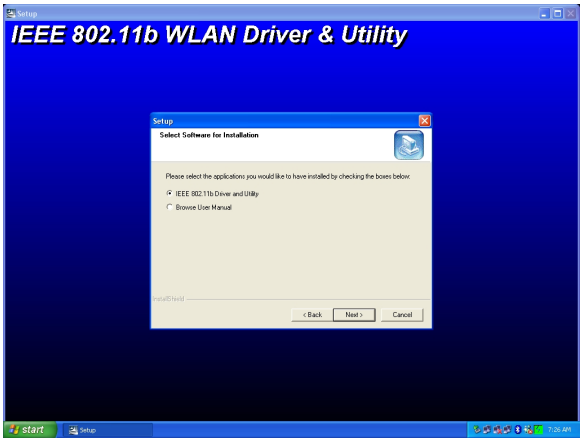
## 3.1 Install the IEEE802.11b WLAN Driver / Utility

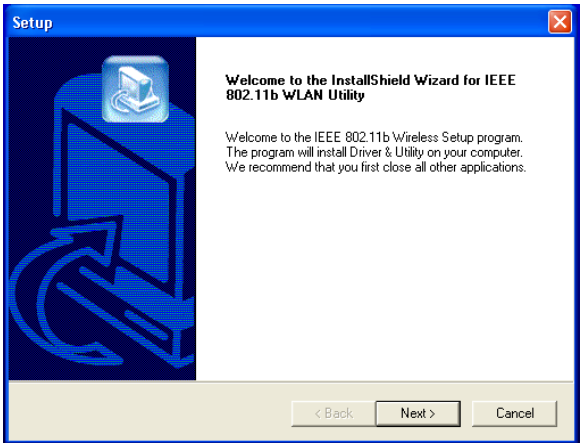
**NOTE:** *Please install the IEEE802.11b WLAN Driver & Utility before inserting the IEEE802.11b Wireless LAN USB Card.*

1. **Insert the installation CD.** Insert the installation CD into your CD-ROM drive. The setup program automatically starts.

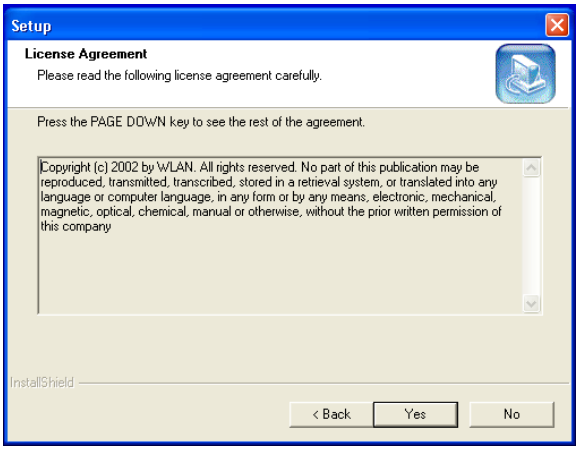
2. **Click "Next".** Select "Install IEEE802.11b WLAN Driver and Utility" and then click " Next" to go on the installation.



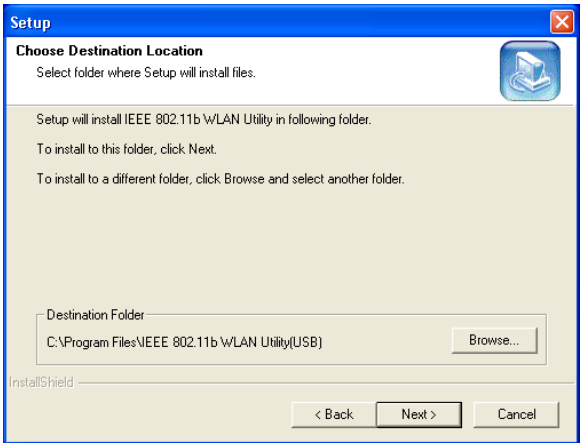

3. **Click "Next".**



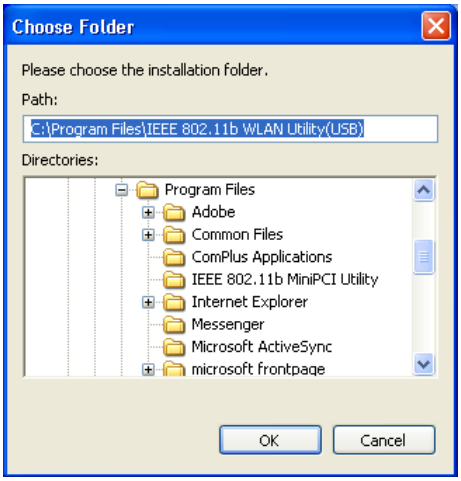
4. **Click "Yes".**



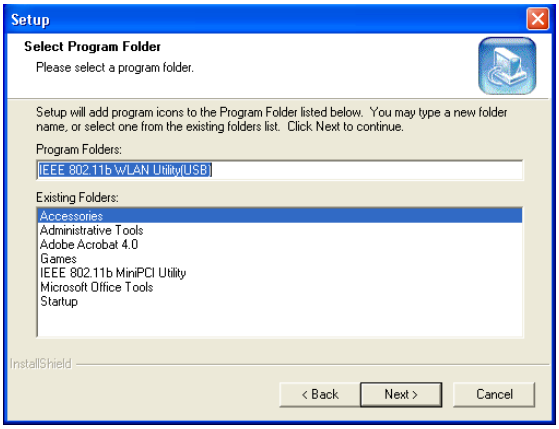

5. **Read the destination folder and click "Next".** The default destination folder is displayed in the setup dialog box. Click "Next" to go on to Step 7. You may change the default folder by clicking "Browse" to select the destination folder you prefer (go on to Step 6). Click " Next" to go to the next screen.



