



Network Interface Card User Guide

TLG08UB05

CEC Huada Electronic Design Co., Ltd



Statement

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1 Introduction

1.1 Brief Introduction

TLG08UB05 wireless adapters is developed based on the CMOS chip HED05W01SU with the independence sciential property rights of HED .Using the wireless adapters, mobile office can be achieved for users without networks interrupted, and the networks can also be configured or extended without setup or move the cables by administrators.This kind of wireless adapters roundly support GB15926.11 series standard,the hardware implements WAPI encryption; Completely implement IEEE 802.11 b/g/i standard..

1.2 Product Features

- **Configure networks conveniently and speedily**

The configuration tool is convenient and easy to use, which is helpful to connect to a wireless network rapidly。

- **Improve the security of networks efficiently**

The adapter is compatible with IEEE 802.11b/g/i standards and China WAPI standard, and supports muti-security capability, include WAPI、WEP (both 64bit and 128bit)、WPA and WPA2

- **Excellent performance**

The adapter has adopted high performance processor to fulfill the requirements of throughput and capability of load.

- **Expedient Chinese-wide configuration as wizard**

With the set, the adapter provide graphics configuration software tool in Chinese to assist users to manage and configure equipment apace,and wireless network can be set up breezily without professional knowledge。

1.3 Indicator light Indication

There is a link light on the TLG08UB05 wireless adapter, It's used to indicate the state of data transmission, The detail meanings of the status are as shown in the following table.

Table1-1 USB wireless adapter indicator light meanings

Indicator light	status	meanings
Link	Flashing	The adapter is scanning and has not been connected with a network or transmitting the data
	On	The adapter is locked on the channel and the connection has been established
	Off	The adapter is idle and no data is transmitting.

2 Installation

2.2 System Requirements

The computer which is to be used with the wireless adapters at least need the system requirements as follows:

- Windows XP operating system;
- At least a usb interface;
- With CD-ROM drive;
- With a PentiumIII 850MHz or higher processor

2.3 Install the wireless adapter

Please insert the wireless adapter into the USB interface directly.

Note:

The wireless adapters support hot-plugging, but don't pull out the wireless adapter in order to avoid data missing when data is transmitting.

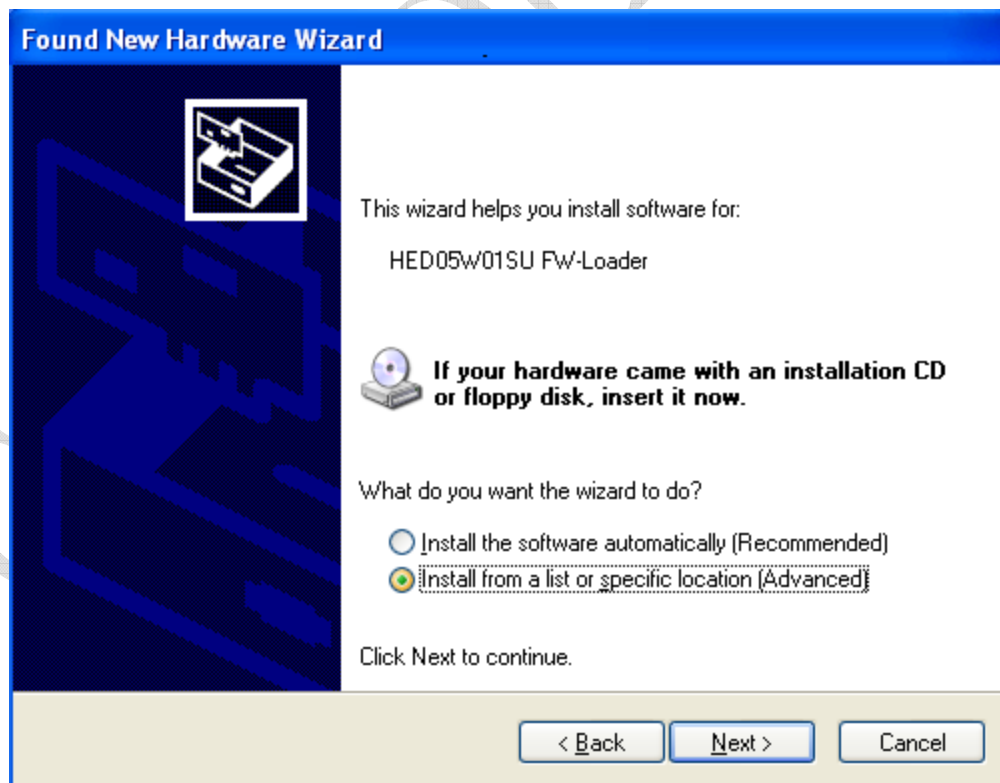
2.4 Driver Installation and Configuration software Installation

Note:

Software installation GUI may be different on the computer with different settings, this document introduces the installation as being in Windows XP.

