

# Leadtek Wireless Bluetooth GPS Receiver

## GPS 9537

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### Quick Installation Guide



We Make Dreams a Reality

Leadtek Research Inc.

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# Introduction

Thank you for purchasing the Leadtek GPS 9537 Wireless Bluetooth Receiver. The Leadtek GPS 9537 Wireless Bluetooth Receiver is a GPS Receiver integrated with Bluetooth Wireless technology. It is ***Easily Portable, has High Sensitivity Performance, a Rechargeable and Replaceable battery, Low Power Consumption, and utilizes Wireless Data Transmission*** to communicate with other Bluetooth devices. These excellent functions enable you to use it under harsh climate conditions, rugged, urban canyon, and foliage environments (\*1). With the development of new generations of navigation systems, the Leadtek GPS 9537 Wireless Bluetooth Receiver can be connected to your PDA or Notebook PC (\*2). Using installed map software, you can plan your route and find your position to find out where you are when you are lost.

**\*1: Although reception of satellite data in open environment can be guaranteed, complete reception in other environments (e.g. inside buildings) cannot be guaranteed. This is due to the nature of the GPS system and has nothing to do with the quality of your receiver.**

**\*2: Only Laptop PCs, PDAs and Smart Phone that support Bluetooth technology can be used with this receiver.**

## Warnings before using

- **Do not** overcharge the batteries. This can decrease the life time of the batteries.
- Battery may explode if mistreated. **Do not** disassemble or dispose in fire.

## Features

- Built-in GPS receiver with 12 Channels "All-In-View" Tracking and "SiRFXTra" high sensitivity software
- Position accuracy of 10 meter 2D RMS
- Cold/Warm/Hot Start Time: 45/38/8 Seconds
- Reacquisition Time: 0.1 seconds
- RF connector for external GPS antenna
- Support Standard NMEA-0183
- Support Trickle Power mode Power Saving
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Small, sleek, and lightweight design easily fits in your hand
- Two LEDs at the top of the device show Bluetooth and GPS
- Lithium-ion battery support more than 7 hours operation
- Internal WAAS function improves accuracy for your GPS positioning
- Weight <80g (with rechargeable battery)
- Dimension: 45mm x 83mm x 18mm



# Hardware Description







The Bluetooth GPS has two LED lights, each having two colors. One is Bluetooth & low power status LED, named LED 1 and the other is GPS & Charge status LED, named LED 2. The status table of the LEDs is given by:

## <Status table of LED>

### LED1

BT & Low Power LED		Description	
LED1 Color and Action		Bluetooth Active	Low Power
Blue Flash		Yes	No
Purple-Red Flash		Yes	Yes

## LED2

GPS & Charge LED		Description	
LED2 Color and Action		Battery Charged	Position Fixed
Dark		No	No
Green Flash		No	Yes
Red		Yes	No
Orange-Red Flash		Yes	Yes



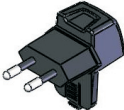
### <Note 1>

LED 1 will flash when Bluetooth is active. When there is no Bluetooth connection available, the light will flash in a slow tempo and the unit will broadcast messages to find another Bluetooth device to connect to. When a Bluetooth connection with another device is established and active, the flashing tempo will become fast.

### <Note 2>

LED 1 will be blue if the battery power is sufficient. When the battery power gets low, the color of LED 1 will change to purple/red flashing.

## Package Contents

(1) Leadtek GPS 9537 BT receiver x 1	(2) Anti-Slide Mat x 1	(3) Quick Guide x 1	(4) Navigator Software CD ROM x 1
			
(5) Power Adapter x 1	(6) EU Adapter Plug x 1	(7) Rechargeable Battery x 1	(8) UK Adapter Plug x 1
			

### <Note 1>

The software on the CD-ROM includes "CE Navigator" for GPS receiver evaluation, product manual and other Leadtek GPS drivers and utility software.

# Installing Navigator Software for Pocket PC

## Note:

Microsoft ActiveSync has to be installed and running on your computer when you want to install Navigator.

