Bluetooth™ GPS with Navigation Software

Software User Manual (GBGPS201)

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Welcome

Thank you for purchasing the IOGEAR Bluetooth GPS System. This Bluetooth GPS unit is a real-time navigation system. The Bluetooth GPS receiver allows you to receive positioning data from satellites and deliver the data to mobile computing devices wirelessly via Bluetooth. It provides pinpoint accuracy and thoroughly reliable tracking capabilities. The ultra low-power design and long-life recharge-able battery gives you 25 hours of continuous usage and eliminates constant recharging between uses. It is portable and lightweight, so you can put it on the dashboard or any other location that provides a direct line of sight to the sky.

You will never get lost again!

System Requirement

Laptop/Desktop:

Windows ME/2000/XP
A minimum of 256MB system RAM and at least 512MB of free hard disk space
Must be Bluetooth-enabled and support serial port profile

PDA (Pocket PC):

Requires Microsoft Pocket PC 2002 or later
PDA must have at least 266 MHz processor with at least 64MB of free main memory
At least 64 MB storage card to load additional maps is recommended
Must be Bluetooth-enabled and support serial port profile

Software Features

- Turn-by-turn voice prompts help you to stay focused on the road
- Automatic rerouting help you to get to your destination even if you make a wrong turn
- Quickest, shortest, local, major, carpool route options
- Auto Maneuver guidance screen
- Real time map display
- Auto full screen
- Detailed map display w/ street names
- Automatic day and night color scheme

Software Features

- 3-D bird eye view
- Hot keys option for command shortcut through your PDA's buttons
- Special safety features include speed and fog alert
- Large Points of Interest (POI) database
- Favorite and recent destinations
- Easily accessible status box displays ETA, distance, and speed
- Record and playback track
- Demo mode gives you a driving simulation of your trip
- Navteq map database

Checklist

Before proceeding, please check the following:

- This guide assumes you already have Microsoft ActiveSync installed and configured to transfer data between your PDA and computer.

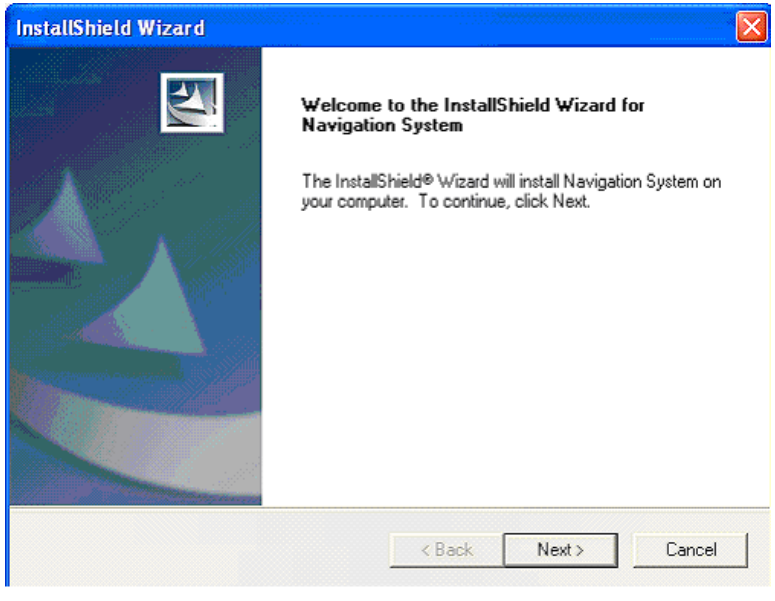
- Connect your PDA to the computer via its cradle or synchronization cable

Software Installation

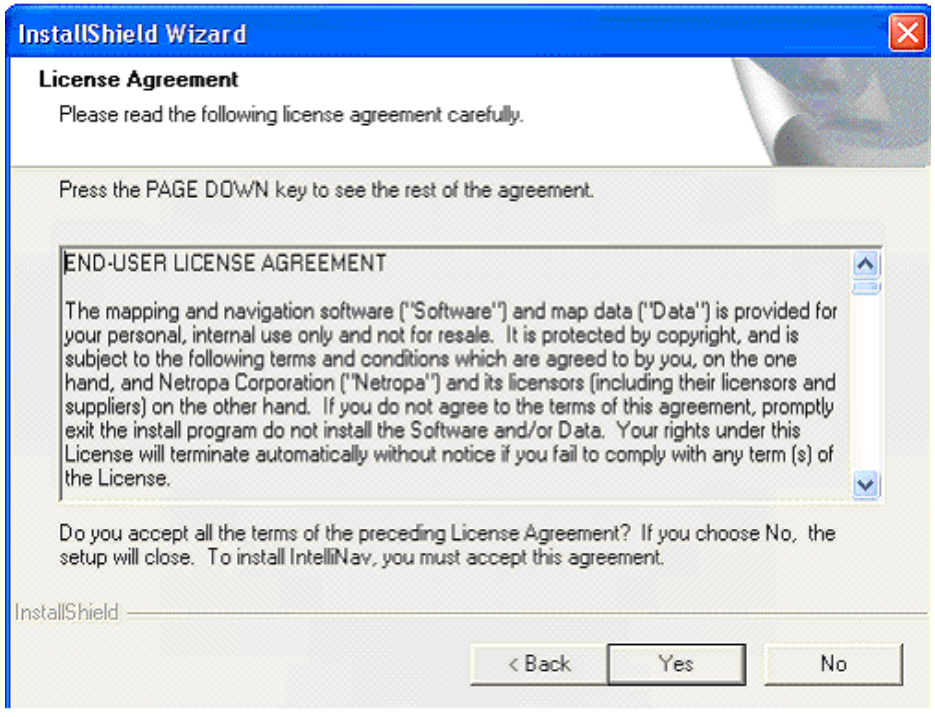
Install the Software

1. Insert the setup installation CD that came in the package. The CD will auto-start and begin the installation procedure.

2. The installation wizard will present you with the window below. Press Next to continue.

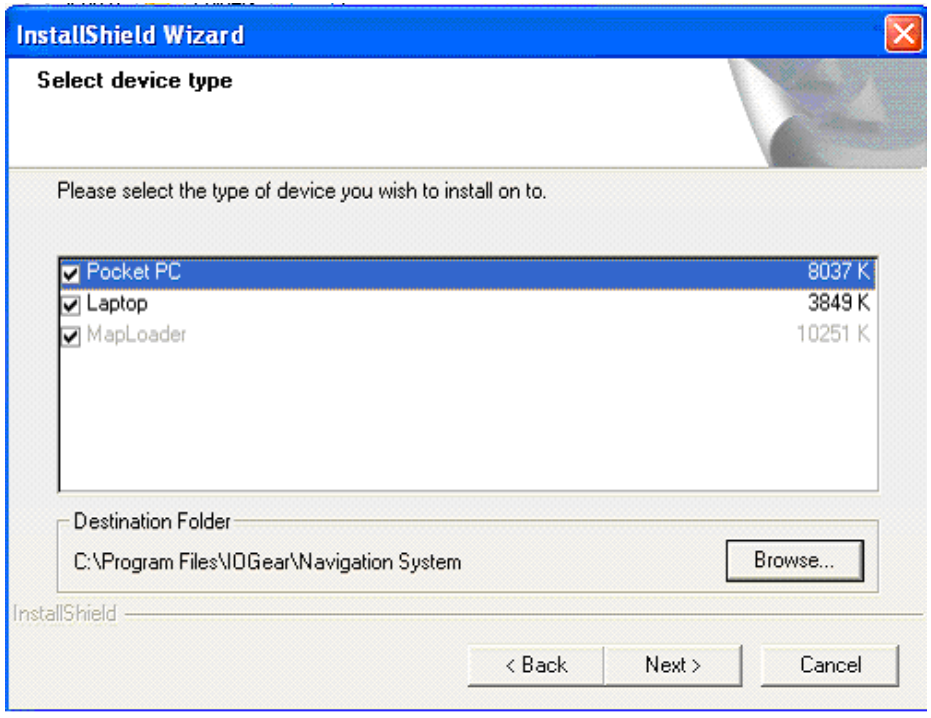


3. If you accept the license agreement, click Yes.

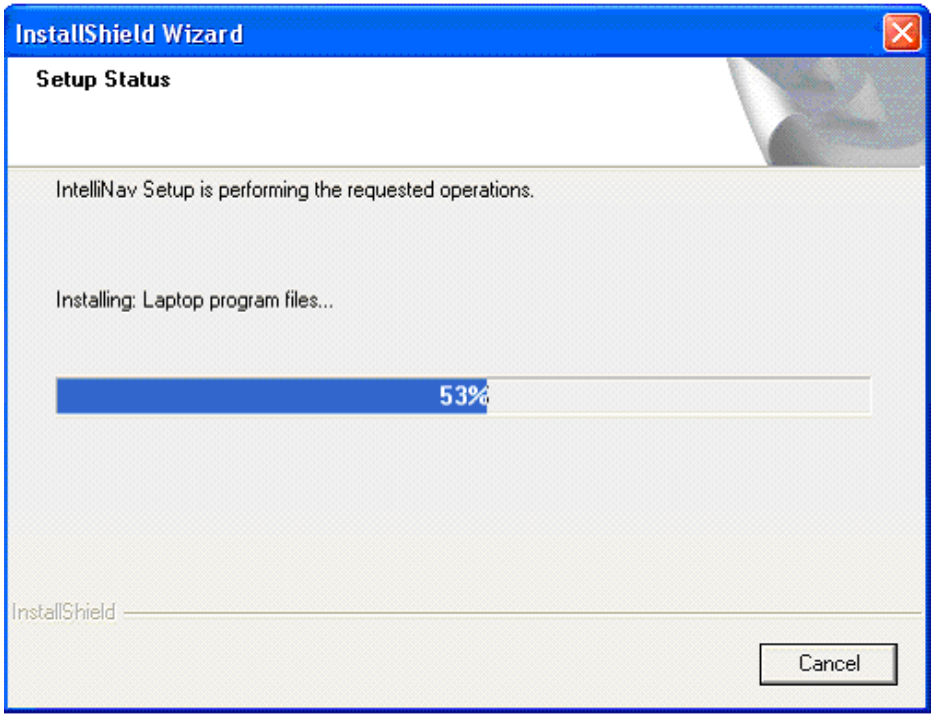


Software Installation

4. On the next window, you can select the version of the navigation software that you wish to install. Please make your selection below, then click Next.

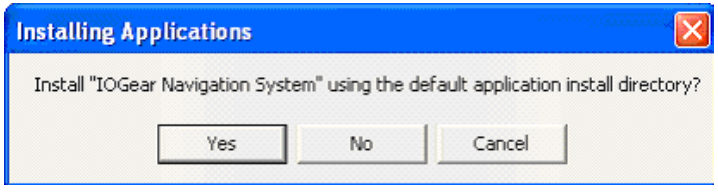


5. Wait a few moments as the installation files are transferred to your computer.

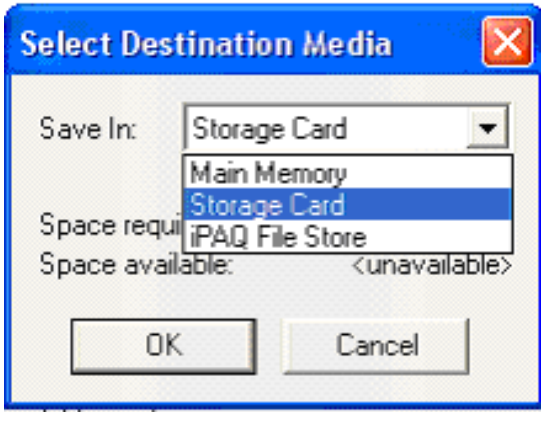


Software Installation

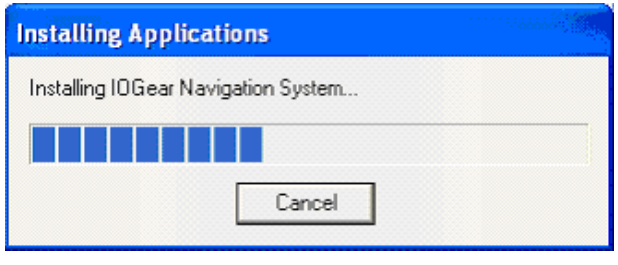
6. If you checked the “Pocket PC” box, you will get a prompt similar to the image below. If you wish to install the program in your PDAs main memory, click Yes.