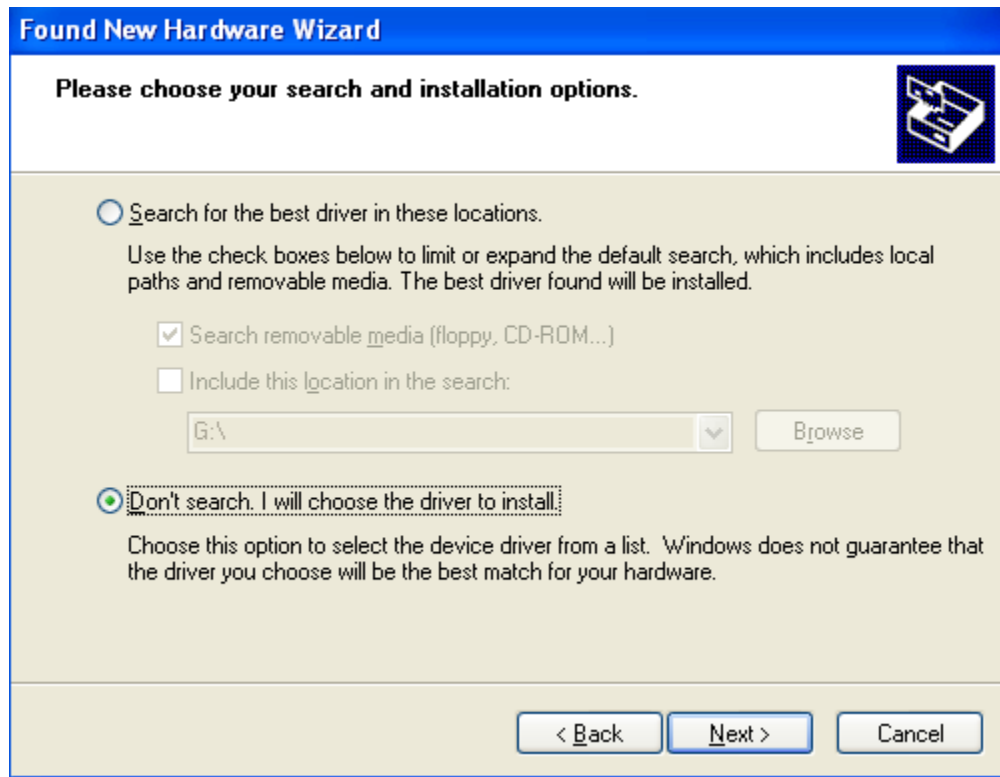
The introduction of driver installation and configuration software installation is as follows, the software can check network information, search for wireless networks, and save the configuration. Installation is as follows:

- (1) First, install driver, please insert HED USB wireless adapter.
- (2) After the operation system automatically checks the wireless adapter, a pop-up GUI as follows: Found New Hardware Wizard. Please select the "Install from a list or specific location (Advanced)", and click <next> button.



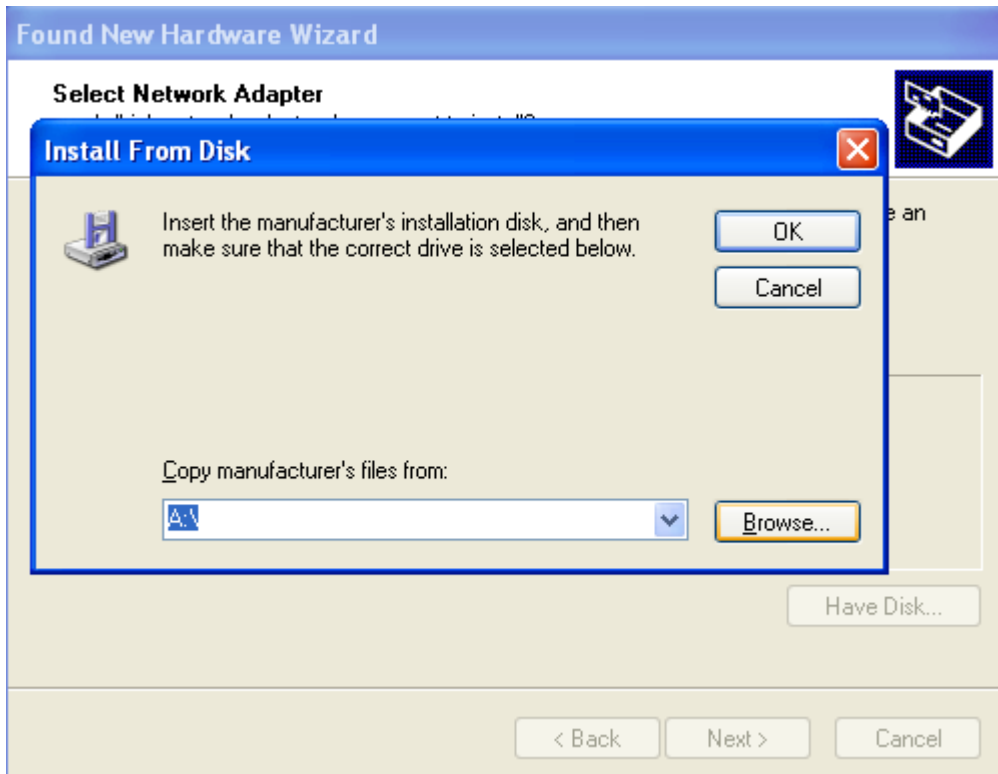
Picture 2-1 Found New Hardware Wizard 1

(3) Pop-up GUI as follows, please select "Don't search, I will choose the driver to install", and click <next> button.