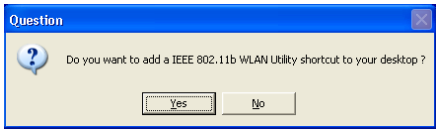

6. **Select the Program Folder and click "Next".**



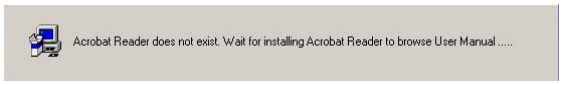
7. **Click "Next".**



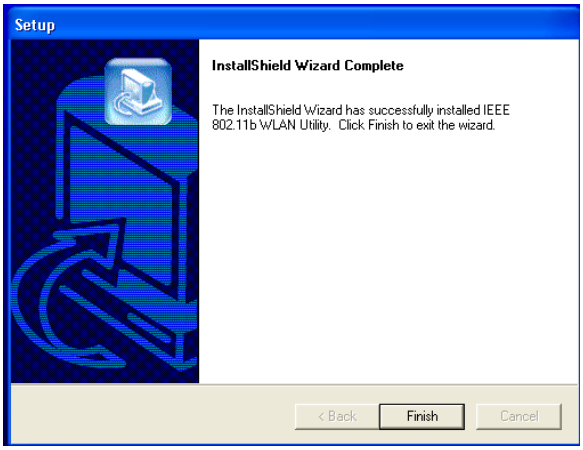

8. **Click "Yes".** You are asked whether to add an IEEE802.11b USB WLAN Utility shortcut to your desktop. Click "Yes" to create one.




9. The user manual is published in Portable Document Format (PDF). If Acrobat Reader does not exist in your system, the following message will be prompted to automatically enter the Acrobat Reader installation screen. Please follow the instructions to complete the Acrobat Reader installation.




10. **Click "Finish".** The installation is complete.

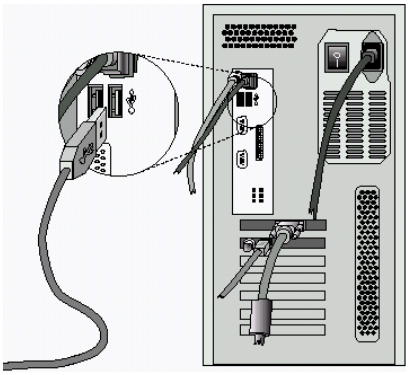



11. For the installation of IEEE802.11b Wireless LAN USB Card, please refer to the next chapter 3.2 "Install the USB Card."

## 3.2 Install the USB Card (Windows XP)

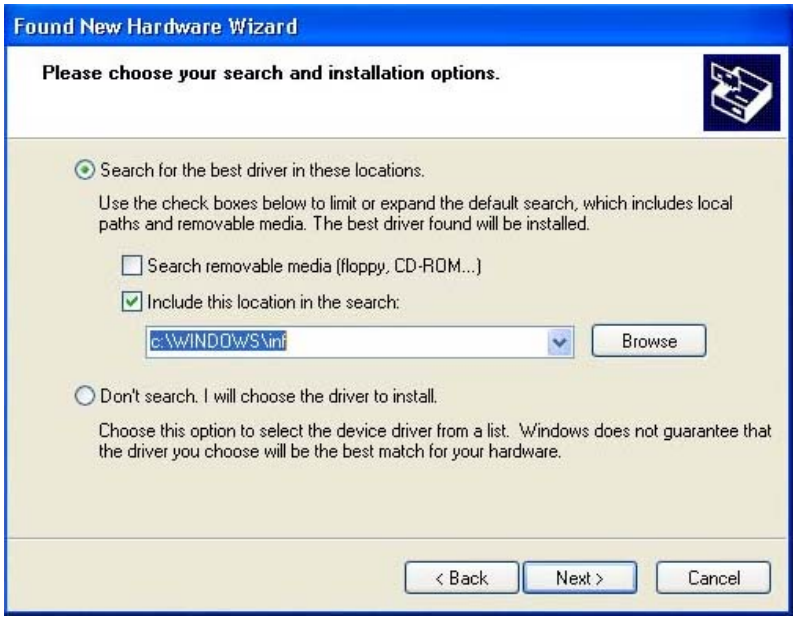
**NOTE:** *The IEEE802.11b WLAN driver and utility are included in the accompanying installation CD. Please follow the installation procedures in Section 3.1. (Your USB Card will not work properly if the driver and utilities are not installed correctly.)*

1. **After software installation, connect the USB Card** to your PC/notebook with the USB cable.



2. When the USB card is detected, “Found New Hardware Wizard” window pops up. Select “Install the software automatically”, click “Next” and go on to step 6.
   To save the searching time, you may select “Install from a list or specific location”, click “Next” and go on to step 5 to assign a designated location for searching.

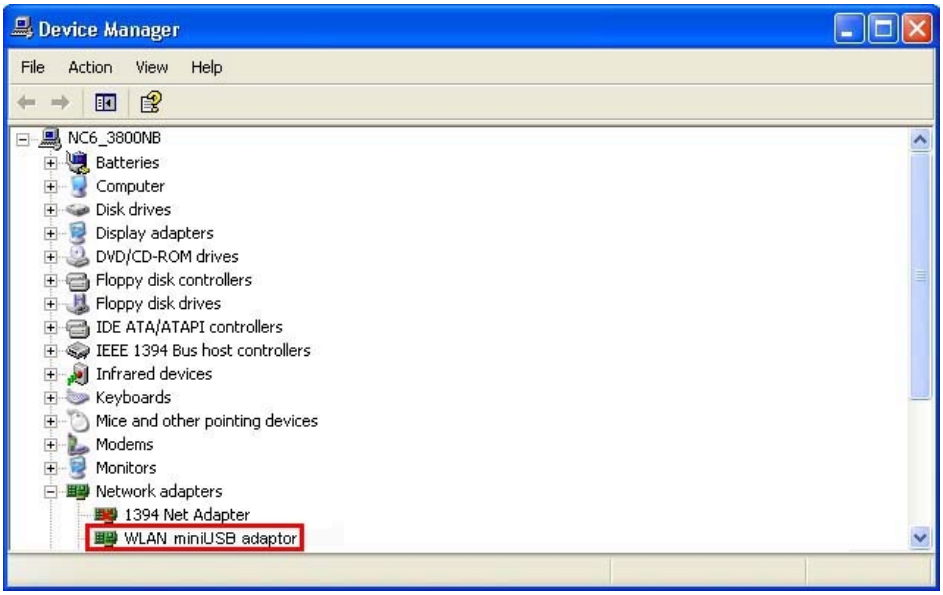
3. Enter the designated location for driver searching. Click “Next”.




