



Navini
NETWORKS™

Internet at the speed of thought™

Ripwave

2.6 GHz

User Guide

For Windows® 95 or later

Note: This User Guide is for Beta Users only. The contents are subject to change at any time during the Beta test.

TABLE OF CONTENTS

PERMISSIONS, TRADEMARKS, AND DISTRIBUTION.....	VI
REGULATORY INFORMATION	VII
SAFETY.....	VIII
INTRODUCTION.....	1
RIPWAVE UNIT INSTALLATION.....	2
USB connections.....	2
Ethernet connections	7
RIPWAVE MONITOR SOFTWARE INSTALLATION.....	9
ACCESSING THE INTERNET.....	14
RIPWAVE UNIT INDICATOR LIGHTS	15
DISPLAYING THE RIPWAVE MONITOR.....	16
UNINSTALL RIPWAVE SOFTWARE	19
INSTALLING / CHARGING THE BATTERY	21
BETA USER GUIDE FREQUENTLY ASKED QUESTIONS.....	23
END USER LICENSE AGREEMENT.....	25

Symbols

Throughout this manual, the following symbols are used to designate precautions that need to be taken when performing the step. For your safety and protection of the equipment, observe these precautions when installing, operating, or servicing the equipment.

 Caution Symbol	This symbol indicates a potentially hazardous situation that may result in equipment damage or improper operation.
 Warning Symbol	This symbol indicates a potentially hazardous situation that may result in death or injury to personnel.

Notes

 Notes Symbol	This symbol indicates points, comments, or special attention that is required during a procedure.
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Regulatory Information



Caution: This device is a radio frequency transmitter. It is required to comply with FCC RF exposure requirements for transmitting devices. A minimum separation distance of 8 inches (20 cm) or more must be maintained between the antenna and all persons during device operations to ensure compliance with the FCC's rules for Radio Frequency Exposure. If this minimum distance cannot be maintained, exposure to RF levels that exceed the FCC's limits may result. This equipment must not be co-located with any other transmitting antenna.

This equipment complies with part 21 of the FCC rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Safety

To optimize safety when using the Navini equipment, please read before using.

When using the Navini electronic equipment, always follow the basic safety precautions to reduce the risk of electrical shock, fire, and injury to people and/or property.

1. Follow all warnings and instructions that come with the equipment.
2. Do not use the equipment while you are in a bathtub, shower, pool, or spa. Exposure of the equipment to water could cause severe electrical shock (even death) or serious damage to the equipment.
3. Do not allow any type of liquid to come in contact with the equipment. Unplug the equipment from the power source before cleaning. Use a damp cloth for cleaning. Do not use any soaps or liquid cleaners.
4. Follow all airport and FAA regulations when using the equipment on or near aircraft.
5. Only operate the equipment from the type of power source(s) indicated in this manual (110 VAC or Navini supplied battery). Any other type of input power source may cause damage to the equipment.
6. Power the equipment using only the battery or the AC adapter cable provided, and in accordance with the instructions specified in the user manual.
7. Do not use a frayed or damaged power cord. Do not place the power cord where it can be stepped on or tripped over.
8. Do not touch wires where the insulation is frayed or worn unless the equipment has been disconnected from its power source.
9. Do not overload wall outlets, power strips, or extension cords. This can cause serious electrical shock or fire.
10. Do not place the equipment on an unstable surface. It can fall and cause injury or damage to the equipment.

Safety (continued)

11. Do not dispose of the equipment or the battery in a fire. They may explode. Check with the retailer for battery disposal guidelines.
12. Do not open or mutilate the battery. The battery contains substances that are toxic, corrosive, or harmful to humans. If battery substances come in contact with the skin, seek medical help immediately.
13. Do not disassemble the equipment. Removing covers exposes dangerous voltages or other risks and also voids the warranty. Incorrect reassembly can cause equipment damage or electrical shock. Only an authorized repair technician should service this product.
14. Do not expose the equipment to extreme hot or cold temperatures.
15. Do not use the equipment under the following conditions:
 - When the equipment has been exposed to water or moisture.
 - When the equipment has been damaged.
 - When the power cord is damaged or frayed.
 - When the equipment does not operate properly or shows a distinct change in performance.



CAUTION: RISK OF EXPLOSION IS POSSIBLE IF THE BATTERY IS REPLACED WITH ONE NOT SUPPLIED BY NAVINI NETWORKS. DISPOSE OF USED BATTERIES ACCORDING TO ENVIROMENTAL GUIDELINES.

Beta

Introduction

Congratulations for being selected to test the Navini Networks Ripwave product. This manual will guide you through the simple process of installing the Navini Networks Ripwave unit and software, which has been developed to optimize the ease and convenience for you, our valued customer.

The Ripwave Unit Installation includes instructions for both USB and Ethernet connections. Be sure to use the instructions that apply to your Ripwave model.



Note: You must have the Ripwave Unit model that is appropriate for your PC port: Model 2600U for a USB connection; Model 2600E for an Ethernet connection. At first glance, the models appear the same, but the ports and cables for the connections are different.

- A USB connection will function only with Windows[®] 98, Windows[®] 98SE, Windows[®] 2000, or Windows[®] ME. **It will not work with Windows[®] 95 or Windows NT[®].**



USB
Model 2600U

- An Ethernet connection will function with any Win32 Operating System (Windows[®] 95 or later).



Ethernet
Model 2600E

The Software Installation procedure is the same for either of the Ripwave models.

Minimum requirements:

Operating System:	Windows [®] 95 or later – Windows XP and Macintosh systems are not supported.
CPU:	Pentium level or higher
RAM:	32MB or the Operating System minimum (whichever is greater)
Hard Drive:	10MB free disk space

Before you start!

Verify the contents of your package. The contents should consist of the following items:

- Navini Networks Ripwave unit
- Ripwave unit AC power adapter
- PC-to-Ripwave unit cable (USB or Ethernet)
- Ripwave User Guide
- Ripwave Quick Installation Guide
- Navini Networks Ripwave Installation CD

If you do not find all of these items in your package, notify the supplier from whom you obtained your package.