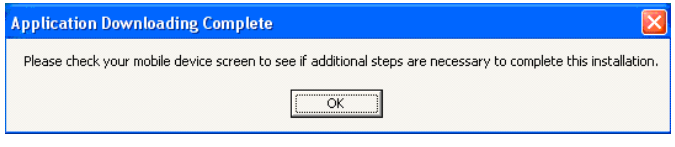
However, if you wish to install the navigation software in an alternate location, click No. You will then be presented with a window where you can specify where to install the program files. Make your selection and then click OK.



7. The software will prepare the files to be installed on your PDA.

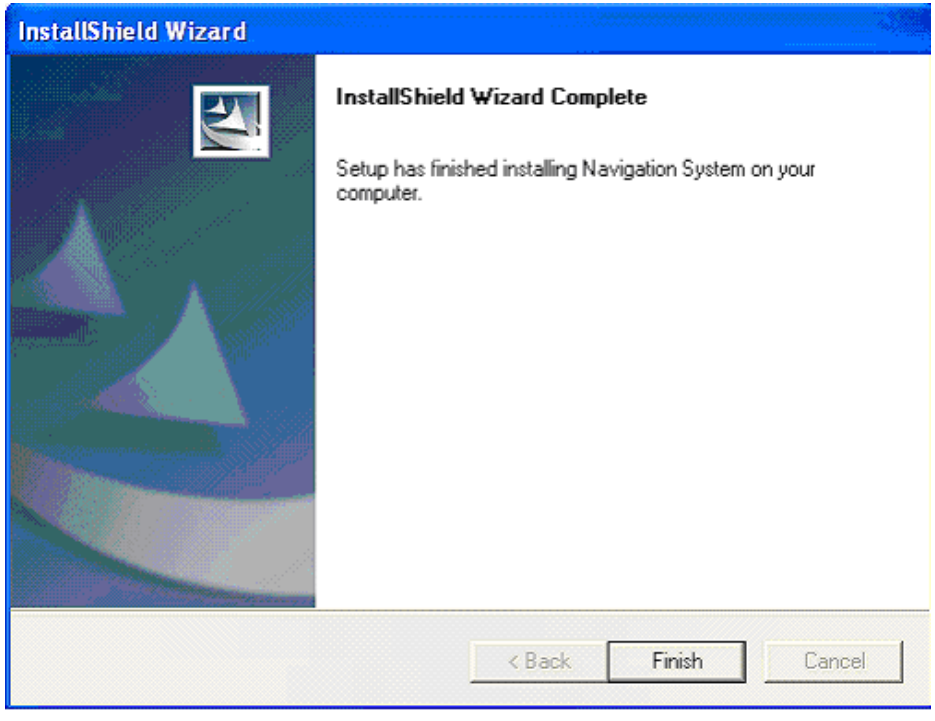


8. Check your PDA for additional steps to complete program installation.



Software Installation

9. Click Finish to complete the installation and proceed to the next section.



Loading Maps

1. Once you have loaded the map software, you can select the maps that you wish to install on your device. There are two methods to install your maps – by region, or by city. If you have less than 64MB of storage, it is recommended to install maps “By City.” However, if you have sufficient storage space, you can install your maps using the option By Region.

If you look on the right-hand side, you can select the Target Location where you want to load the maps (on your PDA or computer). You can also see here the available storage space of your selected location, and the size in megabytes of your selected maps.

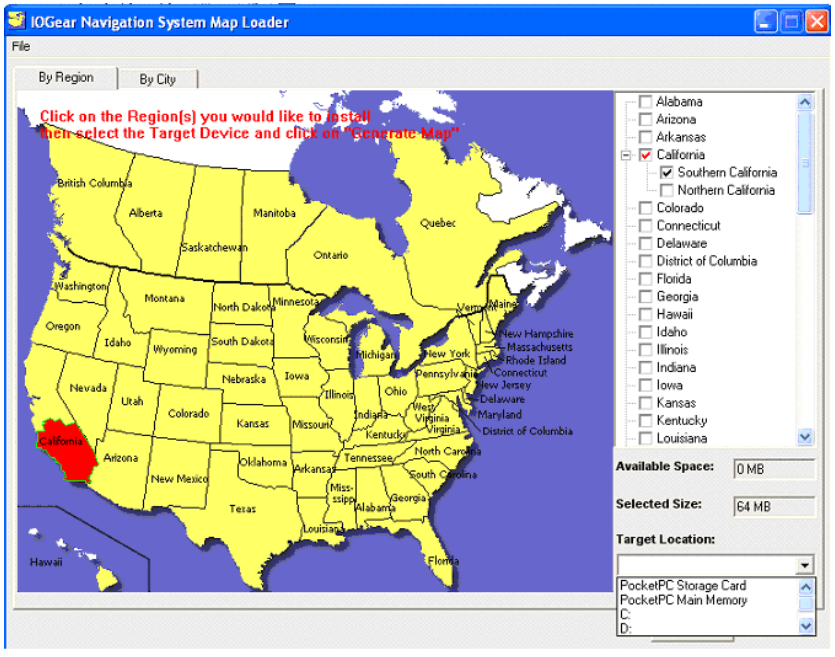
Note: When you select the map areas to install, the navigation software builds a map joining all these areas together. If you wish to add more areas at a later time, the navigation software will need to reconstruct the entire map; therefore, you need to select all your previous maps, plus the one you are adding.

Method 1 - By Region:

Loading Maps

Using this option you can install maps for an entire state. If the state of your choice has a “+” sign next to it, it means that you can choose to install only portions of that state (as illustrated by the image below). To load the entire state map, simply make sure that any boxes below the “+” sign are checked.

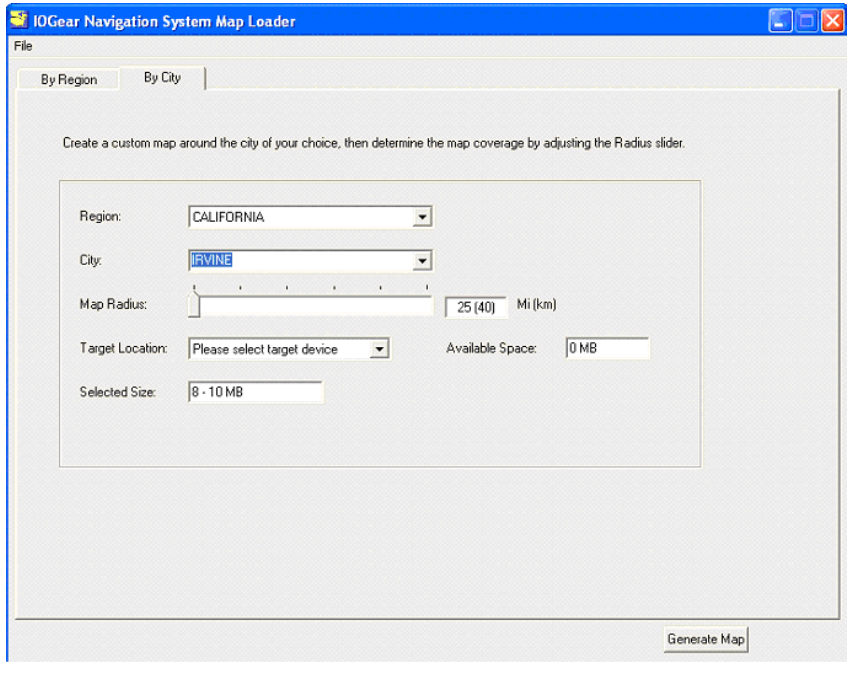
Once you have selected all desired maps, click on “Generate Map” to begin map installation.



Method 2 - By City:

First select a Region (state) for your desired map. Next select the city, and the map radius in which you plan to use the GPS system.

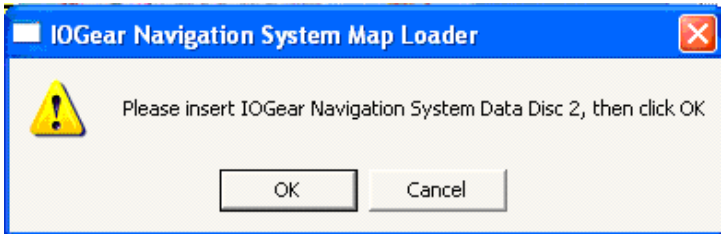
Under Target Location, specify where you want to load the maps. When you're ready to being map installation, click on "Generate Map."



Loading Maps

2. The installation software will now begin installing your maps.

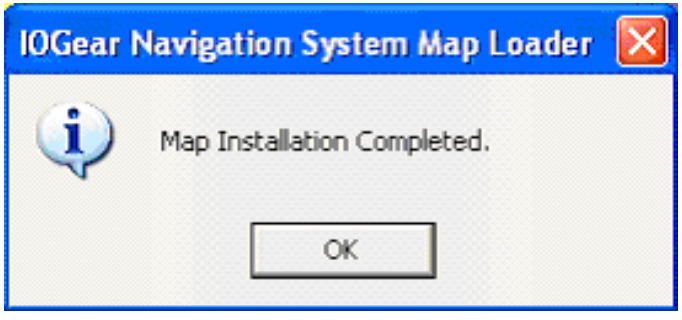
3. Depending on your selections, you may be prompted to insert the CD where your map data is located. Please do so and click OK to continue.



Note: Please be patient as map installation may take up to 30 minutes, depending on the size of the maps being loaded.

Loading Maps

4. Once installation is completed, you will see a window like this:



Configure Software to Use with GPS Unit

Checklist

Before proceeding, please check the following:

- Bluetooth unit is ON and has an unobstructed view to the sky
- Your Computer/PDA has established a
- Make sure you have installed the Navigation software on your device
- Make sure you have installed all your desired maps

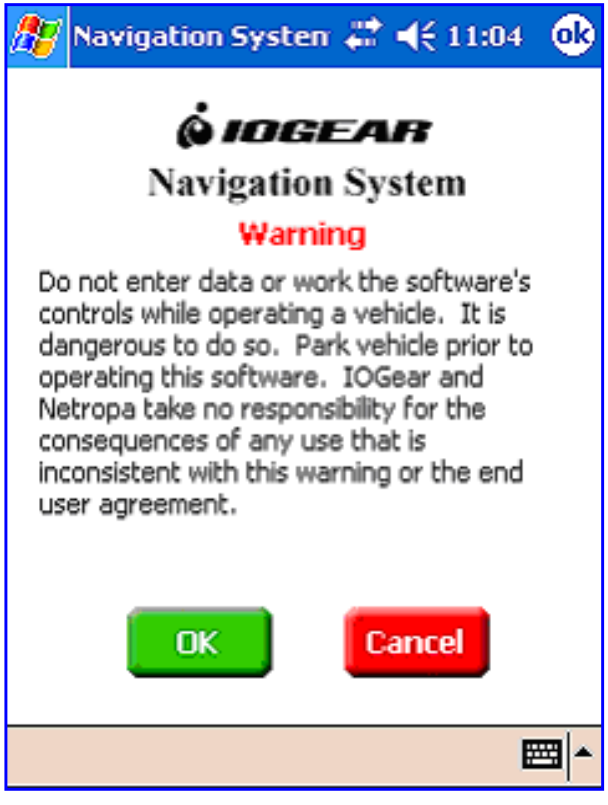
Configure Software to Use with GPS Unit

1. Establish a Bluetooth Serial port connection between your Computer/ PDA and your Bluetooth GPS unit, as described in the “Hardware Quick Start Guide.” If you do not carry out this step, the software will not be able to find the GPS unit.