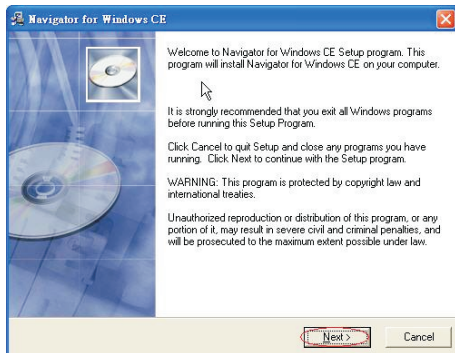
## Step 1

Insert the software CD-ROM in your CD-ROM drive. The setup window should appear as shown in the figure. If the setup window does not appear automatically, run install.exe on the CD. Click "Install CE Navigator" to initialize the installation.



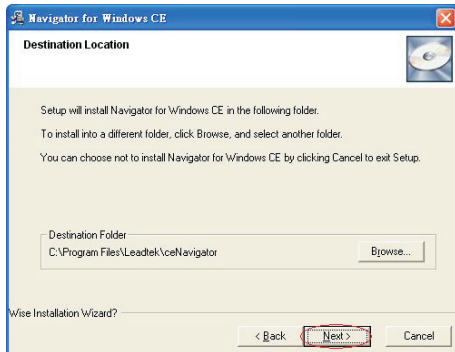
## Step 2

The setup program dialog box appears. Click "Next".



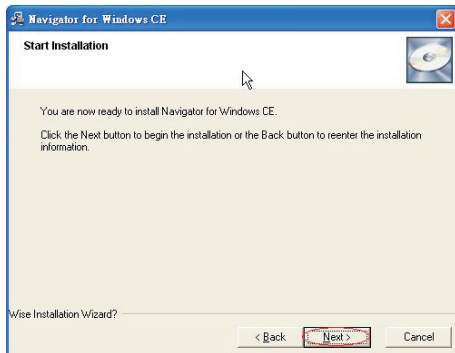
## Step 3

The dialog box for choosing the installation Destination Location appears. It gives the default destination folder location. If you wish to change the folder location, browse for a different location. If not, click "Next".



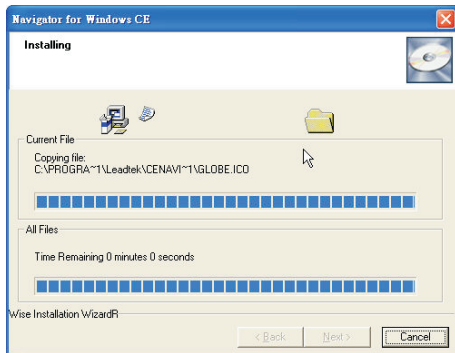
## Step 4

Now you have completed the setup for the installation. Click "Next" to start installing the Navigator.



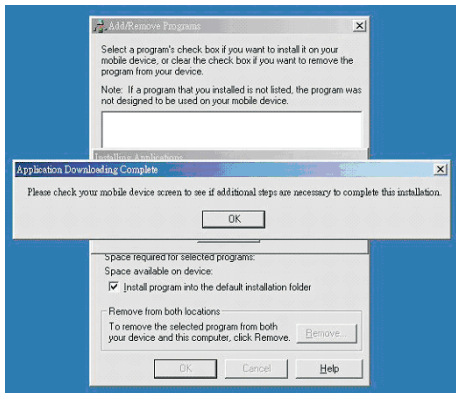
## Step 5

Installation is in progress.



## Step 6

When the installation is completed, a dialog box tells you to check your mobile device screen to see if additional steps are necessary to complete this installation. Click "OK".



# Testing Leadtek GPS 9537 BT Receiver

## Step 1

Before testing Leadtek GPS 9537 BT Receiver, please finish the installation of "Navigator" software on your Pocket PC. Please refer to the page 4 to install Navigator Software for Pocket PC. <Note>: **Actual Bluetooth connection steps may vary for different Pocket PC operating systems or Bluetooth drivers.**

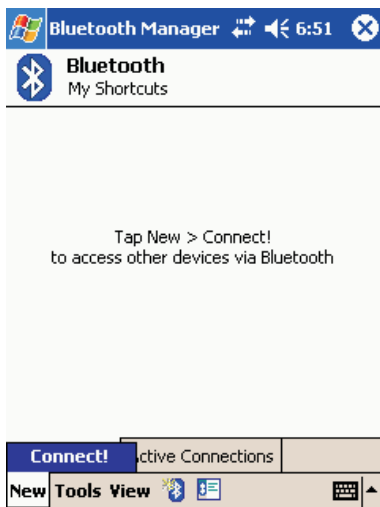
## Step 2

Testing steps are as below. Please do it step by step.