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Ripwave Unit Installation

USB connections

The following instructions are for the installation of the Ripwave Unit model 2600U using a USB connection. Please read all instructions before attempting installation. It is recommended that the computer and the Ripwave unit be turned off before performing the installation.

1. Connect the USB cable to the USB port on the computer as shown.



2. Connect the other end of the USB cable to the Ripwave unit as shown.

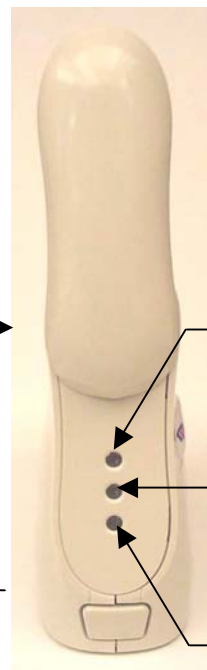
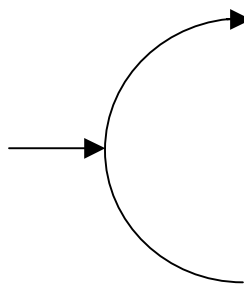


3. Rotate the antenna on the Ripwave unit clockwise 180 degrees to the 'UP' position. This reveals the Ripwave unit indicator lights.



Caution: Rotation or movement of the antenna in any other direction may cause damage to the Ripwave unit.

Rotate
antenna
clockwise
180 degrees



Signal Strength Indicator

Battery Indicator

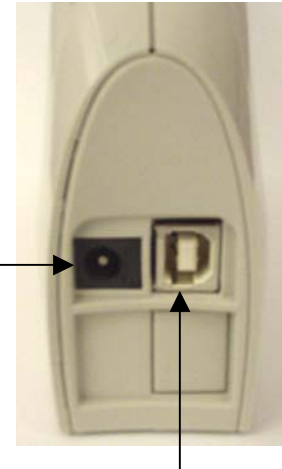
Power Indicator

4. Connect the AC power adapter cable to the Ripwave unit. Plug the other end of the AC power adapter cable into a 110 VAC outlet.



Caution: Only use the AC power adapter supplied with the Ripwave unit. Using any other adapter may cause damage to the Ripwave Unit.

AC Power
adapter cable
jack



USB Port

5. Push the On/Off switch to turn the Ripwave unit ON.

6. If the green power-indicator light is on, proceed to step 7. If the green power-indicator light is not on, there is a problem with the Ripwave unit or the AC Power Adapter. Check all cables for proper connection. Otherwise, contact the supplier from whom you obtained the package.



Power on indicator

On/Off switch

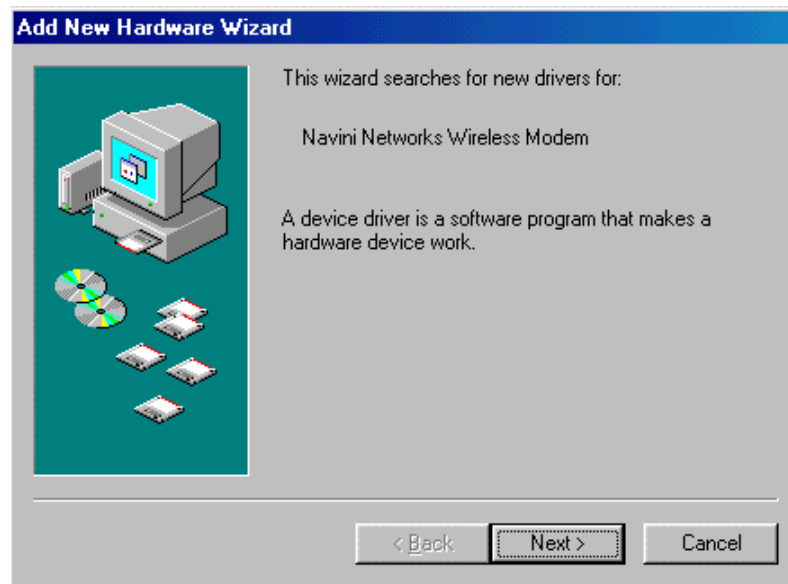
7. Set the power switch on the computer to the ON position. When the system is up, log in to the computer.



Note: For Windows® 2000, you must be logged into an account having administrative privileges to install the Ripwave unit and its software.

8. Plug and Play will detect the Ripwave device now attached to the PC and will launch the Plug and Play application.

9. The Add New Hardware Wizard dialog box appears. Click **Next** to continue.



10. Insert the Navini Networks Ripwave installation CD in the CD-ROM drive.

11. In the next dialog box, select the 'Search for the best driver for your device' option. Click **Next** to continue.

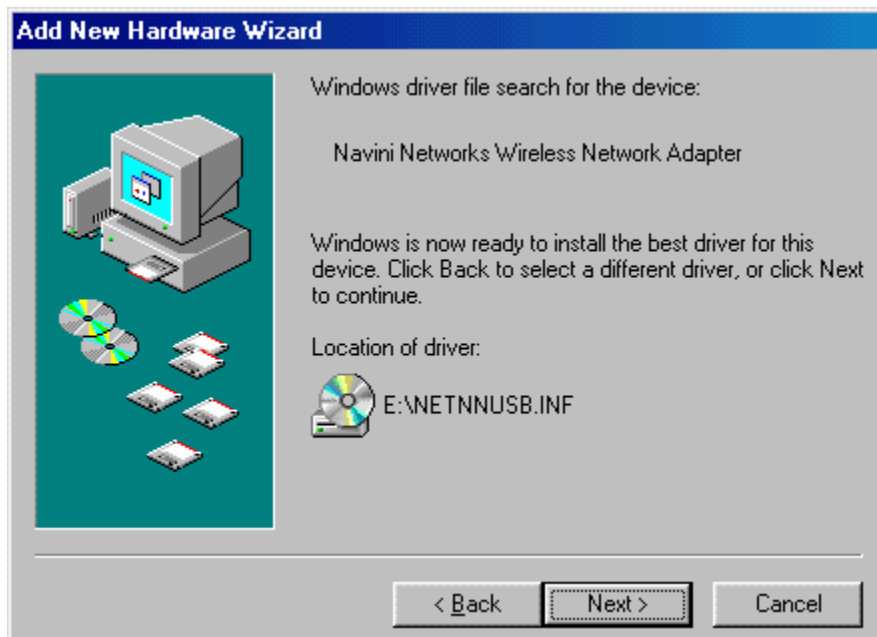


Beta

12. In the next dialog box, select the 'CD-ROM drive' checkbox. Click **Next** to continue.



13. In the next dialog box, confirm that the drive location is correct (the drive letter may be different than shown below) and that the file to be installed is NETNUSB.INF. Click **Next** to continue.