2. Go to your programs folder on your PDA and tap on the map icon located there to load the navigation software.

Configure Software to Use with GPS Unit

3. At start-up, you will be presented with a warning message on steps to follow to ensure your security while using your GPS equipment. Simply click OK to continue.



Configure Software to Use with GPS Unit

4. If you have already established GPS position, the map will display your current location. Otherwise, it will display the last known location.

Configure Software to Use with GPS Unit

The icons you see on the screen allow you to quickly change the most used settings for your navigation software.

Allows you to turn volume on/off.

Allows you to enter a destination, change to map view, change route/ display options, set speed alert, record track information, adjust volume, and view GPS Info.

View GPS Info

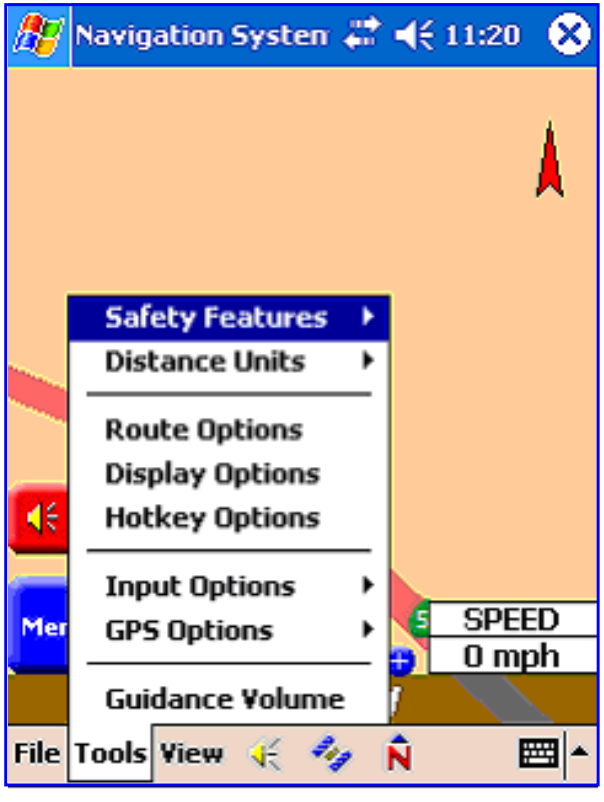
Change your orientation

Configure Software to Use with GPS Unit

At the bottom of the screen, there are three menu options: **File, Tools, and Menu**. For a detailed explanation and discussion of these menus, please go to page 48.

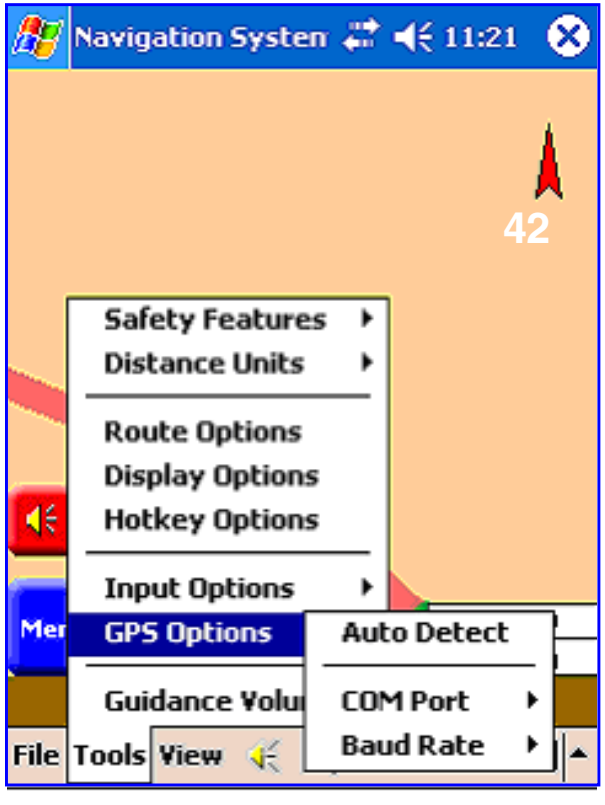
Configure Software to Use with GPS Unit

5. The first thing we want to do is configure the navigation software to detect the Bluetooth GPS unit. To do this, click on Tools and go down to GPS Options.



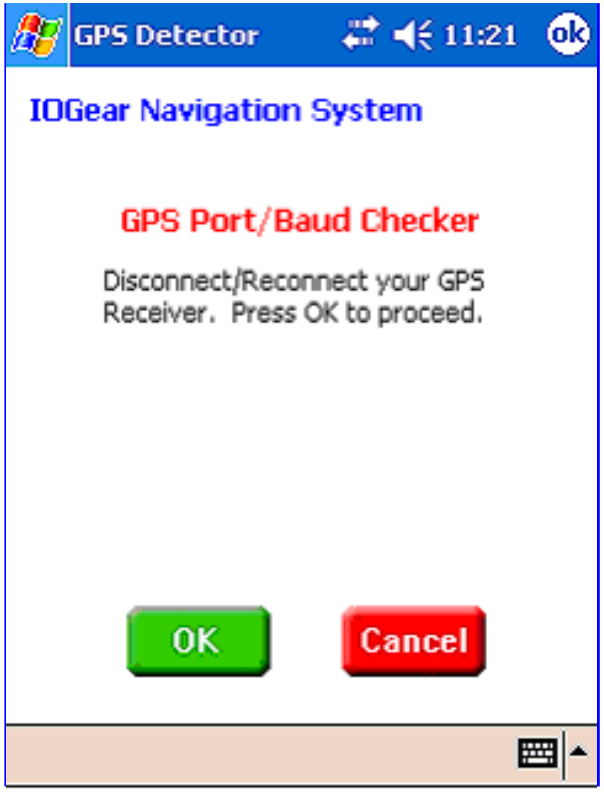
Configure Software to Use with GPS Unit

6. Now, select Auto Detect.



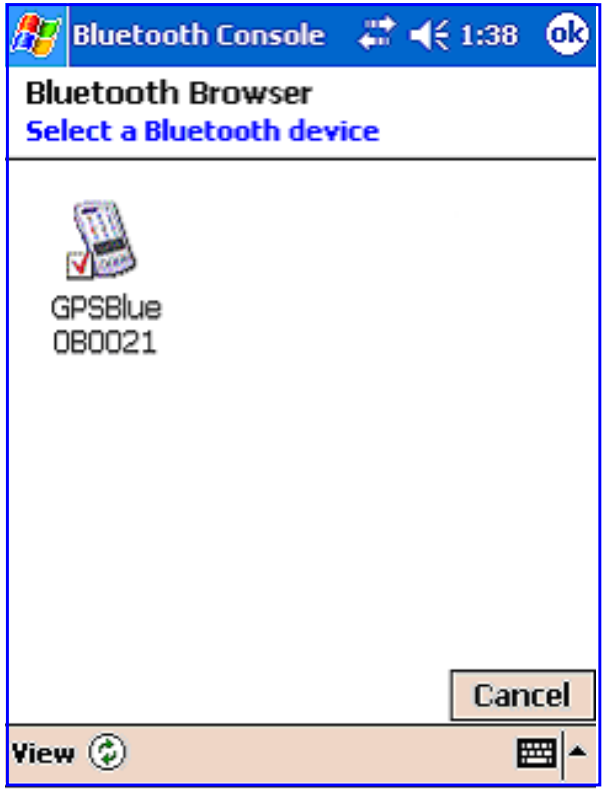
Configure Software to Use with GPS Unit

7. The navigation software will begin detection of your GPS unit. Simply click OK to being scanning.



Configure Software to Use with GPS Unit

8. At this point, if your PDA has not established a connection with your Bluetooth GPS, you may get a window displaying all the Bluetooth devices in your range. If so, please select the Bluetooth GPS and click OK. However, if after several attempts the navigation software cannot find your GPS, please make sure that you have followed the procedure indicated on the *Hardware Quick Start Guide* to establish a Serial port connection between your device and the GPS unit.



Configure Software to Use with GPS Unit

You may also be prompted to enter a Passkey or PIN Code. If so, please enter “0000” (four zeroes), and then click OK.

Configure Software to Use with GPS Unit

9. Once the software has detected your GPS, you simply have to click OK to confirm the settings.

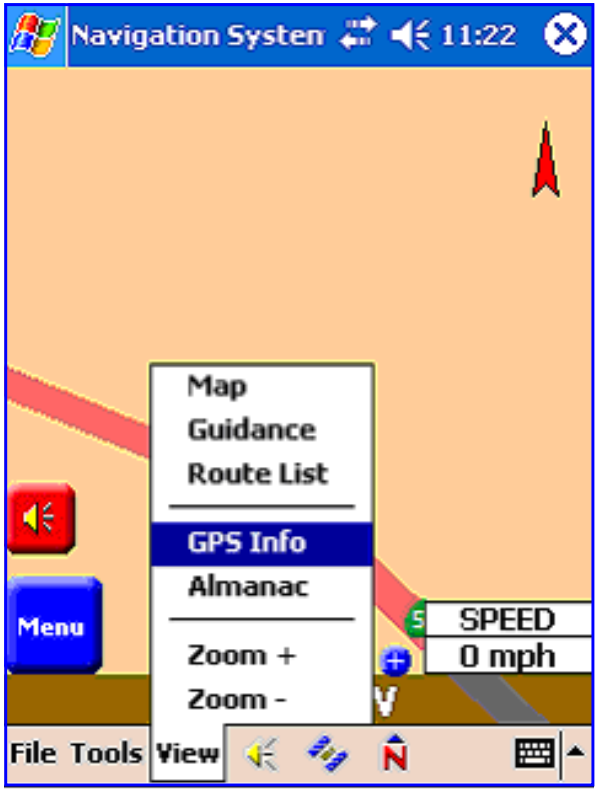
Configure Software to Use with GPS Unit

Configure Software to Use with GPS Unit

10. Once you have established connection to the GPS unit, you will be taken to the map view. Please proceed to the next section “Verify GPS Satellite Connection.”

Verify GPS Satellite Connection

1. The next step is to verify that the GPS has established its position. To do this, click on View > GPS Info.

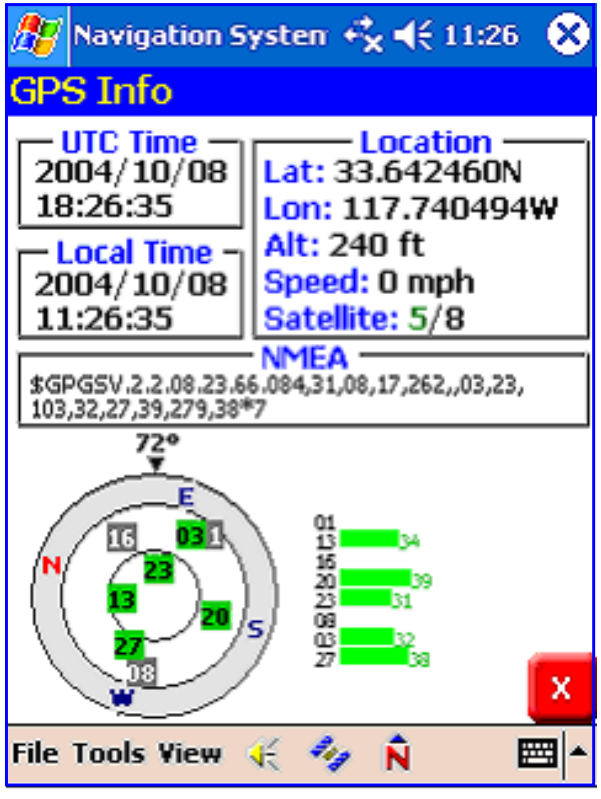


Verify GPS Satellite Connection

2. If the GPS unit has established its position, you will see something similar to the window below. The green bars indicate the satellites to which the GPS unit is linked to. The red bars indicate that a link to that particular satellite has not been established. In order to use the GPS, you need to be connected to at least three (3) satellites.