4. **Click “Finish”.**


5. A dialog box pops up informing you that the USB card is ready to be used.

6. Operation System will detect new device and prompt the driver automatically. You may check it through Start>Settings>Control Panel > System > Hardware >Device Manager.




**Note:** To start the utility, please refer to the chapter 3.3 “IEEE802.11b USB WLAN Utility”.

## 3.3 IEEE802.11b USB WLAN Utility

IEEE802.11b USB WLAN Adapter has its own management software, named IEEE802.11b USB WLAN Utility, and users can control all functions provided with it. The Utility icon  appears in the Windows System Tray after clicking the IEEE802.11b USB WLAN Utility shortcut on your desktop. The Utility includes six tabs: LAN Status, Setting, Site Survey, Link Information, Diagnostic and About.

The definition of the color of the Utility icon is as follows:

 Connected (Green)

 Low quality (Yellow)

 Disconnected (Red)

In Ad Hoc mode, in one workgroup, the Channel and SSID of each station must be the same—therefore they can communicate with each other within the local LAN properly. Moreover, all connected computers should have the same net ID and subnet ID.

 To open IEEE802.11b Utility, please double click the status icon in the Windows System Tray.

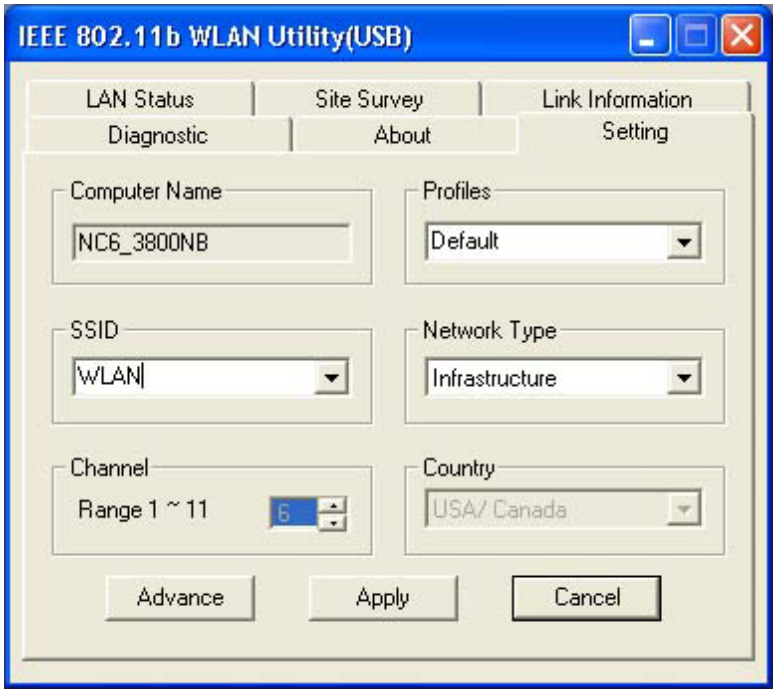
 To open IEEE802.11b Utility under Windows XP, please refer to chapter 2 “Quick Start to Wireless Networking”, step 9~step 15.

## 3.4 Basic Setting for Infrastructure Mode

To connect with an Access Point, please follow the process below:

1. Select the “Setting” tab
2. Select “Infrastructure” for Network Type
3. Select or enter the correct SSID
4. Press the “Apply” button.

- **SSID** is the group name that will be shared by every member of your wireless network .You will only be able to connect with an Access Point (AP), which has the same SSID. Note that the SSID will be case sensitivity.
- **Channel** is not active in Infrastructure Mode.



## 3.5 Basic Setting for 802.11Ad Hoc Mode/Ad Hoc Mode

If you have more computers and only want to place them in a local area network, or you want to communicate directly without using an Access Point or any connection to a wired network, then you can select the “802.11 Ad Hoc” mode or “Ad Hoc” mode on your WLAN Utility.

“802.11 Ad Hoc” is the official standard set by IEEE Organization whereas “Ad Hoc” is a pre-standard. Therefore we recommend you to select the “802.11 Ad Hoc” mode.

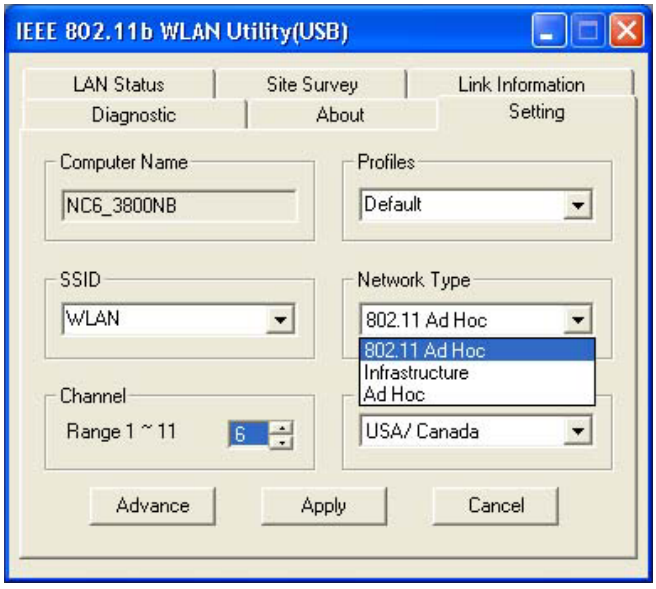
Please note that “802.11 Ad Hoc” mode and “Ad Hoc” mode are not compatible. If you select the “802.11 Ad Hoc” mode, then all computers of your workgroup should be set as the “802.11 Ad Hoc”—vice versa with the “Ad Hoc” mode.

