

Welcome

Thank you for your purchase of the Magellan GPS Companion and Map Companion CD. With the GPS Companion attached, your Palm™ OS Handheld Organizer becomes a complete travel tool that will not only save you time but completely removes the phrase “Where am I?” from your vocabulary. No matter where you go or what you do, the GPS Companion and your Palm organizer will provide you with all the information you need to get you where you are going.



Using
GPS Companion
with Palm V/Vx Series
of Handhelds



Using
GPS
Companion with
Handspring
Visor

WARNING

Driver shall not use this device while operating a vehicle to assist the driver to navigate.

GPS Companion Packing List

Make sure that the contents of your GPS Companion box is complete and matches the contents listed on the side of the box. If anything is missing, please contact Magellan Corporation for replacement parts at 1-866-737-8605.



Tips on Satellite Signal Reception

The signals received from the satellites are extremely weak and getting a good “view of the sky” is important to any GPS receiver. However, the GPS Companion uses 12-channel technology to overcome a lot of the lost signals due to poor or blocked view of the sky.

Early GPS receivers were notorious for losing lock (not being able to compute a position fix) in seemingly mild conditions. If you owned one of these receivers you are going to love the way the GPS Companion performs. Still, signal blockage can occur and you may have to move slightly to regain enough signal strength to continue computing position fixes.

Some areas that may cause signal problems are:

- Inside buildings.
- City areas where large tall buildings block the view.
- Under dense tree cover (especially if the leaves are wet due to rain or morning dew).
- In tunnels.
- In valleys where the hills around you block your view of the sky.

If you find yourself in one of these conditions, or a similar condition, all you need to do is move to a place that has a better view of the sky. The GPS Companion will automatically begin computing fixes as soon as it gets the information it needs from the satellites.

Palm V/Vx Series of Handhelds

The GPS Companion is the perfect add-on for the Palm V/Vx series of handhelds for anyone needing the combination of a Palm V/Vx handheld and a GPS receiver. The GPS Companion works equally well with either the Palm™ V or Palm™ Vx handheld.

Install NAV Companion and/or Map Companion software into your Palm™ V Series of Handhelds and the days of folding maps and searching through endless pages of map guides are a thing of the past. Highways, streets and a host of points of interest can now be stored into your organizer and found on a map in a moments notice.

We hope that you enjoy your GPS Companion and we will continue to bring you software and accessories that will make your life just a little bit easier. If you have any comments and/or suggestions for the GPS Companion, please contact Magellan and let us know what you think.



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{button Accessories,JI('','Accessories')}          {button  
Batteries,JI('','Installing_Batteries_in_PV_Comp')}  {button  
Connecting,JI('','Installing_Palm_V_into_GPS_Companion')}  {button  
Removing,JI('','Removing_Palm_V_from_GPS_Companion')}
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Accessories



Vehicle Mounting Bracket

PN: 701219 \$44.99

Mount your GPS and Palm V/x organizer to any flat surface for hands-free operation.

Includes a suction cup mount and cradle for holding both the GPS Companion and Palm V/x/V/x.



External Power Cable

PN: 730338 \$17.99

Indefinitely power your GPS Companion from a standard 12V cigarette lighter plug and eliminate the need to carry extra batteries. Ideal for use with the Vehicle Mounting Bracket.



Canvas Carrying Case

PN: 701220 \$12.99

Protect both your GPS Companion and Palm V/x handheld with this attractive carrying case. Includes a soft inner liner, belt loop and zipper closure. Ideal for protecting your GPS Companion and Palm V/x/V/x while traveling.

Prices subject to change without notice.

Look for these accessories at your Magellan dealer or contact Magellan directly at 909-394-5000 or 800-669-4477.

Installing Batteries

The GPS Companion uses two AAA batteries that are installed as shown in the accompanying picture.



The expected battery life for the GPS Companion is 10 hours.

Installing Palm V/Vx into GPS Companion

The Palm V/Vx snaps into the GPS Companion as shown. Set the bottom of the Palm V/Vx into the GPS Companion cradle so that the connectors on the Palm V/Vx and the GPS Companion line up. Push the top of the Palm V/Vx towards the GPS Companion. As it seats in, you will feel the locking plate “snap” into position, locking the Palm V/Vx securely to the GPS Companion.



Removing Palm V/Vx from GPS Companion

To remove the Palm V/Vx from the GPS Companion, push the release lever on the back of the GPS Companion to the left. As you do, place your other hand over the Palm V/Vx to prevent it from falling as the locking mechanism is released. Carefully lift the Palm V/Vx out of the GPS Companion cradle.



Contents

The Map Companion CD contains the Map Companion application along with its associated maps and the NAV Companion Application.

Map Companion Application	MapCompanion.prc
Map Companion Maps	<mapname>.pdb
NAV Companion Application	NavComp.prc

Installing Software

Software installation is done through the HotSync operation supplied with your Palm handheld. Installing the Map Companion software involves installing the Map Companion application as well as any maps you want to use. Installation of the NAV Companion software is done by installing the NAV Companion application. (There are no maps associated with NAV Companion.)

Map Companion Software

To install the Map Companion software, first locate the Map Companion application file (*MapCompanion.prc*) and any map files you would like to use. Map files can be found in the folder "USA" in the the MapCompanion folder. Inside the "USA" folder is folders for all 50 states and inside the state folders are folders for the counties in each state. You will find the city map files in the counties folder. (If you are unsure about which county the city you are looking for is in, you can use Windows Find File function. This can be found under the Start button in Windows.) Map files always end with a .pdb filename extension and contain the name of the area they cover. For example, the map for San Francisco has a filename of *San_Francisco.pdb*.

Sometimes you will find a county map inside the county folder. For example:

USA > California > Los Angeles > Los_Angeles_County.pdb.

These county files are for the unincorporated areas of the county.

Use the HotSync™ operation supplied with your Palm organizer to upload the selected files to your organizer. Information on how to upload files using HotSync™ can be found in the user's manual that came with your Palm™ V Desktop organizer.

NAV Companion Software

For the NAV Companion software, locate the application file (*NavComp.prc*) in the NAV Companion folder and use your HotSync operation to upload it to your Palm organizer.

Magellan Technical Support

Hopefully you won't need to contact Magellan for technical support but if you do, call us at 1-866-737-8605. Technical Support is available Monday through Friday from 7 AM to 5 PM, PST. One of the Magellan Technical Support members will assist you on any problem you have encountered.

If your question can be answered using email, you may want to try that first. Email questions can be sent to support@mgl.com.

You can also FAX your questions/comments to Magellan at 1-909-394-7070.

Magellan on the Web

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MAGELLAN is now a trademark of THALES Navigation.




GPS Companion for PDAs
GPS at Your Fingertip!


Handheld GPS Receivers
With You All The Way.


Vehicle Navigation Systems
Driving Made Simple!


Ashtech Precision Products
We Have The Solutions to your Hi-Precision needs.

Magellan Home Page - www.magellangps.com

GPS Companion Warranty

All Magellan GPS receivers are navigation aids, and are not intended to replace other methods of navigation. Purchaser is advised to perform careful position charting and use good judgment. Read the help files carefully before using the product.

1. MAGELLAN CORPORATION'S WARRANTY

Magellan Corporation warrants their GPS receivers and accessories to be free of defects in material and workmanship for a period of one year from the date of original purchase. This warranty applies only to the original purchaser of this product.

In the event of a defect, Magellan Corporation will, at its option, repair or replace the product with no charge to the purchaser for parts or labor. The repaired or replaced product will be warranted for ninety (90) days from the date of return shipment, or for the balance of the original warranty, whichever is longer.

