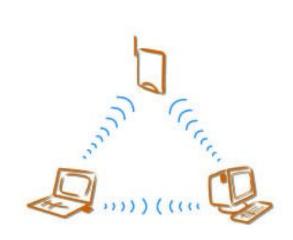


# **Wireless LAN USB Stick**

**AWL-400** 

**User Manual** 

Version 1.1 June 2002





### **Notice I**

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### **Notice II**

## **FCC Warning**

The AWL-400 compiles with Part 15 of the FCC rules. Operation is subject to the following two conditions.

- ( ) This device may not cause harmful interference.
- ( ) This device must accept any interference received, including interference that may cause undesired operation.

#### Note:

The AWL-400 has been tested and found to comply with the limits for a Class B digital device and a low power transmitter, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. 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.



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# **Chapter 1. Introduction**

Thank you for purchasing a BenQ AWL400 Wireless LAN USB Stick. The AWL400 Wireless LAN USB Stick lets you connect to your network and the Internet without needing to be tethered to a fixed location by a physical cable, while still getting the same data transfer rates as with traditional Ethernet. You can use it with any desktop or notebook PC with a USB port. In addition to allowing you to enjoy the wonders of wireless networking, the AWL400 provides two operating modes—ad-hoc mode (peer-to-peer) and infrastructure mode (station-to-AP)—to meet to your varying needs at different purposes.



## **Product Kit**

Before installation, make sure that you have the following items:

- AWL400 Wireless LAN USB Stick
- USB cable
- Software CD containing user manual and utility
- Quick Start Guide
- Warranty card

## 1-2 System Requirements

Before using your AWL 400, please check that you have the following required items:

- PC/Notebook with USB port and CD-ROM drive
- Microsoft Windows 98SE/ME/2000/XP operating system

# 1-3 Mechanical Description

## **Top panel of the Access Point**

The following table provides an overview of each LED activity:



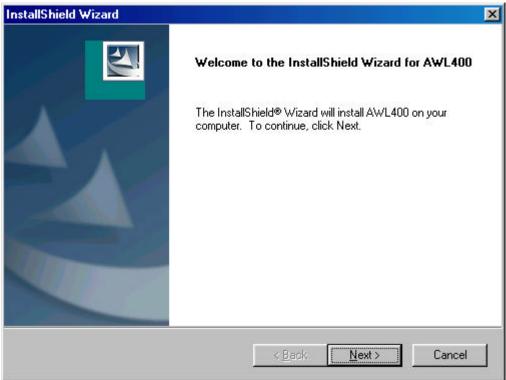
	Activity	Description
PWR	Steady Blue	When connecting to PC



# Chapter 2. Installation

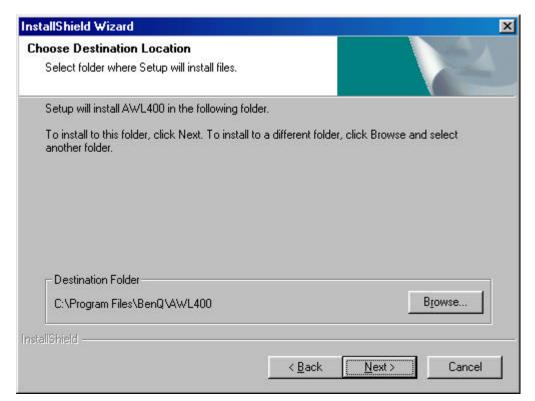
## 2.1 Installation for Win98/WinME/Win2000

Execute Setup.exe in the AWL400 directory in BENQ Wireless LAN CD. For example, if your CD-ROM has a drive D, please execute D:\AWL400\Setup.exe.

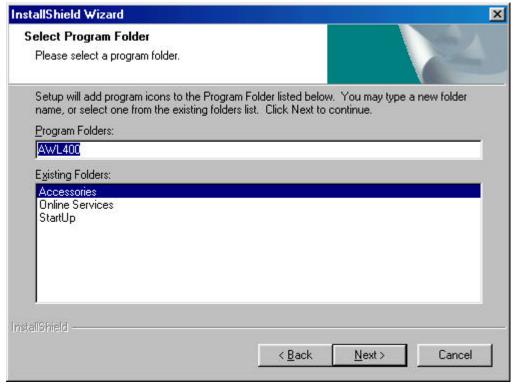


Press Next button



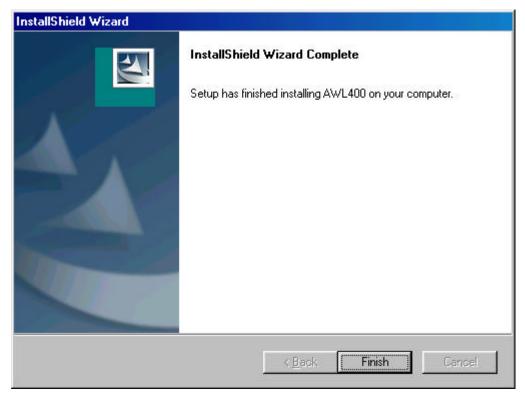


Press Browse, if you want to change destination location of applications, and then press Next button.



