



**WL-5480USB**

*Wireless USB Adapter*

# User's Manual



**Powered by OvisLink Corp.**

## **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 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

### **FCC Caution**

This equipment must be installed and operated in accordance with provided instructions and a minimum 5 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

### **Federal Communication Commission (FCC) Radiation Exposure Statement**

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

### **CE Mark Warning**

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

# 1. Introduction

The **AirLive WL-5480USB** (hereafter called USB adapter), compliant with IEEE 802.11b/g, is a high-efficiency wireless adapter for wireless networking at home, in office, or in public places. This USB adapter connects directly to any USB-ready desktop/notebook computers, so that you can share files, printers, and high-speed access to the Internet over your existing wireless network easily, without disassembling your computer.

The USB adapter has a data rate of up to 54Mbps, and can auto-negotiate to 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1Mbps to be compatible with any IEEE 802.11b/g device.

The USB adapter is compatible with Windows 98SE/ME/2000/XP and can be used in either **Ad-hoc mode** (computer-to-computer, without a wireless router) or **Infrastructure mode** (computer-to-wireless router, a wireless router is required).

## 1.1 Features

- With the IEEE 802.11g 2.4GHz (OFDM) standard
- High data transfer rate - up to 54Mbps
- Supports 64/128/256-bit WEP and WPA data encryption security
- Supports peer-to-peer communication among any wireless users, no Access Point required
- Automatic fallback increases data security and reliability
- Supports the most popular operating systems: Windows 98SE/ME/2000/XP
- Portable and mini-size design
- Suitable for any notebook or desktop PC

## 1.2 Package Contents

Before you begin the installation, please check the items of your package. The package should include the following items:

- One **AirLive WL-5480USB** Adapter
- One USB Extension Cable
- One Quick Installation Guide
- One Driver & Utility CD (with User's Manual)

***If any of the above items is missing, contact your supplier as soon as possible.***

## 2. Installation Procedures

### 2.1 Install Utility Software

**Note1:** Before installing the utility software, **DO NOT** insert the USB adapter into your computer. If the adapter is inserted already, Windows will detect the adapter and request for a driver. Click **Cancel** to quit the wizard and remove the adapter from your computer.

**Note2:** If you have installed the USB adapter driver & utility already, please uninstall the old version first.

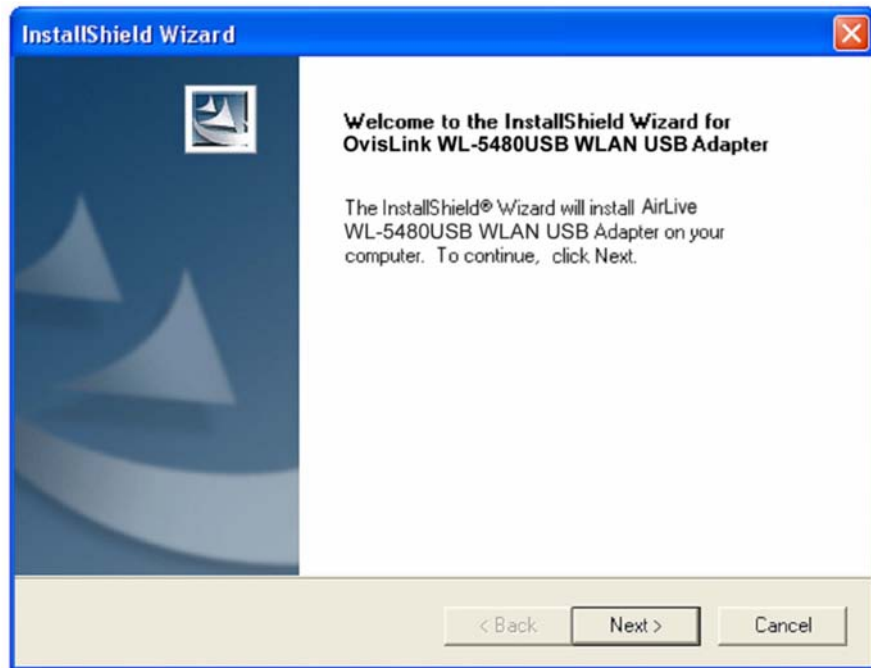
**Step 1** Insert the provided Driver and Utility CD into your CD drive.

**Step 2** Click **Install Driver** from the Setup menu.

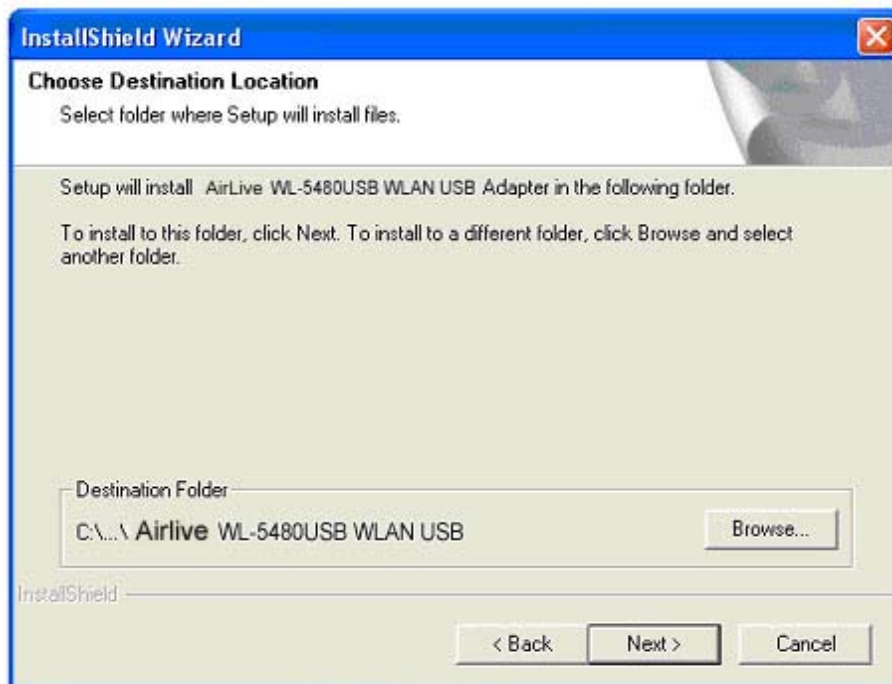
**Note:** If the Setup menu does not appear automatically, go to **Start, Run**, type **D:\autorun.exe** (where **D** is the letter of your CD drive) and click **OK**.



**Step 3** When the welcome screen appears, click **Next**.



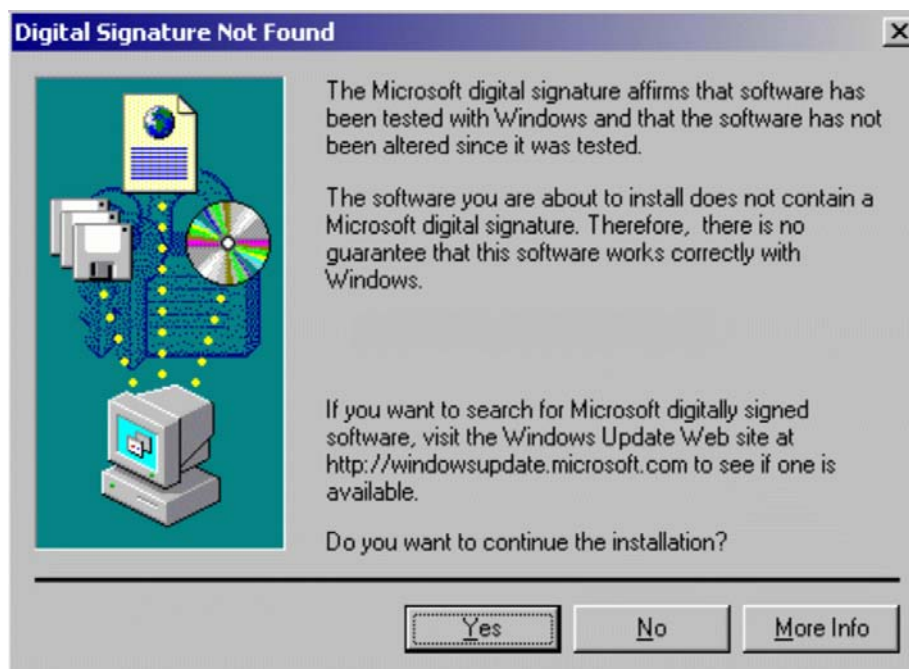
**Step 4** Click **Next** to accept the default destination folder for the software or click **Browse** to manually select a different destination folder.