2. PURCHASER'S REMEDY

PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT MAGELLAN CORPORATION'S OPTION, OF ANY DEFECTIVE PART OF THE RECEIVER OR ACCESSORIES WHICH ARE COVERED BY THIS WARRANTY. REPAIRS UNDER THIS WARRANTY SHALL ONLY BE MADE AT AN AUTHORIZED MAGELLAN SERVICE CENTER. ANY REPAIRS BY A SERVICE CENTER NOT AUTHORIZED MAGELLAN CORP. WILL VOID THIS WARRANTY.

3. PURCHASER'S DUTIES

To obtain service, the purchaser must obtain a Return Merchandise Authorization (RMA) number from Magellan Corporation (800-707-7845 / rma@magellangps.com) prior to shipping. If under warranty, the purchaser must return the receiver or accessories postpaid with a copy of the original sales receipt, purchaser's return address and the RMA number clearly printed on the outside of the package to:

MAGELLAN AUTHORIZED SERVICE CENTERS

MAGELLAN CORPORATION WILL NOT BE RESPONSIBLE FOR ANY LOSSES OR DAMAGE TO THE PRODUCT INCURRED WHILE THE PRODUCT IS IN TRANSIT OR IS BEING SHIPPED FOR REPAIR. INSURANCE IS RECOMMENDED. MAGELLAN SUGGESTS USING A TRACKABLE SHIPPING METHOD SUCH AS UPS OR FEDEX WHEN RETURNING A PRODUCT FOR SERVICE.

4. LIMITATION OF IMPLIED WARRANTIES

Except as set forth in item 1 above, all other expressed or implied warranties, including those of fitness for any particular purpose or merchantability, are hereby disclaimed.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

5. EXCLUSIONS

The following are excluded from the warranty coverage.

- * INSTALLATION
- * BATTERIES

- * FINISHES
- * DEFECTS RESULTING FROM INSTALLATION
- * ANY DAMAGE DUE TO ACCIDENT, RESULTING FROM INACCURATE SATELLITE TRANSMISSIONS. INACCURATE TRANSMISSIONS CAN OCCUR DUE TO CHANGES IN THE POSITION, HEALTH OR GEOMETRY OF A SATELLITE.
- * ANY DAMAGE DUE TO SHIPPING, MISUSE, ABUSE, NEGLIGENCE OR TAMPERING, OR IMPROPER USE.
- * SERVICING PERFORMED OR ATTEMPTED BY ANYONE OTHER THAN AN AUTHORIZED MAGELLAN SERVICE CENTER.
- * MODIFICATIONS TO THE RECEIVER WHICH MAY BE REQUIRED DUE TO ANY CHANGE IN THE GLOBAL POSITIONING SYSTEM (GPS).

(Note: All Magellan GPS receivers use GPS to obtain position, velocity and time information. GPS is operated by the U.S. Government, which is solely responsible for its accuracy and maintenance. Certain conditions can cause inaccuracies which could require modifications to the receiver. Examples of such conditions include but are not limited to changes in the GPS transmission. SUCH MODIFICATIONS ARE NOT COVERED BY THIS WARRANTY.)

OPENING OF THIS PRODUCT BY ANYONE OTHER THAN AN AUTHORIZED MAGELLAN SERVICE CENTER WILL VOID THIS WARRANTY.

6. EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES

MAGELLAN CORPORATION SHALL NOT BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DAMAGES RESULTING FROM DELAY OR LOSS OF USE, LOSS OF OR DAMAGES ARISING OUT OF BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY EVEN THOUGH CAUSED BY NEGLIGENCE OR OTHER FAULT. MAGELLAN CORPORATION SHALL NOT BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER ARISING OUT OF THE NEGLIGENT USAGE OF THE PRODUCT. IN NO EVENT WILL MAGELLAN CORPORATION BE RESPONSIBLE FOR SUCH DAMAGES, EVEN IF MAGELLAN CORPORATION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

7. MERGER

This written warranty is the complete, final and exclusive agreement between Magellan Corporation and the purchaser with respect to the quality of performance of the goods and any and all warranties and representations. THIS WARRANTY SETS FORTH ALL OF MAGELLAN CORPORATION'S RESPONSIBILITIES REGARDING THIS PRODUCT.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

8. FOR PURCHASER'S OUTSIDE OF THE UNITED STATES

THIS WARRANTY GIVES YOU SPECIFIC RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM PROVINCE TO PROVINCE AND CERTAIN LIMITATIONS CONTAINED IN THIS WARRANTY MAY NOT APPLY TO YOU.

If you purchased this product outside of the United States this limited warranty is governed by the laws of the State of California and shall benefit Magellan Corporation, its successors and assigns.

Magellan Corporation
960 Overland Court
San Dimas, CA 91773
USA

909-394-5000

Handspring Visor

The GPS Companion is the perfect add-on to the Handspring Visor for anyone needing the combination of a Palm OS handheld and a GPS receiver.

Install NAV Companion and/or Map Companion software into your Handspring Visor and the days of folding maps and searching through endless pages of map guides are a thing of the past. Highways, streets and a host of points of interest can now be stored into your organizer and found on a map in a moments notice.

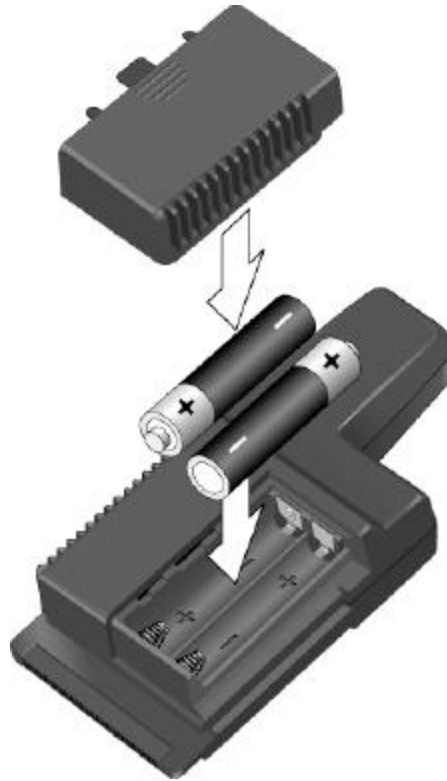
We hope that you enjoy your GPS Companion and we will continue to bring you software and accessories that will make your life just a little bit easier. If you have any comments and/or suggestions for the GPS Companion, please contact Magellan and let us know what you think.



{button Installing Batteries,JI('`,`Installing_Baterries_for_Visor')} {button
Connecting,JI('`,`Connecting_to_Handspring_Visor')}

Installing Batteries

The GPS Companion uses two AAA batteries that are installed as shown in the accompanying picture.



The expected battery life for the GPS Companion is 10 hours.

Connecting to the Handspring Visor

The GPS Companion attaches to the Handspring Visor as shown.

The GPS Companion has built-in software that is launched as soon as it is connected to the Handspring Visor. This basic GPS application will compute and display your present position as well as the status of the satellites.



Accessories



Vehicle Mounting Bracket

PN: 701223 \$44.99

Mount your GPS and Handspring Visor to any flat surface for hands-free operation.

Includes a suction cup mount and cradle for holding both the GPS Companion and the Visor Handheld.



External Power Cable

PN: 730338 \$17.99

Indefinitely power your GPS Companion from a standard 12V cigarette lighter plug and eliminate the need to carry extra batteries. Ideal for use with the Vehicle Mounting Bracket.



Canvas Carrying Case

PN: 701220 \$12.99

Protect both your GPS Companion and Handspring Visor handheld with this attractive carrying case. Includes a soft inner liner, belt loop and zipper closure. Ideal for protecting your GPS Companion and Handspring Visor while traveling.

Prices subject to change without notice.

Look for these accessories at your Magellan dealer or contact Magellan directly at 909-394-5000 or 800-669-4477.

Starting the Application



Tap the Map Companion application icon from the list of applications on your organizer.

If this is the first time you have used the Map Companion software, you will be asked to read and agree or disagree with the [Software License Agreement](#) that covers the use of the software.