   GPS Position Established:

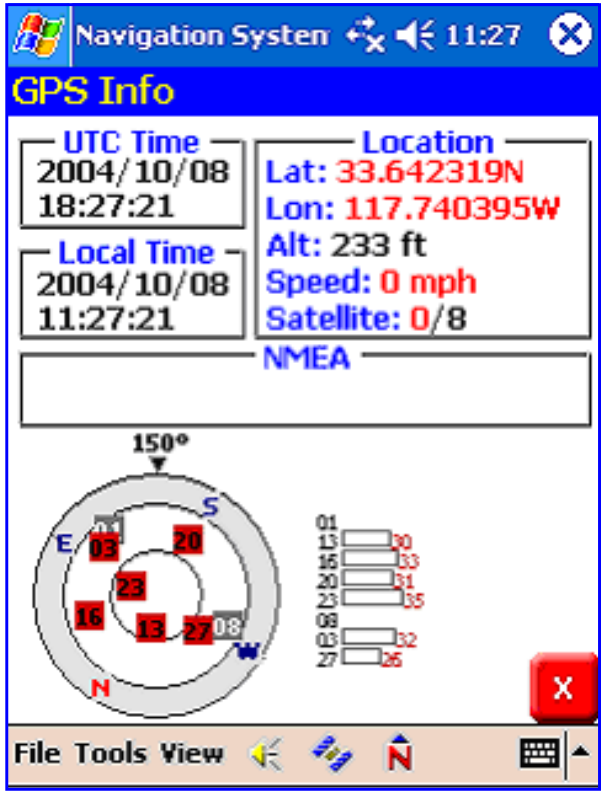
   In this case, you can see that the GPS is connected to 5 out of 8 satellites:



Verify GPS Satellite Connection

GPS Position Unknown:

In this case, you can see that the GPS unit has not established its GPS position and is not linked to any satellites (indicated by the red bars).



Verify GPS Satellite Connection

If your GPS unit has problems linking to satellites, please try the following:

- Move the GPS away from any tall buildings/structures

- Move GPS away from any object that can interfere with wireless signals

- Place the GPS in a location where it has a clear view to the sky (preferably outdoors)

Map View

IntelliNav
4:46
ALTON PKY
1.1 mi
ENTERPRISE
405
RESEARCH DR
BUNSEN
IRVINE CENTER DR
COUNTRY DR
Menu
1000 ft
DEST
47 mi
IRVINE CENTER DR
File Tools View
Turn to make
Next Street
Distance until destination
Current location

Shortcut Icons

As you can see on the image above, there are a number of shortcut icons on your screen that allow you to easily access the most common tasks associated with your navigation software. To access all the features of the software, click on the **File, Tools, and View** menu on the bottom of the screen (explained later in the manual).

In the section below we will briefly explain what each of these functions are and explain their use.

Allows you to turn ON/OFF the sound for the navigation system

View GPS status information

Change map orientation

GPS Status Icons

These icons are displayed on the map area and represent the following:

GPS Status: Linked to satellites

GPS Status: Attempting reconnection

GPS Status: Not linked to sufficient satellites

Map Option

These icons allow you to do the following:

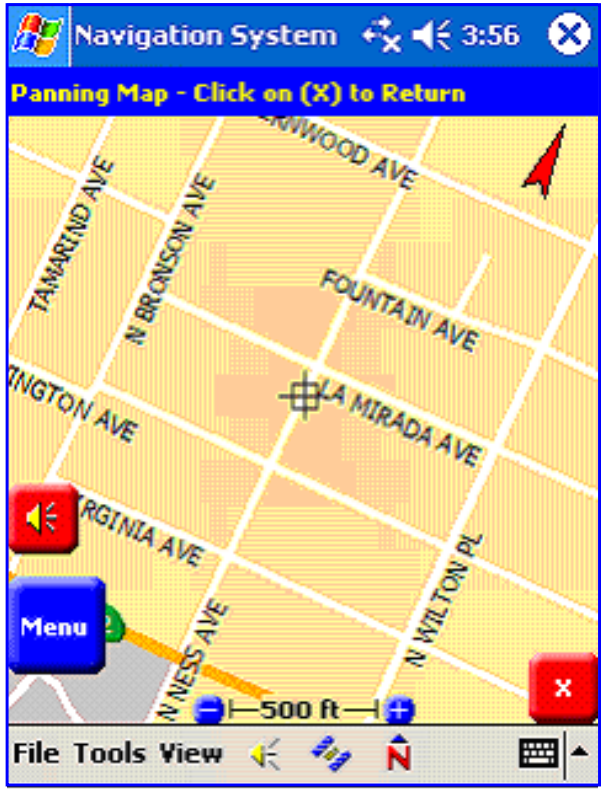
Displays the surrounding area of selected *destination* on the map

Displays your *current position* on the map

To set an address as a Favorite, click on this button

Panning Map

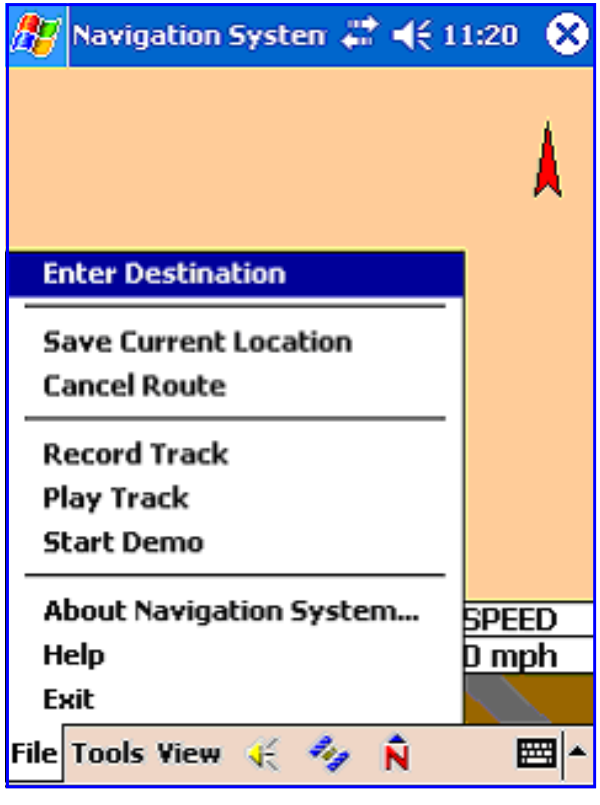
If you wish to see the surrounding areas of your current location on the map, use the panning feature. To do this, tap on the PDA screen and hold down the stylus on your map and move it along the direction that you would like to see and then release the stylus. The map will then focus on that location. To exit this mode and go back to your current position, click on the red X located on the bottom right-hand corner.



Menu

Tapping on the menu icon will take you to the main menu shown below

Part I - File Menu

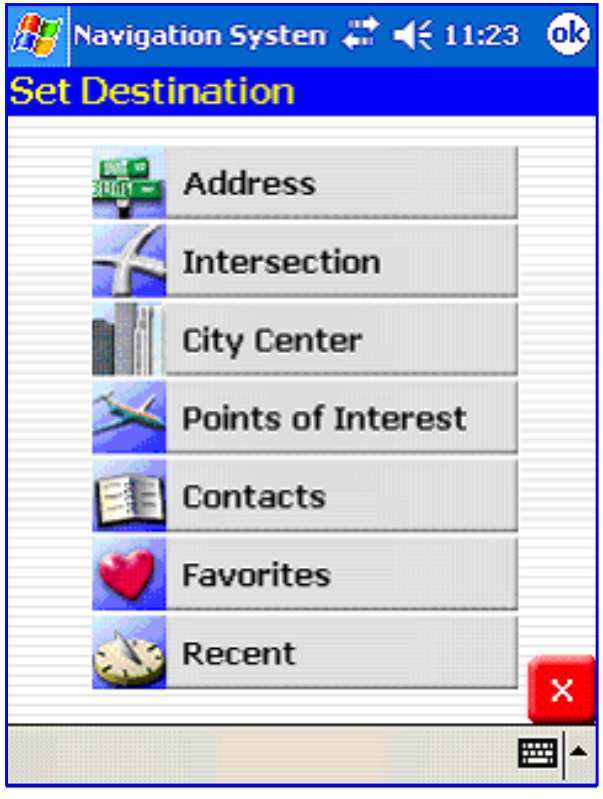


File Menu

1. ENTER DESTINATION
(File Menu ➔ Enter Destination)

This menu option allows you to set a location and provides you block-to-block directions. As you see from the menu below, there are several ways to set a destination.

We will provide a few examples below for your reference. If you still need assistance, please use the help menu in the navigation software by going to File ➔ Help.



A. Set Destination - Address

When you select the Address option, you are presented with the two choices below:

Street First – Using this option will typically yield more search results but is very helpful if you're having trouble finding a specific address

City First – This option is very useful because it narrows down search results to the city that you specify

Part I - File Menu

Street First
Enter the name of the street and then click the green OK button.

Part I - File Menu

Now enter the house number of your destination, making note of the valid range displayed. Next, click the green OK button to proceed. **Note: If your address falls outside of the range displayed, you probably do not have the map required for that area. This could be the case if you loaded your maps using the option "by city." If that is the case, please load a larger radius area for your map, or select the option "by region" when loading your map.**

The navigation software will now display a list of the matching addresses. As mentioned earlier, using the “street first” option will typically yield several matching addresses. Select your address, and then click OK on the top right-hand corner.

Part I - File Menu

City First
Enter the name of the city and then click the green OK button.

Now, enter the name of the street and then click OK

Part I - File Menu

Enter house number, making note of the specified range.

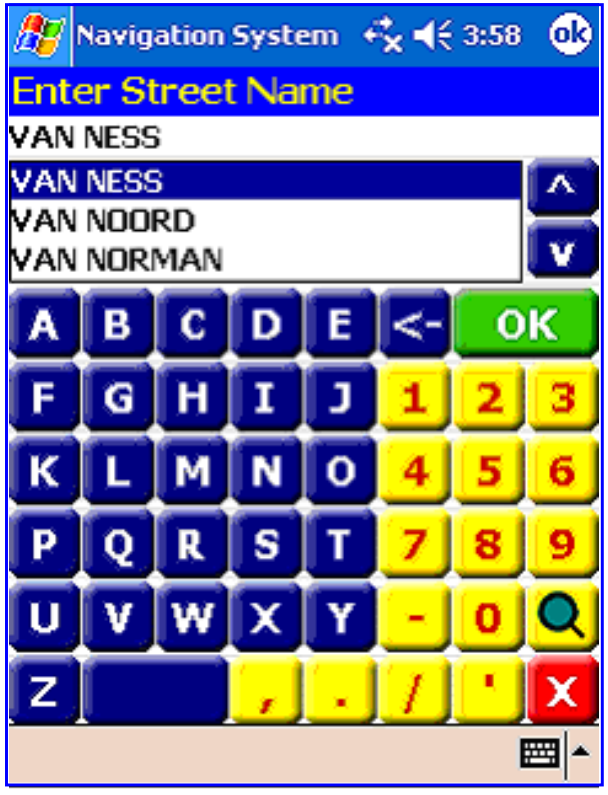
The navigation software will display the matching addresses found. As you can see below, using the “city first” option helped to narrow down search results. Select desired address, and click OK on the top right-hand corner.