### A. 802.11 Ad Hoc

Please follow the procedures below to set the “802.11 Ad Hoc”:

1. Select “Setting” tab.
2. Select “802.11 Ad Hoc” for Network Type.
3. Type in the SSID, which you want to use in your 802.11 Wireless LAN.
4. Press the “Apply” button.

- Every member of your peer-to-peer network must set to the same SSID, which is case sensitive.



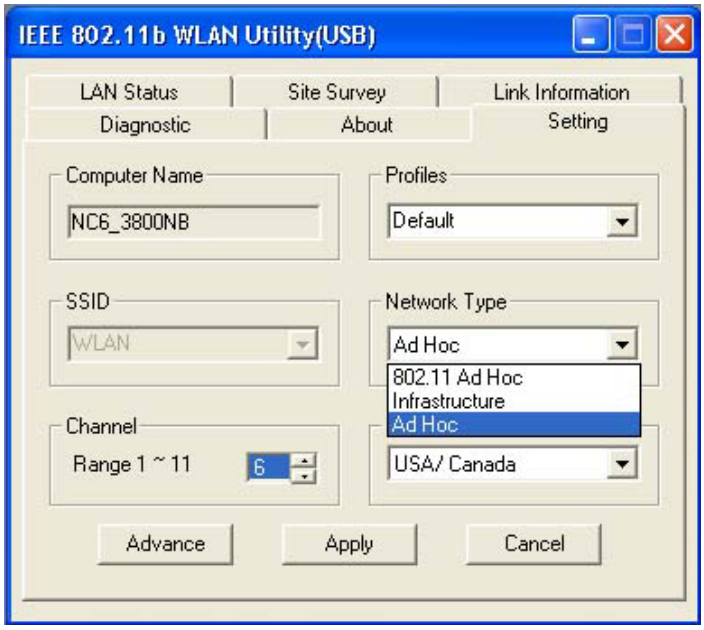
*You must select a SSID if you use the 802.11 Ad hoc.*

If you have trouble connecting other brands' IEEE 802.11b devices using the "802.11 Ad Hoc" mode, please try "Ad Hoc" mode. The next section shows you the basic setting of the "Ad Hoc" mode.

## B. Ad Hoc Mode

Please follow the procedures below to set the "Ad Hoc" Mode:

1. Select the "Setting" tab.
2. Select "Ad Hoc" for Network Type.
3. Select the correct channel. (The channel of all computers in one workgroup must be the same.)
4. Press the "Apply" button.




**Channel** shows radio channel numbers used for networking. Channel number must be the same between stations so computers can communicate in the same local LAN. It can be changed only under the Ad Hoc Mode. Please refer to the following table.

| Country | Channel Range |
|---|---|
| USA/Canada | 11 (1~11) |
| Most of Europe/Australia | 13 (1~13) |
| France | 4 (10~13) |
| Japan | 13 (1~13) or 14th |

## 3.6 Advanced Settings

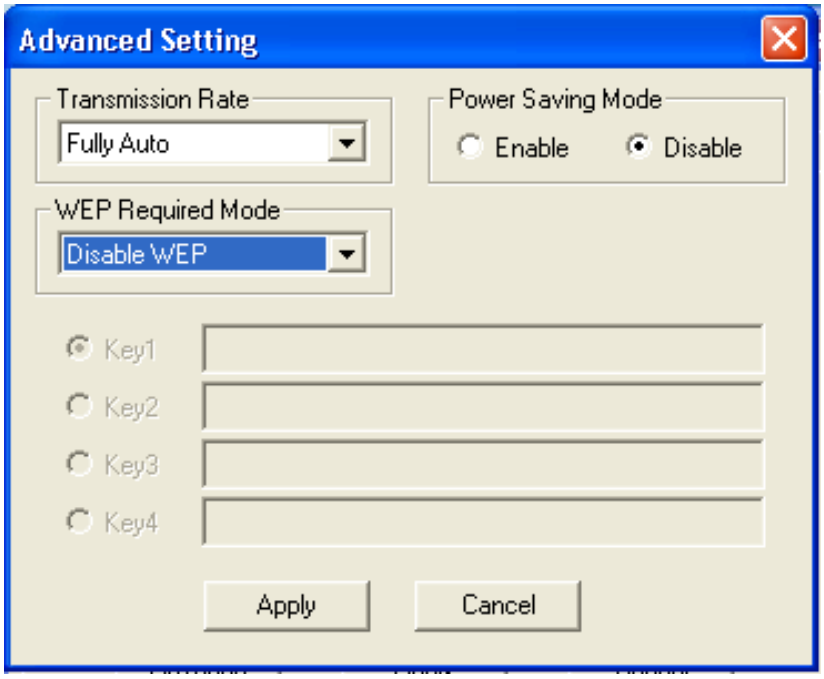
Click the “Advance” button in the Setting page and then the following advanced settings for your IEEE802.11b Wireless LAN USB Card.