If this is not the first time you have used the Map Companion software or you have just agreed to the Software License Agreement, you will be presented with the Map Companion Startup Screen. This screen will inform you of the version of software, who this copy is registered to and the number of maps that have been installed to your organizer.



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Operating Modes

The software is divided into three operating modes:

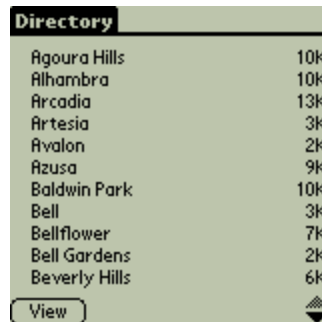
- GPS: Displays information about the GPS position fix and the satellites used to compute this fix.
- Directory: Displays a list of the maps that you have loaded into your organizer.
- Map: Used to view and interact with the maps stored in your organizer.

- [see also: Accessing the Modes](#)


Directory Mode

The Directory Mode allows you access to the maps you have loaded in your Palm organizer.

After accessing the Directory Mode, a screen similar to the one shown here will be displayed. From here you can select the map to be viewed on the Map screen or delete maps from the directory.




Directory	
Agoura Hills	10K
Alhambra	10K
Arcadia	13K
Artesia	3K
Avalon	2K
Azusa	9K
Baldwin Park	10K
Bell	3K
Bellflower	7K
Bell Gardens	2K
Beverly Hills	6K

View 

- [see also: Accessing the Modes](#)
- [see also: Viewing the Map](#)
- [see also: Deleting Maps](#)

Accessing the Modes

You can access any of the three operating modes (GPS, Directory or Map) by pressing the menu button  on your screen. If you tap “Mode” in the menu bar, a drop down menu will appear. Tap on the desired mode name to access the other mode.

[GPS Mode](#)

[Directory Mode](#)

[Map Mode](#)

Note: The mode you are presently in is not displayed in the drop down window.

Viewing the Map

From the Directory Mode, you can use the Up/Down arrows in the bottom right corner of the display to scroll through the list of maps that you have loaded in your Palm organizer. When you see the name of the map you wish to view, tap it once and it will highlight. Now tap on the button in the lower left corner of the display.

You are taken to the map mode with the map chosen displayed in the center of the display.

Deleting Maps

You can also delete one or all of the maps from your Palm organizer while in the Directory Mode.

To delete one map:

Use the Up/Down arrows in the bottom right corner of the display to scroll through the list of maps that you have loaded. When you see the name of the map you wish to delete, tap it once and it will highlight. Tap on the screen name DIRECTORY in the top left corner of the display and the menu will appear.

Tap "Options". A drop-down menu appears.
Tap on "Delete Map".



A confirmation screen is presented to protect you from accidentally deleting a map. Tap on "Yes" or "No" to continue.



To delete all the maps:

Tap on the screen name DIRECTORY in the top left corner of the display.

Tap "Options". A drop-down menu appears.
Tap on "Delete All Maps".



A confirmation screen is presented to protect you from accidentally deleting all the maps in the directory. Tap on "Yes" or "No" to continue.



Adding Maps

You add maps using the HotSync™ procedure that came with your Palm OS Handheld. For more information on using HotSync™ consult the user's manual that came with your Palm OS Handheld.

You can install as many maps as will fit into your organizer's memory. Maps vary in size from less than 5K for a small city to upwards of 800K for really large cities or counties.

Map files always end with a .pdb filename extension and contain the name of the area they cover. For example, the map for San Francisco has a filename of *San_Francisco.pdb*.

Accessing Help

A Help file is available for every screen displayed. To view the help file, press the menu button and tap the "Options" menu.



From the drop-down menu, tap "Help".



Map Mode

Access the Map Mode either by selecting a map from the Directory or by choosing Map from the Mode Menu. If this is the first time you have viewed the map (i.e., selected from the Directory), Map Companion will attempt to zoom out to show you as much of the map as possible. You can then zoom in to a scale that shows you the detail that you need.

As you zoom in, more and more detail is shown. To avoid clutter, road names and symbols are displayed as you zoom in. You can disable the symbols and road names if there is still too much clutter.

Note: If you need to access the menu bar while in the map mode, you need to press the Menu

button  .

See also: [Accessing the Map](#), [Viewing the Map](#), [Zooming In/Out](#), [Panning](#), [Setting Map Preferences](#).

Zooming In/Out

There are several ways to zoom in or out on the map screen.

- a) Use the *Page Up* and *Page Down* buttons found at the bottom center of your Palm organizer.
- b) Use the *Graffiti Box* on your Palm organizer and enter the letters "I" to zoom in and "O" to zoom out.
- c) *Tap and Hold* on the map. A popup menu will appear giving you the options of zooming in or zooming out. The center of the displayed map will be the point you selected to *Tap and Hold*.



Note: The Set In Center option of the popup centers the point selected on the map display without changing the zoom level. This performs the same function as just tapping on the point.

Panning

Panning (or scrolling) can be performed in two ways. The first is to tap anywhere on the map. The point tapped will be moved to the center of the map display.

Note: You can also *Tap and Hold* on the point desired and select Set In Center from the popup menu.

The other method involves dragging an imaginary line on the map. As you do, the display will begin to pan in the direction that you drew the line. The map will continue to scroll until you lift the pen from the display surface. As it's panning, you can even change direction of the pan just by moving the pen again in the direction you want to pan. The rate of panning is governed by the length of the imaginary line you drew. The longer the line, the faster the map will pan.

Setting Map Preferences

The Map Preferences display allows you to set the map for optimum view and performance for your needs.



[Click on the desired preference for more information.]

Show Points of Interest (POI)

Turns on (checked) or off (unchecked) the points of interest that are displayed on the map. This includes shopping centers, schools, hospitals, airports, etc.

Show Road Names

Turns on (checked) or off (unchecked) the names of roads that are displayed on the map.

Show Road Prefixes

Turns on (checked) or off (unchecked) the prefixes for road names that are displayed on the map. This will remove all of the N, E, W, or S designators from street names to reduce clutter. (i.e., W. Colorado Blvd. becomes Colorado Blvd.)

Show Road Name Types

Turns on (checked) or off (unchecked) the road name types that are displayed on the map. This removes street, boulevard, avenue, etc. references from road names. (i.e., W. Colorado Blvd. becomes W. Colorado.)

Show Road Name Suffixes

Turns on (checked) or off (unchecked) the suffixes that are sometimes applied to the roads that are displayed on the map. For example, 4th St. NW becomes 4th St.

Warn of Multiple Instances

Turns on (checked) or off (unchecked) the warning of multiple “finds” while searching for items on the map. Some roads start and stop throughout an entire city. After performing a “Find” command and there are more than one instance of the road found, you will be presented with a warning of the number of instances that were found. This option turns that warning on or off.

Darken Roads

Darkens (checked) or lightens (unchecked) the roads that are displayed on the map. Using this preference, along with the contrast control on your Palm organizer, you can adjust the display for optimum viewing.

Smooth Zooming

Turns on (checked) or off (unchecked) the smooth zooming option. With smooth zooming on, the display “steps” to the next zoom level giving you a graphical representation of the zooming process. (You actually see the display zooming in or out.) While with smooth zooming turned off, the display quickly “jumps” to the next zoom level.

Show Scale

Turns on (checked) or off (unchecked) the map scale displayed at the bottom left corner of the map.

GPS Mode

In the GPS Mode there are four screens that you can use.

The first is the Initialization Screen. This screen is used to initialize the GPS receiver as well as provides information about your present position.

The Navigation Screen has four customizable windows displaying navigation data.

The Satellite Screen provides information about the satellites used to compute your position fix.

The Sky Chart Screen gives a graphical indication of the location of the satellites to your position.

To access any of the screens, tap on the upper right corner of the display in the area that says what GPS Mode screen you are viewing. A drop down menu appears allowing you to select the screen you want to view.