**Step 5** For Windows XP, click **Continue Anyway** at the Windows Logo Compatibility screen.



For Windows 2000, click **Yes** at the Digital Signature screen.



**Step 6** Remove the Driver & Utility CD from your CD drive and then restart your computer.

## 2.2 Install Driver

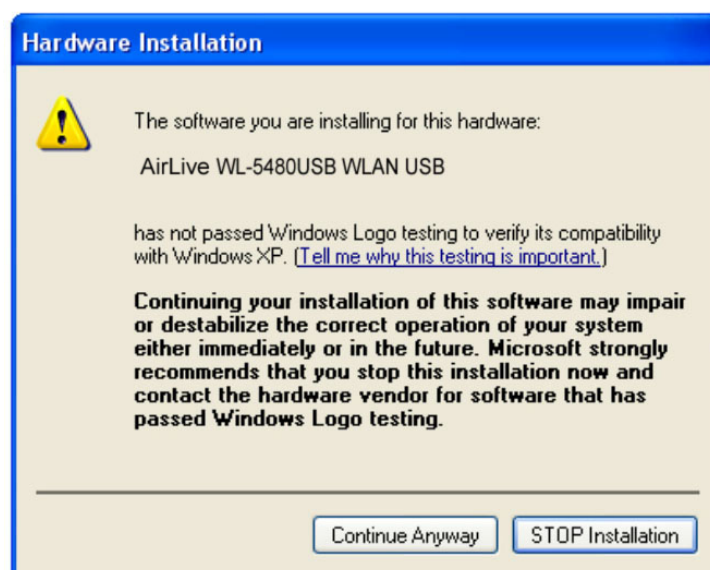
**Note:** In most cases, Windows will automatically install the driver after the computer is restarted. If the Found New Hardware Wizard appears, follow the instructions below. The Found New Hardware Wizard will look different depending on your operating system. Follow the on-screen instructions to complete the installation. For Windows 98SE and ME users, you may be prompted to insert the Windows 98SE or ME CD during the driver installation. Be sure to have your Windows 98SE or ME CD ready.

**Step 1** After the computer is restarted, insert the USB adapter into the USB port of the computer. If there is not enough room to insert the adapter directly to the USB port, you may use the supplied USB extension cable for more space.

**Step 2** Select **Install the software automatically** and click **Next**.



**Step 3** For Windows XP, click **Continue Anyway** at the Windows Logo Compatibility screen.



For Windows 2000, click **Yes** at the Digital Signature screen.



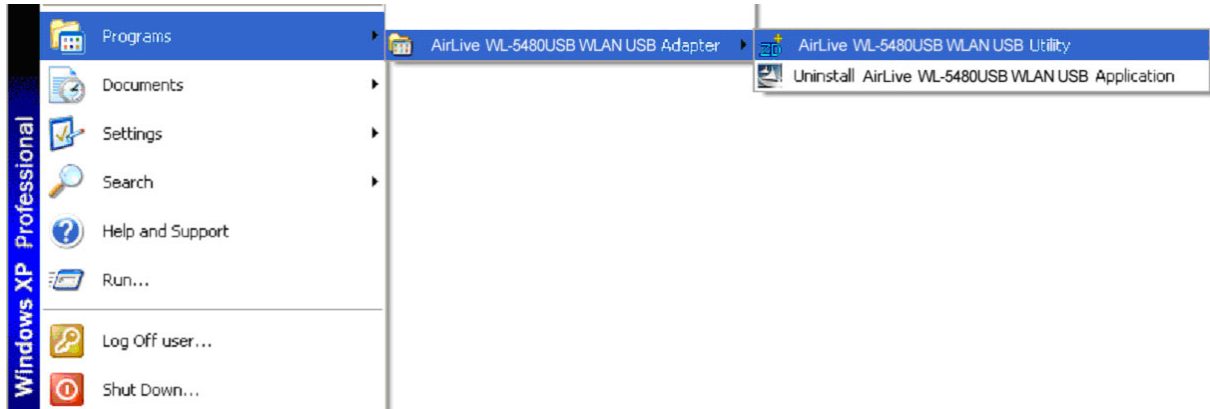
For Windows 98SE or ME, insert the Windows 98SE or ME CD if prompted to do so and click **OK**.

**Step 4** Click **Finish**. Restart the computer if you are prompted to do so.

### 3. Configuring USB Adapter as a Wireless Client

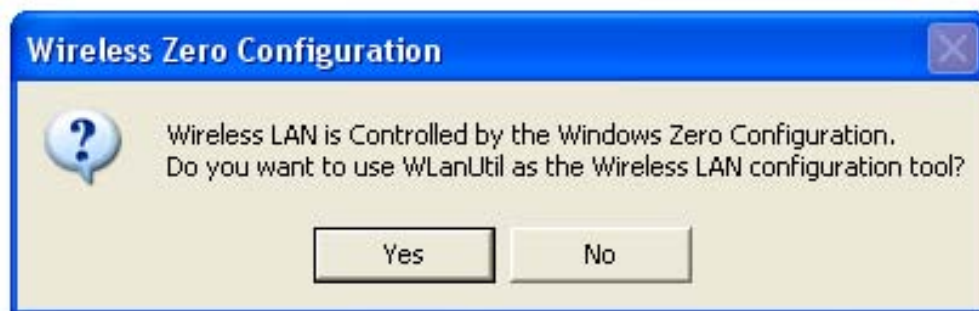
The USB adapter can be set to either **Station** or **Access Point** Mode from the **Mode** drop-down menu. **Station** mode is the default selection and should be selected if you want to connect to a wireless router/access point or conduct peer-to-peer networking.

To open the utility, go to **Start, (All) Programs, AirLive WL5480USB WLAN USB Adapter, AirLive WL5480USB WLAN USB Utility**.

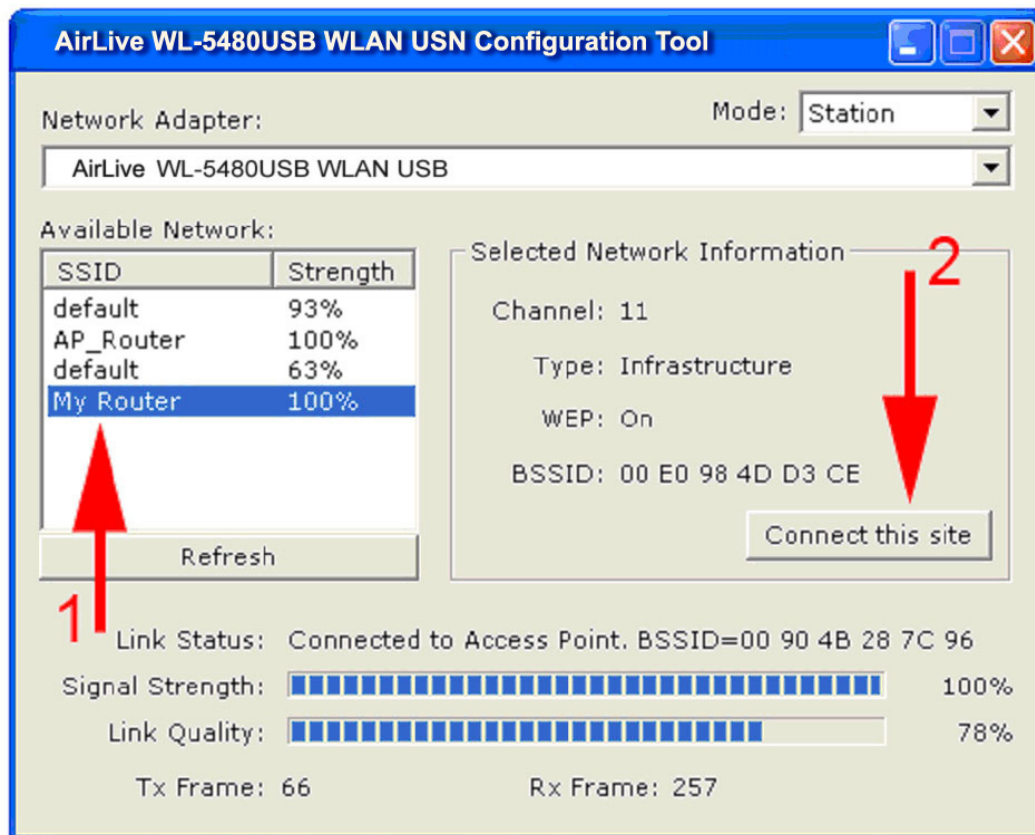


#### Note to Windows XP Users:

If you encounter the Wireless Zero Configuration dialog box, click **Yes** to enable the Wireless LAN Utility to configure your USB adapter.