14. In the next dialog box, click **Finish**.

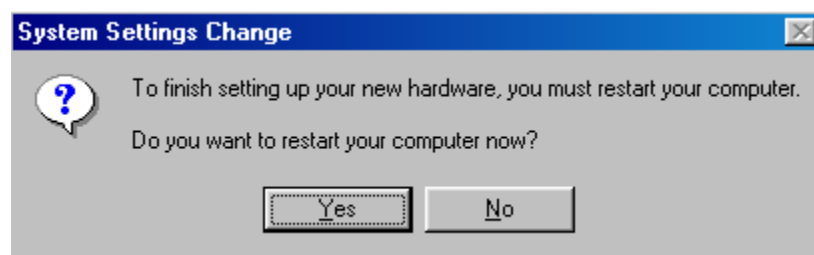


Note: For Windows[®] 98, a window may appear asking for drivers to be installed from the Windows[®] 98 setup disk. If so, insert the Windows[®] 98 setup disk in the CD-ROM drive and accept the defaults.

15. After clicking **Finish**, the System Settings Change window appears asking if you want to restart your computer now. Click **Yes**.



Note: You must restart your computer at this point before proceeding.



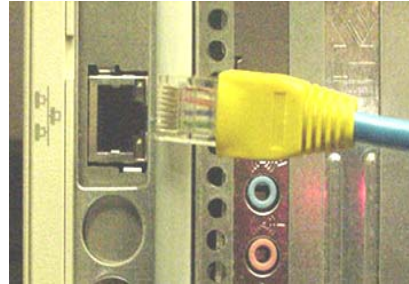
16. After the computer restart is complete, proceed to the [Ripwave Monitor Software Installation](#) on page 9.

Beta

Ethernet connections

The following instructions are for the installation of the Ripwave Unit model 2600E using an Ethernet connection. Please read all instructions before attempting installation. It is recommended that the computer and the Ripwave unit be turned off before performing the installation.

1. Connect the Ethernet cable to the Ethernet port on the computer as shown.



2. Connect the other end of the Ethernet cable to the Ripwave unit as shown.

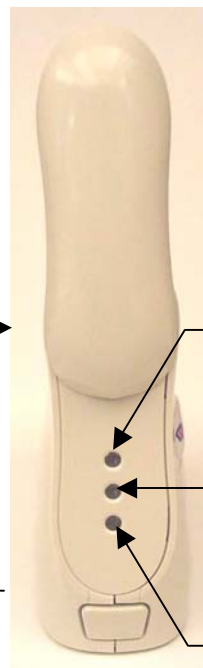
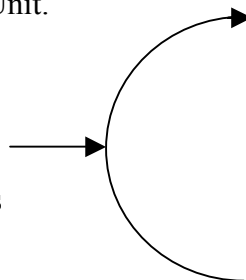


3. Rotate the antenna on the Ripwave unit clockwise 180 degrees to the 'UP' position. This reveals the Ripwave indicator lights.



Caution: Rotation or movement of the antenna in any other direction may cause damage to the Ripwave Unit.

Rotate
antenna
clockwise
180 degrees



Signal Strength Indicator

Battery Indicator

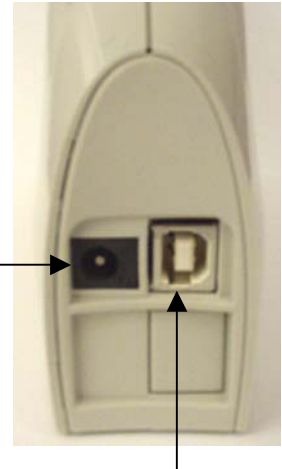
Power Indicator

Beta

4. Connect the AC power adapter cable to the Ripwave unit. Plug the other end of the AC power adapter cable into a 110 VAC outlet.

 **Caution:** Only use the AC power adapter supplied with the Ripwave unit. Using any other adapter may cause damage to the Ripwave Unit.

AC Power
adapter cable
jack



USB Port

5. Push the On/Off switch on the Ripwave unit to turn the unit ON.
6. If the green power-indicator light is on, proceed to step 7. If the green power-indicator light is not on, there is a problem with the Ripwave unit or the AC Power Adapter. Check all cables for proper connection. Otherwise, contact the supplier from whom you obtained the package.



Power on indicator

On/Off switch

7. Set the power switch on the computer to the ON position. When the system is up, log in to the computer.
8. Proceed to the [Ripwave Monitor Software Installation](#) on page 9.

Beta

Ripwave Monitor Software Installation



Notes:

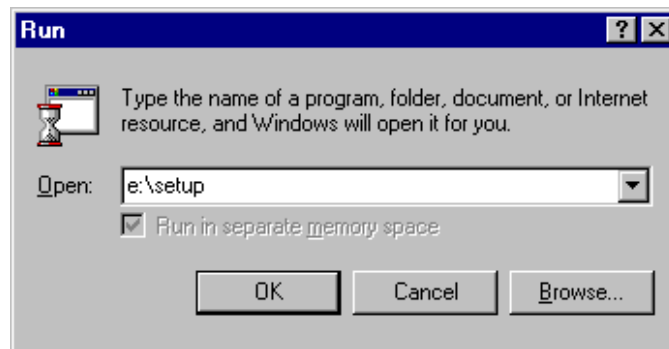
For Windows NT[®] and Windows[®] 2000, you must be logged into an account having administrative privileges to install the Ripwave monitor software.