B. Set Destination - Intersection

Using this option, you can enter the names of two intersecting streets as your destination

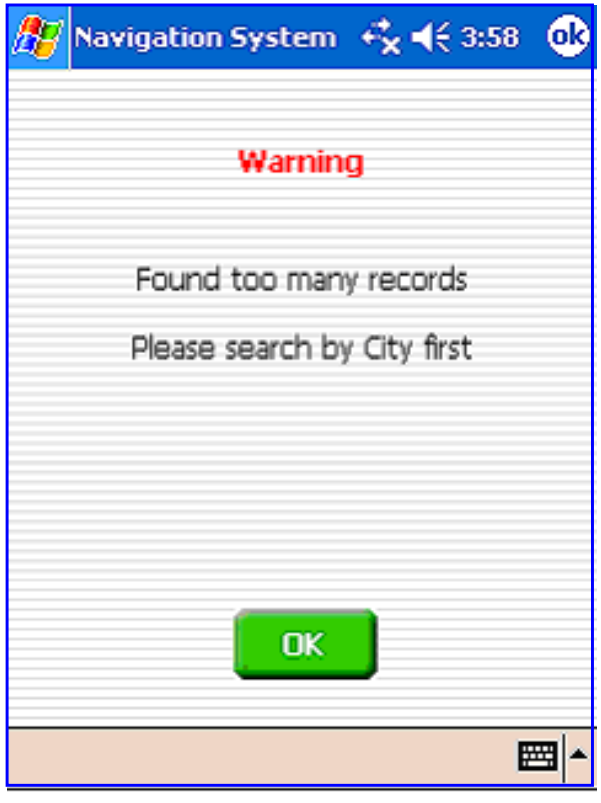
Street First
It is not suggested to select this option for an intersection because most of the time it will yield too many results. However, if you only loaded a small map section on your device, you will not encounter this problem.

Enter the name of the first street and then click OK



Part I - File Menu

As you see, there were too many matching records. Click OK to try the city first option.



City First
Enter the name of the city and then click OK

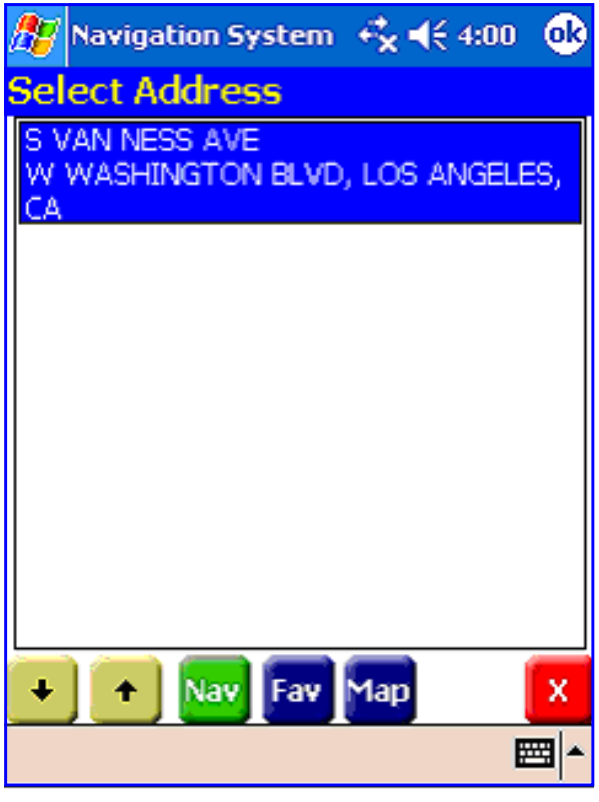
Part I - File Menu

Enter the name of the first street and then click OK

Enter the name of the second street and then click OK

Part I - File Menu

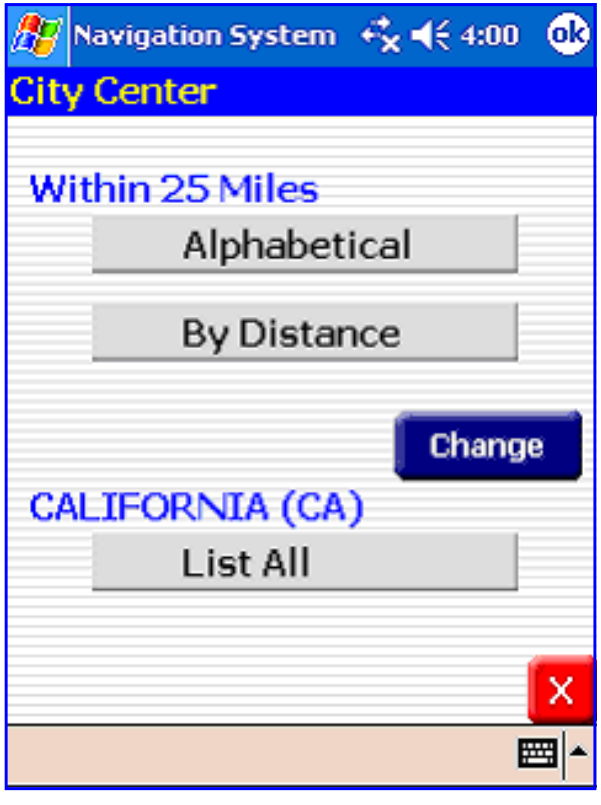
In this case, the navigation software did find a matching for that intersection, and using the “city first” option helped us to narrow down the search results to only one matching record. Simply click OK on the top right-hand corner to display the map.



C. Set Destination – City Center

This will find the center of your city.

As an example, we will choose the Alphabetical option.



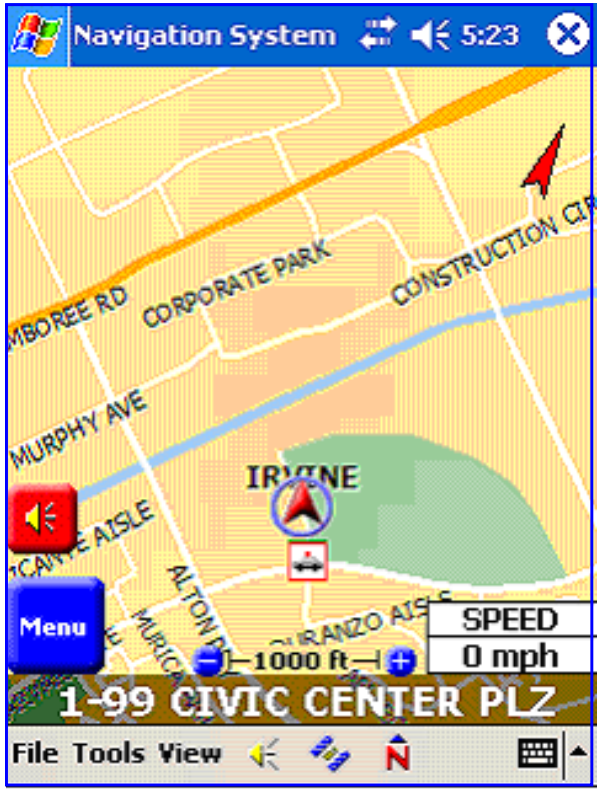
Part I - File Menu

Enter the name of your city and then click OK.

Now, click on the OK button on top right-hand corner. If you click on Nav on the bottom, the navigation software will show you a map of the destination.

Part I - File Menu

Here is a map of the city center found in Irvine, CA.



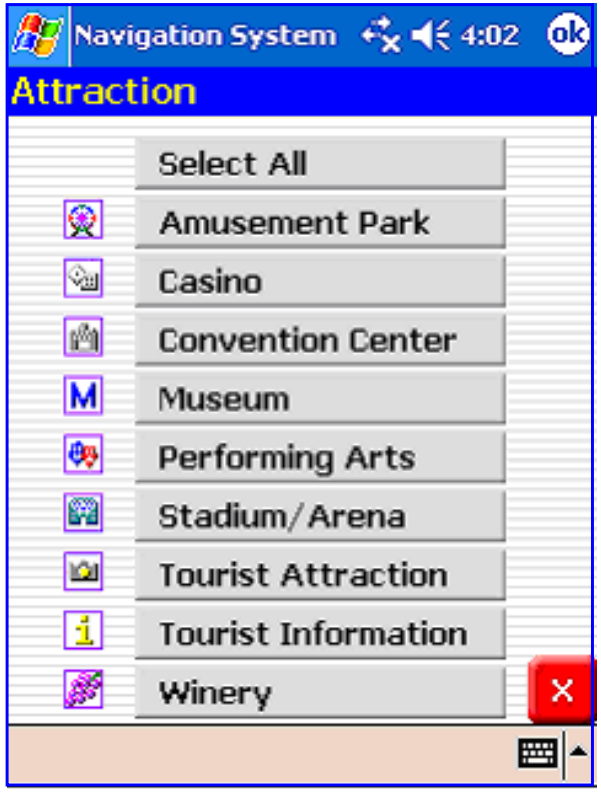
D. Set Destination – Points of Interest

The navigation software has a very useful feature called Points of Interest (POI for short). As you can see from the image below, these POIs are classified into categories for easy access.

As an example, we will select Attraction.

Part I - File Menu

Under attraction, we find the subcategories listed below. We will choose Amusement Park for our example.



Make your selection from the list below. Let's select Alphabetical to see all the amusement parks close to our area.

Part I - File Menu

From the list below, make your selection, and then click OK.

To display the map of your POI, click OK on the top right-hand corner. Alternatively, you can click the Nav or Map icon on the bottom of the screen.

E. Set Destination – Contacts
You can also set a destination from someone in your contact book for whom you have entered an address. **Please note that the address of the contact needs to be in a proper format in order for this feature to work. For assistance on this, please consult your PDA manual/ user documentation.**

Also, if your contact book is empty, you will get an empty window like below when you click on this.

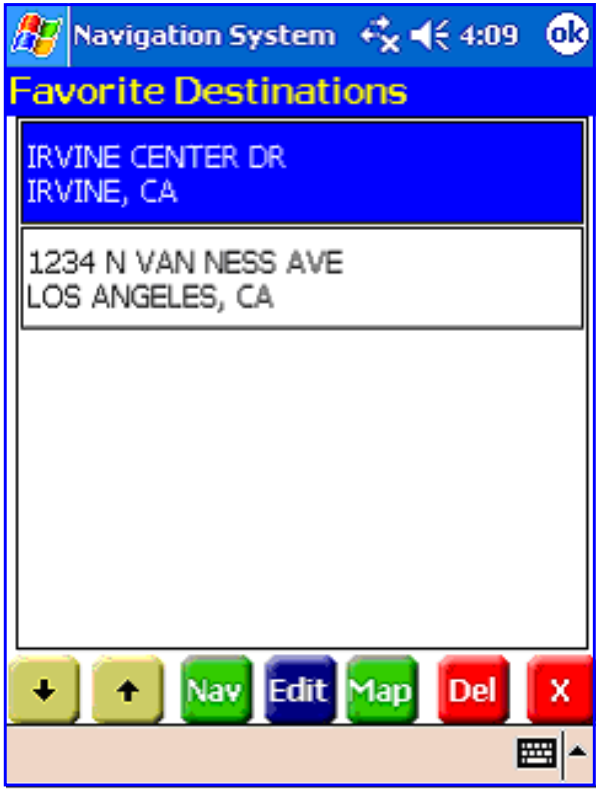
If you do have someone in your contact book, their information will be displayed. Please make your selection and then click OK.

Part I - File Menu

Click on your contact to display their address.

F. Set Destination – Favorites

To select a destination that you have previously entered as a Favorite Destination, click on this selection. Make your selection from the list and click on Nav or Map icon on the bottom. **Note: You can edit, or delete an entry from this window by clicking the Edit or Del icon, respectively.**



Part I - File Menu

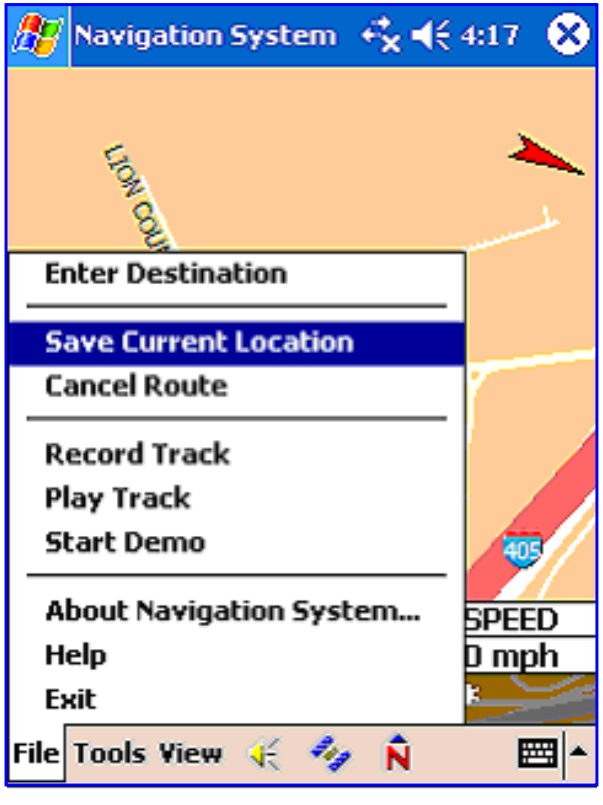
G. Set Destination - Recent

All your recent destinations that you have used are stored in this place. If you wish to set one of them as your destination, simply select them from the list below and then click Nav or Map icon on the bottom to display map.