The folder name will be AWL400. Press Next button if you don't want to change it.

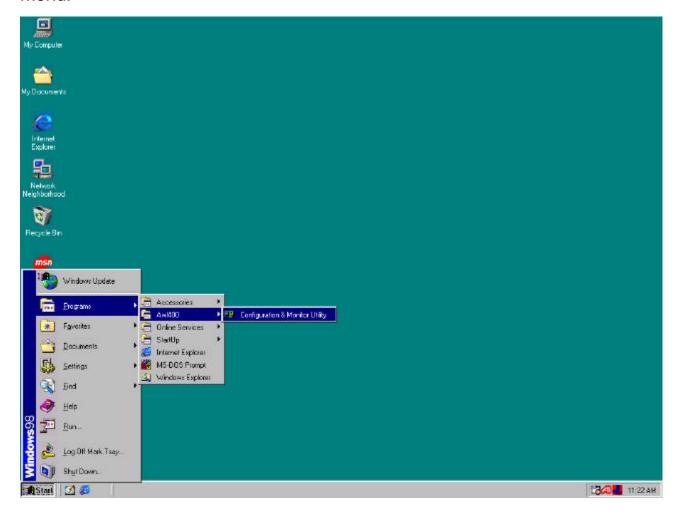




Press Finish and restart your computer.



After complete installation, you will get the following icon in your PC Start Menu.





## 2.2 Installation for WinXP

Insert AWL400 USB Stick into your PC, and then Windows will show the dialog – 'Found New Hardware Wizard'.



Select' Specify the location of the driver and press Next button.



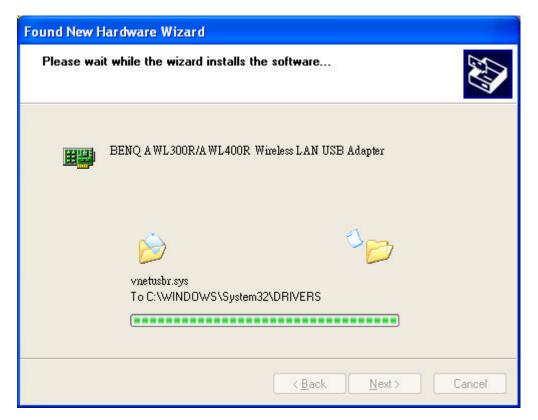


Select 'Specify a location' and browse the BENQ Wireless LAN CD to find AWL400. For example, if your CD-ROM is drive D, the location is D:\AWL400\WinXP.



Press Continue Anyway





Please wait while coping files.

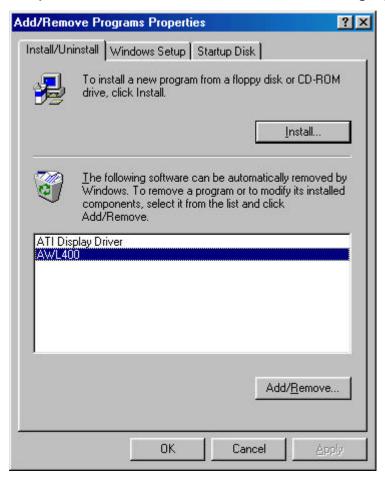


Press Finish.

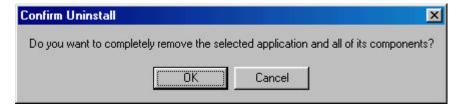


# **Chapter 3. Uninstallation**

To uninstall AWL400, you can remove AWL400 from Add/Remove Programs Properties in Control Panel as the following figure.

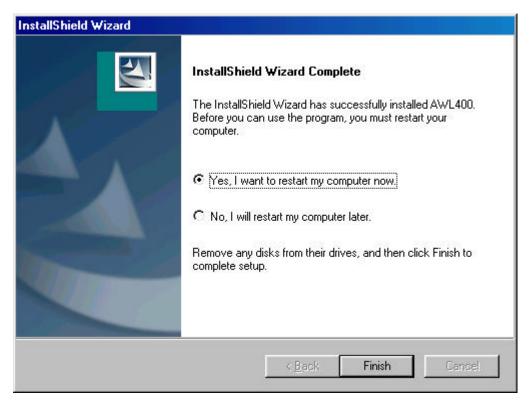


Press Add/Remove



Press OK if you really want to remove AWL400.



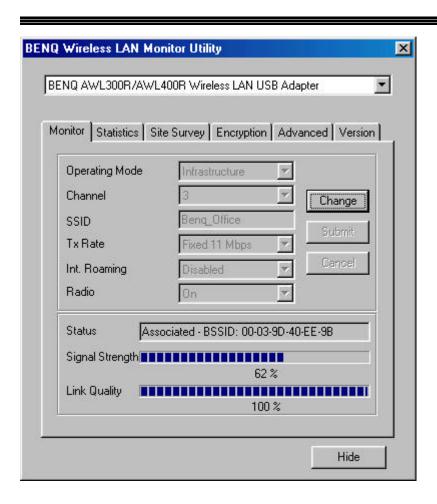


Press Finish when uninstall successfully completed and then you must restart your computer.