1. Select "Bluetooth Manager".



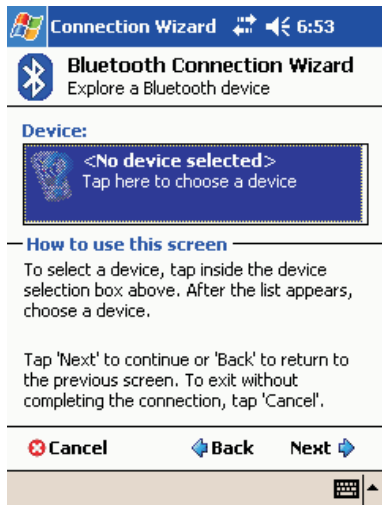
2. Select New and Connect! to add new device.



3. Select "Explore a Bluetooth device" and click "Next".

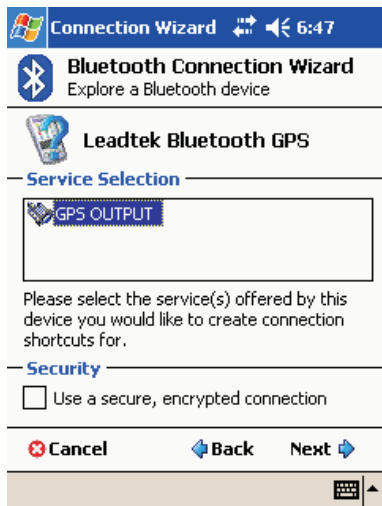
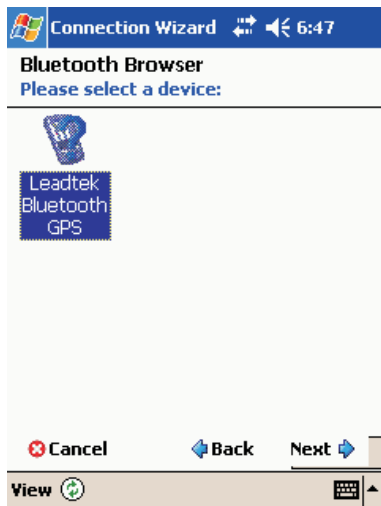


4. Choose "No device selected".



5. Select Bluetooth target device.

6. Then select the target service and click "Next".



7. Click "Finish".

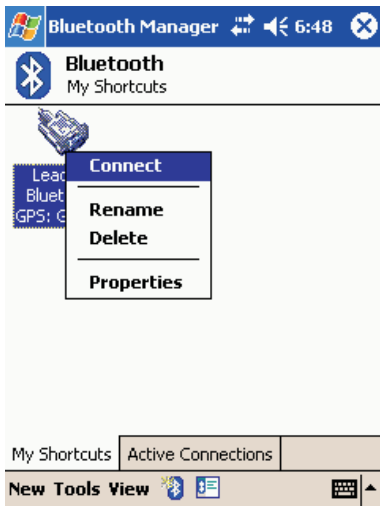


8. The shortcut will be shown on the screen, after setting.



### Step 3: Bluetooth's online mode

1. Select "Connect" to establish the link.
2. When the connection has been established, the application can open the device.



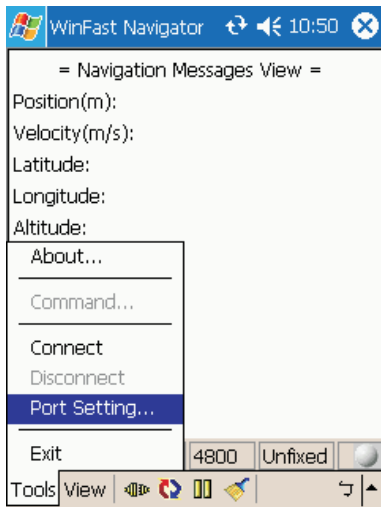
**Step 4:** Testing steps are as below.