Finding Map Objects

From the Map Mode you can find roads, intersections and landmarks. If more than one occurrence of a road with the same name exists, Map Companion will allow you to view each of these occurrences in turn.

To search for a Map Object, tap the menu icon .

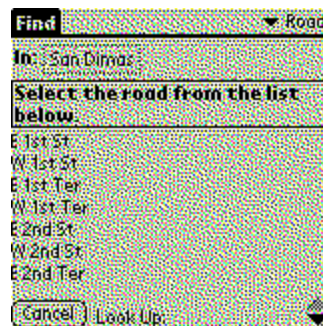
From the menu bar, select *Options > Find*.

The Find Screen Features.

Tap on the upper right corner to select the road or type of landmark you are looking for. (Click on it here in this sample to see a list of the possible landmarks.)


Tap the "In" field to select a different city or county to search in.

To scroll the list, use the up/down arrows in the lower right corner or use the Graffiti pad to enter a name.



When the name you are seeking appears in the scroll list, tap the name once and you are returned to the Map Screen with the found item centered on the display. A target icon is shown to help you locate the item you were looking for.

See also: [Turning off the Target Icon](#), [Finding Multiple Occurrences](#)


 [Tips on Highway Searches](#)

Tips on Highway Searches

Map Companion does not currently have support for map features with multiple names. For that reason, highways and freeways are almost always labeled with their numerical equivalent, rather than a locally known name. If you are searching for a highway by name and cannot find it, this is the most probable reason. Whenever possible, interstate highways, U.S. highways and state highways are labeled *I-ddd*, *US Hyw ddd* and *State Hwy ddd* respectively, where dddd represents a combination of digits or letters.

Turning off the Target Icon

After completing a “Find”, the map is displayed with a “Target Icon” displayed over the item found. To turn off the icon:

Tap the menu icon  .

Select *Options > Hide Find Target*

Finding Multiple Occurrences

If after completing a Find, Map Companion has determined that there are multiple occurrences of the same street or intersection, you will be presented with an alert indicating how many occurrences were found. This alert can be turned off in [Map Preferences](#).













To examine each successive item found, tap the menu icon



Select *Options > Find Again*

When you reach the last item, another *Find Again* command will return you to the first item found.

Landmark Types


Type	Icon
Intersections	N/A
Roads	N/A
Interstates	
U.S Highways	
State Highways	
Airports	
Lodging	
Train Stations	
Bus Terminals	
Shopping Centers	
Office Centers	
Hospitals	
School/University	
Golf Courses	

Navigating on the Map

In the Map Mode you can select a destination, use the Tracker to provide line-of-sight direction indication to your destination and view your present position as computed by the GPS receiver in your GPS Companion.

Selecting a Destination

The procedure for selecting a destination is similar to that as described in *Finding Map Objects*.

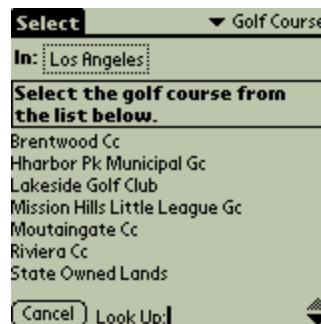
To select your destination, tap the menu icon .

From the menu bar, select *Navigate > Select Destination*.


Tap on the upper right corner to select the road or type of landmark you are looking for.


Tap the “In” field to select a different city or county to search in.

To scroll the list, use the up/down arrows in the lower right corner or use the Graffiti pad to enter a name.



When the name you are seeking appears in the scroll list, tap the name once and you are returned to the Map Screen. If Map Companion finds multiple occurrences for this destination you can step through each until you find the one you want using *Navigate > Select Again* from the menu bar.

The destination is marked on the map with an “X” .

When a destination is selected, the *Tracker* indicator  is displayed. The *Tracker* icon “points” to the direction of your destination.


Alternate Method for Selecting Destination


If you locate a place on the map that you want to present as your destination, you can do so without going to the Destination screen.

Tap and hold on the map the point that you want to assign as the destination. A popup menu appears. Select *Set Destination*. The destination icon will appear when the menu closes.


See also: [Using the Tracker](#)

Using the Tracker

The *Tracker*  provides a line-of-sight indication to visually assist you in reaching your selected destination. The Tracker can be turned on or off anytime using the command *Navigate > Tracking On/Off*.

To use the *Tracker* effectively, allow the GPS receiver to compute your present position and then select the destination. You will then have the GPS Position Icon  on your starting point, and the Tracker indicating the direction of travel needed to reach the destination. You then need to visually guide yourself from one symbol to the other, scrolling and zooming out as necessary to maintain your bearing.

Viewing Present Position

After a position has been computed, your present position is displayed on the map represented by the  icon.

Turning GPS Positioning On or Off

At any time you can turn on or off the GPS Positioning. From the Map screen, access the menu bar and select *Navigate > GPS Position On/Off*. If GPS Positioning is on, selecting this will cause the GPS icon to disappear and you will be able to scroll around the map normally. (With GPS Positioning turned on, you can pan around the map but as soon as you lift the pen the display “snaps” back to put your present position on the center of the display.) If GPS Position is currently off, selecting this will center your map to your present position and display the GPS icon.

Turning GPS Scrolling On or Off

In normal modes, when GPS Positioning is on the display is “locked” to your present position. However, you may want to scroll on your map and still keep the GPS positioning active. To turn GPS Scrolling on (or off), from the Map screen, access the menu bar and select *Navigate > GPS Scrolling On/Off*.

See also: [GPS Mode](#)

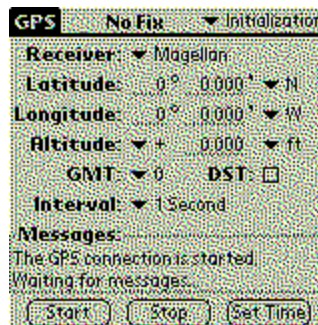
\$ Initialization

GPS receivers need to know their approximate location to quickly compute their position the first time they are turned on.

For more information on initialization, see the chapter under Getting Started, "Initializing the GPS".

The Initialization Screen

The Initialization Screen provides you with the means of initializing your GPS receiver. After the GPS Companion begins computing position fixes, this screen also provides you with the lat/lon for your present position. Click on the sample screen shown here for more information on each of the fields and buttons found on this screen.



See also: [Initializing the GPS](#)

The Navigation Screen

The Navigation Screen contains four windows that are used to display navigational information. Each window is customizable to display the information you need. Tap on the heading above each window to reveal a popup menu that allows you to select from speed, heading, altitude, position or time.

Tapping on any of the navigational windows reveals a popup menu allowing you to set the units of measure for the selected data. (Note: windows displaying position data do not have this popup menu.)

The Satellites Screen

The Satellites Screen provides you with the technical information about the satellites being used to compute the position fix.

- CH (Receiver Channel). This is the channel used by the GPS Companion to receive the satellite data. (From 1 to 12)
- SV (Space Vehicle) This is the unique number assigned to each satellite. (From 1 to 32)
- AZ (Azimuth) The horizontal angle the satellite makes with respect to true North from your position. (From 0 to 359)
- EL (Elevation) The vertical angle of elevation the satellite makes with respect to your present position. (From 0 to 90)
- SN (Signal-to-noise Ratio) The incoming signal strength of the satellite signal measured in decibels.
- UP (Used-in-position) Checked if the satellite is being used to calculate your position fix.

The Sky Chart Screen

The Sky Chart Screen shows the position of the satellites in the sky relative to your present position.

Your present position is displayed at the center of the concentric circles. The circles mark the 0, 30, 60 and 90 degree horizontal elevations of the satellite. The outermost circle also represents the azimuth angle, where 0 degrees is true North.

Satellite values are shown in black for those satellites that are being tracked to compute your position fix.