Regarding the transmission rate, there are four options:

A. Fully Auto (Default)
B. Fixed 11Mbps
C. Fixed 5.5Mbps
D. Auto 1 or 2 Mbps

You may select and change transmission rate by clicking the pull-down button.

If you enable the “Power Saving” mode, the USB Card can work with low power consumption but the throughput may slow down.



## 3.7 Encryption Function

You may enhance the security of your network by enabling the “Encryption” function. The WEP Required Mode enables you to define the encryption keys that your IEEE802.11b Wireless LAN USB Card should use.

### Caution:

If you wish to enable the “Encryption” function, you must enable this function for all computers of your network, and the WEP key needs to be the same for all IEEE802.11b stations.

Follow the steps below to set your WEP Required Mode:

(1) Select one mode from the drop down menu of WEP required Mode and set the WEP key. Four modes are available:

A. Manual 64 bits (ASCII)

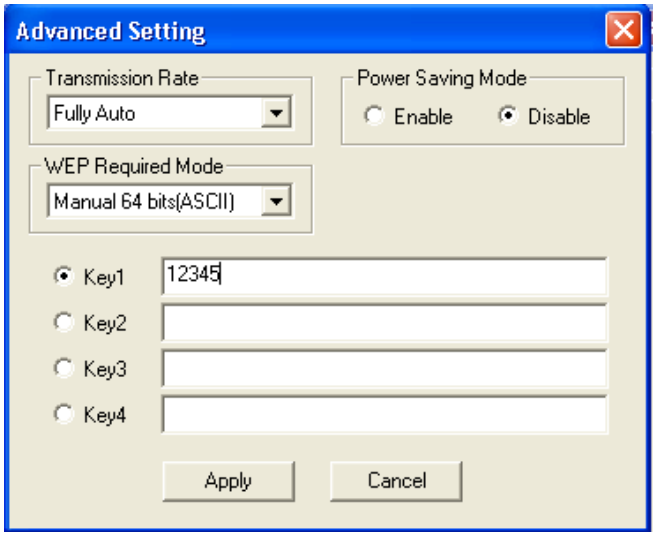
B. Manual 128 bits (ASCII)

C. Manual 64 bits

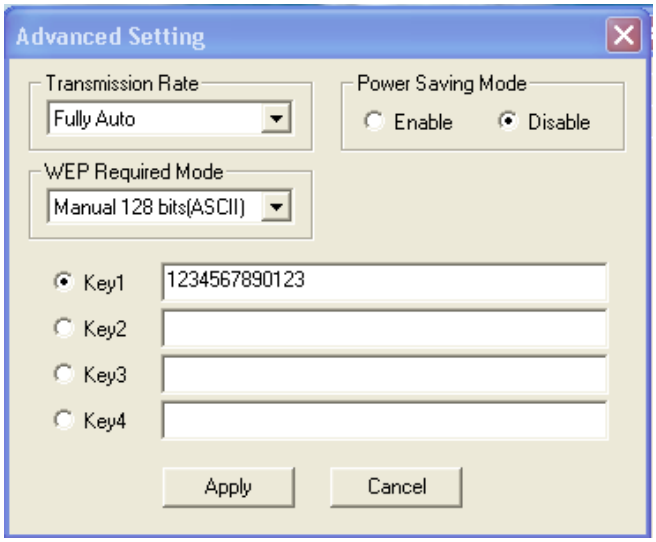
D. Manual 128 bits

(2) Press “Apply” button when finish the WEP setting.

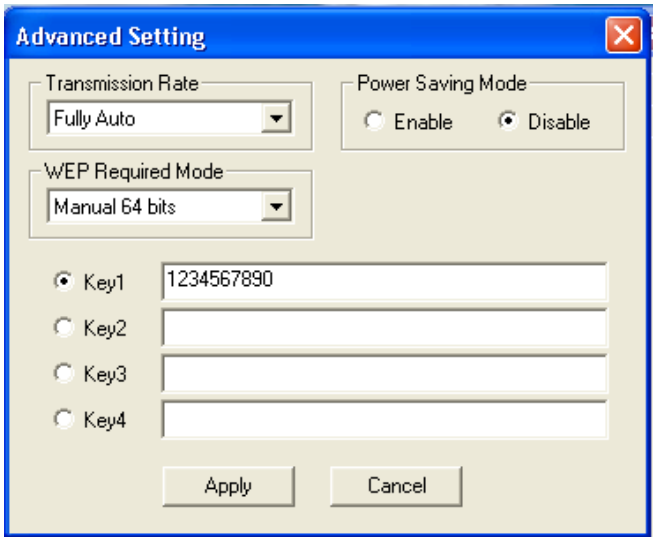
a. Select “Manual 64 bits (ASCII)” and enter a 5-digit WEP Key.



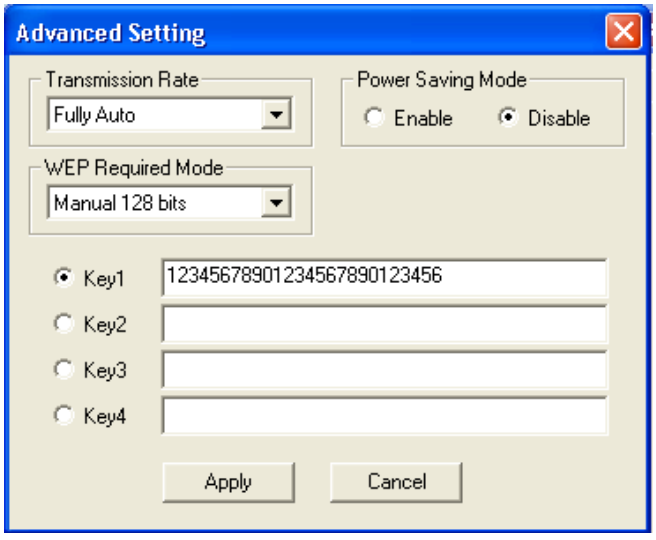
b. Select “Manual 128 bits (ASCII)” and enter a 13-digit WEP Key.




c. Select “Manual 64 bits” and enter a 10-digit WEP Key.




d. Select “Manual 128 bits” and enter a 26-digit WEP Key.