**Step 1** Select the **SSID** of your wireless router/access point from the Available Network list and click on the **Connect this site** button.



**Step 2** Verify that the adapter has adequate **Signal Strength** and **Link Quality** and then restart the computer.

**Mode:** Select from **Station** or **Access Point**. For more information regarding Access Point, please refer to the next section, **4. Configuring USB Adapter as an Access Point**.

**Network Adapter:** Displays the name of the USB adapter.

**Available Network:** Lists all the available wireless router/access point in your area. You can click on the **Refresh** button to update the list.

**Selected Network Information:** Displays the network information for the currently selected SSID. (An SSID must be highlighted first).

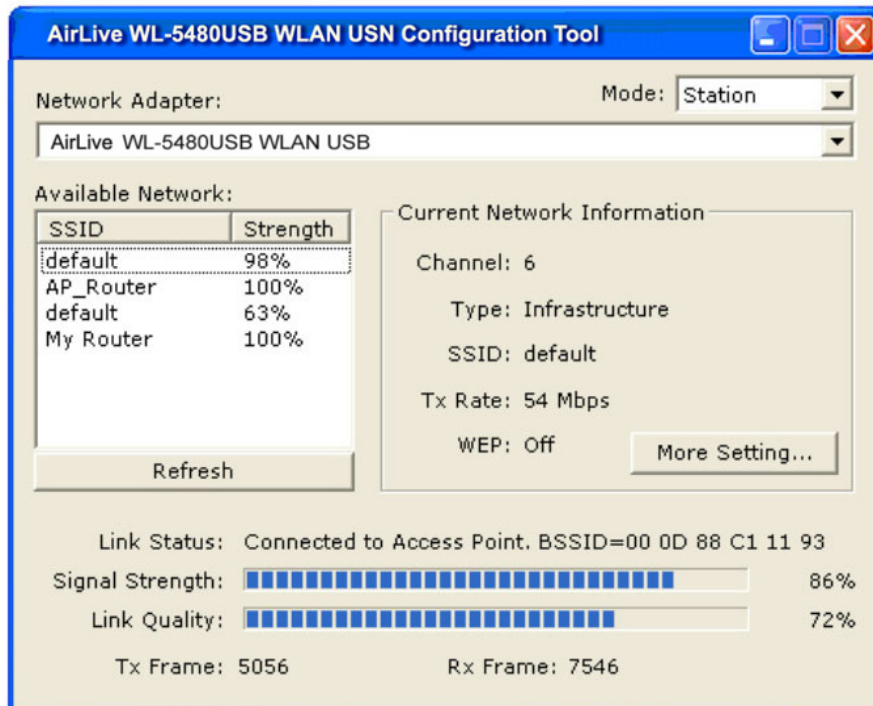
**Link Status:** Displays the current link status.

**Signal Strength:** Displays the current signal strength.

**Link Quality:** Displays the current link quality.

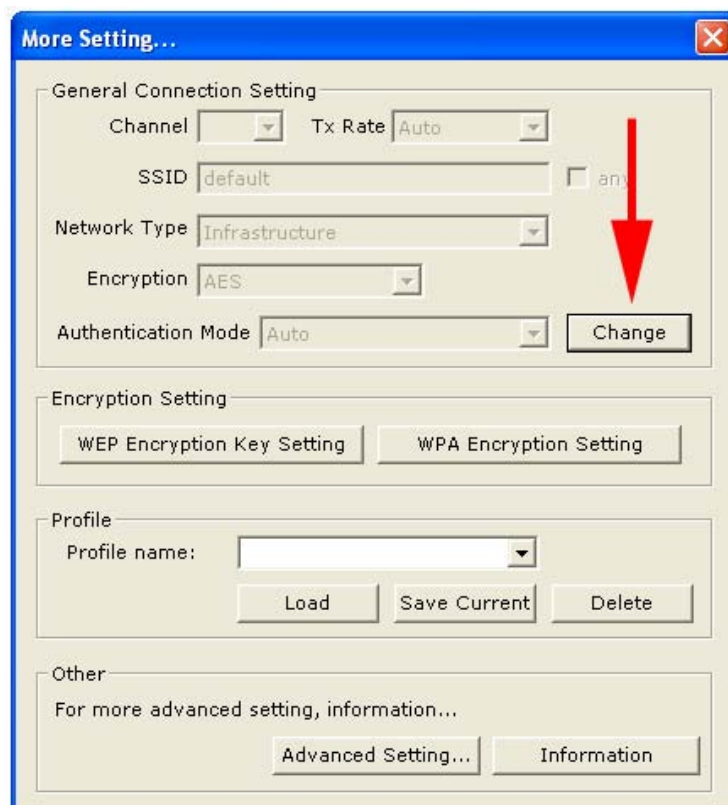
**Tx Frame:** Displays the number of frames transmitted.

**Rx Frame:** Displays the number of frames received.



**Current Network Information:** Displays the network information of the wireless router/access point that the USB adapter is currently connected to.

**More Setting:** Click on this button to access the USB adapter's configuration settings, including WEP and WPA encryption settings.



### 3.1 Configuring General Settings

Click **Change** to configure the adapter's **General Connection Setting**.

The screenshot shows a 'More Setting...' dialog box with a blue title bar and a red close button. It contains several sections: 'General Connection Setting' with fields for Channel, Tx Rate (set to Auto), SSID (set to My Router), Network Type (set to Infrastructure), Encryption (set to Disable), and Authentication Mode (set to Auto), along with an 'Apply' button; 'Encryption Setting' with buttons for 'WEP Encryption Key Setting' and 'WPA Encryption Setting'; 'Profile' with a 'Profile name' dropdown, 'Load', 'Save Current', and 'Delete' buttons; and 'Other' with a text label 'For more advanced setting, information...' and buttons for 'Advanced Setting...' and 'Information'.

**Channel:** This setting is for **Access Point Mode** only.

**Tx Rate:** Select the desired transmission rate, or leave the default setting of **Auto** to allow the adapter to automatically select the optimum rate.

**SSID:** You can manually enter the SSID of the wireless router/access point you wish to connect to.

**Any** (check box): Allows you to connect to any available wireless router/access point. (Check this box if you're trying to connect to a public hot spot and don't know the SSID).

**Network Type:** Choose from **Infrastructure** (for connecting to a wireless router/access point) or **Ad-Hoc** (for computer-to-computer networking, bypassing the wireless router/access point).

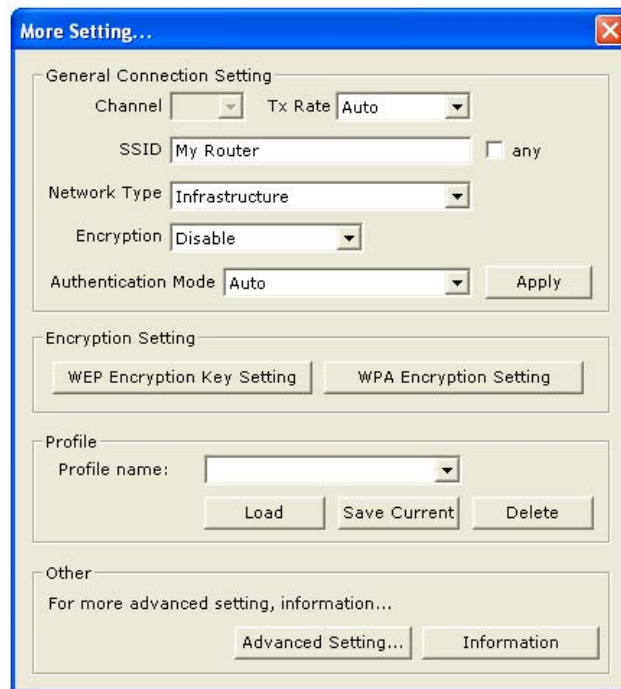
**Encryption:** Choose from **Disable WEP**, or **Enable WEP**.