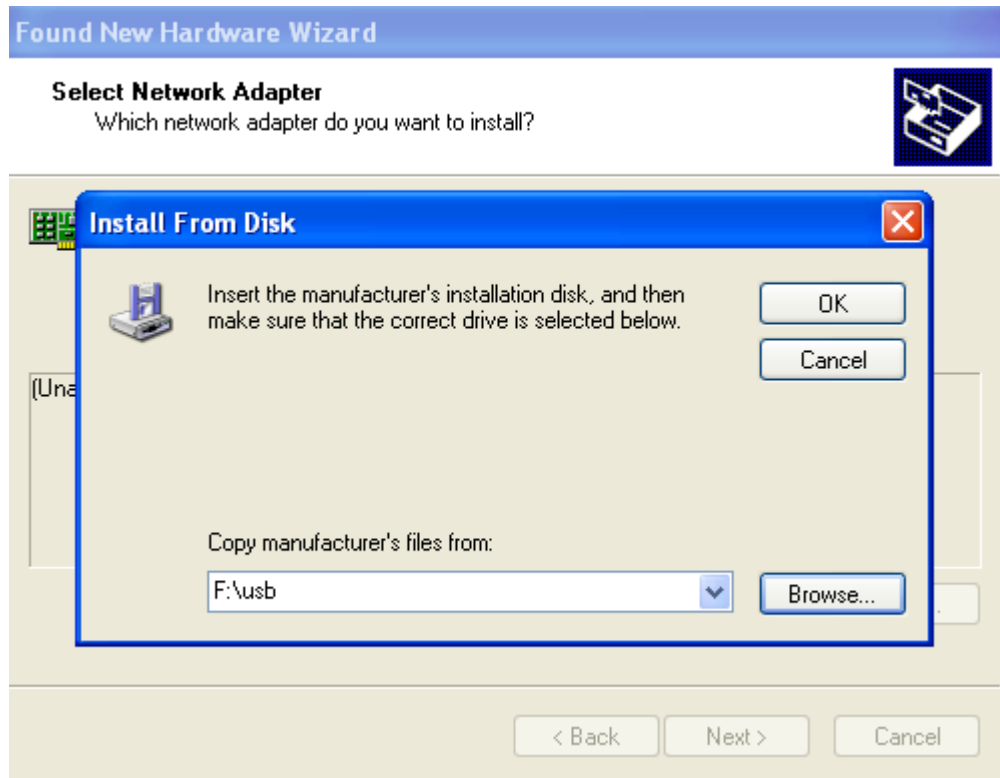
Picture 2-2 Found New Hardware Wizard 2

(4) Pop-up GUI as follows, please click "Have Disk..." button, and pop-up Install From Disk dialog box.



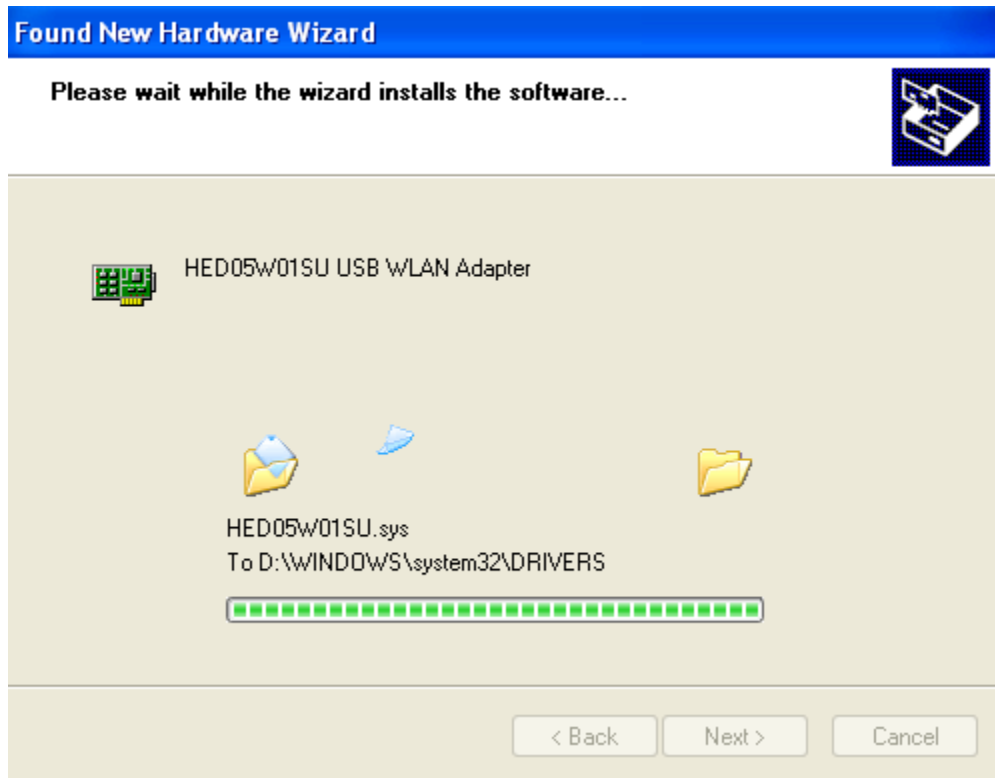
Picture 2-3 Found New Hardware Wizard 3

(5) Select path from CD-ROM in pop-up dialog box as follows, then click OK.