## 3.8 Remove your USB Card

If you do not need the wireless connectivity of your IEEE802.11b USB WLAN Adapter, you can unplug and remove your USB Card directly.

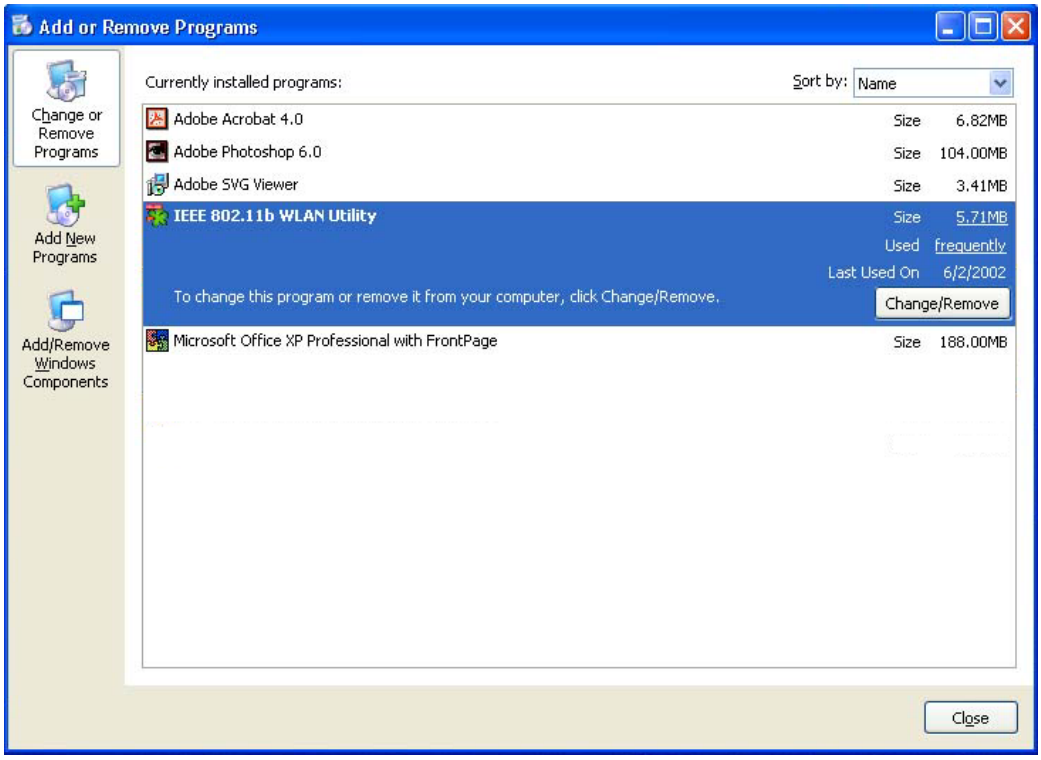
**Note!**
When removing the IEEE802.11b WLAN USB Card, you will lose your connection to the network. Make sure you have closed all files and network applications (such as e-mail) prior to removing the USB Card.

## 3.9 Uninstall the IEEE802.11b USB WLAN Utility / Driver

If you do not need the wireless connectivity of your IEEE802.11b USB WLAN Adapter…

1. **Disconnect and remove the IEEE802.11b USB WLAN Adapter**.

2. **Click Start > Settings > Control Panel > Add or Remove Programs > IEEE802.11bWLAN Utility > Change/Remove**



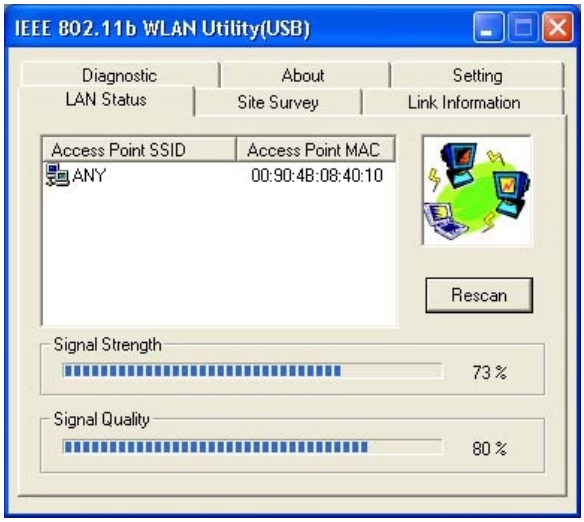

3. **Click "Yes".** The dialog box pops up and ask you whether you are sure to uninstall the IEEE802.11b USB WLAN Utility and all of its components. Click " Yes " to run the un-installation or click " No " to exit.


4. **Click "OK".** Now the un-installation is completed.

# 4. Using the Utility

## 4.1 LAN Status Tab

If you want to know the connecting status in Infrastructure Mode or 802.11 Ad Hoc Mode, choose LAN Status tab in IEEE802.11b WLAN Utility window.




