

OvisLink

WL-5400PCI

Quick Installation Guide

REGULATORY STATEMENTS

FCC Certification

The United States Federal Communication Commission (FCC) and the Canadian Department of Communications have established certain rules governing the use of electronic equipment.

Part15, Class B

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interface, and
- 2) This device must accept any interface received, including interface that may cause undesired operation. 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the distance between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

CAUTION:

- 1) To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- 2) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Network Configuration

The OvisLink WL-5400PCI is an IEEE802.11/802.11b-compliant PCI wireless LAN Card. It fully supports wireless networking under Windows 98SE/ME/2000/XP.

The OvisLink WL-5400PCI can be operated in Ad-Hoc or Infrastructure network configurations. *Ad-Hoc mode* allows the OvisLink WL-5400PCI users to join a Basic Service Set (i.e., peer-to-peer mode, without access point). *Infrastructure mode* allows the OvisLink WL-5400PCI users to join an Extended Basic Service Set (i.e., connect to an Access Point)

Installing the Device

In Windows 98SE/ME

1. Insert the OvisLink WL-5400PCI into the PCI slot on your computer and start Windows. Windows will auto-detect new hardware and

will display an **“Add New Hardware Wizard”** window.

2. Select **“Search for the best driver for your device (recommended)”**. Insert the CD-ROM that came with this device into the CD-ROM drive. Specify the location where the driver is placed. Click on **Next** to install the driver.
3. The Windows will display the description of this device. Click on **Next** to continue.
4. Once the **[Please insert the disk labelled “Windows 98SE/ME CD-ROM”, and then click OK]** window appears, enter the path corresponding to the appropriate drives and click **OK**. Usually these files can be found at C:Windows or C:Windows\system.
5. Click **Finish** to complete the installation. Restart Windows.

In Windows 2000

1. Insert the OvisLink WL-5400PCI into the PCI slot on your computer and start Windows.

Windows will auto-detect the OvisLink WL-5400PCI and a **“Found New Hard Wizard”** window will show up. Click **Continue** to continue.

2. Select **“Search for a suitable driver for my device (recommended)”**. Insert the CD-ROM that came with the device into the appropriate drive. Click on **Next** to install the driver.
3. The windows will display the description of this device. Click on **Next** to continue.
4. Click **Finish** to complete the installation

In Windows XP

1. Insert the OvisLink WL-5400PCI into the PCI slot on your computer and start Windows. Windows will auto-detect the OvisLink WL-5400PCI and a **“Found New Hardware Wizard”** window will show up.
2. Select **“Install from a list of specific location (Advanced)”** and insert the CD-ROM that

came with the device into the appropriate drive. Click on **Next** to install the driver.

3. Select “**Search removable media (floppy, CD-ROM...)** ”, click on **Next** to install the driver.
4. The Windows XP compatibility screen will show up. Please click **Continue Anyway** button to continue.
5. Click **Finish** to complete the installation.

After installing the Wireless PCI Card, the Windows XP will display a “**Wireless Network Connection #**” message.



Click on the message and the “*Automatic Wireless Network Configuration*” will then appear automatically. You may click on **Connect** button to allow users to connect to an available

wireless infrastructure network (Access Point),
shown as follows:



You may click the **Advanced** button to perform
advanced configuration for the OvisLink
WL-5400PCI, shown as below.



Warning: You must choose one way to configure Wireless LAN PC Card either of using our WLAN Utility by un-checking this check box or using Windows XP Automatic Wireless Network Configuration first by checking this check box.

For more information on using the Automatic Wireless Network Configuration please refer to Windows XP **Help** file.

However, the WLAN Utility, which came with the OvisLink WL-5400PCI, provides you more tools to configure this device and to monitor the wireless connection. For more information on installing and using the WLAN Utility, please refer to the sections titled “*Installation of the Wireless LAN Utility*” and “*Usage of the WLAN Utility*” in the user manual.

Note: To use the WLAN Utility under Windows XP, you need to disable the *Automatic Wireless Network Configuration* first. Steps are described as follows:

Installing the Utility

1. Insert the Product CD-ROM into the appropriate drive. Go to the utility folder and click **setup.exe**. The opening screen will show up. Click **Continue** to continue.
2. Follow the on-screen instructions to install the Wireless LAN Utility. Click **Next**.

3. Upon completion, go to **Program Files** and run the Wireless LAN Utility. The utility interface will then appear and at the same time its icon appears in the **System Tray** in the bottom right corner of your task bar.

Usage of the WLAN Utility

The WLAN Utility consists of window with 3 items for you to monitor and configure the OvisLink WL-5400PCI: **Configuration**, **Site Survey** and **About**.

Configuration:

The **Configuration** item allows you to modify the configuration parameters for the OvisLink WL-5400PCI such as **Profile**, **SSID**, **Network Type**, **AdHoc Channel**, **Transmit Rate**, **WEP**, **RTS**, **Fragment Threshold** and **Power Save mode**. Furthermore, you may monitor the current status of the OvisLink WL-5400PCI as **State**, **Current Channel**, **Current Tx Rate**, **Throughput**, **Link Quality** and **Signal Strength**.