For Ripwave monitor software installation on Windows[®] 95, Windows[®] 98, and Windows[®] 98SE Operating Systems, the operating system CD will be needed to complete the installation. If prompted, insert the operating system CD in the CD-ROM drive and accept the defaults.

Installation procedures:

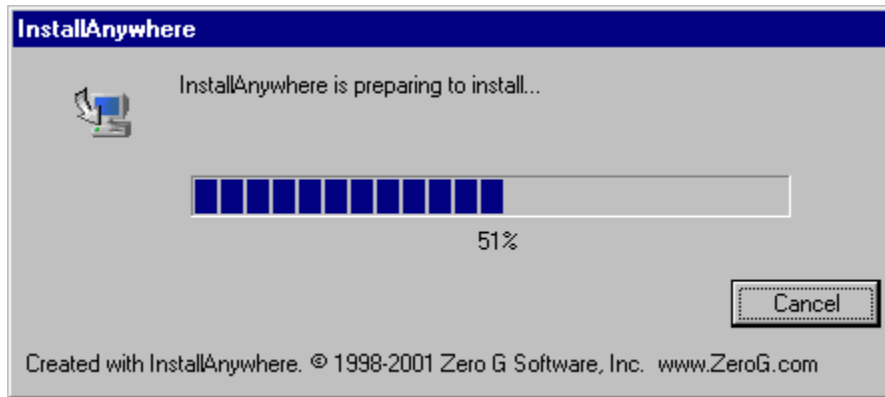
The following instructions are for installing the software that monitors the operation and performance of the Ripwave unit.

1. Shut down all programs before installing the Ripwave monitor software. This includes all anti-virus software.
2. Insert the Navini Networks Ripwave installation CD in the CD-ROM drive.
3. Click **Start** > **Run** at the bottom left corner of your screen. In the Run window, enter e:\setup (where “e” represents the CD drive; use the letter representing your specific CD drive) in the Open field. Click **OK** to continue.

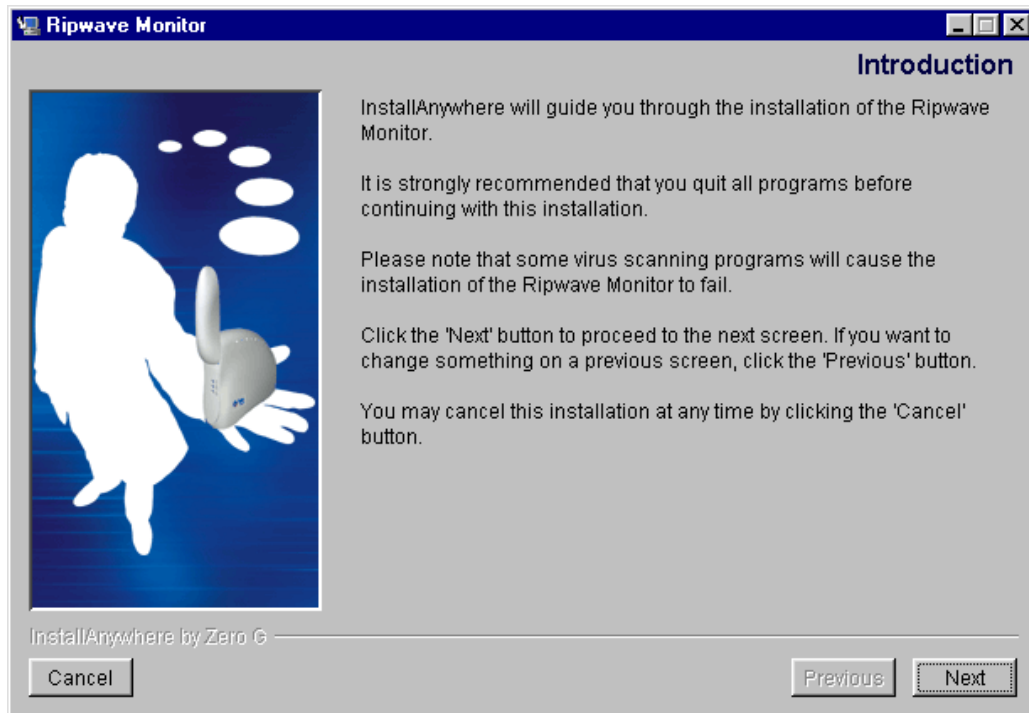


Beta

4. The InstallAnywhere window appears. The progress bar indicates that InstallAnywhere has initialized.



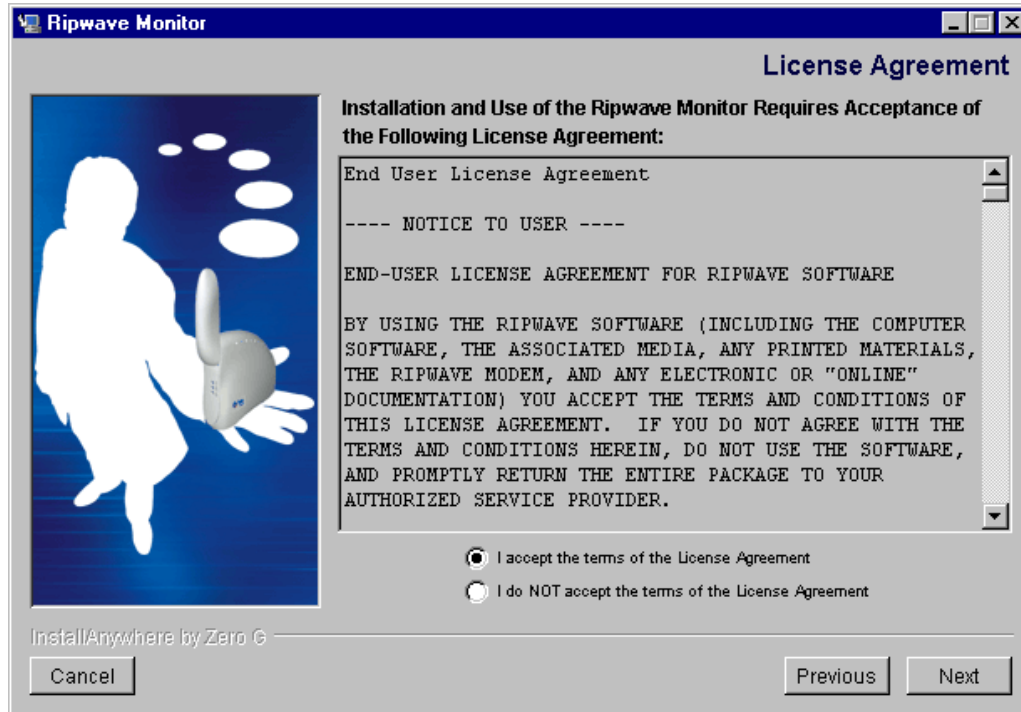
5. The Ripwave Monitor Introduction screen appears. Click **Next** to continue.