**Authentication Mode:** Choose from **Auto** (recommended), **Open System**, or **Shared Key**.

Click **Apply** to save the changes.

### 3.2 Configuring Encryption Security

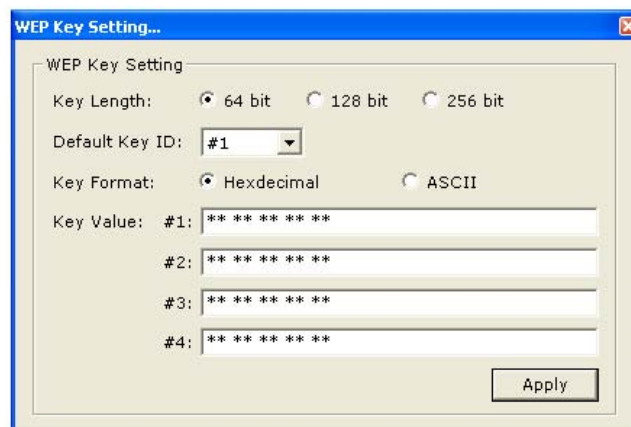
Click **WEP Encryption Key Setting** to configure the WEP settings.



The 'More Setting...' dialog box is shown with a blue title bar and a close button. It contains four sections: 'General Connection Setting' with fields for Channel, Tx Rate (set to Auto), SSID (My Router), Network Type (Infrastructure), Encryption (Disable), and Authentication Mode (Auto); 'Encryption Setting' with buttons for 'WEP Encryption Key Setting' and 'WPA Encryption Setting'; 'Profile' with a 'Profile name' dropdown and 'Load', 'Save Current', and 'Delete' buttons; and 'Other' with a link to 'Advanced Setting...' and an 'Information' button.

Click **Change** to configure the WEP Key Setting and then click **Apply** to save the settings.

**Note:** The WEP Key settings must be identical to the WEP settings of the wireless router/access point you wish to connect to.



The 'WEP Key Setting...' dialog box is shown with a blue title bar and a close button. It contains a 'WEP Key Setting' section with 'Key Length' (radio buttons for 64 bit, 128 bit, 256 bit), 'Default Key ID' (dropdown set to #1), 'Key Format' (radio buttons for Hexadecimal, ASCII), and four 'Key Value' fields labeled #1 through #4, each with a masked input field. An 'Apply' button is at the bottom right.

**Key Length:** Select the appropriate encryption key length.

**Default Key ID:** Select which of the four Key Value you want to use.

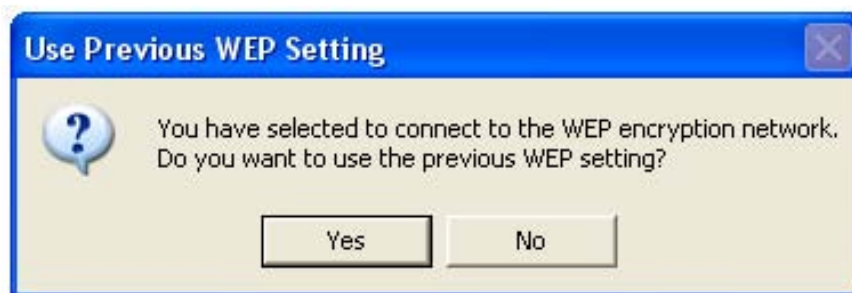
**Key Format:** Select either Hexadecimal (0-9, A-F) or ASCII (any number or letter).

**Key Value:** Enter the applicable key values. Up to four key values may be entered. Note the following rules when entering Key values:

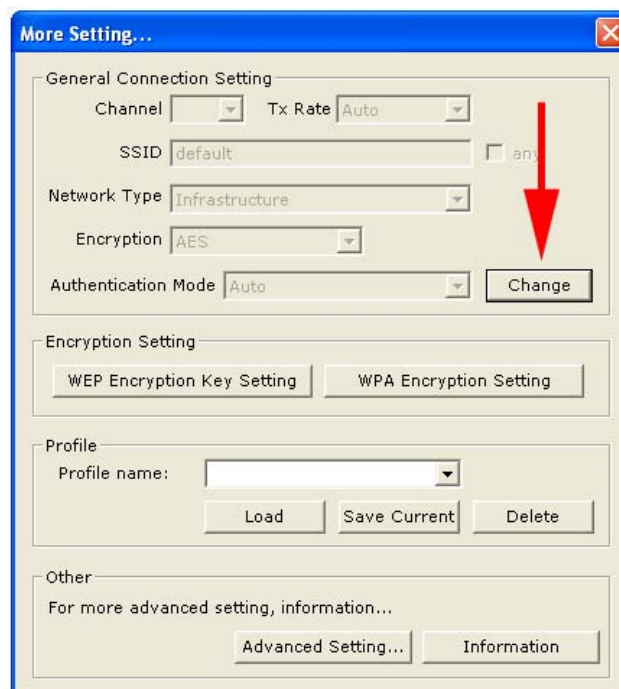
- **64-bit** key length requires **10** Hexadecimal characters (0-9, A-F) or **5** ASCII characters (any number or letter).
- **128-bit** key length requires **26** Hexadecimal characters (0-9, A-F) or **13** ASCII characters (any number or letter).
- **256-bit** key length requires **58** Hexadecimal characters (0-9, A-F) or **19** ASCII characters (any number of letter).

After you have applied the changes, return to the utility's main screen and select the wireless router/access point you wish to connect to.

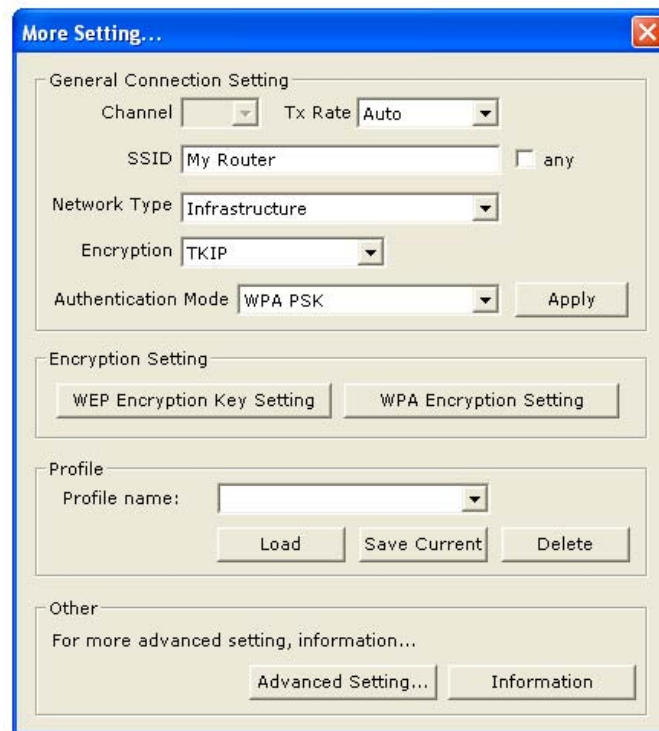
Click **Yes** at the **Use Previous WEP Setting** dialog box to connect to the encrypted wireless router/access point.



If you want to use WPA encryption, click on **Change** in the General Connection Setting.