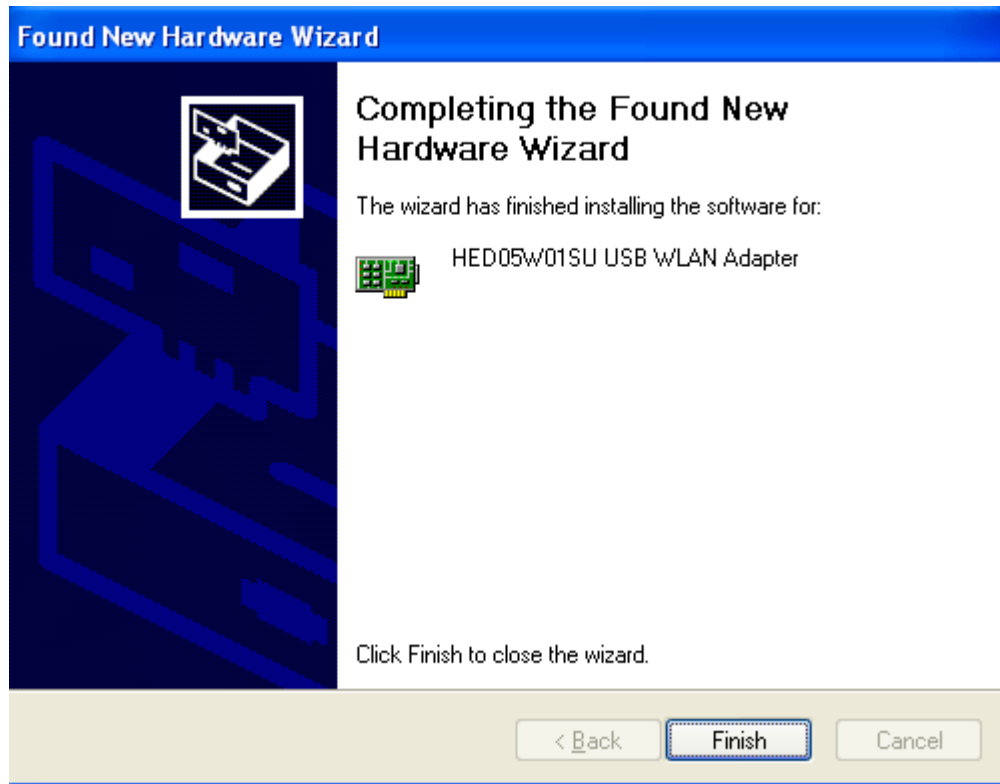
Picture 2-4 Found New Hardware Wizard 4

(6) Click <Next> button in pop-up dialog box, and begin to copy file, wait for the file copying completely as follows.



Picture 2-5 Found New Hardware Wizard 5

(7) Click <Finish> button, and driver installation is finished. .

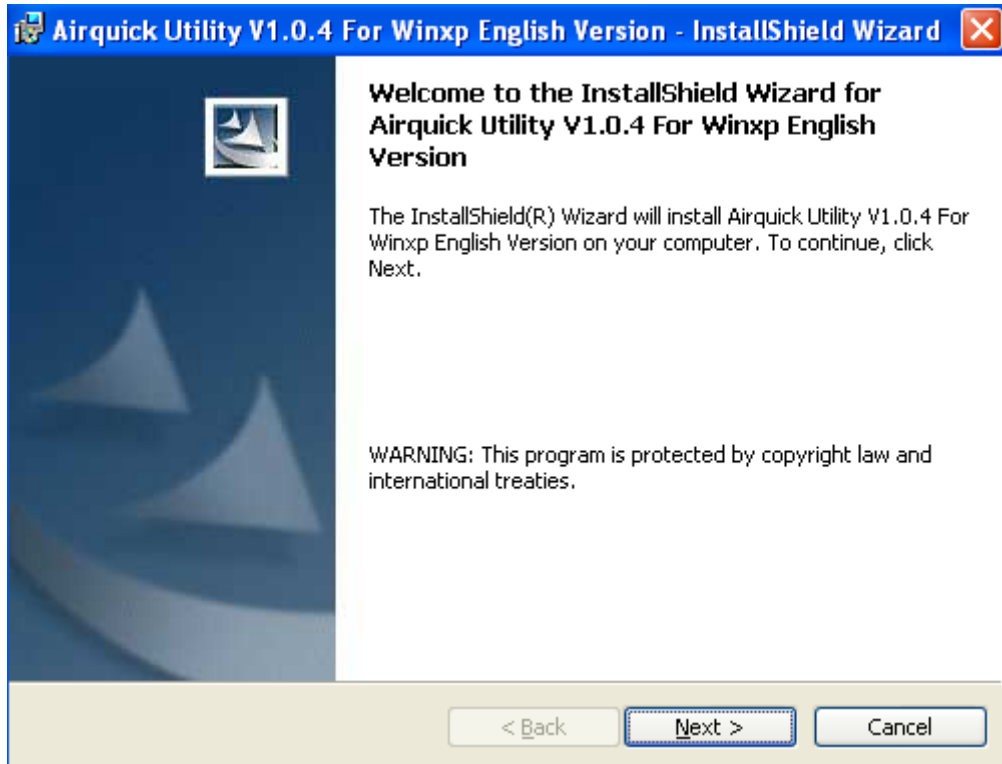


Picture 2-6 The end of Found New Hardware Wizard

Account:

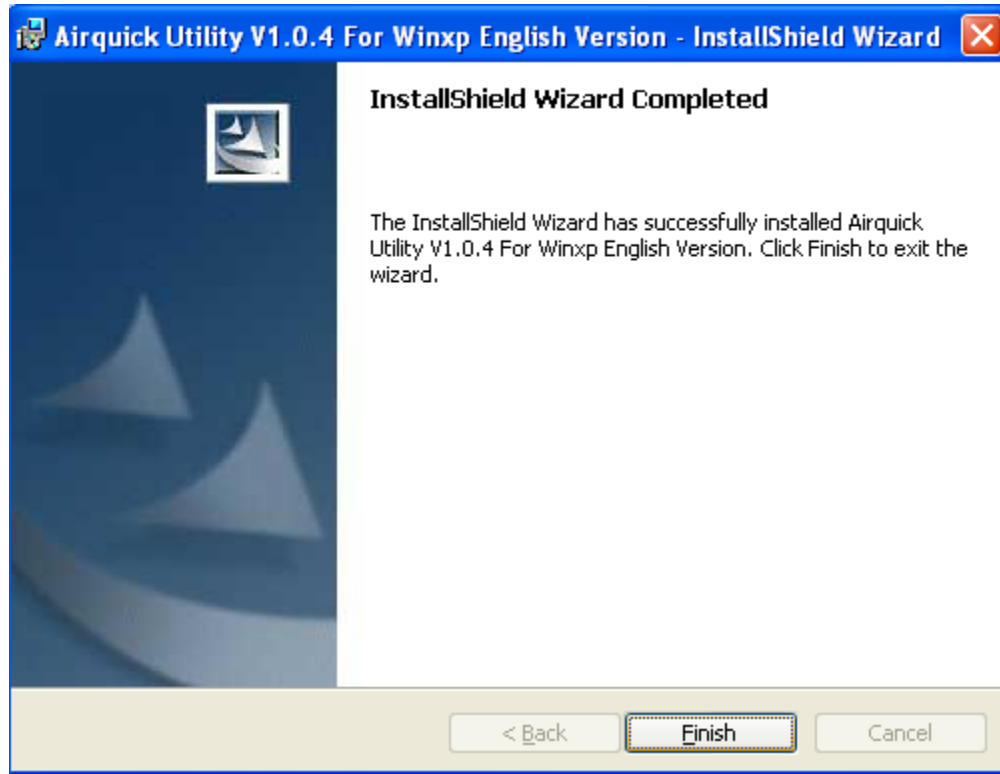
Please click Continue Anyway button when windows system hint “has not passed Windows Logo testing to verify its compatibility with Windows Xp”.