GPS Window Select

Tapping here brings up a menu that allows you to select the different GPS screens to view.



Position Fix Indicator

This area indicates the current status of the position fix that is being computed:

- No Fix:** Present position is not being computed.
- 2D:** Present position is 2D (Two-dimensional). In a 2D position fix, altitude is not computed and the last computed or entered altitude is used.
- 3D:** Present position is 3D (Three-dimensional). In a 3D position fix, altitude is being computed by the GPS receiver.

Levels of position fixes are influenced greatly by how well the GPS Companion “sees” the satellites. For more information on getting good satellite signals see [Tips on Satellite Signal Reception](#).

Receiver Type

The receiver type for the Map Companion software is “Magellan”.

Position Data

During the initialization process, Lat/Lon (Latitude/Longitude) information is input here. After computing a position fix, the Lat/Lon of the computed fix is displayed. Altitude is also displayed as part of the position data. If the position fix is 3D then the altitude is computed by the Map Companion. If the last fix was 2D, then the altitude displayed is the last computed or entered altitude.

GPS Time Data

GPS time is extremely accurate as the time the satellites send to the GPS Companion is taken from the

atomic clocks on the satellites. However, the time transmitted is GMT (Greenwich Mean Time) and requires an offset to adjust it to your local time. This offset and DST (Daylight Savings Time) flag are set during initialization but can be changed at any time.

GPS Interval

GPS Interval is adjusts the rate that the Navigation, Satellite and Sky Chart screens are updated.

GPS Messaging

This window displays the string of NMEA data that is received to your Palm organizer from the Map Companion.

Start GPS

This button starts the GPS communication between GPS Companion and the Map Companion. It is used only if the Stop button has been pressed.

Stop GPS

This button stops the GPS communication between the GPS Companion and the Map Companion software.

Set Time

The Set Time button sets your Palm organizer's time & date to that received in the satellite signals.

Note: The GMT deviation and DST must be set correctly for this to work properly.

Initializing the GPS

Since the satellites are constantly rotating the earth, the GPS Companion wants to know approximately where it is located, the date and the time. This information isn't mandatory, the GPS Companion can "poll" the sky looking for satellites and eventually get the information it needs but this takes time. So to speed up this process the GPS Companion has a built in almanac of all the satellites and where they will be at any given time for all positions. So now with the approximate location and time, the GPS Companion just refers to its almanac and can immediately begin receiving satellite data.

Where does it get this information? Well, every time the GPS Companion computes a fix it is stored in memory. (Only the last fix computed is stored, not all of them.) The next time it is turned on and needs to start computing a fix, the GPS Companion uses this last fix as a starting point.

What if the GPS Companion has never taken a fix or if it has been moved (more than 500 miles) since the last time it took a fix? In this case, to speed up the TTFF (time to first fix) you should access the Initialization Screen in the GPS Mode and enter the Lat/Lon for your position. (It doesn't have to be exact, anything close will work fine.) If you do not know your approximate Lat/Lon, a simple chart showing you a Lat/Lon that you can use for each state is provided here. The time and date used by Map Companion is the time and date you have stored in your Palm organizer.

Procedure for Initialization

From the application menu of your Palm organizer, tap the Map Companion icon.

If this is the first time you have used the Map Companion software, reply to the License Agreement and the Directory Mode screen is displayed. Tap on "Directory" in the top left corner of the display. Select GPS from the menu.

If this is not the first time you have used the Map Companion software, access the GPS Mode and select "Initialization" as the screen to be viewed.

Using the Grafitti pad or the keyboard entry method on your Palm organizer, enter your approximate Latitude and Longitude. Altitude (elevation) can be left blank or entered if you know it.

```
{button Approximate Lat/Lon Chart,JI(``,`Lat_Lon_Chart')}
```

Set the GMT (Greenwich Mean Time) deviation and check the DST (daylight savings time) box if it is in effect for your area. Note: This entry is optional. It is only used if you want to use the Set Time button to update the clock in your Palm organizer to the time transmitted by the satellites from their atomic clocks.

```
{button GMT Reference Chart,JI(``,`GMT_Reference_Chart')}
```

Tap the Start button. If your Palm organizer is seated properly in the GPS Companion and if you have a reasonably clear view of the sky you will begin to see messages streaming in the Messages box. This is the NMEA data coming from the GPS Companion. This indicates that the receiver is working properly and should compute a position fix very soon.

After you see the message streams, tap on "Initialization" in the upper right corner of the display. Select *Satellites* from the menu. You are now viewing the "techie" information about the satellites being used to compute the position. To see a graphical indication of the same information, tap on *Satellites* in the upper right corner and select *Sky Chart*.

At the top of the display the words “No Fix” was displayed when you began the initialization process. No Fix will soon be replaced with 2D and finally 3D. When either 2D or 3D is displayed, your position has been computed and you are ready to use Map Companion with GPS information.

\$ K Lat/Lon Chart

<u>State</u>	<u>Latitude</u>	<u>Longitude</u>
Alabama	33 00.000	N87 00.000 W
Alaska	64 00.000	N152 00.000 W
Arizona	34 00.000	N112 00.000 W
Arkansas	35 00.000	N92 00.000 W
California	37 00.000	N119 00.000 W
Colorado	39 00.000	N105 00.000 W
Connecticut	42 00.000	N73 00.000 W
Delaware	39 00.000	N76 00.000 W
Florida	28 00.000	N82 00.000 W
Georgia	33 00.000	N83 00.000 W
Hawaii	21 00.000	N158 00.000 W
Idaho	45 00.000	N115 00.000 W
Illinois	40 00.000	N89 00.000 W
Indiana	40 00.000	N86 00.000 W
Iowa	42 00.000	N93 00.000 W
Kansas	39 00.000	N98 00.000 W
Kentucky	38 00.000	N85 00.000 W
Louisiana	31 00.000	N92 00.000 W
Maine	45 00.000	N69 00.000 W
Maryland	39 00.000	N77 00.000 W
Massachusetts	42 00.000	N72 00.000 W
Michigan	45 00.000	N85 00.000 W
Minnesota	46 00.000	N94 00.000 W
Mississippi	33 00.000	N90 00.000 W
Missouri	38 00.000	N92 00.000 W
Montana	47 00.000	N109 00.000 W
Nebraska	42 00.000	N99 00.000 W
Nevada	39 00.000	N117 00.000 W
New Hampshire	44 00.000	N71 00.000 W
New Jersey	40 00.000	N75 00.000 W
New Mexico	34 00.000	N106 00.000 W
New York	43 00.000	N76 00.000 W
N. Carolina	36 00.000	N78 00.000 W
N. Dakota	47 00.000	N100 00.000 W
Ohio	40 00.000	N83 00.000 W
Oklahoma	36 00.000	N97 00.000 W
Oregon	44 00.000	N121 00.000 W
Pennsylvania	41 00.000	N77 00.000 W
Rhode Island	42 00.000	N71 00.000 W
S. Carolina	34 00.000	N81 00.000 W
S. Dakota	44 00.000	N100 00.000 W
Tennessee	36 00.000	N86 00.000 W
Texas	31 00.000	N98 00.000 W
Utah	40 00.000	N112 00.000 W
Vermont	44 00.000	N73 00.000 W
Virginia	38 00.000	N79 00.000 W
Washington	47 00.000	N121 00.000 W
W. Virginia	39 00.000	N80 00.000 W
Wisconsin	45 00.000	N90 00.000 W
Wyoming	43 00.000	N108 00.000 W

{button Back,Back()}

Lat_Lon_Chart
\$ Lat/Lon Chart
K Lat/Lon Chart

Map Accuracy

Map Companion maps are built using a proprietary system that takes complex source map data obtained from other vendors and converts it into databases compatible with the Palm™ Operating System. Therefore, the maps are only as accurate as the original source we purchased or licensed, and are not meant to be used for high-precision measurement or navigation applications requiring highly accurate measurements of the earth's surface.