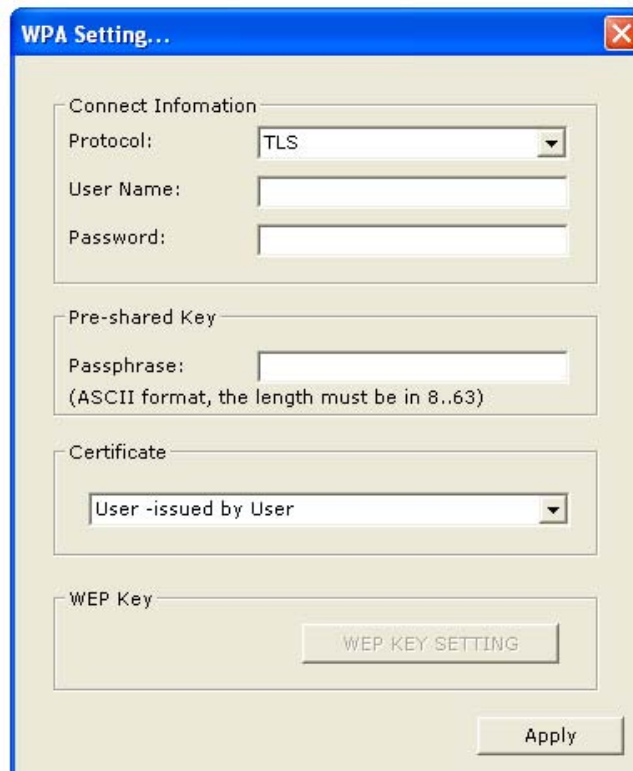
1. Select **TKIP** for Encryption, **WPA PSK** for Authentication Mode, and click **Apply**.



The screenshot shows a window titled "More Setting..." with a blue title bar and a red close button. The window is divided into several sections:

- General Connection Setting:** Contains dropdown menus for "Channel", "Tx Rate" (set to "Auto"), "SSID" (set to "My Router"), "Network Type" (set to "Infrastructure"), "Encryption" (set to "TKIP"), and "Authentication Mode" (set to "WPA PSK"). There is an "Apply" button to the right of the "Authentication Mode" dropdown.
- Encryption Setting:** Contains two buttons: "WEP Encryption Key Setting" and "WPA Encryption Setting".
- Profile:** Contains a "Profile name:" label, a dropdown menu, and three buttons: "Load", "Save Current", and "Delete".
- Other:** Contains the text "For more advanced setting, information..." and two buttons: "Advanced Setting..." and "Information".

2. Click on **WPA Encryption Setting** and click **Change**.
3. Enter the appropriate passphrase in the **Passphrase** field under the **Pre-shared Key** section and click **Apply**. (The passphrase must be identical to the passphrase set on your wireless router/access point and it has to be between 8 to 63 ASCII characters long).



**WPA Setting...**

Connect Information

Protocol:

User Name:

Password:

Pre-shared Key

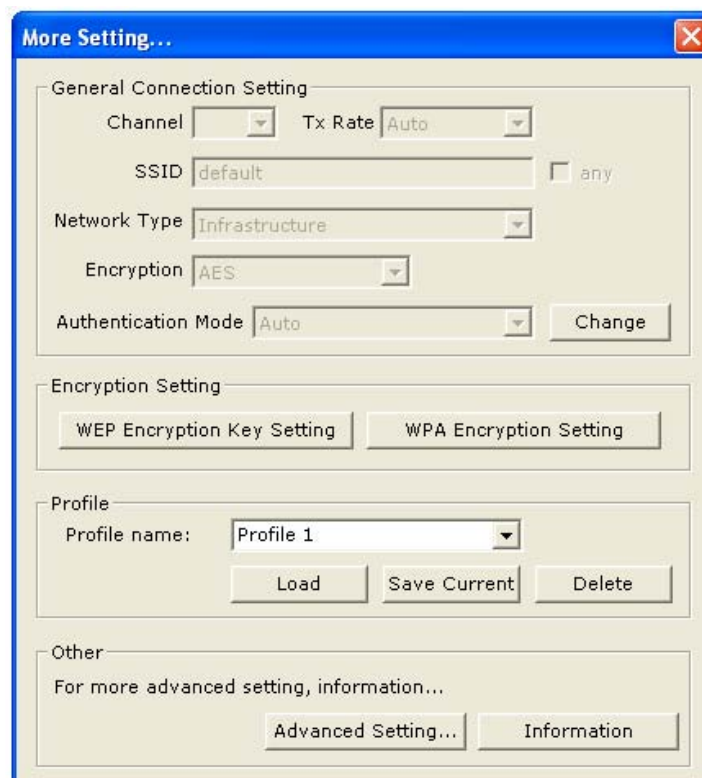
Passphrase:

(ASCII format, the length must be in 8..63)

Certificate

WEP Key

### 3.3 Configuring Profile



**More Setting...**

General Connection Setting

Channel  Tx Rate

SSID  ☐ any

Network Type

Encryption

Authentication Mode

Encryption Setting

Profile

Profile name:

Other

For more advanced setting, information...

After you have configured all the settings, you can save your settings as a profile so you don't have to re-configure them the next time.

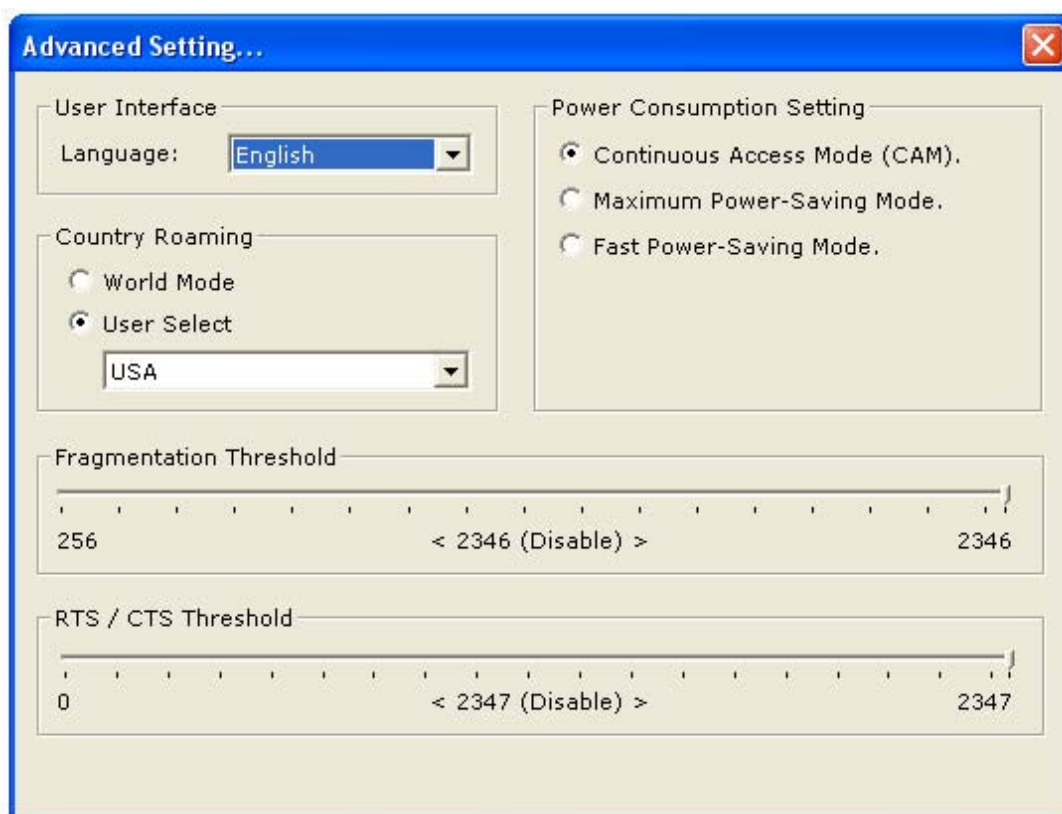
Type in a name for the profile in the **Profile name** field and click **Save Current**.

To load a profile, select the profile from the drop-down menu and click **Load**.

To delete a profile, select the profile from the drop-down menu and click **Delete**.

### 3.4 Advanced Settings

Click on **Advanced Setting** from the **More Setting** window to configure the adapter's advanced settings.



**User Interface:** select the language for the adapter's user interface.

### Power Consumption Setting:

- **Continuous Access Mode:** provides the best signal throughput but least power save.
- **Maximum Power-Saving Mode:** provides the best power save but least throughput.
- **Fast Power-Saving Mode:** provides average power save and throughput.