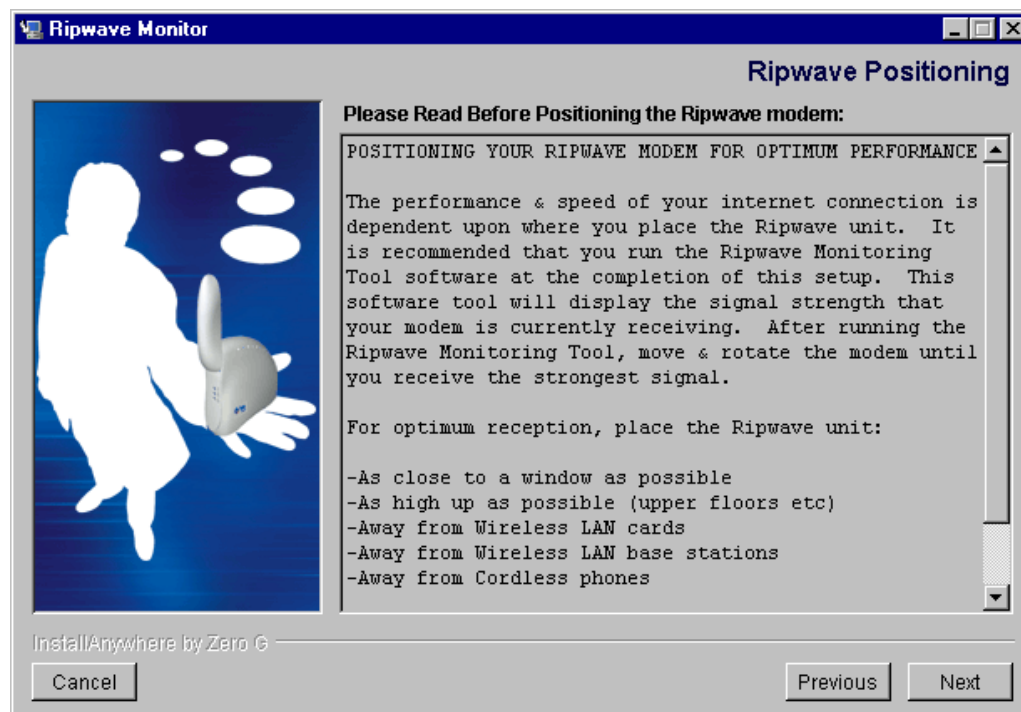
- The License Agreement screen appears. Read the Licensing Agreement. Select the **I accept** option, and click **Next** to continue.



Note: If the License Agreement is not accepted, you cannot install the software.



- The Ripwave Positioning screen appears. Read the screen for positioning the Ripwave unit for optimum performance. Click **Next** to continue.

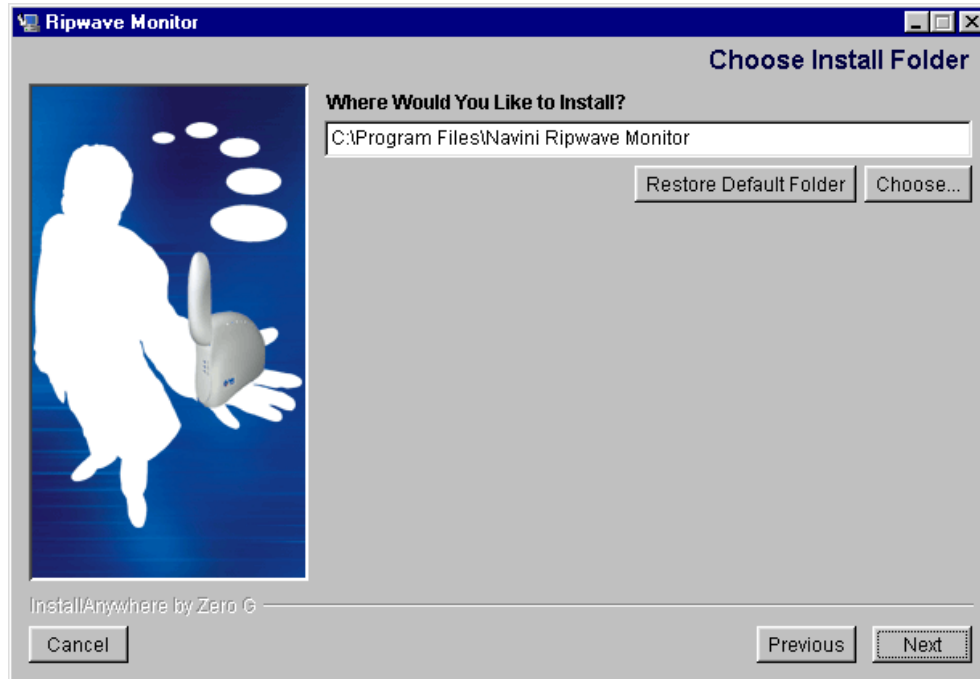


Beta

8. The Choose Install Folder screen appears. Enter the name of the folder where you wish to install the software and click **Next** to continue.