(8) Begin to install configuration software, search the file that named “AirQuick Utility V1.0.0.msi”, and double click the file to begin to install the file.



Picture2-7 Configuraion software installation 1

(9) Click <next> button,pop-up the next page,select installation path,and then click next until the page is as follows, click Finish to finish installation. From now you can use wireless adapter.



Picture 2-8 Configuraion software installation 2

3 Configure wireless adapter

Users can configure wireless adapter in computer with HED wireless network configuration software after installation finished. Users also can use wireless network configuration tool in Windows XP operation system. Advise using incidental HED wireless network configuration software.

3.1 Choose Wireless Network Connction

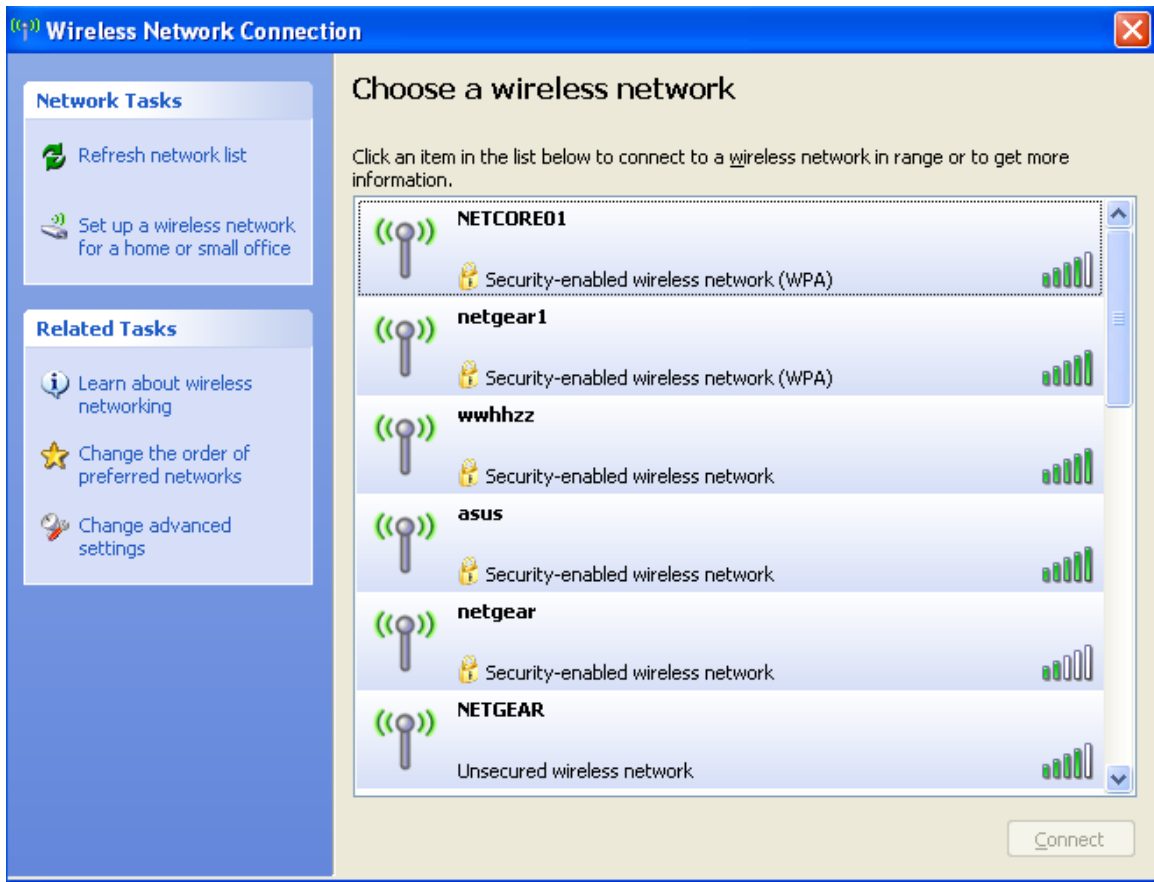
Account:

Please ignore the chapter if the current operating system is not Windows XP.

Move cursor to the icon of Wireless Network Configuration in the right-down corner of the screen, then click the right key of mouse, will pop-up menu, choose the config tool that user need.

Switch to Wireless Zero Configuration tool Service in Windows XP

If user choose Windows zero configuration, pop-up GUI picture 3-1 as follows.