**Country Roaming:** select the country you are in.

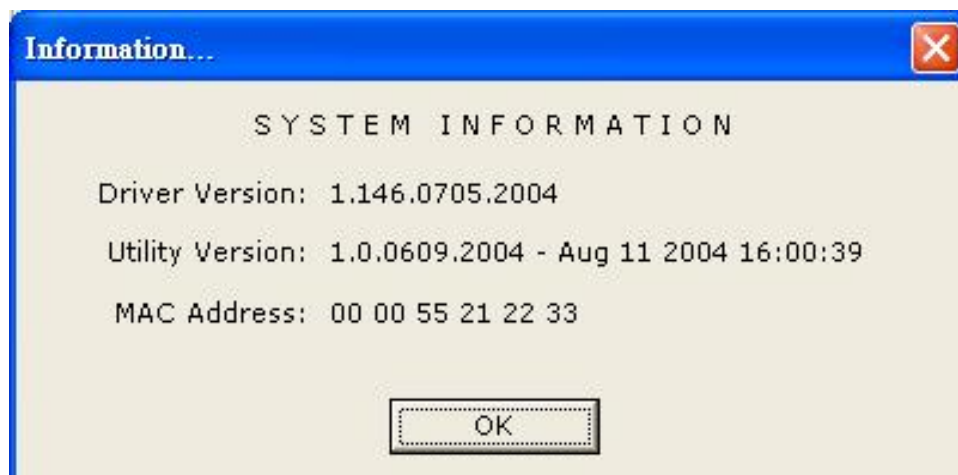
- **World Mode:** the adapter will get its country setting from the access point.
- **User Select:** choose your country.

**Fragmentation Threshold:** choose from 256 to 2346 bytes.

**RTS/CTS Threshold:** choose from 0 to 2347 bytes.

### 3.5 Information

Click on **Information** from the **More Setting** window to view the driver and utility's information.





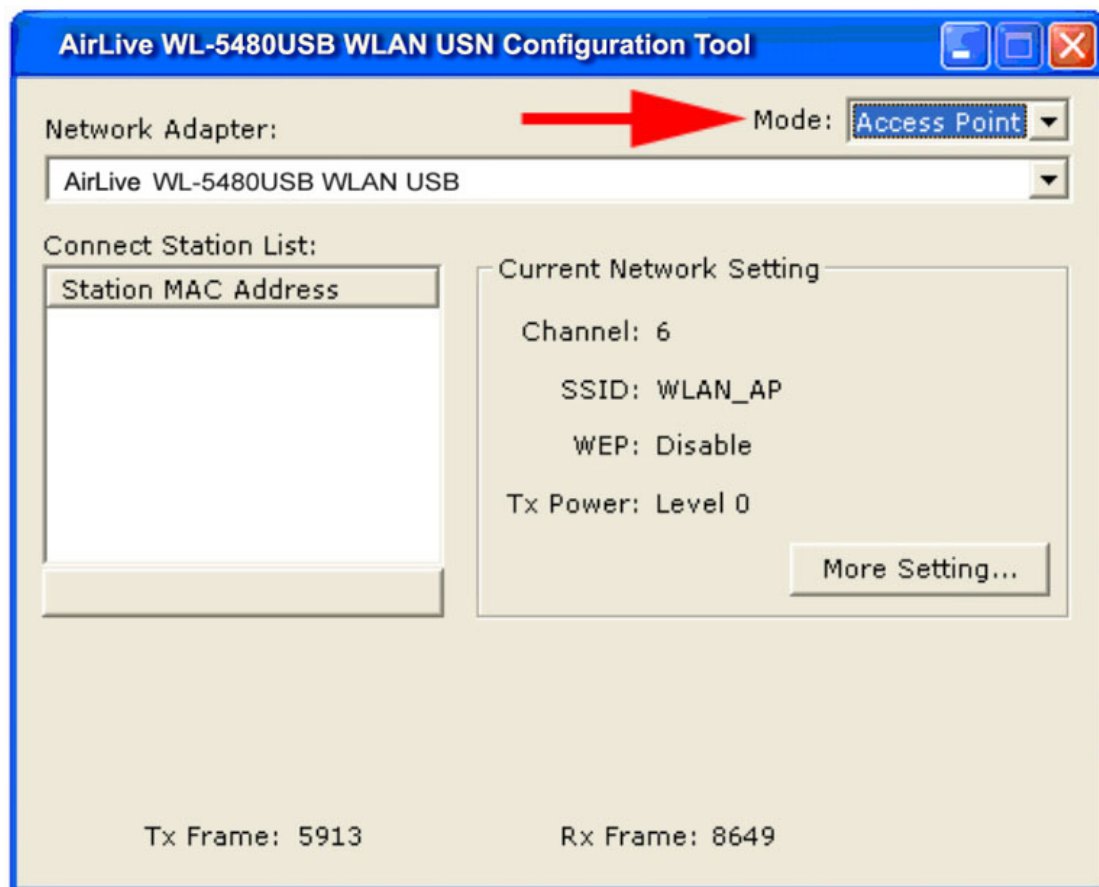
## 4. Configuring USB Adapter as an Access Point

### 4.1 Configuring Access Point

You can configure the USB Adapter as an access point for other wireless clients on your network.

**Note:** You will not be able to access the Internet if you configure the USB adapter as an access point. To allow other wireless clients to access the Internet, you will need to configure your computer as a router and a DHCP server. The vendor will not provide any technical support in regards to the USB adapter functioning as an access point.

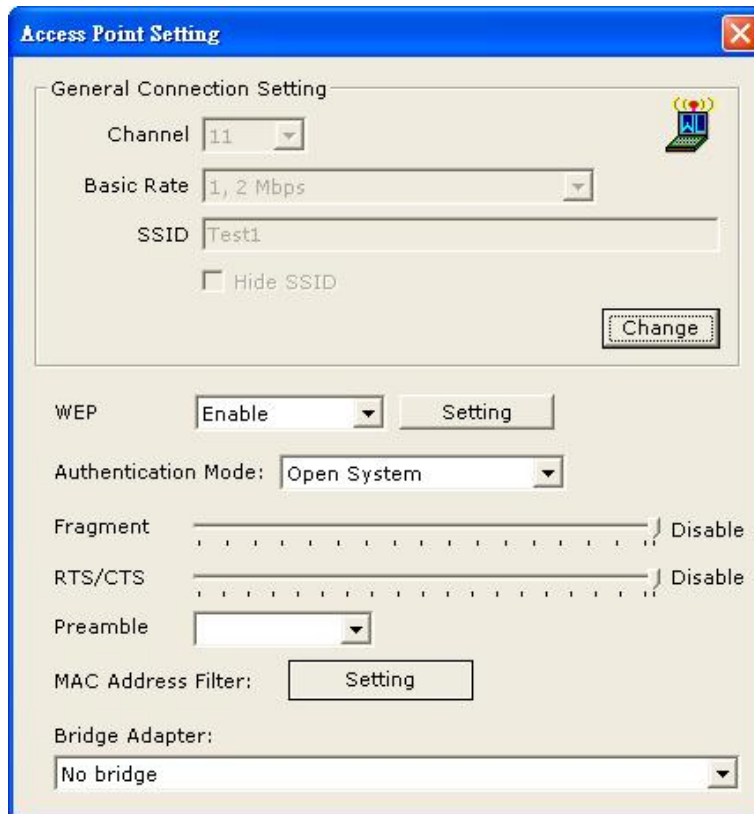
Select **Access Point** from the Mode drop-down menu.



The default settings for the access point are as follows:

**Channel:** 6  
**SSID:** WLAN\_AP  
**WEP:** Disable  
**Tx Power:** Level 0

To configure the access point, click on **More Setting**.

The image shows a Windows-style dialog box titled "Access Point Setting". It has a blue title bar with a close button (X) in the top right corner. The main area is divided into two sections. The top section, titled "General Connection Setting", contains a "Channel" dropdown menu set to "11", a "Basic Rate" dropdown menu set to "1, 2 Mbps", an "SSID" text field containing "Test1", and an unchecked "Hide SSID" checkbox. A "Change" button is located at the bottom right of this section. The bottom section contains a "WEP" dropdown menu set to "Enable" with a "Setting" button next to it, an "Authentication Mode" dropdown menu set to "Open System", two sliders for "Fragment" and "RTS/CTS" both set to "Disable", a "Preamble" dropdown menu, a "MAC Address Filter" label with a "Setting" button, and a "Bridge Adapter" dropdown menu set to "No bridge".