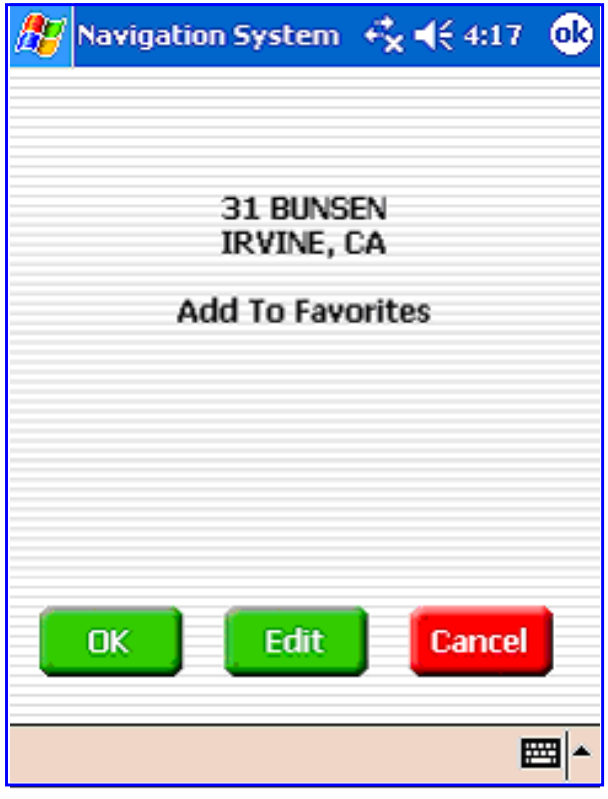
2. SAVE CURRENT LOCATION

(File ➔ Save Current Location)

Allows you to save your current location on the map. This location will be saved in your Favorites folder.



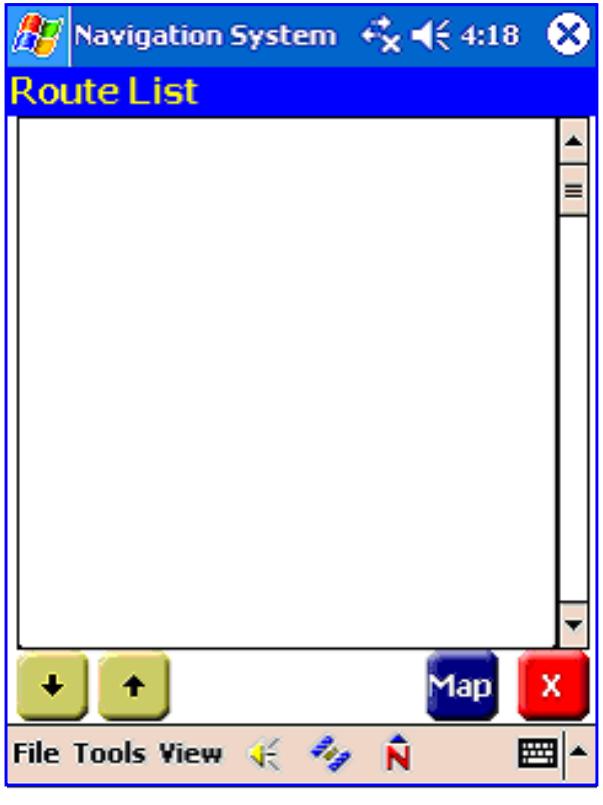
Part I - File Menu



3. CANCEL ROUTE
(File ➔ Cancel Route)

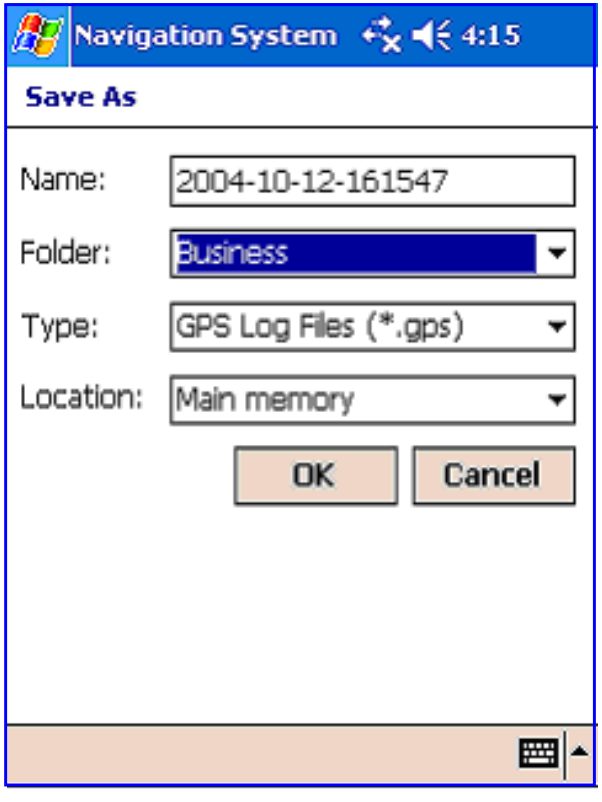
Use this to cancel a route that you have entered

Tip: To verify that the route was cleared, you can click on View ➔ Route List, which should show an empty window like this:



4. **RECORD TRACK**
(File ➔ Record Track)

To record your trip, click on record track, which will display the window below. Enter the requested information and then click OK to begin recording.

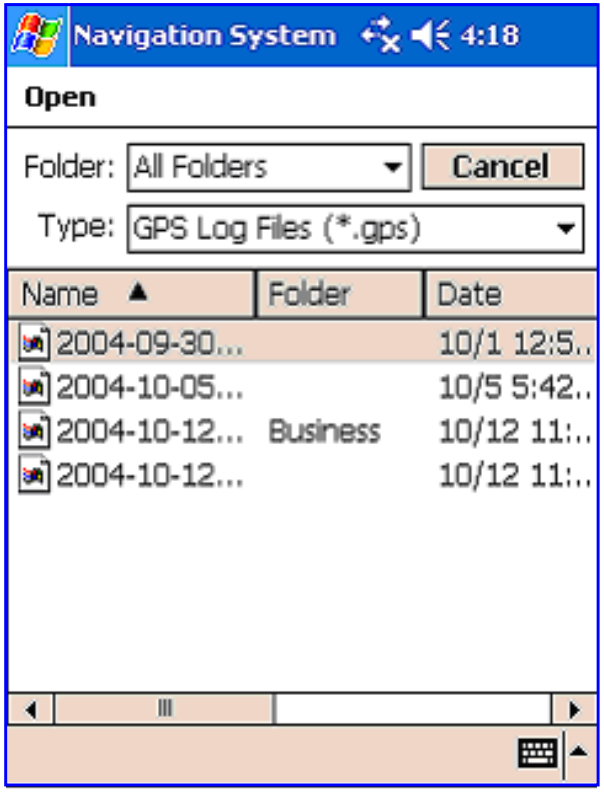


5. PLAY TRACK

(File ➔ Play Track)

Playback a previously recorded track

To playback a previously recorded track, click on play track and select the file you wish to playback. Tip: To stop playing the track, click on File ➔ Stop Track.



6. START DEMO
(File ➔ Start Demo)

One of the most useful features of the navigation software is the Demo feature, which allows you to view a demo of your actual route for the specified destination. This is very useful in case you need to adjust/ change settings on your PDA as you can comfortably do so before you begin driving.

Tip: If you tap on Start Demo and nothing happens, please keep in mind that you first need to specify a destination.

7. ABOUT NAVIGATION SYSTEM

(File ➔ About Navigation system)

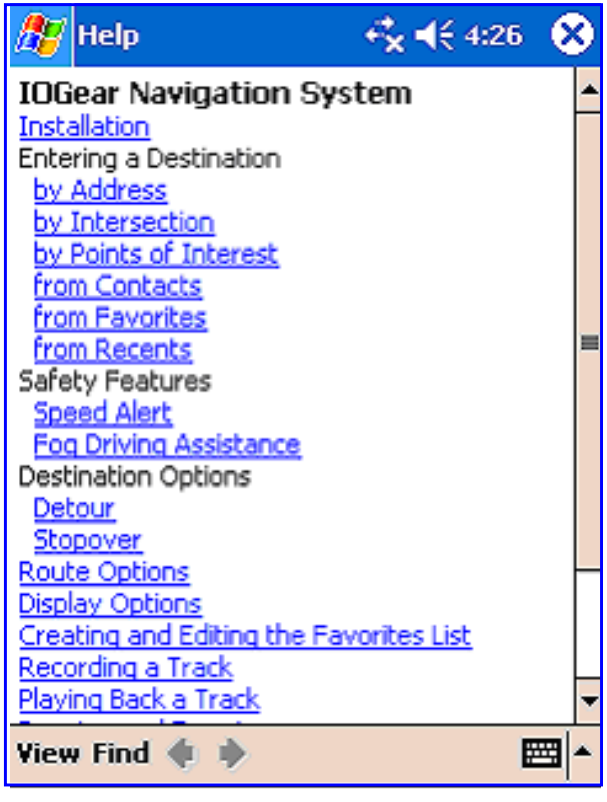
Displays map software information window

Part I - File Menu

8. Help
(File ➔ Help)

Displays the built-in help content of the navigation software.

This is a very useful feature if you need a quick explanation on how to perform certain tasks in the navigation software.



9. Exit
(File ➔ Exit)

Quits the program and unloads it from your PDA's memory

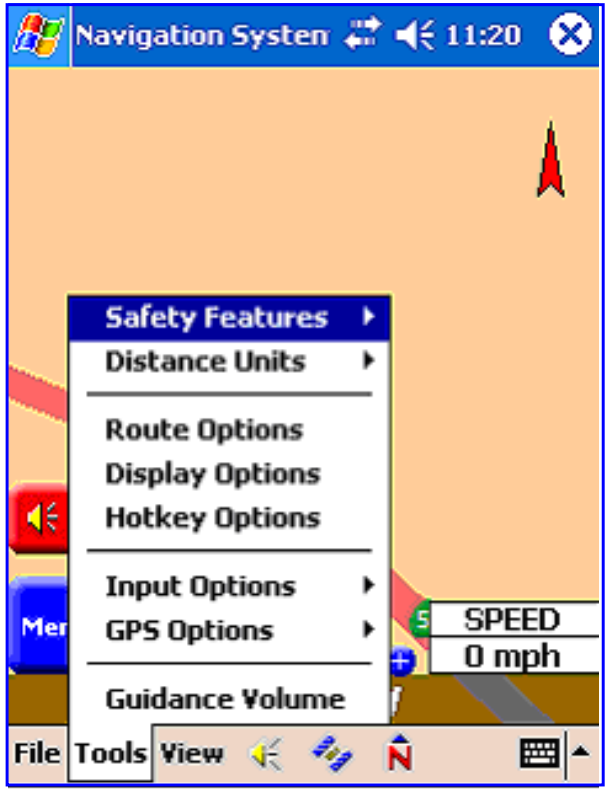
Part II - Tools Menu

TOOLS MENU

1. SAFETY FEATURES

(Tools ➔ Safety Features)

Help you make your driving safer.