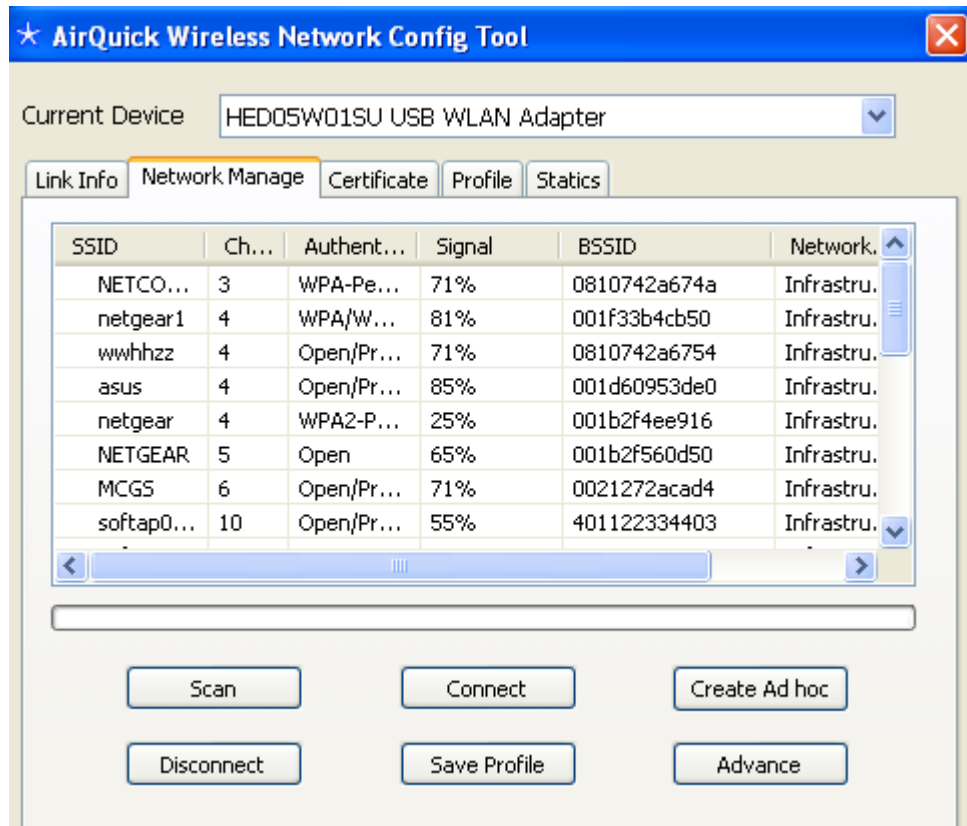
Picture3-1 Windows XP Configuration Tool

3.2 HED Wireless Network Configuration Tool

Please insure that the configuration tool on use is HED Wireless Network Configuration Tool before the HED Wireless Config Tool is used.

3.2.1 Wireless Network

Run HED Wireless Network Config Tool ,then pop-up GUI as Picture 3-2



Picture3-2 Wireless Network Configuration Tool

1. The interface introduction , every wireless network information field means as follows:

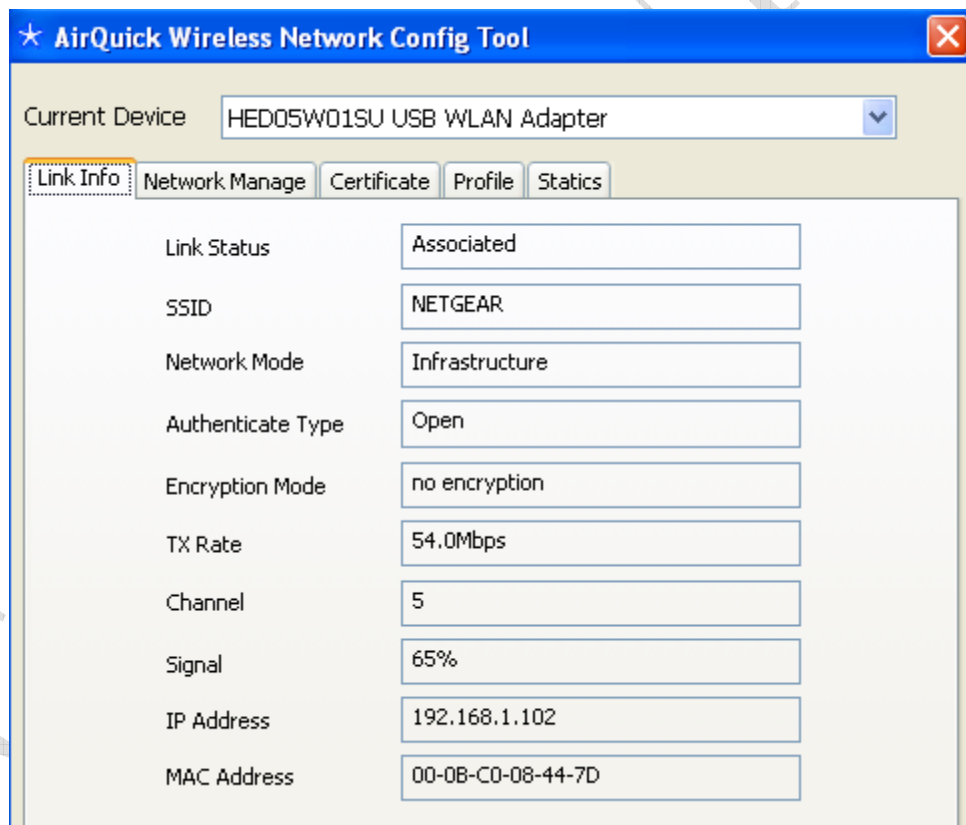
Table3-1 Wireless Network Information Field

Field	Definition
Network Name	Wireless network ID, SSID for short.
Channel	AP work in the Channel.
Signal Intensity	Signal Intensity when AP work.
Authenticate Type	AP work on six kind encryption protocol ,include:WEP,AES,TKIP,TKIP+AES,WAPI ,OPEN
Network MAC Address	Network Physical Address
Network Mode	Include Adhoc and Infrastructure.
<Scan>	Click <Scan>,STA will search for AP around it again,and then display all scanned result .