1. Click "Navigator".

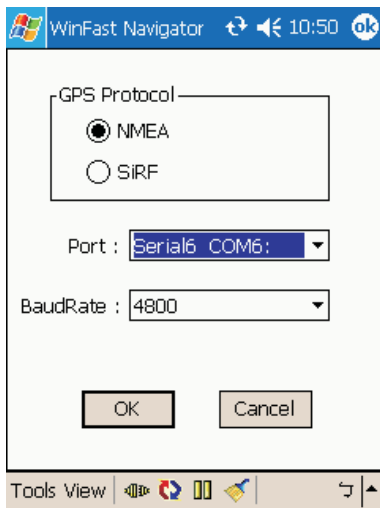


Please refer to the page 4 to install Navigator Software for Pocket PC.

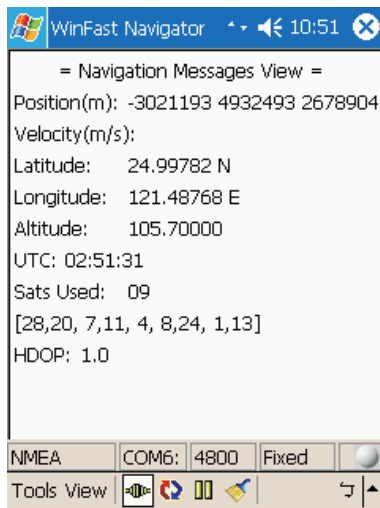
2. Enter the Navigator and then click "Port Setting".



3. To establish a Bluetooth serial output port after that, click "OK" to begin positioning.

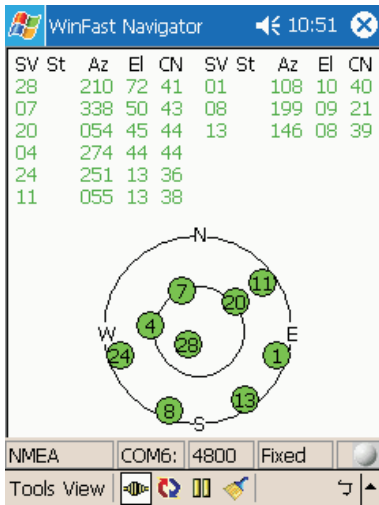


4. The Latitude Longitude and position fix status will be shown on screen.

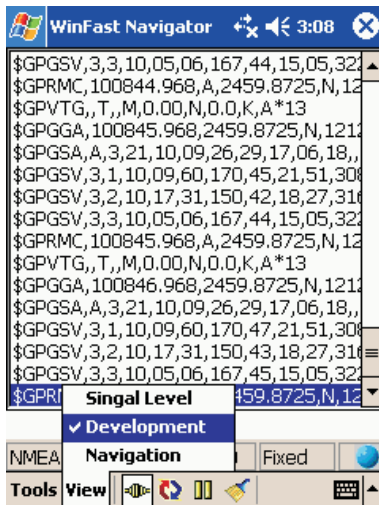


\*\*When the Bluetooth Manager is executed, the user can check COM Port configuration. Choose "Tool" , and then select "Setup all Devices". Then in "Serial Port" page, the user will see Outbound COM Port which will be used by application. In this example, the Bluetooth Port is COM 6.

5 : Click "View" then select "Singal Level", and you will see the satellites and CN ratio list. When GPS reception condition supports 2D or 3D navigation, the satellite icons will appear green. Meanwhile, the LED light on the Bluetooth GPS will appear green and flash too.



6. Click "View" and then select "Development", and the NMEA output messages from the GPS 9537 will be displayed on the screen.



PS : After using the software positioning of navigator, please remember to disconnect (click "Tools" → Disconnect) or exit to release the serial port so it can be used other navigation software.

## Appendix A. Limited Warranty

Leadtek warrants to the original purchaser of this product that it shall be free of defects resulting from workmanship or components for a period of one (1) year from the date of sale. Defects covered by this warranty shall be corrected either by repair or, at Leadtek's discretion by replacement. In the event of replacement, the replacement unit will be warranted for the remainder of the original one (1) year period or thirty (30) days, whichever is longer.

There are no other oral or written warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose.