The maximum positional accuracy error claimed by our current source data provider is approximately 150 feet but in practice we have found the errors to be on the average of about 20 feet.

As much as we would like to, we cannot guarantee that all existing roads are present in the map data because our sources do not guarantee it to us. Maps vary in age, and older cities like New York, for example, are unlikely to have any missing streets at all. Newer, fast-growing cities are more likely to be lacking some streets.

\$ K North America GMT Reference Chart

Area	Time Zone	GMT Deviation	GMT Deviation (DST)
Atlantic		-4	
Eastern	EST	-5	-4
Central	CST	-6	-5
Mountain	MST	-7	-6
Pacific	PST	-8	-7
Alaska		-9	
Hawaii		-10	

Example: If the GMT is 1300 and you are in the PST and not observing DST (daylight savings time) then your local time would be 0500. (13 - 8 = 5 or 0500 hours)

Time Chart (Hours)

GMT	Atl	EST	CST	MST	PST	Alaska	Hawaii
00	8PM	7PM	6PM	5PM	4PM	3PM	2PM
01	9PM	8PM	7PM	6PM	5PM	4PM	3PM
02	10PM	9PM	8PM	7PM	6PM	5PM	4PM
03	11PM	10PM	9PM	8PM	7PM	6PM	5PM
04	12PM	11PM	10PM	9PM	8PM	7PM	6PM
05	1AM	12PM	11PM	10PM	9PM	8PM	7PM
06	2AM	1AM	12PM	11PM	10PM	9PM	8PM
07	3AM	2AM	1AM	12PM	11PM	10PM	9PM
08	4AM	3AM	2AM	1AM	12PM	11PM	10PM
09	5AM	4AM	3AM	2AM	1AM	12PM	11PM
10	6AM	5AM	4AM	3AM	2AM	1AM	12PM
11	7AM	6AM	5AM	4AM	3AM	2AM	1AM
12	8AM	7AM	6AM	5AM	4AM	3AM	2AM
13	9AM	8AM	7AM	6AM	5AM	4AM	3AM
14	10AM	9AM	8AM	7AM	6AM	5AM	4AM

GMT_Reference_Chart

\$ GMT Reference Chart

K GMT Reference Chart

15	11AM	10AM	9AM	8AM	7AM	6AM	5AM
16	12AM	11AM	10AM	9AM	8AM	7AM	6AM
17	1PM	12AM	11AM	10AM	9AM	8AM	7AM
18	2PM	1PM	12AM	11AM	10AM	9AM	8AM
19	3PM	2PM	1PM	12AM	11AM	10AM	9AM
20	4PM	3PM	2PM	1PM	12AM	11AM	10AM
21	5PM	4PM	3PM	2PM	1PM	12AM	11AM
22	6PM	5PM	4PM	3PM	2PM	1PM	12AM
23	7PM	6PM	5PM	4PM	3PM	2PM	1PM

If you are observing daylight savings time, add 1 hour to the result.

Starting NAV Companion



Tap the NAV Companion application icon from the list of applications on your organizer.

If this is the first time you have used the Map Companion software, you will be prompted to initialize the receiver. For information on initialization, see [Initializing the GPS](#).

To prevent accidental battery drain, the NAV Companion application program will exit after 30 minutes if :

- A. a position fix has not been computed or
- B. position fixes are being computed but there is no indication of movement.

Initializing the GPS

Since the satellites are constantly rotating the earth, the GPS Companion wants to know approximately where it is located, the date and the time. This information isn't mandatory, the GPS Companion can "poll" the sky looking for satellites and eventually get the information it needs but this takes time. So to speed up this process the GPS Companion has a built in almanac of all the satellites and where they will be at any given time for all positions. So now with the approximate location and time, the GPS Companion just refers to its almanac and can immediately begin receiving satellite data.

Where does it get this information? Well, every time the GPS Companion computes a fix it is stored in memory. (Only the last fix computed is stored, not all of them.) The next time it is turned on and needs to start computing a fix, the GPS Companion uses this last fix as a starting point.

What if the GPS Companion has never taken a fix or if it has been moved (more than 500 miles) since the last time it took a fix? In this case, to speed up the TTFF (time to first fix) you should access the Initialization Screen and follow the instructions for initializing the GPS Companion.

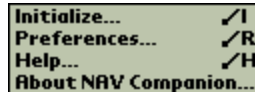
Note: If you have initialized the GPS Companion with the Map Companion software you don't need to initialize it again with the NAV Companion software. Likewise, if you have initialized the GPS Companion with the NAV Companion software you don't need to do it again with Map Companion.

See [Initialization Instructions](#).

Initialization Instructions

Press the Menu icon on you Palm organizer.

Tap on "Options" menu item. A drop-down menu appears. Tap on the menu item "Initialize".



The initialization screen is displayed with a world map displayed. Tap once on your general location.



A second initialization screen is displayed with a "zoomed in" map.

You can now narrow the selection of your general area by taping on the map displayed.

If this map does not show your location, tap on the BACK button to redisplay the world map and try again.

If you know your elevation, use the up/down arrows in the elevation area to set your elevation. (Elevation is optional and is not required to complete initialization.)



Tap once on the Time box to edit the time displayed. You are presented with a time edit window that allows you to enter your correct time.



With the correct time entered, tap on the Date box. Use the calendar window to select the present date and tap the “Today” button.



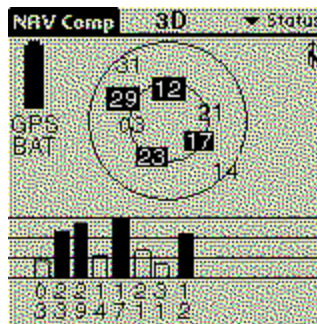
When everything is correct tap “OK”. If you entered the correct information for initialization and you are outside in an area where the satellite signals are not being blocked, the GPS Companion will begin acquiring the necessary information from the satellites to compute your position. You can use the [Status Screen](#) to visually observe this process.

Status Screen

The Status Screen visually displays the satellites and the signal strength of the signals being received.

At the top of the Status Screen, as well as all of the other screens, is an indication of the level of position fix that is being computed, either No Fix, 2D or 3D. If it indicates No Fix, then the GPS Companion is not acquiring satellite signals and is not computing a position fix. This may be due to poor visibility of the satellites in which case you need to move a little to get a better view of the sky or you may need to initialize the GPS Companion again. (See [Initializing the GPS Companion](#).) A 2D fix indicates that the GPS Companion can “see” just three satellites. It will compute a position fix but cannot compute elevation. In this case the elevation displayed is based upon the last elevation computed. In 3D, both the position and elevation is being computed by the GPS Companion. Whenever possible, you want the GPS Companion to be in the 3D mode.

Also on the Status Screen is a display of the battery level in the GPS Companion. When the battery is all black, the batteries are fresh and at full life. As the batteries wear down, the black portion of the battery displayed will move down.



See [Accessing the Screens](#) for instructions on how to access the Status Screen.

Accessing the Screens

There are two ways of accessing the seven navigation screens in NAV Companion.

1. Use the Page Up/Page Down button on your Palm organizer to scroll through the screens.
– or –
1. Tap the Menu icon on your Palm organizer.
2. Tap in the upper right corner of the display to reveal a drop-down menu that lists the available navigation screens.

Tap on the name of the screen you want to display. Tapping on the name of the screen now in this help file will take you to a page with information on that screen.



Position Screen

The Position Screen displays the coordinates of your last computed position and basic navigation data.