<Join>	Select a AP in list ,then click <Join>, can connect successfully with the AP.
<Start >	STA Create Adhoc Network
<Disconnect>	Disconnnet the connected network
<Save Configuration File>	Save current configuration as a file
<Advanced Setting>	Click <Advance> ,Pop-up Advance Setting Page,User can set many network parameter in this page.

3.2.2 Connection Status

Select the AP and then Double click it to connect with AP ,and pop-up the status page.



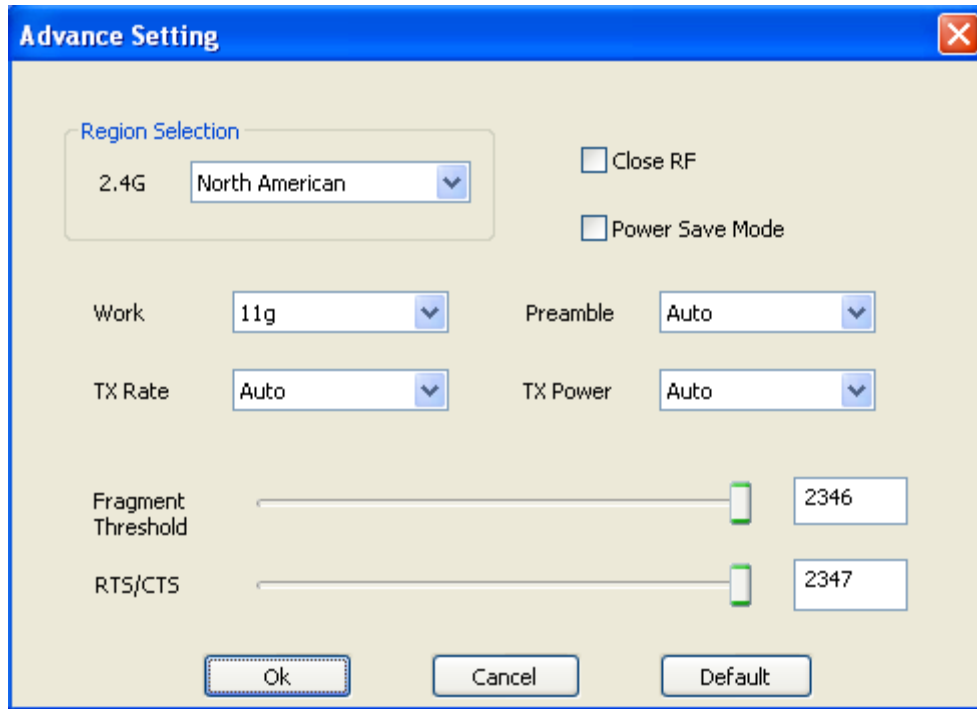
Picture3-3 Connection Status

Table3-2 Connection Status

Field	Meanings
Link Status	Display current link status
Network Name	Display current network name
Authenticate Type	Display current network Authenticate Type
Encryption Mode	Display current network Encryption Mode
TX Rate	Display current network TX and RX max Rate, Unit is Mbps
Channel	Display current linked channel
Signal	Display current linked network signal that through RF receive signal,also can display in dBm fomat.
IP Address	Display current linked network IP Address
MAC Address	Display STA MAC Address

3.2.3 Advance Setting

Click <Advance>, pop-up Advance Setting page as follows:



Picture3-4 Advance Setting

Every field in Advance Setting page means in the Table 3-3 as follows. Advise to apply Windows default.

Table 3-3 Advance Setting

Field	Meanings
Work Mode	Set wireless network communication protocol, include two mode: 802.11b, 802.11g
Region Selection	Select region according to user need
TX Rate	TX Rate for choice: Select "11b" in work mode, this mode has four kinds rate for choice: "1Mbps", "2Mbps", "5.5Mbps", "11Mbps" Select "11g" in work mode, this mode has twelve kinds rate for choice: "1Mbps", "2Mbps", "5.5Mbps", "11Mbps", "6Mbps", "9Mbps", "12Mbps", "18Mbps", "24Mbps", "36Mbps", "48Mbps", "54Mbps",

