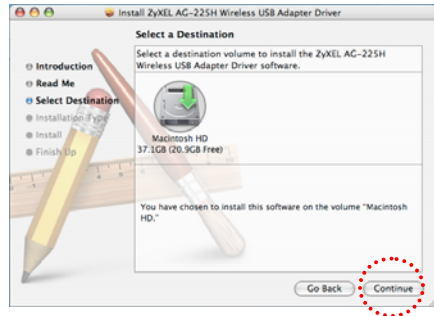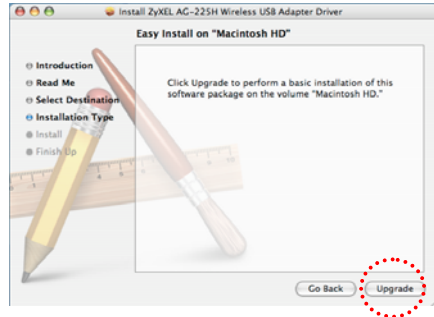   Click **Continue** to start the Installation program.

8. *Step_Read Me*
   Read the **Important Information** and then click **Continue** when you are ready to proceed with the installation.

9. *Step_Select Destination*
   Select a destination to install the AG-225H Wireless USB Adapter Driver and then click **Continue**.

10. *Step_Installation Type*
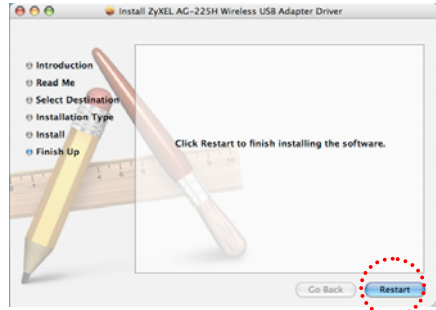   Click **Upgrade** to perform the driver installation.

11. *Step_Install*
    Click **Continue Installation** to install the Driver.

12. *Step_Finish Up*
    Click **Restart** to finish the
    installation of the AG-225H
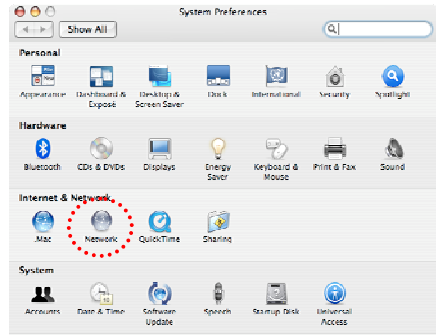   Wireless USB Adapter Driver.

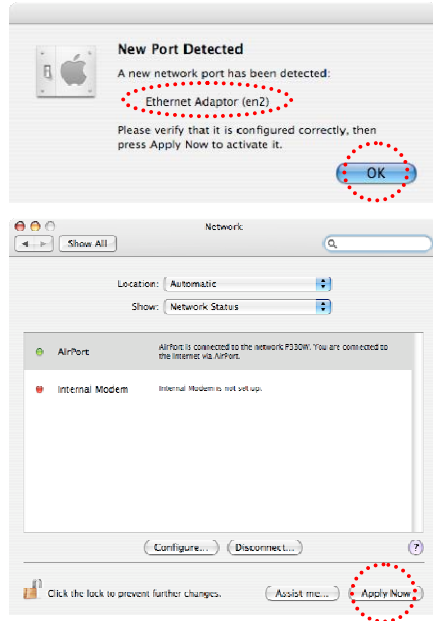13. Insert your AG-225H device into a USB port after your computer restarted.

☞ **Please leave the AG-225H in the power OFF position. Do *NOT* turn it on at any time during which it is plugged into the computer.**

14. Click **Network** icon in **System Preferences** panel.

15. A **New Port Detected** message will pop up. Click **OK**.

16. Click **Apply Now** to activate the new Ethernet Adapter (AG-225H).

17. The **Ethernet Adapter (en#)*** will be added to the list.
Congratulations! Your AG-225H is installed properly.
Close this window now and begin wireless LAN setting.
** The # could be different depending on how your computer recognizes the AG-225H.*
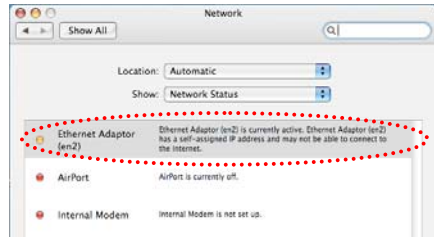
3. Wireless LAN Network Setting

To connect to a network, you must set same SSID as the Access Point (AP) you want to connect with and configure the security settings if any. AG-225H offers WEP, WPA-PSK and WPA2-PSK for wireless network security.

1. Click **Z** icon on **Dock** to configure the AG-225H.

2. Click **Open setup widow** in menu **Setup** (or short-cut ⌘+S).
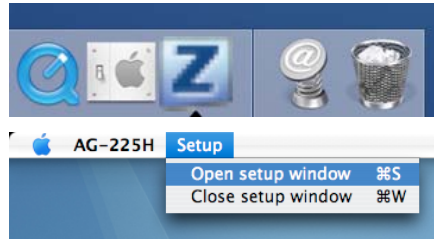
3. The **Wirless Lan configuration** window displays. Click **Refresh** to search available AP for connection.
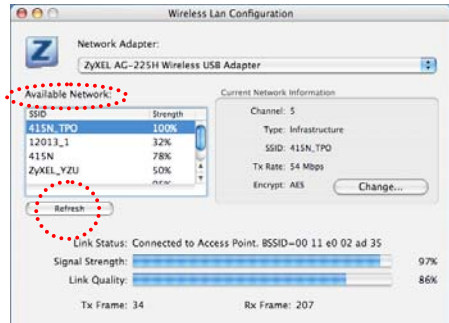
4. Double click the selected SSID listed in **Available Network** table.
5. If wireless security is enabled for that network, the security setting window will display, enter the appropriate WEP Key or WPA Pre-Shared Key (both are case-sensitive) to match your AP and then click **ok** to activate the connection.
6. The **Link Status** will show your network connectivity status. You may launch Safari and navigate to www.zyxel.com for verifying the Internet conectivity.

Customer Support

Please have the following information ready when you contact customer support.

- Product model and Serial number
- Warranty Information
- Date that you received or purchased your device
- Brief description of the problem including any steps that you have taken before contacting the ZyXEL Customer Support Representative

SUPPORT E-MAIL	TELEPHONE	WEB SITE
support@zyxel.com	+1-800-978-7222	www.zyxel.com