A. Speed Alert

If you wish to receive a sound alert when you reach a certain speed limit, enable speed alert. If you set it to Auto, the navigation software determines the speed limit based on the type of road you are in (street, freeway, etc.). However, this alert is only provided for your convenience and is not guaranteed to be accurate. We advise you to obey all speed limits, traffic laws and always use good judgment when using this feature.

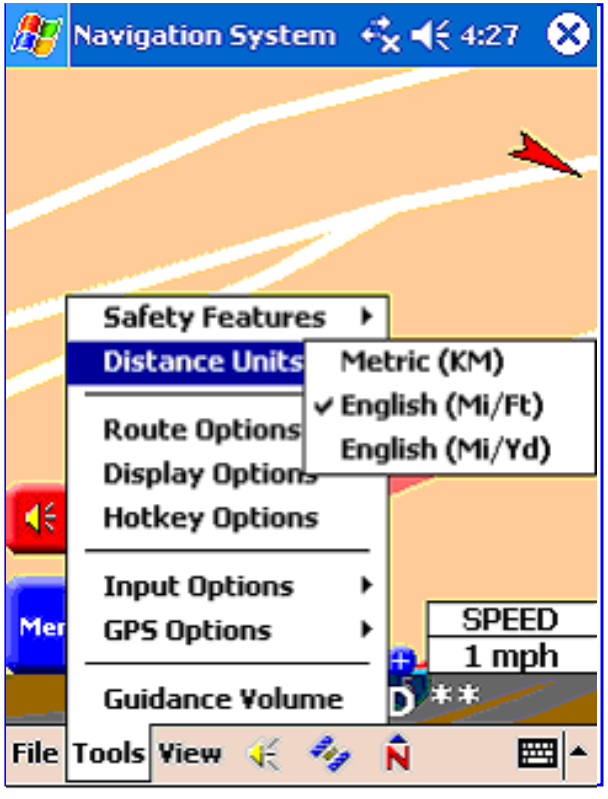
B. Fog Driving

If you enable this option, the software will notify you when an intersection is approaching.

2. DISTANCE UNIT

(Tools ➔ Distance Units)

Allows to change the units for displaying distances on your navigation software.

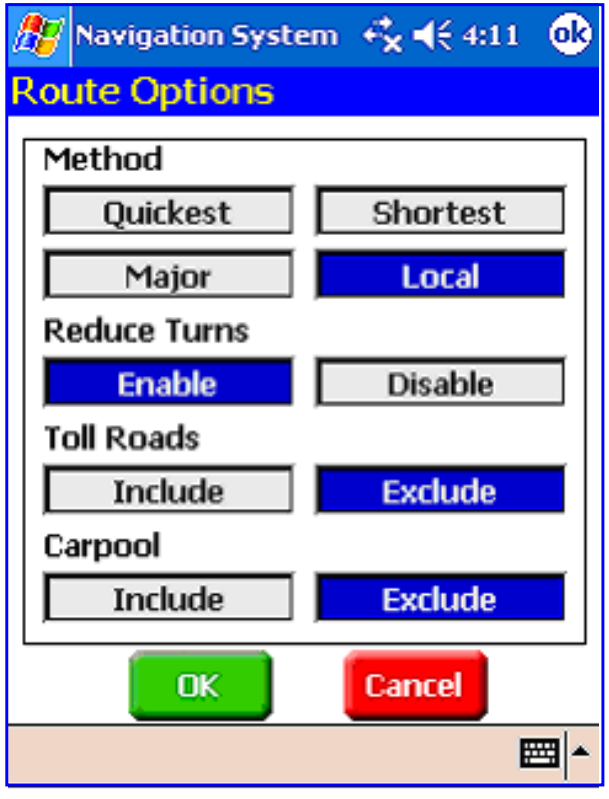


Part II - Tool Menu

3. ROUTE OPTION

(Tools ➔ Route Options)

Customize the software to give you directions based on your preferences. Below is a brief explanation of these settings. For more information, please use the help menu (File ➔ Help)



A. Method

Quickest – Gives you directions that will get you to your destination faster (example taking the freeway for long trips and avoiding local congested streets)

Shortest – Gives you directions based on the shortest route based on physical distance (may not be the quickest way)

Major – Gives you directions based on major streets (if you don't want to get lost on unknown streets)

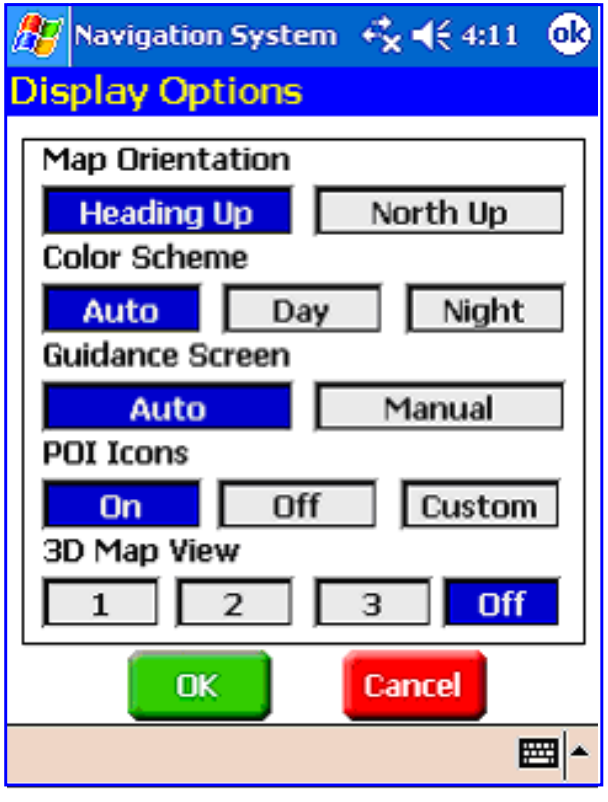
Local – Gives you directions for local streets only (avoids freeways)

Part II - Tools Menu

4. DISPLAY OPTIONS

(Tools ➔ Display Options)

Below is a brief explanation of these settings. For more information, please use the help menu (File ➔ Help)



A. Map Orientation – change this setting based on your orientation for better view of the map

B. Color Scheme
Auto – changes day/night screen view at sunset/sunrise, respectively
Day – screen is in normal view for day viewing
Night – map background darkens and road lines brighten for better view

C. Guidance Screen – if set to Auto zooms in to map when approaching that area, else you have to
click on the area manually.

D. POI Icons – if turned on, map displays icons when driving by POI locations from the map database

E. 3D Map View – you can change the view of the map to 3D view for a more realistic view

Part II - Tools Menu

5. HOTKEY OPTIONS
(Tools ➔ Hotkey Options)

Assign a button on your PDA to a specific task

This is a very useful feature of the software as it allows you to assign any of your PDA's buttons to perform some of the navigation software functions by simple push of a button.

Simply select a function from the list, and then click the button on your PDA that you would like to perform that function. Upon doing this, you should see the button # displayed under the tab called "button." If you want to undo it, you can click Clear Key to do this for the selected function, or "Clear All" to clear all assigned buttons.

The functions you can assign to a PDA button are:

3D Mode
Current Position
Customize POI Icons
Detour
Display Options
Enter Destination
Fullscreen
GPS Info
Menu
Mute
North/Heading Up
POI Icons On/Off
Route List
Route Options
Speed Alert
Volume

Part II - Tools Menu

6. INPUT OPTIONS

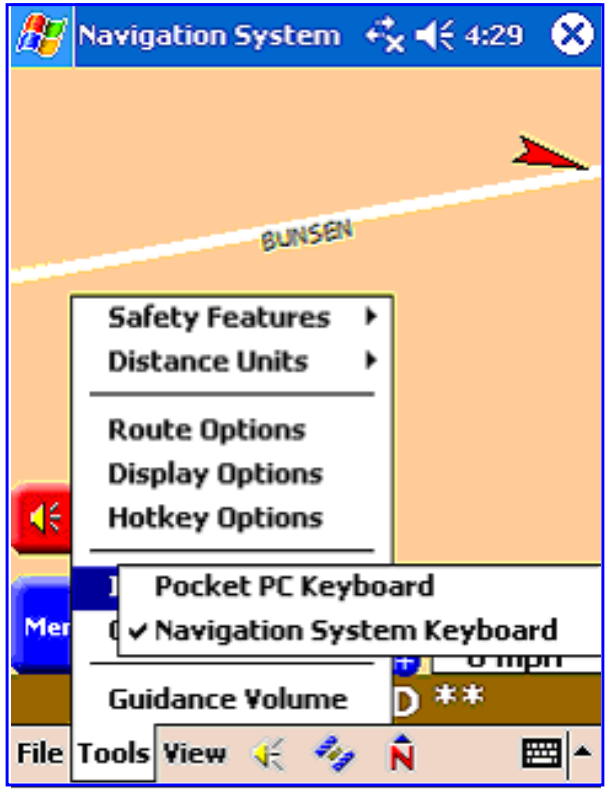
(Tools ➔ Input Options)

Allows you to define how to enter information for the navigation system

Pocket PC Keyboard – all user input needs to be done through your PDA's on-screen keyboard (in this case by tapping on the keyboard icon you see on the bottom right-hand corner of the image below).

Part II - Tools Menu

Navigation System Keyboard – uses the navigation software built-in keyboard for all input. This is much more convenient as the keys are displayed bigger on the PDA, and you can still use your Pocket PC keyboard if you'd like to.

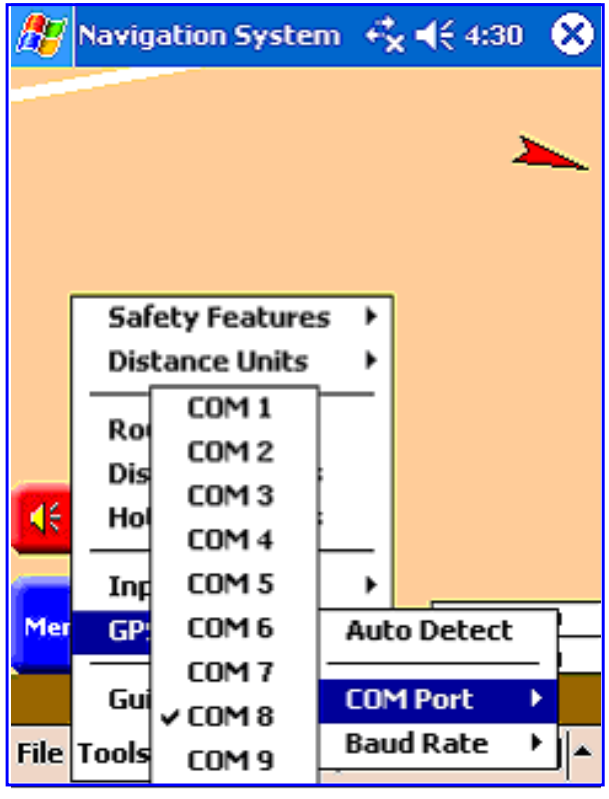


Part II - Tools Menu

7. GPS OPTIONS

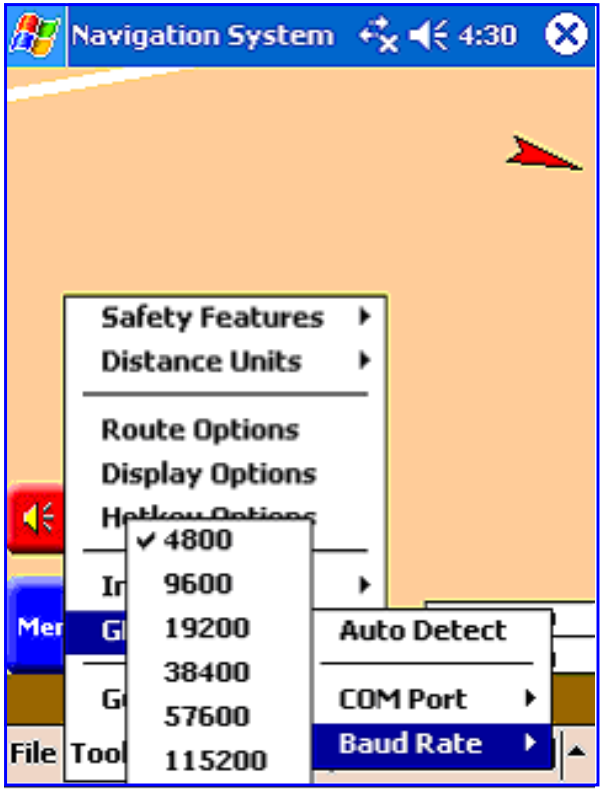
(Tools ➔ GPS Options)

Manually select the settings for your GPS unit or set to Auto Detect



Note: The COM port number is the Outbound COM Port number that your Computer/PDA use to connect to the GPS unit. Only set this manually if you're sure what COM port your PC/ PDA use.