This Limited Warranty is non-transferable and does not apply if the product has been damaged by negligence, accident, abuse, misuse, modification, misapplication, shipment to the manufacturer or service by someone other than the Leadtek transportation charges to Leadtek are not covered by this limited warranty. To be eligible for warranty service, a defective product must be sent to and received by Leadtek within fifteen (15) months of the date of sale and be accompanied with proof of purchase. Leadtek does not warrant that this product will meet your requirements; it is your sole responsibility to determine the suitability of this product for your purposes. Leadtek does not warrant the compatibility of this product with your computer or related peripherals, software.

Leadtek's sole obligation and liability under this warranty is limited to the repair or replacement of a defective product. The manufacturer shall not; in any event, be liable to the purchaser or any third party for any incidental or consequential damages or liability in tort relating to this product or resulting from its use or possession.

## **Appendix B. Cautions**

The GPS system is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. Although the GPS 15H & 15L Products are precision electronic Navigation AID (NAVAID), any NAVAID can be misused or misinterpreted, and therefore become unsafe. Use these products at your own risk. To reduce the risk, carefully review, and all aspects of these Technical Specifications before using the GPS 15H & 15L. When in actual use, carefully compare indications from the GPS to all available navigation sources including the information from other NAVAIDs, visual sightings, chart, etc. For safety, always resolve any discrepancies before continuing navigation.

## Class B

The GPS 15H & 15L products comply with part 15 of the FCC interference limits for class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 the equipment off and on, the user is encouraged to try correcting the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The GPS 15H & 15L products don't contain any user-serviceable parts. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under part 15 regulation

ITE is subdivided into two categories denoted class A ITE and class B ITE.

### **Class A ITE**

Class A ITE is a category of all other ITE which satisfies the Class A ITE limits but not the Class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

#### **Warning**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### **Class B ITE**

Class B ITE is a category of apparatus which satisfies the Class B ITE disturbance limits. Class B ITE is intended primarily for use in the domestic environment and may include:

- equipment with no fixed place of use; for example, portable equipment powered by built-in batteries;
- telecommunication terminal equipment powered by a telecommunication network;
- personal computers and auxiliary connected equipment.

## Appendix C. GPS FAQ

Q: Why does the GPS positioning fail, even though the satellite signal appears to be normal on my PDA?

A: The reason might be that the GPS has not been used for a while, and the GPS needs to be reset. You may follow the steps below to reset for positioning with "Cold Start" under "Navigator" application utility.

1. Tools → Port Setting → set the "Com Port" and "baud rate" to 4800 → click "OK".
2. Tools → Command → select "Cold Start" → click "OK".

Q: Why does the position of the car drift around on the map even when my PDA is properly positioned?

A: This might be caused by unstable satellite signal and weak signal resulting from locating in heavily blocked areas, which affect the positioning of the car onto the map.

Q: Why are there no sign of signal transmission in my map utility program and positioning fails even though my GPS is connected?

A: This might be caused by incorrect COM Port setting. Most of the PDA map utility programs search for GPS device, and the GPS device is not found in this case. It is suggested that you set the COM Port settings manually instead.

Q: Why is the GPS device not found by the PDA map utility program after positioning is completed by the "Navigator"?

A: "Navigator" is an application utility that users can use to test for GPS. After using "Navigator", you have to disconnect the GPS device in order to release the COM Port before proceeding with the positioning by your PDA map utility program. Otherwise, the COM Port will still be occupied by Navigator, and the PDA map utility program will not find the GPS device.

Q: Why can't I get the positioning to work with my GPS at home or areas by the windows?

A: GPS is really used for outdoor positioning navigation, and the satellite signal is difficult to be received at home. Especially, it takes a while to get the positioning to work for the very first time. Therefore, positioning must be done outdoors where satellite signal can be received.

Q: Why can't I install "Navigator" application utility on my PDA?

A: "Navigator" application utility can be installed directly on most of the PDAs. For those PDA models that have installation problems, you can search for a file called "Navigator.ARM.CAB" among the installation files. Copy this file to any folder on your PDA, and install "Navigator" application utility by clicking on the file directly.

Q: Under what circumstances do I have to perform "Cold Start"?

A: If the positioning usage time is longer than two weeks or the location of positioning is greater than 500 km away from the previous location of positioning, then you will need to perform "Cold Start".

**CODE: LR9537**  
**P/N: W0500936**

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### **GPS 9537**

### **Quick Installation Guide**

### **Version B**

**August 2004**