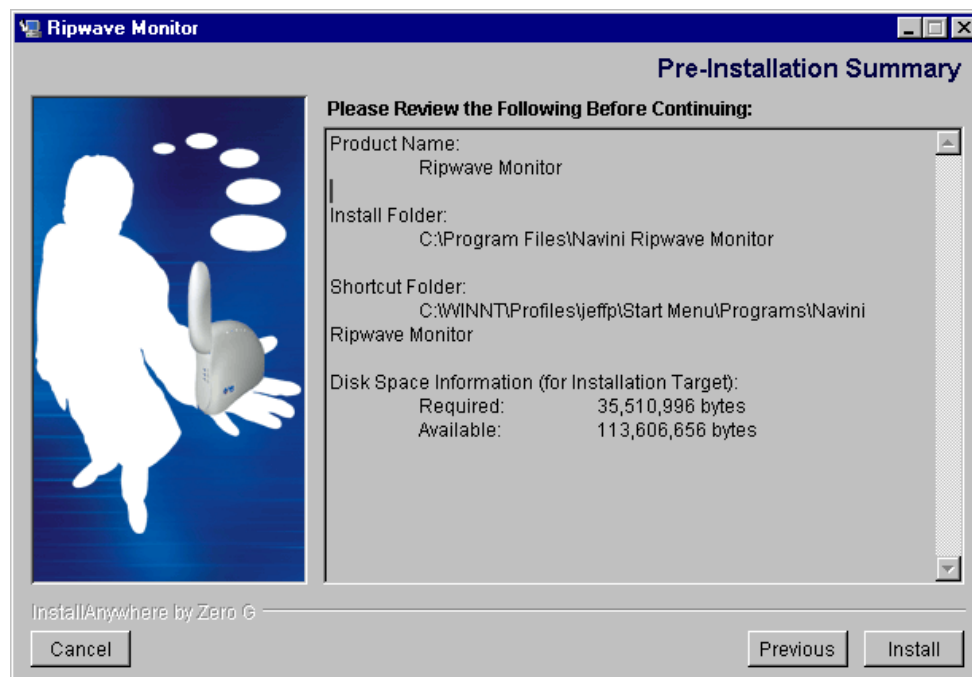
Note: The default installation folder provided by the installation software is shown below.



9. The Pre-Installation Summary screen appears. Review the contents for accuracy. Click **Install** to continue.



Note: For your installation, this screen may have different information.



Beta

10. The Installing screen will display as the application files are loaded.



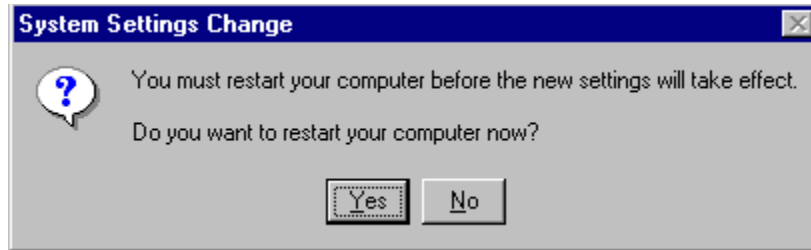
11. At the Install Complete screen, click **Done** to close the window.



12. After clicking **Done**, the System Settings Change window appears asking if you want to restart your computer now. Click **Yes**.



Note: You must restart your computer at this point before proceeding.



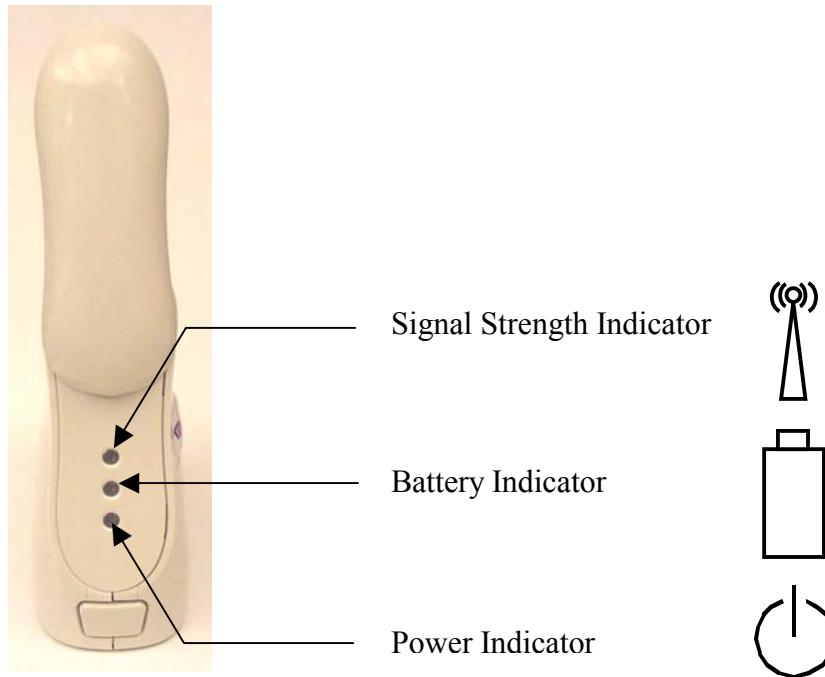
Accessing the Internet

To access the Internet, open the web browser that is installed on the computer. You should be able to surf the Internet.

Beta

Ripwave Unit Indicator Lights

The Ripwave unit has three LEDs that indicate the operating status of the unit. The indicator lights, along with the graphical representation next to it on the case, are as follows:



The indicator lights change color to designate the state of the item that it represents. The color designations are as follows:

Signal Strength Indicator:

Flashing red	– weak signal
Flashing yellow	– medium signal
Flashing green	– strong signal
All three colors alternately flashing	– no signal

Battery Indicator:

Constant Yellow	– battery is charging
Constant red	– battery less than 20% charged
Flashing red	– battery less than 10% charged
Off	– battery fully charged or not installed

Power Indicator:

Constant Green	–The unit is on (AC or DC Power)
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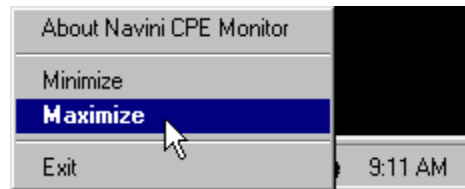
Displaying the Ripwave Monitor

Navini Networks provides Ripwave monitor software to assist you in solving problems that you encounter with reception or network connections. The Ripwave monitor provides information on the strength and quality of the incoming signal, battery strength, and checks the connectivity to the Internet Service Provider (ISP) network. The following steps will aid in using the Ripwave Monitor software.