NAV Comp	3D	Position
Latitude:	37° 6' 34.74N	
Longitude:	117° 49' 34.14W	
Elevation:	900 ft	
Trip:	238.8mi	
Speed:	5.38 mph	
Heading:	150° T	
	120	150
		5

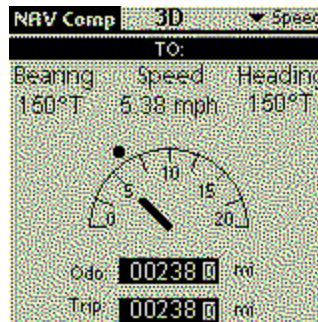
See [Accessing the Screens](#) for instructions on how to access the Position Screen.

Speed Screen

The Speed Screen displays your heading, bearing and speed. (The data displayed is customizable to allow other data items to be displayed.) Heading is the direction you are traveling in degrees. If you were traveling due North, your heading would be 0 degrees, East would be 90 degrees, South is 180 degrees and West is 270 degrees. Bearing (measured the same as heading) is the direction that you should be heading to arrive at your destination in the shortest time possible. So your goal would be to change your direction (heading) so that it matches the bearing to arrive at your destination. (Note: bearing is displayed only if a route or go to waypoint is active.)

The Speed Screen also displays your speed using a familiar speedometer format. The speed marker marks your actual speed, the dot marks your average speed.

At the bottom of the display is the odometer and trip odometer. Both odometers work the same and both can be reset. You may want to use the trip odometer to display your distance traveled for the entire trip and reset the other odometer every morning to display how far you have traveled each day.



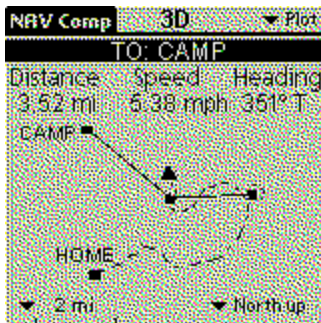
See [Accessing the Screens](#) for instructions on how to access the Speed Screen.

See [Customizing the Speed Screen](#).

Plot Screen

The Plot Screen is a mini map that shows where you have traveled and if you have an active route, where you want to go. The Plot Screen displays your distance, speed and heading (customizable fields) at the top of the display. (Note: distance is displayed only if a route or go to waypoint is active.)

It can also display your track. Your track is an indication of where you have been. You also have the option of starting, stopping or clearing the tracklog that is being displayed.

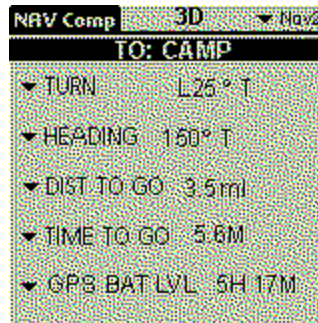


See [Accessing the Screens](#) for instructions on how to access the Plot Screen.

See also [Customizing the Plot Screen](#), [Setting Tracklog](#) and [Panning](#).

Nav2 Screen

The Nav2 Screen displays five customizable fields of navigation data.

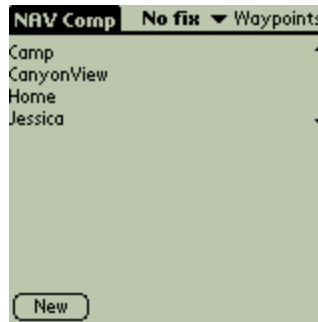


See [Accessing the Screens](#) for instructions on how to access the Nav2 Screen.

See also [Customizing the Nav2 Screen](#).

Waypoints Screen

The Waypoints Screen lists all of the waypoints you have stored in the NAV Companion software. From this screen you can add new waypoints, delete waypoints or edit waypoints.



See [Accessing the Screens](#) for instructions on how to access the Waypoints Screen.

See also: [Creating a Waypoint](#), [Deleting a Waypoint](#) and [Editing a Waypoint](#).

Routes Screen

Similar to the Waypoints Screen, the Routes Screen displays all of the routes that you have created and stored in the NAV Companion software. From this screen you can select a route to be deleted or edited and you can create a new route.



See [Accessing the Screens](#) for instructions on how to access the Routes Screen.

See also: [Creating a Route](#), [Deleting a Route](#) and [Editing a Route](#).

Using the Trip Odometer

There are two odometers in your NAV Companion and they are displayed on the Speed Screen. As you travel with your GPS Companion, the NAV Companion will be recording your distance and updating the odometers.

These odometers can be reset independently of each other. You may wish to use the main odometer as a total counter since you started using the GPS Companion and use the trip odometer just to record the distance traveled on your present route. In this case you would never reset the main odometer and reset the trip odometer right after you activated the route.

Or you may be on a long trip and you want to use the odometer to record the complete trip and use the trip odometer to record your activities on a daily basis. For this example, you would reset both odometers when you activate the route, and reset the trip odometer at the beginning of each day.

Resetting the Odometers

1. Tap the Menu Icon on you Palm organizer.
2. From the Tools menu, tap on Odometer Reset or Trip Reset.
3. A confirmation screen is displayed. Tap OK to complete the odometer reset or tap Cancel to abort.

Resetting the trip odometer also resets the average and maximum speed.

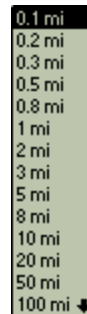
Note: for average speed to be computed correctly, you need to be computing a 3D position fix while resetting the trip odometer.

Customizing the Plot Screen

On the Plot Screen you can change the scale of the display and what the top of the screen is referenced to, North up or Track up.

Changing the Plotter Scale

Tap on the arrow to the left of the current display scale. A popup menu will be presented with a list of the scales that can be used. Tap on the scale you desire and you will be returned to the Plot Screen. The Plot Screen will be redrawn using the scale you selected.



Changing the Display Reference

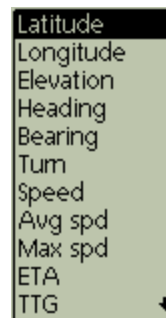
Tap on the arrow to the left of the current screen reference indicator. A popup menu is presented allowing you to select from North Up, Track Up or Course Up. Tap on the desired option and the Plotter Screen will be redrawn using the reference chosen.



Changing the Data Fields

Tap on the arrow to the left of the data field you want to change. A popup menu will be presented with a list of the data options that can be displayed.

You have the option of choosing Latitude, Longitude, Elevation, Heading, Bearing, Turn, Speed, Avg spd (average speed), Max Spd (maximum speed), ETA (Estimated Time of Arrival), TTG (Time To Go), Distance (Distance To Go), Odo (Odometer), Trip odo (Trip Odometer), trip time, Last fix, Bat Level, Bat Max, Date, Time, UTC or Blank.

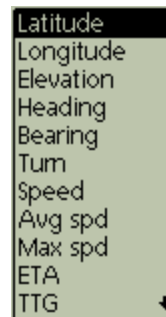


Customizing the Nav2 Screen

Any of the five data fields on the Nav2 Screen can be changed to display information that is valuable to you. You have the option of choosing Latitude, Longitude, Elevation, Heading, Bearing, Turn, Speed, Avg Spd (average speed), Max Spd (maximum speed), ETA (Estimated Time of Arrival), TTG (Time To Go), Distance (Distance To Go), Odo (Odometer), Trip odo (Trip Odometer), trip time, Last fix, Bat Level, Bat Max, Date, Time, UTC or Blank.

Changing the Data Fields

Tap on the arrow to the left of the data field you wish to change. A popup menu is displayed with the various options available. Tap on the desired data type to select. You can tap on the up/down arrows to view more items in the list.



Setting Distance Units and Lat/Lon Display

The units of measure for data displayed can be US (miles/feet), Metric (kilometers/meters) or Nautical (nautical miles/knots).

To Select the Distance Units

1. Tap on the menu icon on your Palm organizer. Tap on "Options" in the menu bar and tap on "Preferences" from the drop-down menu.
2. Tap on the arrow to the right of "Units:".
3. Select the desired units of measure from the list displayed by tapping on the item.
4. Tap on the OK button to close out the Preferences window.