Access Point Setting

General Connection Setting

Channel: 11

Basic Rate: 1, 2 Mbps

SSID: Test1

☐ Hide SSID

Change

WEP: Enable Setting

Authentication Mode: Open System

Fragment: Disable

RTS/CTS: Disable

Preamble:

MAC Address Filter: Setting

Bridge Adapter: No bridge

Click on **Change** to configure the settings.

**Channel:** select the channel you want to use.

**Basic Rate:** select the applicable transfer rate.

**SSID:** enter the desired SSID for the access point.

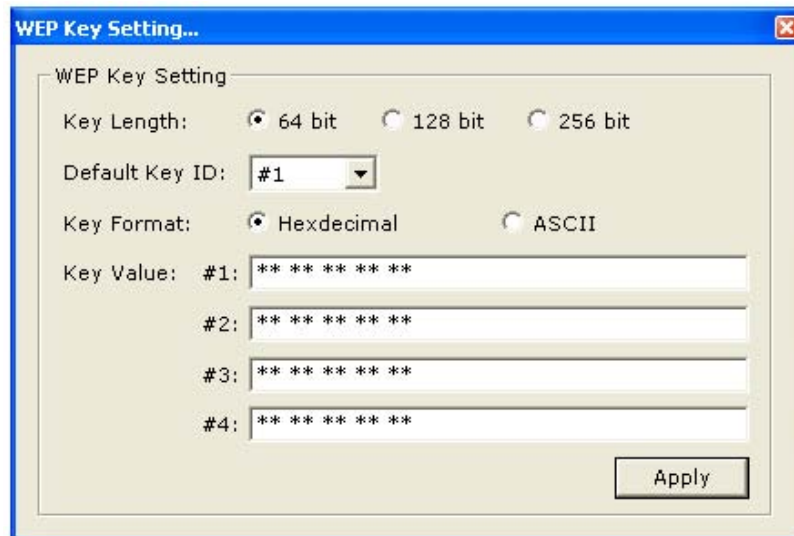
**Hide SSID (check box):** check to disable the broadcast of SSID.

Click **Apply** to submit the changes.

**Bridge Adapter:** If you have another Ethernet card installed in your computer, you can select the other Ethernet card as the bridge adapter. This will allow any wireless client that is connected to the access point to be bridged to the wired network that the other Ethernet card is connected to.

## 4.2 Configuring Encryption Security

Select **Enable** from the WEP drop-down menu and click **Setting**.

The image shows a 'WEP Key Setting...' dialog box. It has a title bar with a close button. Inside, there's a section titled 'WEP Key Setting'. Under 'Key Length', there are three radio buttons: '64 bit' (selected), '128 bit', and '256 bit'. Below that is a 'Default Key ID' dropdown menu showing '#1'. Then 'Key Format' has two radio buttons: 'Hexadecimal' (selected) and 'ASCII'. At the bottom, there are four text input fields labeled '#1:', '#2:', '#3:', and '#4:'. Each field contains ten asterisks. An 'Apply' button is in the bottom right corner.

**Key Length:** Select the appropriate encryption key length.

**Default Key ID:** Select which of the four Key Value you want to use.

**Key Format:** Select either Hexadecimal (0-9, A-F) or ASCII (any number or letter).

**Key Value:** Enter the applicable key values. Up to four key values may be entered. Note the following rules when entering Key values:

- **64-bit** key length requires **10** Hexadecimal characters (0-9, A-F) or **5** ASCII characters (any number or letter).
- **128-bit** key length requires **26** Hexadecimal characters (0-9, A-F) or **13** ASCII characters (any number or letter).
- **256-bit** key length requires **58** Hexadecimal characters (0-9, A-F) or **19** ASCII characters (any number or letter).

**Authentication Mode:** select from **Open System** or **Shared Key**.

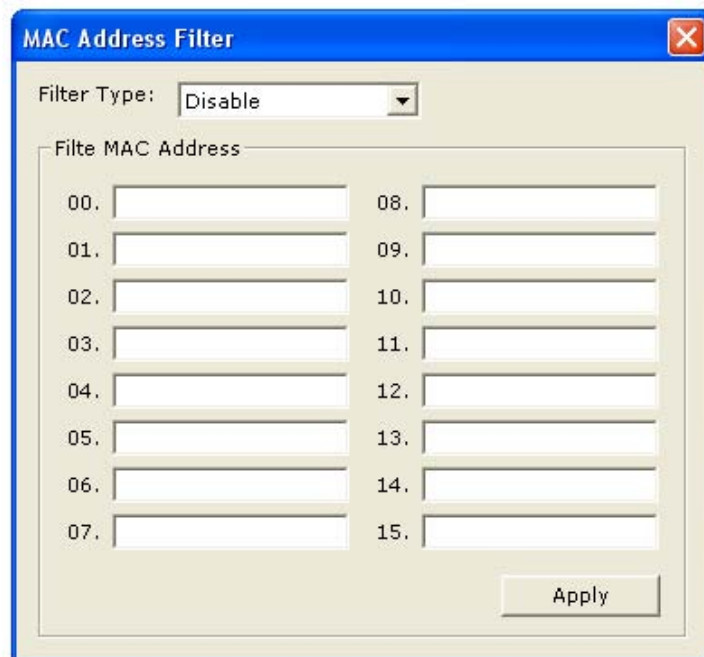
**Fragmentation Threshold:** choose from 256 to 2346 bytes.

**RTS/CTS Threshold:** choose from 0 to 2347 bytes.

**Preamble:** select **Long** or **Short**.

**MAC Address Filter:** click **Setting**.

### 4.3 Configuring MAC Address Filter



The image shows a 'MAC Address Filter' configuration window. At the top, there is a 'Filter Type:' dropdown menu currently set to 'Disable'. Below this is a section titled 'Filter MAC Address' which contains two columns of input fields, numbered 00 through 15. Each number is followed by a small text box for entering a hexadecimal digit. An 'Apply' button is located at the bottom right of the window.

#### Filter Type:

**Disable:** disables MAC address filter.

**Accept:** only accepts connection from the MAC address listed. (Connection attempts from MAC address not in the list will be rejected).

**Reject:** only rejects connection from the MAC address listed. (Connection attempts from MAC address not in the list will be accepted, provided the client matches the encryption settings as well).

Click **Apply** to submit the changes.