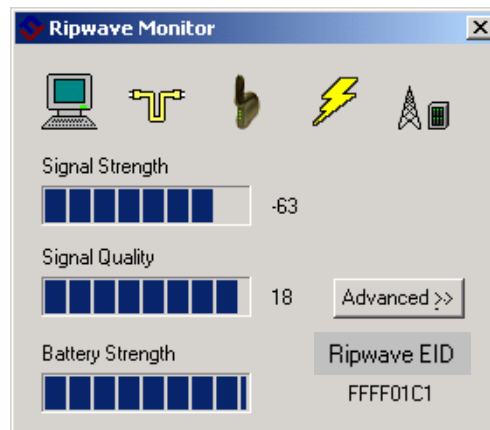
1. To open the Navini Ripwave Monitor, right-click on the Ripwave icon in the toolbar tray and select Maximize.



Ripwave Icon



2. The Ripwave Monitor window appears.



The icons shown across the top of the window represent each of the components and connections throughout the system. They are:



Computer



Computer to
Ripwave
connection



Ripwave
Unit



Ripwave to
Base Station
wireless
connection



Base
Station

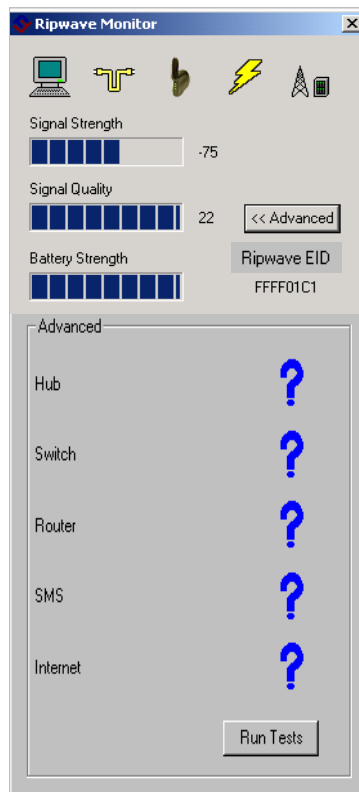
Beta

If a problem is detected with one of these components or if a connection is down, a red circle with a slash () will be positioned over the icon. For example, if the Ripwave to Base Station wireless connection goes down, the icon will change to:



When the system is on, the signal strength and quality strength will be displayed as dynamic bar graphs in the window. To increase the strength and quality of the signal, change the location of the Ripwave unit. Try moving it closer to a window, to a higher location, away from other wireless devices (microwave ovens, cordless phones), and away from metal objects (shelves, file cabinets). As the Ripwave unit is repositioned, observe the Signal Strength and Signal Quality bar graphs. Position the Ripwave unit for maximum signal strength and quality. The numbers to the right of the Signal Strength and Signal Quality bar graphs and the Ripwave EID number are for troubleshooting purposes only. During troubleshooting, the technician may ask you for these numbers. The Battery Strength bar graph indicates how much charge is left in the battery. If the unit is being run by the AC power adapter, the Battery Strength bar graph will show full strength.

3. To check connectivity to the ISP network, click the **Advanced** button on the Navini Ripwave Monitor. The window displays all of the connections to the ISP network.



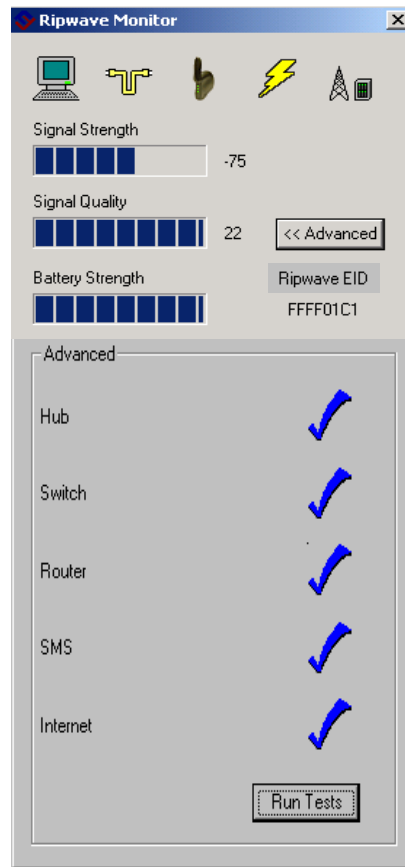
Beta

**Notes:**

If the connection from the Base Station to the Ripwave Unit is down, the Advanced button will be disabled (grayed out).

The connections listed in the **Advanced** window will vary depending on your ISP network. The above connections are used as an example.

4. Click on the **Run Tests** button to check the connections.



A blue checkmark indicates that the connection to the network is valid. If there is a problem, a red circle with a slash (⊘) will be displayed instead of the checkmark for the connection. If this appears, contact your ISP for service.