**1. Infrastructure Mode:**

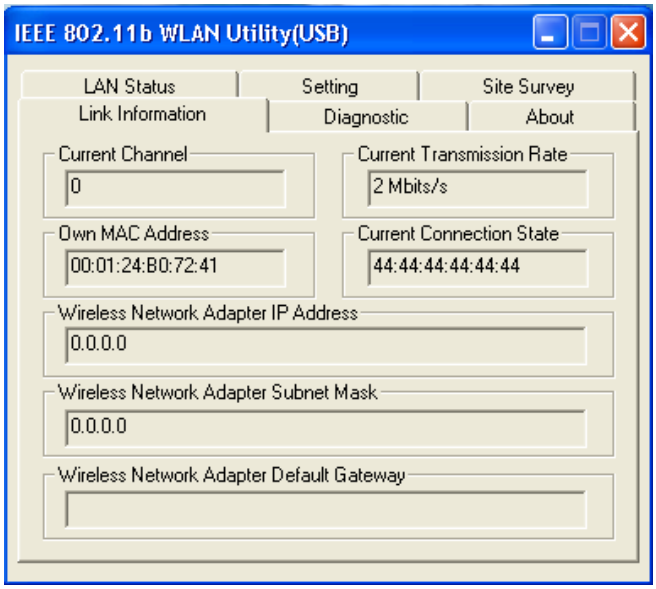
- The SSID and MAC of the access Point, which your computer connects to, will appear in the screen if you choose the Infrastructure Mode.
- Double click the Access Point SSID (under the Infrastructure Mode) to access to the Microsoft Network Neighborhood folder to find other on-line computers.
- You can see the status of the Link Quality and Signal Strength under the LAN status page.

**2. 802.11 Ad Hoc Mode / Ad Hoc Mode:**

- The station Name and MAC address of your station will appear if you choose the 802.11 Ad Hoc Mode (or Ad Hoc Mode).
- Double click the right name to display the content of your computer or double click Network Neighbors to access to the Microsoft Network Neighborhood folder to find other on-line computers.
- Click “Rescan” to find current available computers in the network.

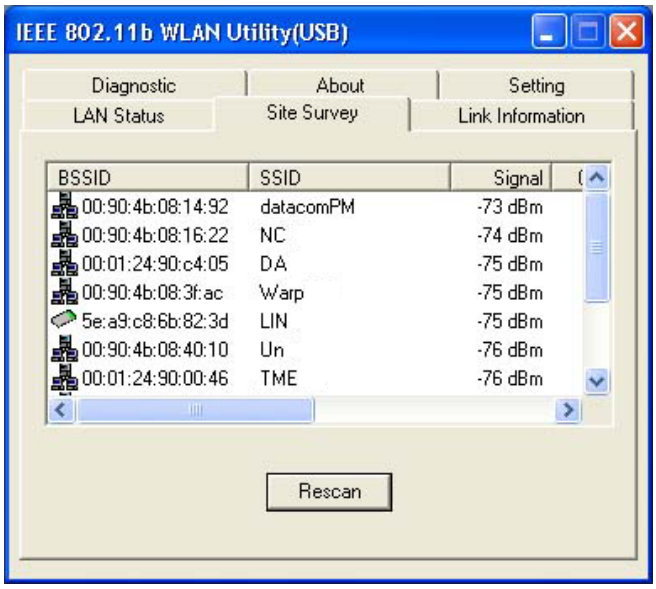
## 4.2 Link Information Tab

The Link Information tab shows information of Current Channel, Current Transmission Rate, Own MAC Address, Current Connection State, Wireless Network Adapter IP Address, Wireless Network Adapter Subnet Mask, and Wireless Network Adapter Default Gateway.



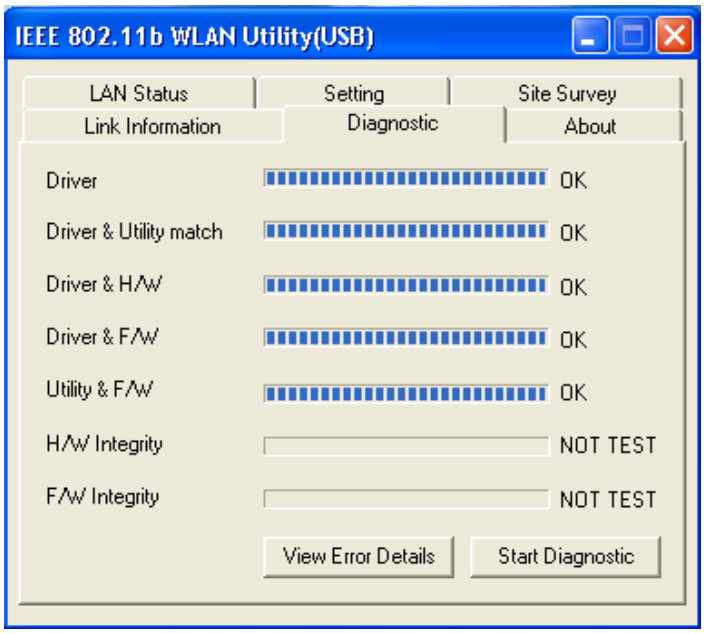

## 4.3 Site Survey

This tab gives you all the information of each Access Point within the communication range, so that you can select the Access Point with the strongest signal for better performance.



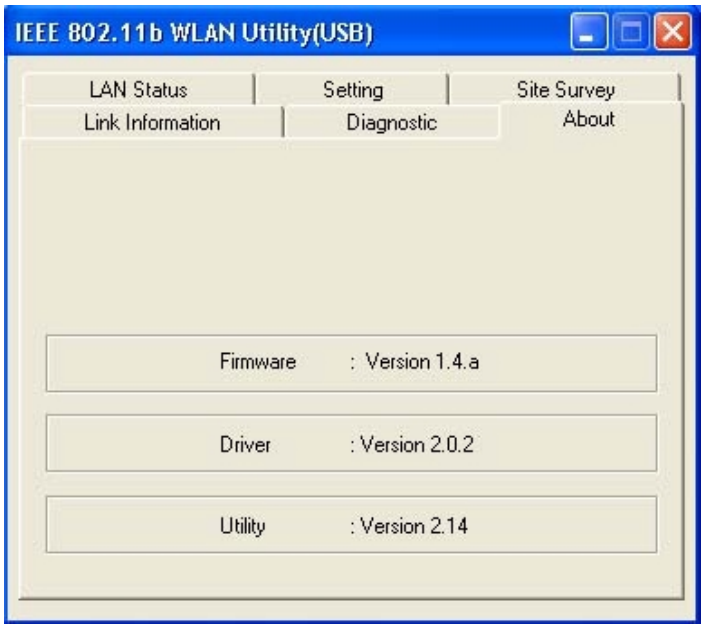
## 4.4 Diagnostic Tab

Click “Start Diagnostic” button to check errors in hardware, firmware, and software of your USB Card. In case of any errors occur, please click “View Error details” button and print it out to present to your dealer or distributor.