# Chapter 4. Configuration & Monitor Utility

## 4.1 Monitor



# **Operating Mode**

## Infrastructure Mode

In this mode, the driver will scan all available channels continuously until one or more Access Points are found that matches its SSID. When it gets to that point, it will try to authenticate and associate with the Access Point.



## Ad Hoc Mode

In this mode, the driver will scan for 5 seconds to look for an existing Ad Hoc network, which uses the same SSID.

#### Channel

This field shows the current radio channel used for an active connection.

#### **SSID**

Service Set Identity

#### Tx Rate

This field shows the current transmit rate which are being used for an active connection.

Int. Roaming (not supported by this model, AWL400)

Radio (not supported by this model, AWL400)

#### **Status**

The current state of the driver is displayed in this field. If the state reveals "Associated," it means that the normal flow of operation is in Infrastructure mode. This shows that the PC is already connected to access point and BSSID is also shown in the form of hex digits. At the same time, the networking is available for the device.

In "Scanning" state, it means that the node cannot detect the SSID to get an access point within range and is searching for an available access point. Also, if the driver failed to initialize for some unknown reasons, this field will display an error message.

## **Link Quality**

This field reveals the quality of the current connection. Only when the node is in Infrastructure Mode does the Link Quality bar graph become active. The bar graph displays the link quality between the node and its Access Point.

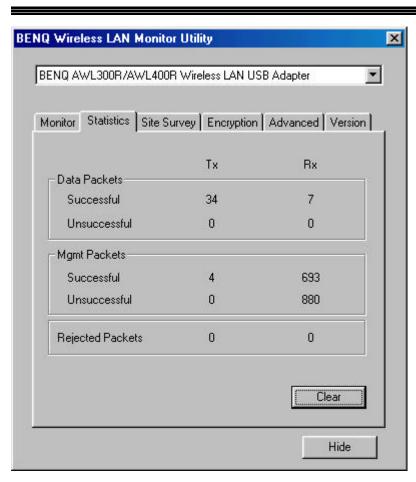
## Signal Strength

The Signal Strength bar graph becomes active only when the node is in Infrastructure Mode does. This bar graphic shows normalized signal strength



as reported by the radio, averaged over all frames over 100 bytes long received from the Access Point.

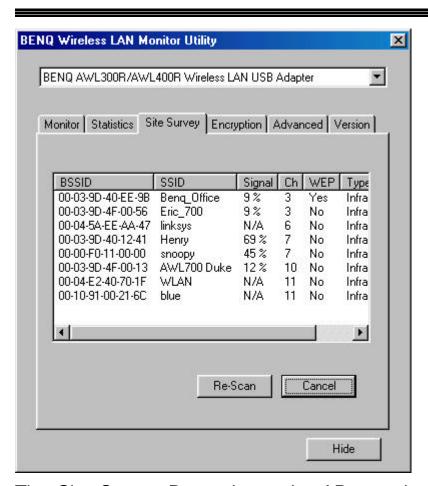
# 4.2 Statistics



The Statistics Page shows the counts of packets transmitted and received. Press Clear button to set these numbers to zero.



# 4.3 Site Survey



The Site Survey Page shows the APs nearby. After pressing "**Re-Scan**" button to search APs nearby., users can double click on the SSID area to associate with the AP which user want to connect.



# 4.4 Encryption



According to WEP function select, this panel allows the entry of 64-bit encryption and 128-bit key. Each key must consist of hex digits to be written to the driver and registry. This means that only digit 0-9 and letters A-F are valid entries. Therefore, if entered incorrectly, the program will not write keys to a driver.

## **Encryption**

Disabled – Disable WEP function 64 Bit – Enable WEP with 64 bit Key 128 Bit – Enable WEP with 128 bit Key

## WEP Key to use

Select one of these four keys.

## **WEP Mode**

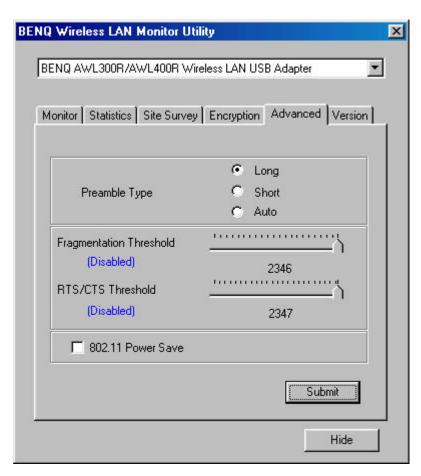
Select WEP mode – Mandatory or Optional

# **Authentication Type**

Select Open System type or Shared Key type



# 4.5 Advanced



The Advanced Page sets the preamble type and threshold of fragmentation and RTS/CTS. Press Submit button to apply your changes



## 4.6 Version



You may learn the product version including the detail of Driver, Firmware, Application, and MAC Address from this "Version" tab. When users wish to report their problems to technical support, they must have this version number.