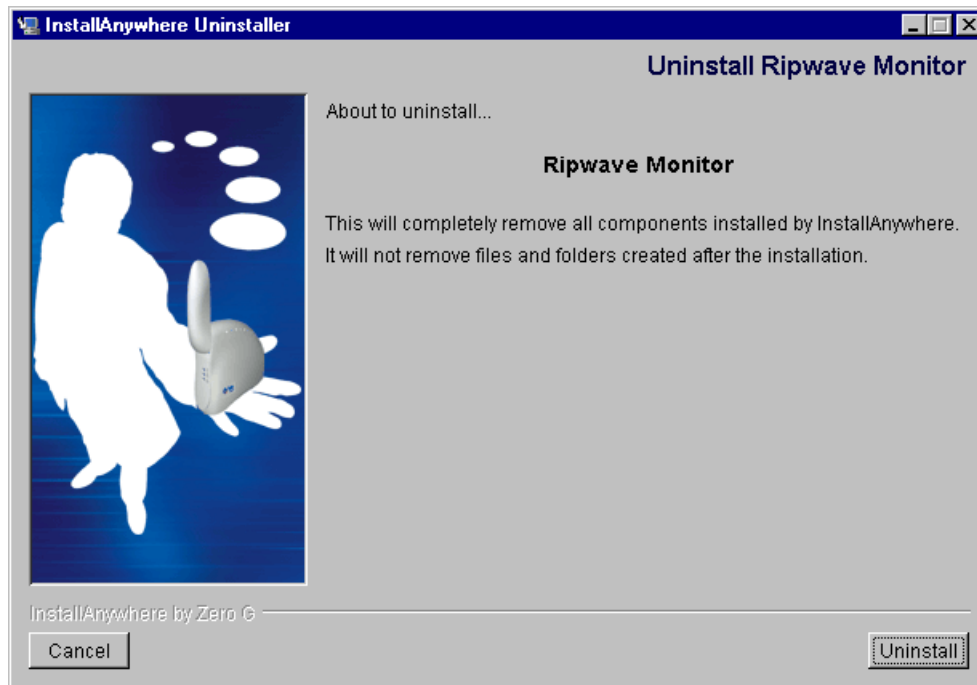


Note: The features of the Advanced and Run Tests buttons are to be used in conjunction with your ISP to resolve connection problems. There is no need to use these features unless you are experiencing problems with the Ripwave unit.

Beta

Uninstall Ripwave Software

1. To uninstall the Ripwave monitor software, click **Start > Programs > Navini Ripwave Monitor > Uninstall Ripwave Monitor**. The InstallAnywhere Uninstaller screen appears. Click **Uninstall**.



2. The screen will cycle through as the application files are uninstalled.



Beta

3. The Uninstall Complete screen appears when finished. Click on **Quit** to close the Uninstall screen.



4. **Restart the computer to complete the uninstall process. This will ensure that the computer functions properly after the uninstall process.**

Installing / Charging the Battery



Note: The battery is an option and is not included with the unit.

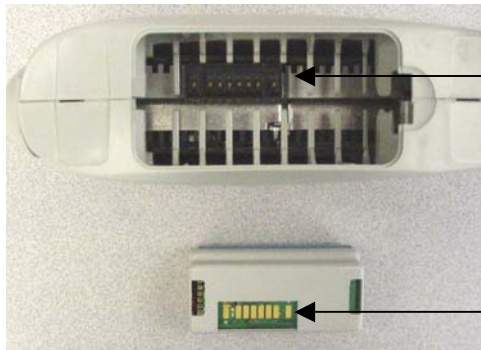
The battery is installed in the bottom of the Ripwave unit. To install and charge the battery, follow the steps below.

1. Using the battery pack tab, remove the battery cover from the Ripwave unit.



Battery pack tab

2. Install the battery pack into the Ripwave unit, ensuring that the contacts on the battery pack mate with the contacts in the Ripwave unit.



Battery contacts

Battery pack contacts



Beta

3. Reinstall the battery cover on the Ripwave unit.

To charge the battery, install it in the Ripwave unit. Connect the AC adapter (see Ripwave unit installation) to the Ripwave unit. The battery will begin charging immediately with the on/off switch in either position. The middle indicator light on the front of the Ripwave unit (under the antenna) will be constant yellow, indicating that the battery is being charged.

**Notes:**

The battery indicator light will only be on if the on/off switch is in the on position. When the battery is fully charged, the indicator light will go off and charging stops.

To view the battery indicator LED, rotate the antenna clockwise. See [page 2](#) for details.

Beta User Guide Frequently Asked Questions

1) What is the Ripwave unit?

Ripwave is a new and exciting product that allows end users to access the Internet at broadband speeds through a small wireless device that is self installed and is non-line-of-sight to the tower.

2) What does it cost?

As a beta user, there is no charge for using the service.

3) Are there conditions attached in beta-testing the Ripwave unit?

As a beta user, you agree to:

- a) Provide feedback on your experiences with this service & hardware. You will be notified regularly throughout the beta trial period to provide feedback.
- b) Return the Ripwave unit at the termination of the beta trial.

4) When can I purchase the Ripwave unit and how much will it and the service cost?

The exact pricing and time frame for commercial deployment has not been determined. When service is deployed in your area, you will be notified.

5) I have installed the Ripwave software and cannot connect to the Internet.

If you are having problems, contact your service provider.

6) Can I use the Ripwave unit outside of my home or in another part of the city?

As this is a beta trial, the service is only available in a limited coverage area. Therefore, using the Ripwave unit outside of the coverage area may result in loss of coverage. The Ripwave unit can be used anywhere there is adequate signal strength – including outdoors – as long as there is power to the unit from the wall charger or battery (not included for all users). Your service provider will be able to tell you the coverage area for the beta trial.

7) How can I tell if there is adequate signal strength?

The top LED indicator on the Ripwave unit flashes green when you have strong/adequate signal strength in a given area (see [page 15](#) for all signal strength indicator colors). Moving the Ripwave unit around or rotating the Ripwave unit may help with improving signal strength. Use the Ripwave Monitor Signal Strength and the Signal Quality bar graphs to help obtain maximum signal strength and quality. Also ensure that the antenna is pointed straight up.

8) How can I obtain a battery for my CPE, and do I need one?

Only a select number of beta users will be given a battery for their Ripwave unit. The battery is optional and is not necessary to operate the Ripwave unit. The battery allows the unit to be operated without AC power.

Beta

Frequently Asked Questions (continued)

9) Do I need to turn off the Ripwave unit when I am finished using it?

It is recommended that you turn off the Ripwave unit when it is not in use. The switch is located on the front of the unit.

10) I have a friend/family member/co-worker who also wants to beta test the Ripwave unit. Can they sign up?

All Beta users have been identified for this specific trial. No additional Beta users are needed at this time.

11) Can I be candid on the beta test questionnaires without losing the product/service?

Absolutely! The only way that we can improve on the quality of the product and service is to know exactly what you think about it. Please feel free to offer any suggestions, recommendations, or comments on all questionnaires that you will complete during the trial.

End User License Agreement

---- NOTICE TO USER ----

END-USER LICENSE AGREEMENT FOR RIPWAVE SOFTWARE

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