3.3 Use Wireless Network Configuration Tool of Windows XP

own

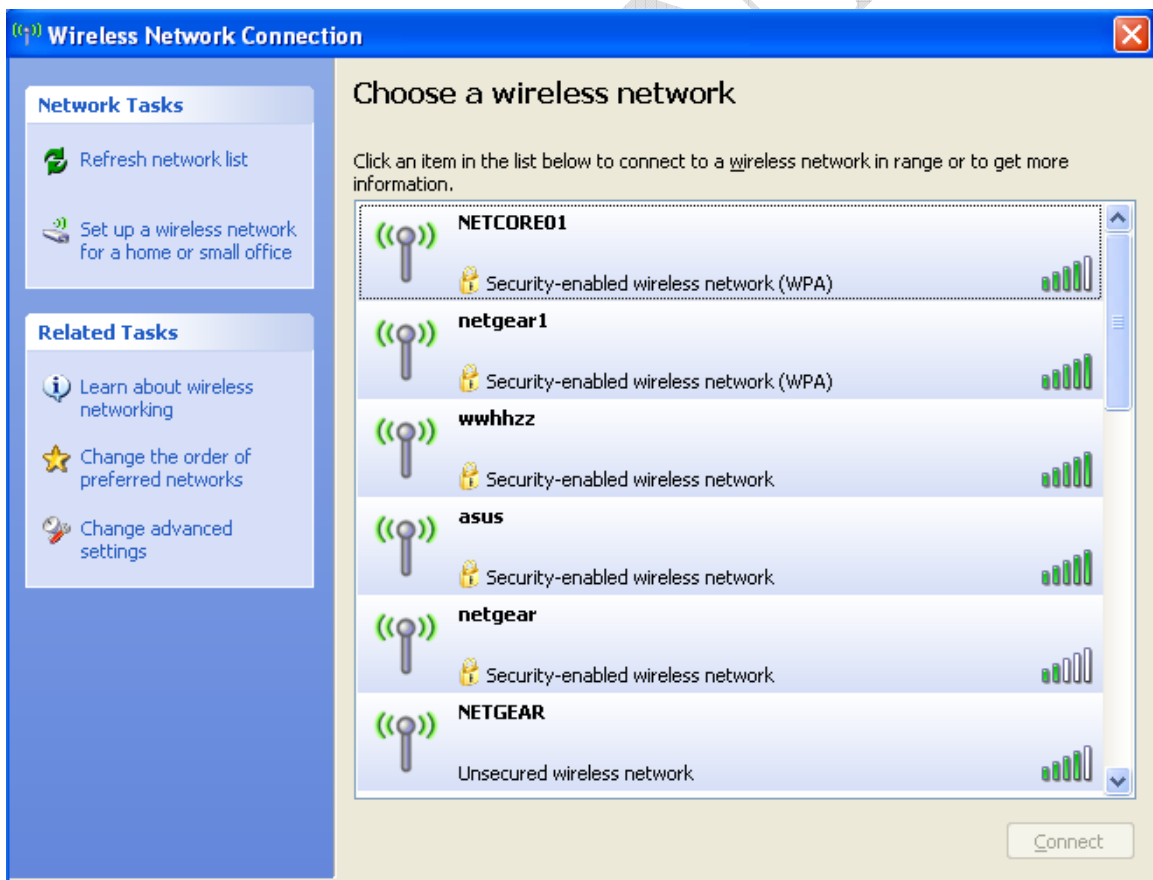
Account: :

Please ignore the chapter if the current operating system is not Windows XP

If users want to use Windows XP Wireless Network Connection , Please choose Windows zero configuration menu and the means has been tell off in Chapter 3.1.

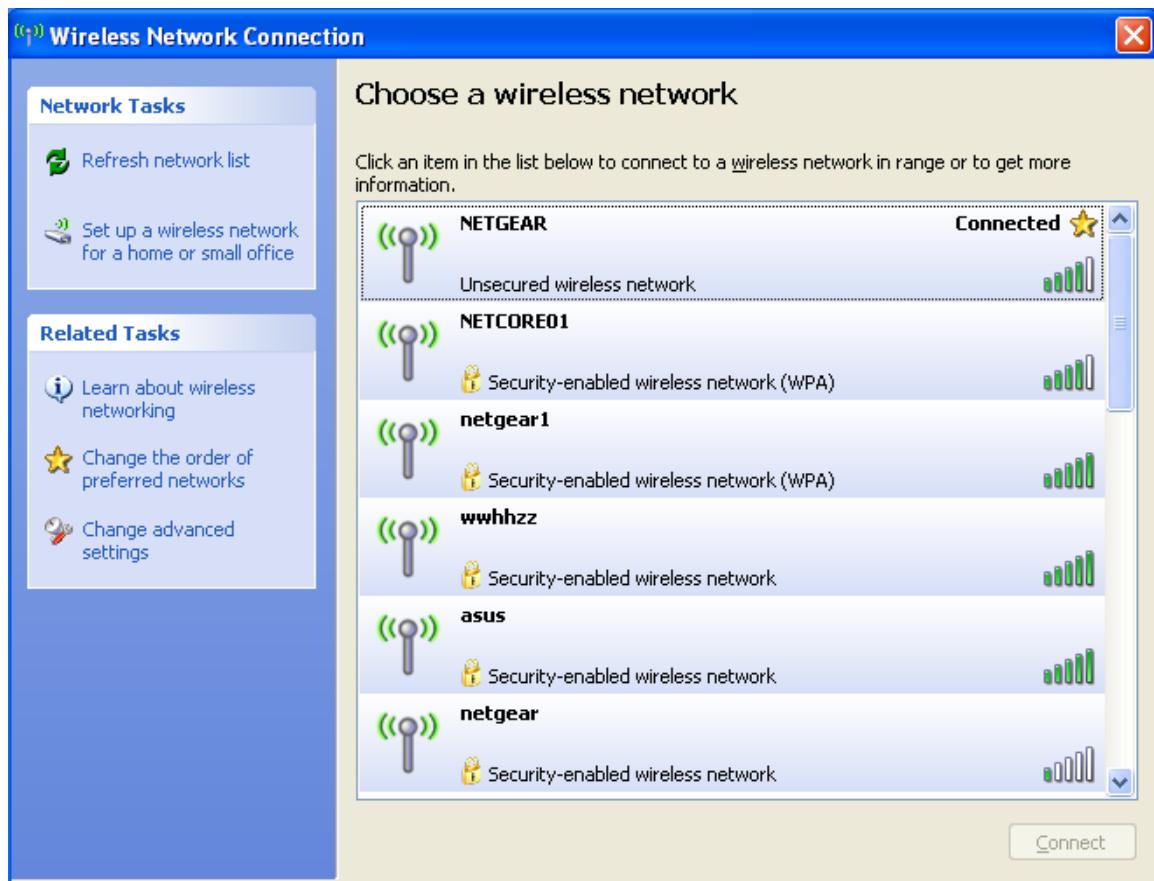
Configure network with Wireless Network Connection Tool of Windows XP

(1) Click wireless network icon in the right Window minimum taskbar, pop-up windows as follows:



Picture 3-15 Wireless Network Menu

(2) Select AP which you want to connect ,and click <Connect>.



Picture3-16 Wireless Network Property Configuration