Site Survey:

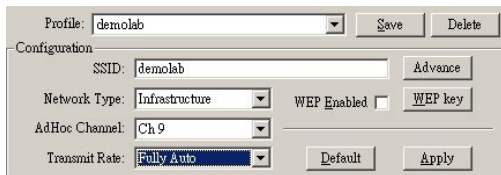
By clicking the **Rescan** button, the Site Survey can display Access Points around the working environment. Besides showing the ESSID of each Access Point, it also displays BSSID, Channel, Network Type, Encryption, Signal, and Rates. To join any of the displayed Access Points, highlight the Access Point you desire to connect and then click the **Join**.

About:

The **About** item shows the versions of the WLAN Utility, driver, and firmware of this device. Also, the MAC address and frequency domain are displayed.

Quick Tips to Configure the Wireless LAN PCI Card

This Quick Start Guide covers the basic features needed to use the OvisLink WL-5400PCI. Follow these steps to configure network settings.



Set the Profile (Optional)

The **Profile** field allows you to set values for all parameters by selecting a previously defined profile. To create the profile, go to the **Profile** field, type a profile name and set the corresponding parameters. After changing parameters, save the profile and click the **Apply** button to take effect. You can have multiple profiles and modify the profile at any time.

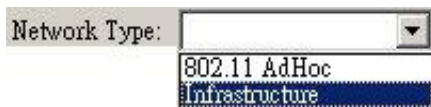


You may also see the profile from the WLAN Utility icon that appears in the **System Tray** in the bottom right corner of your task bar by right

clicking the WLAN Utility icon or you may choose the profile by directly right clicking the system tray icon on the task bar.

Set the Network Type

From the Main Menu, click the **Configuration** tab, go to **Network Type** and click the down arrow at the right of the **Network Type** field. You will then see 3 network types for the OvisLink WL-5400PCI to operate. If you need to access company network or the Internet via Access Point, select “**Infrastructure**”. If standard “**802.11 Ad Hoc**” is selected, you need to set wireless stations with the same SSID.



Set the SSID

The SSID is the unique ID used by Access Points and stations to identify a wireless LAN. Wireless clients associating to any Access Point must have

the same SSID. The default setting is ANY, which allows the OvisLink WL-5400PCI to automatically associate to any Access Point (Infrastructure mode) in the vicinity of your wireless adapter. The SSID can be set up to **32 characters** and is case sensitive.



Set the Channel (for Ad-Hoc network)

To form AdHoc network, the same channel is required. Before choosing a channel, it is advised to use the **Site Survey** tool to check the quality of each channel. Afterwards, go to the **Channel** field and choose a clear channel for your wireless LAN stations. Click the **Apply** button to let the change take effect.

Set the Encryption:

To prevent unauthorized wireless stations from accessing data transmitted over the network, the OvisLink WL-5400PCI offers highly secure data

encryption, known as WEP (Wired Equivalent Privacy). The Encryption tab allows you enable encryption and set the encryption keys, making your data transmission over the air more secure. To activate the WEP Encryption, go to the **Configuration** tab and check the **WEP Enabled** check box. An Encryption window will then appear.

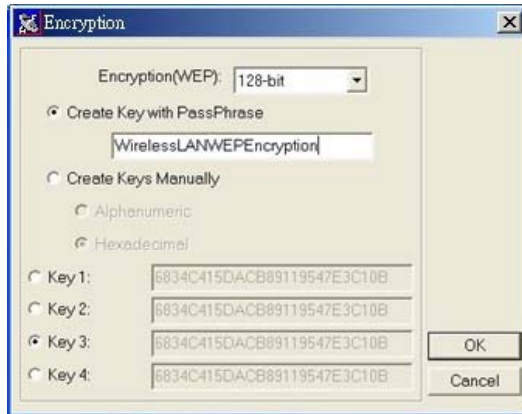
From the WEP encryption item, pull down the menu and you will see two methods to set the WEP keys which are described below:

- **Create Encryption Keys by Using a Passphrase**

To create encryption keys by using a passphrase, click the **Create Key with Passphrase** check box and type a character string in the **Passphrase** field. As you type, the utility uses an algorithm to generate 4 keys automatically. Select either the **64bit** or **128bit** encryption first and type a string in the **Create Key with Passphrase** field. Select one key from the 4 WEP keys and click **OK**.

Then click the **Apply** button on the **Configuration** tab to let the setting take effect.

***Warning:** When **Create Key with Passphrase** is enabled, the wireless device's Key with PassPhrase must match the Key with PassPhrase used by the access point with which wireless device are planning to communicate.*



Create Encryption Keys Using a Passphrase (128-bit)

● **Create Encryption Keys Manually**

You can also create up to 4 encryption keys manually by clicking the **Create Keys Manually** check box.

For 64bit encryption you may choose:

■ **Alphanumeric: 5 characters** (case sensitive)

ranging from “a-z”, “A-Z” and “0-9” (e.g. MyKey)

■ **Hexadecimal: 10 hexadecimal digits** in the range

of “A-F”, “a-f” and “0-9” (e.g. 11AA22BB33)

For 128bit encryption you may choose:

■ **Alphanumeric: 13 characters** (case sensitive)

ranging from “a-z”, “A-Z” and “0-9” (e.g.

MyKey12345678)

■ **Hexadecimal: 26 hexadecimal digits** in the

range of “A-F”, “a-f” and “0-9” (e.g.

00112233445566778899AABBCC).

After entering the WEP keys in the key field,

select one key as active key, click the **OK** button

and then click the **Apply** button to let the setting

take effect.