## 5. Appendix

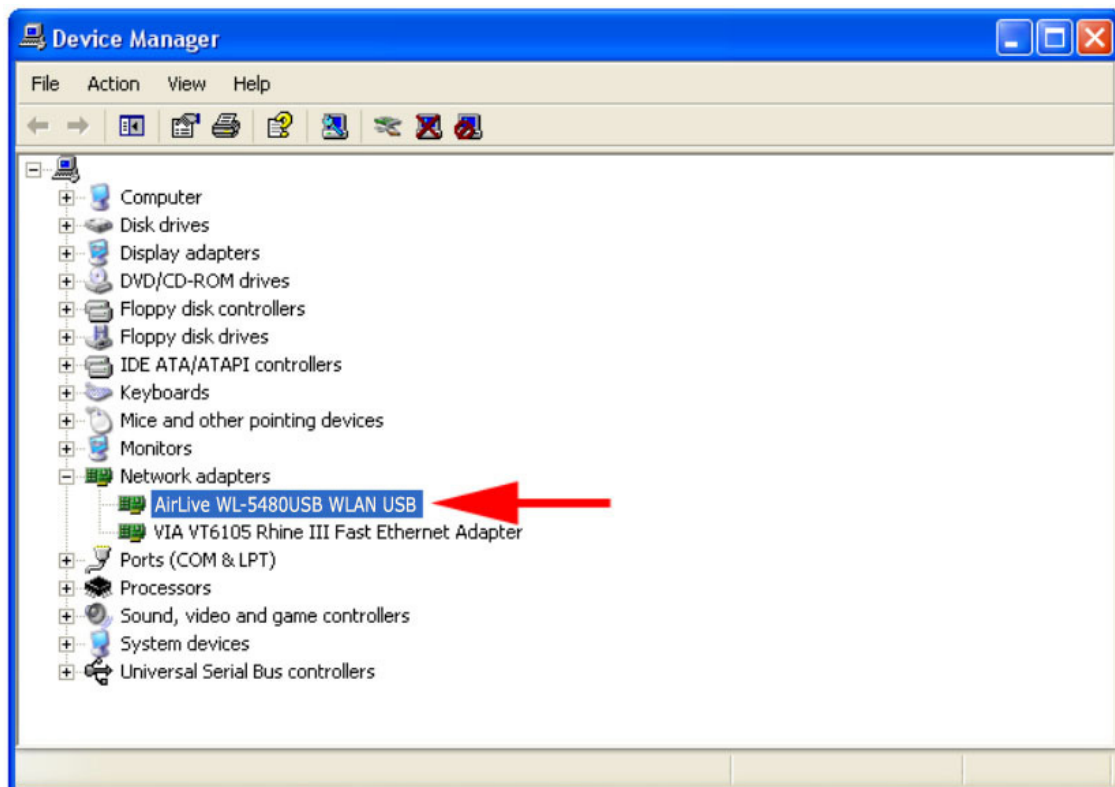
### 5.1 Specifications

| Electrical Specifications                  |                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface                                  | USB 2.0 Standard, USB 1.1 Compliant                                                                                                                                                     |
| Standards Conformance                      | IEEE802.11 / 802.11b / 802.11g, ARIB STD-T66 compliant                                                                                                                                  |
| Data Transfer Rate                         | IEEE802.11b : 1 / 2 / 5.5 / 11Mbps (auto sensing)<br>IEEE802.11g : 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54Mbps (auto sensing)                                                               |
| Access Method                              | Infrastructure Mode, Ad-Hoc Mode (802.11 Ad-Hoc), Roaming                                                                                                                               |
| Security                                   | WEP 64/128/256bit, TKIP, WPA, 802.11i, compliant AES encryption                                                                                                                         |
| Quality of Service (QoS)                   | 802.11e                                                                                                                                                                                 |
| Software AP                                | RTS/CTS support<br>Fragment and Reassembly<br>Power Saving support<br>Hardware –WEP (64 and 128 bit)<br>MAC address filter<br>Support software bridge on Win 98 , WinME, Win2000, WinXP |
| International Regulation                   | 802.11d                                                                                                                                                                                 |
| Frequency Range                            | IEEE802.11b : 2.4 to 2.497GHz<br>IEEE802.11g : 2.4 to 2.4835GHz                                                                                                                         |
| Wireless Medium                            | OFDM & DSSS (with Barker coding and CCK for backward compatibility with 802.11b)                                                                                                        |
| Media Access Protocol                      | CSMA / CA                                                                                                                                                                               |
| Modulation Method                          | IEEE802.11b : DBPSK (1Mbps), DQPSK (2Mbps), CCK (5.5/11Mbps)<br>IEEE802.11g : BPSK (6/9Mbps), QPSK (12/18Mbps), 16-QAM (24/36Mbps), 64QAM (48/54Mbps)                                   |
| Operating Channels                         | 1~11 (U.S. & Canada), 1~13 (channel availability depends on local regulations)                                                                                                          |
| Transmit Power Settings                    | 15dBm (OFDM) / 17dBm (CCK)                                                                                                                                                              |
| Operating Range                            | Up to 100 meters (328 feet) transmit and receive                                                                                                                                        |
| Receiver Sensitivity                       | 1 Mbps : -93dBm<br>2 Mbps : -91dBm<br>5.5 Mbps : -88dBm<br>11 Mbps : -85dBm<br>12 Mbps : -88dBm<br>24 Mbps : -83dBm<br>36 Mbps : -79dBm<br>54 Mbps : -72dBm                             |
| Internal Antenna Type                      | Built-in Chip Antenna                                                                                                                                                                   |
| LED Indicators                             | Power / Link                                                                                                                                                                            |
| Power Consumption                          | -Power Save mode = 103mA<br>-Standby mode = 2mA<br>-Transmit mode = 450mA<br>-Receive Mode = 180mA                                                                                      |
| Operating systems                          | Windows XP, Windows2000, Windows ME, 98SE, Linux                                                                                                                                        |
| Environmental & Mechanical Characteristics |                                                                                                                                                                                         |
| Operating Temperature                      | 32 °F ~ 131 °F (0 °C ~ 55 °C)                                                                                                                                                           |
| Storage Temperature                        | -13 °F ~ 158 °F (-20 °C ~ 70 °C)                                                                                                                                                        |
| Operating Humidity                         | 10% to 80% Non-Condensing                                                                                                                                                               |
| Storage Humidity                           | 5% to 90% Non-Condensing                                                                                                                                                                |
| Dimensions                                 | 5 (H) x 22 (W) x 61 (L) mm                                                                                                                                                              |
| Weight                                     | 40g                                                                                                                                                                                     |
| Certifications                             | FCC part 15b 、 CE                                                                                                                                                                       |

## 5.2 Troubleshooting

**A.** If the utility cannot be opened or it reports that the adapter is not found, uninstall the driver and utility and try installing again. You can also verify if the driver is installed properly in the Device Manager.

To access the Device Manager, right-click on **My Computer** on your desktop, select **Properties**. Go to the **Device Manager** tab. (For Windows 2000/XP, go to the **Hardware** tab first then click on the **Device Manager** button).



Expand **Network adapters** and you should see **AirLive WL5480USB WLAN USB LAN**. If there is no yellow question mark or exclamation mark, the driver is installed properly.

**B.** If you do not see your wireless router/access point in the Available Network list, reset your wireless router/access point and click on **Refresh**.

**C.** If WEP is ON, it means that the wireless router/access point has encryption enabled. Be sure to set the identical encryption settings on the USB adapter's utility as well.

**D.** If the adapter has adequate signal strength and link quality, but cannot access the Internet, verify that you are able to obtain an IP address from your wireless router/access point.

### For Windows 98SE/ME

**Step 1** Go to **Start, Run**, type **winipcfg** and click **OK**.

**Step 2** Select the adapter from the drop-down menu and click **Release**.

**Step 3** After the IP address is released, click **Renew**. You should get an IP address like **192.168.x.y** (where **x** and **y** are unique numbers assigned by your wireless router/access point). If you don't get an IP address, reset the wireless router/access point and then try **Renew** again.

### For Windows 2000/XP

**Step 1** Go to **Start, Run**, type **cmd** and click **OK**.

**Step 2** At the command prompt, type **ipconfig/release** and press **Enter**.

**Step 3** After the IP address is released, type **ipconfig/renew** and press **Enter**. You should get an IP address like **192.168.x.y** (where **x** and **y** are unique numbers assigned by your wireless router/access point). If you don't get an IP address, reset the wireless router/access point and then try **ipconfig/renew** again.

**E.** You must have USB 2.0 compatible hardware and install the latest USB 2.0 driver from Microsoft in order to reach the data transfer rate of 54 Mbps. If your hardware is not USB 2.0 compatible or you don't have the latest USB 2.0 driver installed, you will not reach 54 Mbps.

## 5.3 Frequently Asked Question

### 1. What is the IEEE 802.11g standard?

The IEEE 802.11g Wireless LAN standard subcommittee which formulates the standard for the industry. The objective is to enable wireless LAN hardware from different manufactures to communicate.

### 2. What does IEEE 802.11 feature support?

The product supports the following IEEE 802.11 functions :

- CSMA/CA plus Acknowledge Protocol
- Multi-Channel Roaming
- Automatic Rate Selection
- RTS/CTS Feature
- Fragmentation
- Power Management

### 3. What is Ad-hoc?

An Ad-hoc integrated wireless LAN is a group of computers, each has a Wireless LAN adapter, Connected as an independent wireless LAN. Ad hoc wireless LAN is applicable at a departmental scale for a branch or SOHO operation.

### 4. What is Infrastructure?

An integrated wireless and wireless and wired LAN is called an Infrastructure configuration. Infrastructure is applicable to enterprise scale for wireless access to central database, or wireless application for mobile workers.

### 5. What is BSS ID?

A specific Ad hoc LAN is called a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.

### 7. Can Wireless products support printer sharing ?

Wireless products perform the same function as LAN products. Therefore, Wireless products can work with Netware, Windows 2000, or other LAN operating systems to support printer or file sharing.

### 8. Would the information be intercepted while transmitting on air?

WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent security feature of scrambling. On the software side, WLAN series offer the encryption function (WEP) to enhance security and Access Control. Users can set it up depending upon their needs.