## 4.5 About

This tab provides you the version information of Firmware, Driver and Utility.



# 5. Network Application

This section consists of the network applications of IEEE802.11b WLAN USB Card, including:

- To Survey the network neighborhood
- To Share Your Folder with Your Network Member(s)
- To Share Your Printer with Your Network Member(s)
- To Access the Shared Folder(s)/File(s) of Your Network Members(s)
- To Use the Shared Printer(s) of Your Network Member(s)

In fact, the network applications of IEEE802.11b WLAN USB Card are the same as they are in a wired network environment. You may refer to the following 3 examples of Surveying the Network Neighborhood, File Sharing and Using the Shared Folder.

## 5.1 Surveying the Network Neighborhood

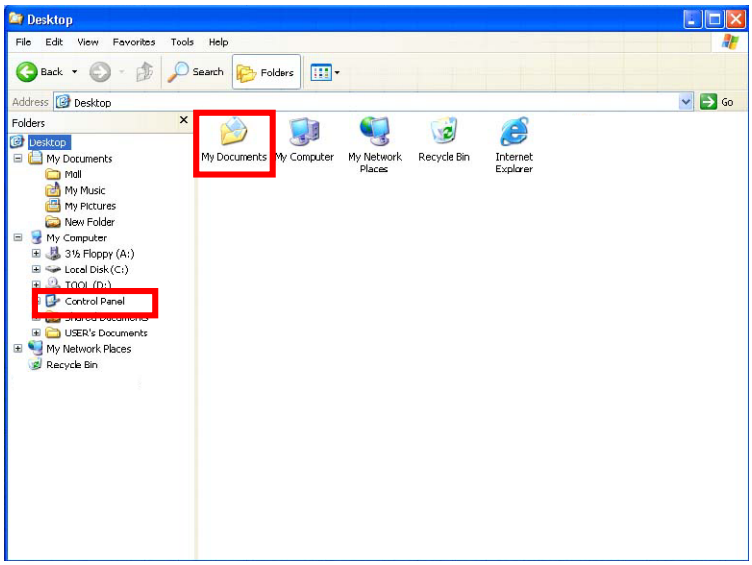
When multiple base stations are up and running in your wireless network, you can use the procedure described below to display the other computers:

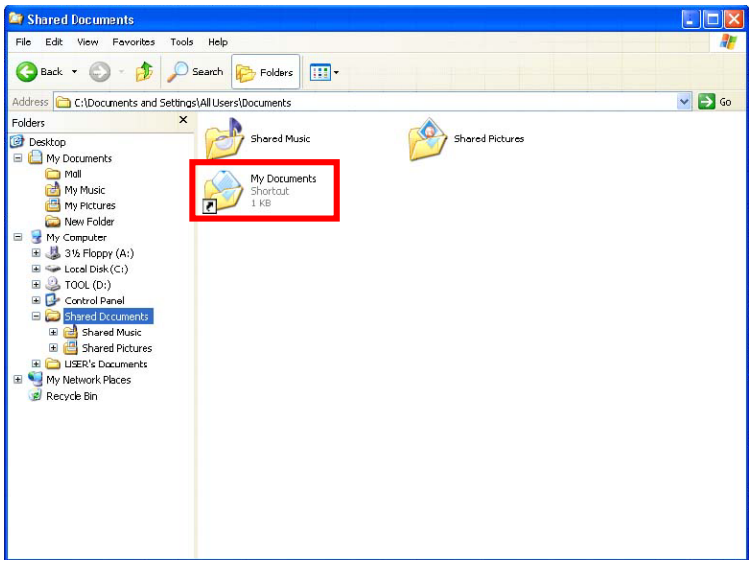
1. **Double-click My Network Places** to display all stations in your Microsoft Windows Network Group.
2. To display other workgroups in the network environment, **double-click Entire Network**.
3. If there is a **second network operating system** running in your network environment (for example a Novell NetWare network), the "Entire Network" window will also display available servers running under the second network operating system. If you click on these servers, you may be asked to **enter your user name and password** that applies to the other network operating system. If you cannot find it, verify whether the other wireless computers are:
   - Powered up and logged on to the network.
   - Configured to operate with identical Microsoft Network settings concerning:
     - Networking Protocol.
     - Wireless Network Name.

To enable the sharing of **Internet access**, you should set your IEEE802.11b WLAN USB mode as **"Infrastructure"** and connect to the access point.

## 5.2 File Sharing

IEEE802.11b WLAN USB Card allows the sharing of files between computers that are logged onto the same wireless network. If you want to share your folder “My Documents“ with other computers of the wireless network, please **highlight the folder “My Documents” and drag it to Shared Documents folder**.




Sharing files in the IEEE802.11b wireless network will be like sharing files on a wired LAN.

## 5.3 Using the Shared Folder

If you would like to access a shared folder stored in other stations of same network, please follow the process below:

1. Double-click the “My Network Places” icon, and then double-click the computer where the shared folder is located.
2. Double-click the folder you want to connect to.
3. Now you may open the needed file(s).

**Note:** If a password is required, the Windows will prompt a password column to you. Then you need to enter the password that had been assigned to this shared folder.