The Baud Rate should be set to 4800

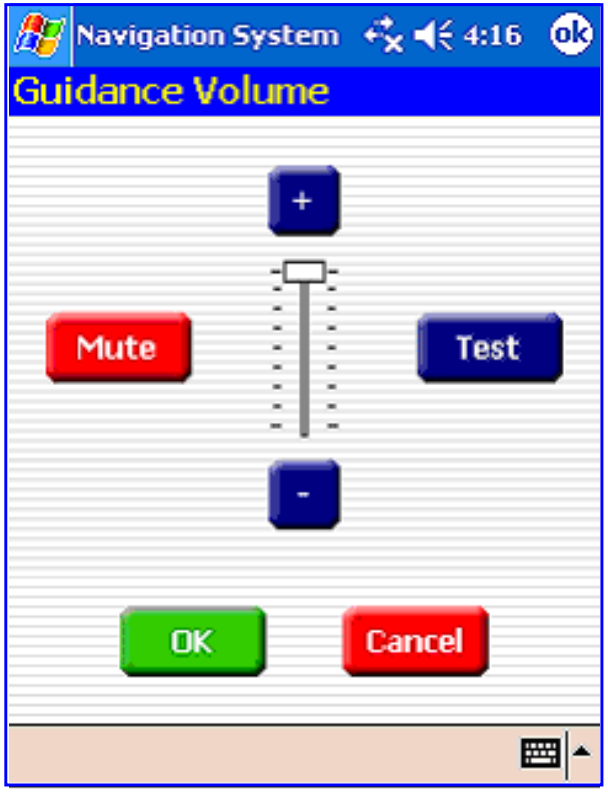


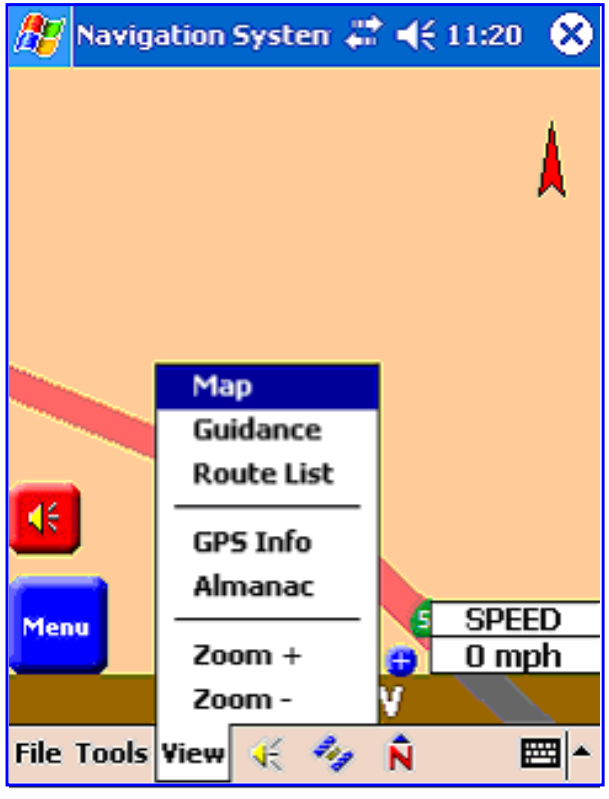
Part II - Tools Menu

8. GUIDANCE VOLUME

(Tools ➔ Guidance Volume)

Allows you to adjust the volume level of the navigation system for the voice commands.





VIEW MENU

1.MAP
(View ➔ Map)

Takes you back to map view

2. GUIDANCE

(View ➔ Guidance)

Zooms in to your current position and informs you the next maneuver (ex: turn left/right).

Tip: By default, this is done automatically by the navigation system. If you wish to change this, go to: Tools ➔ Display Options ➔ Guidance Screen ➔ Auto/Manual.

3. ROUTE LIST

(View ➔ Route List)

Displays text instructions on how to get to your destination

4. GPS INFO
(View ➔ GPS Info)

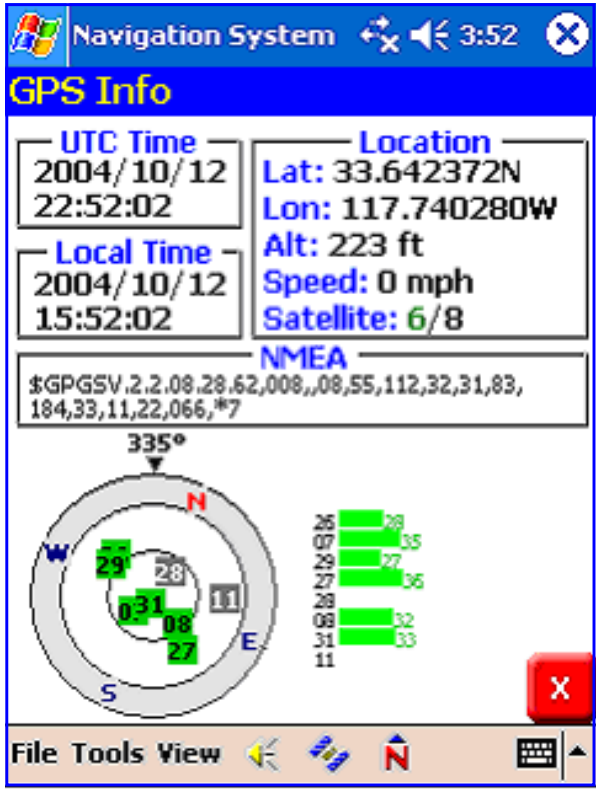
Displays GPS status information and other useful information

UTC Time – Coordinated Universal Time

Local Time – The time in your area

Under **Location,** you can also see your Latitude, Longitude, and Altitude.

NMEA - National Marine Electronics Association. The information displayed under this window displays some of the information received by the GPS unit.


Navigation System
3:52
GPS Info
UTC Time
2004/10/12
22:52:02
Local Time
2004/10/12
15:52:02
Location
Lat: 33.642372N
Lon: 117.740280W
Alt: 223 ft
Speed: 0 mph
Satellite: 6/8
NMEA
$GPGSV,2,2,08,28,62,008,,08,55,112,32,31,83,
184,33,11,22,066,*7
335°
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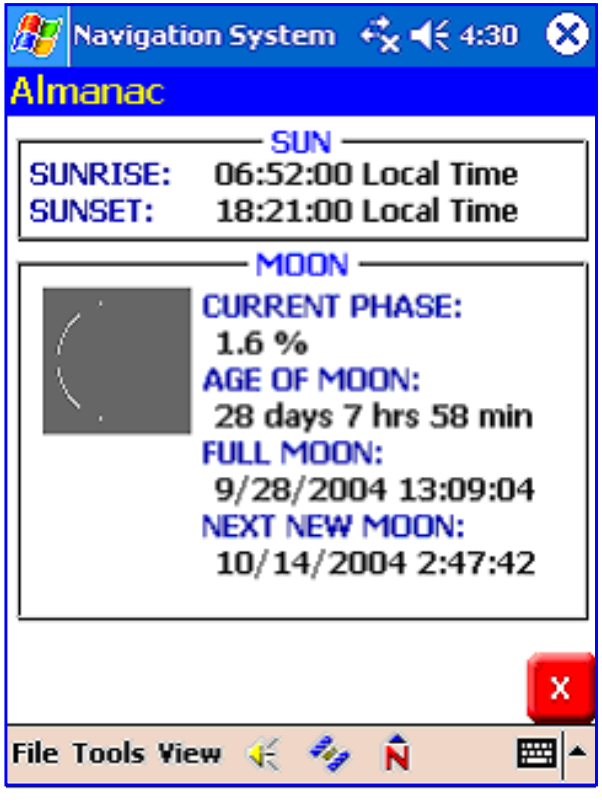
X
File Tools View

Part III - View Menu

5. ALMANAC

(View ➔ Almanac)

Displays Sun/Moon information



6. Zoom in/Zoom out
(View ➔ Zoom +/Zoom -)

Click on this to zoom in/out of an area. Alternatively, you can use the blue +/- icons on the bottom of the map.

Troubleshooting

For a more complete list of troubleshooting/FAQs, please see the Troubleshooting and Frequently Asked Questions section in the navigation system software (File ➔ Help).

1. During map installation, I get a file write error.
This can be caused by insufficient memory space on your Computer/PDA. Please install maps in an alternate location or install more memory on your device.

2. My IOGEAR Bluetooth GPS cannot establish position.
Please make sure that you have the unit in an outdoor area, away from tall buildings/structures or any objects that may cause interference. Also, make sure the GPS is fully-charged (it takes about 3 hours to achieve full charge).

If you still cannot establish position, reset the GPS as instructed in the Hardware Quick Start Guide.

3. My PDA becomes unresponsive or very slow after I load the Navigation System.

First, make sure your PDA meets the minimum system requirements. You also may want to check all the Running Programs on your PDA. If you have too many programs running on the background, they may be consuming your system memory; thus slowing down the PDA.

4. The navigation software does not load on my PC/PDA.

Please make sure your device meets the minimum software system requirements.

5. I'm having trouble establishing Bluetooth communication between my PC/PDA and GPS unit.

Please consult the Hardware Quick Start guide for instructions on how to do this. If you still have trouble, please consult the user manual for your Bluetooth device.

Specification

Function	GBGPS201
Antenna Type	Built-in Ceramic patch
Protocols	Default: NMEA-0183 (V2.20) bps baud rate
Operating Temperature	-20˚C to 60˚C
Power Adapter Part #	3902A681
Battery Type	Built-in rechargable lithium ion
Power Consumption	Last 25 hours after full charge
Channels	8 Channels all in view tracking
Frequency	L1, 1.575.42 MHz
Power	
Voltage	5V
Amps	<52mA
Cable Connections	
Input	100-240V ~ 400mA
Output	5V 2000mA

Specification

Function	GBGPS201
Accuracy (without GPS)	
Position	5m, CEP (50%) without SA
Velocity	0.1 m/sec without SA
Time	+/- 400 nano-second (nominal)
Acquisition Rate (open sky, stationary)	
Cold Start	< 120 sec, average
Warm Start	< 40 sec, average
Hot Start	< 12 sec, average
Reaqcuisition	1 sec, average
Dynamic Conditions	
Velocity	< 505 m/sec
Acceleration	< 4g
Altitude	< 18,000 m

Technical Support

If you need technical support, please check out our IOGEAR Tech Info Library (T.I.L.) at **www.iogear.com/support** for the latest tips, tricks, and troubleshooting. The IOGEAR T.I.L. was designed to provide you with the latest technical information about our products. Most of the answers to your questions can be found here, so please try it out before contacting technical support.

Technical support is available Monday through Friday from 7:30 am to 5:30 pm PST and can be reached at (949) 453-8782 or by email **support@iogear.com**.

Radio & TV Interference statement

WARNING!!! This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK OR ITS DOCUMENTATION EXCEED THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or updates. For further inquires please contact your direct vendor.

Contact info.

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