Lat/Lon information can be displayed in one of three formats: Deg, Deg-Min or Deg-Min-Sec.

To Select the Lat/Lon Format

1. Tap on the menu icon on your Palm organizer. Tap on "Options" in the menu bar and tap on "Preferences" from the drop-down menu.
2. Tap on the arrow to the right of "Lat/Lon:".
3. Select the desired format from the list displayed by tapping on the item.
4. Tap on the OK button to close out the Preferences window.

Creating a Waypoint

Waypoints are reference points that can be used later in creating a route or a simple GOTO destination route. Whenever you think you may want to return to your present location you should create a waypoint and give it a name that will best describe it.

There are two ways of creating a waypoint. The simplest and most common used method would be to MARK your position. Marking is handy as it can be done from any screen.

To Mark Your Position as a Waypoint

1. Tap on the menu icon on your Palm organizer.
2. Under the Tools Menu, tap on "Mark...".
3. Using the Keyboard or Graffiti pad, enter a name for this waypoint or make no changes and use the default name supplied by the NAV Companion.
4. You can also, if desired, add a description for the waypoint, edit the Lat/Lon coordinates or change the elevation.
5. When the information for the waypoint is correct, tap on OK to create the waypoint and close the window.

To Create a Waypoint from the Waypoints Screen

1. While viewing the Waypoints Screen, tap on the New button in the bottom left of the screen.
2. Follow the same instructions as 3 through 5 above.

Editing a Waypoint

You can change (edit) any waypoint in your waypoint list. If the waypoint is used in a route, any changes you make to the waypoint will also be reflected in the route.

To Edit a Waypoint

1. Access the Waypoints Screen.
2. From the list of waypoints, tap on the waypoint you wish to edit. You may need to use the scroll bars on the right side of the list to view all of the waypoints in the list.
3. Using the Keyboard or Graffiti pad, edit any of the fields desired.
4. Tap on Done when all of the changes have been made.

Deleting a Waypoint

You can delete any waypoint in your waypoint list as long as it is not being used in a route.

To Delete a Waypoint

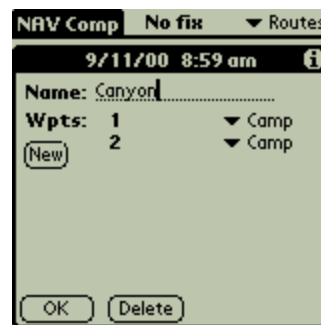
1. Access the Waypoints Screen.
2. From the list of waypoints, tap on the waypoint you wish to delete. You may need to use the scroll bars on the right side of the list to view all of the waypoints in the list.
3. Tap on the Delete button. If the waypoint is not used in a route, a confirmation window will be displayed. If the waypoint is being used in a route, a window is displayed informing you of the route it is used in. You need to edit the route to remove the waypoint or delete the route and then try to delete the waypoint again.

Creating a New Route

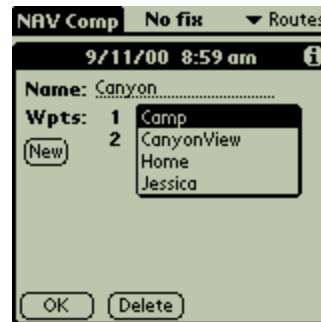
You can create and save a route in your NAV Companion. This will allow you to reuse a route if you need to. This is handy when you want to repeat a trip or journey at some future time.

To Create a Route

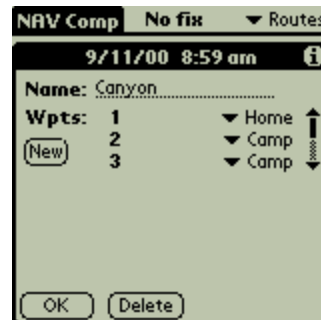
1. Access the Routes Screen and tap on the “New” button.
2. Enter a name for the route or use the default name supplied.



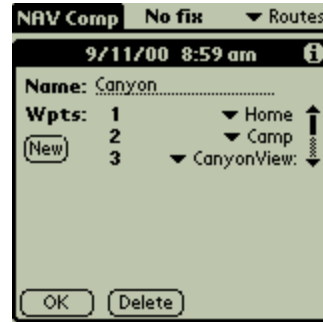
3. A list of waypoints in the order that you will be using them to navigate is displayed. To change one of the waypoints, tap on the arrow next to the waypoint name. A popup menu is displayed with a list of the available waypoints. Using the scroll bars, locate the waypoint you want to use and tap on it.



4. You can also add a waypoint to the end of the list by tapping on the “New” button. A new leg is added (in this case, leg #3) with the first waypoint in your list as a default. Just as you did in step 3, you can change this waypoint to one you want.



- At this point your route could look like the one shown here. This route begins at the waypoint name "Home". It will navigate us from "Home" to the waypoint named "Camp". Once we arrive at the "Camp" waypoint, it will continue to navigate us to the waypoint named "CanyonView".



- You can continue to add waypoints to the end of the route. When you are done, tap on the "OK" button to save the route and close the window. You are returned to the routes list with your newly created route ready to be activated or edited.

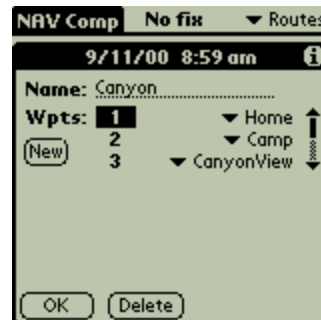
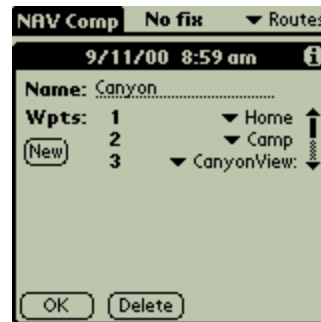


Editing an Existing Route

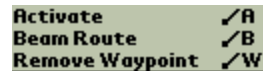
You can edit a route you have already created. In the edit mode, you can add waypoints to the end of a route, change waypoints in the route and delete waypoints from the route.

Editing a Route

1. Access the Routes Screen. Tap on the name of the route you want to edit.
2. The route is displayed just as it was the last time you saved the route. To change a waypoint, tap on the arrow next to the waypoint name and select the new waypoint from the drop-down menu. To insert a waypoint, tap on the number of the waypoint you want the new waypoint inserted before, and then tap on the “New” button. Select the waypoint for this new leg by tapping on the arrow next to the waypoint name. To add a waypoint, tap on the “New” button and select a different waypoint for the newly created leg by tapping on the arrow next to the waypoint name.
3. To delete a waypoint, tap on the number next to the waypoint name.



Next, tap on the menu icon on the Palm organizer and access the Tools menu.



Tap on “Remove Waypoint” . The waypoint is now removed from the route.

4. When you are done editing the route, Tap on the “Done” button to save your changes and return to the Routes Screen.

Activating a Go To Waypoint

A Go To Waypoint is simply a 1-leg route with a start point of your present position and a destination point that you select from the list of waypoints. Once you activate a Go To Waypoint, the NAV Companion will provide you with the information necessary to arrive at the destination.

To Activate a Go To Waypoint

1. From any screen, tap the menu icon on the Palm organizer.
2. From the Tools Menu, tap on *Go To Waypoint...*
3. A list of waypoints stored is displayed. Tap on the waypoint you want to go to. It may be necessary to use the scroll bars at the right of the list to view all of the available waypoints.
4. If you want an alarm to sound when you have arrived at your destination, tap on the alarm box in the lower right corner.
5. Tap on the "OK" button at the bottom of the display.
6. You are returned to the last screen viewed. If you view the Speed, Plot or Nav2 screen you will notice that at the top of the window the black header bar now displays "TO: <waypoint name>". All of the data and navigational information is now based on your present position and what is necessary to arrive at the destination.

Activating a Route

Any route that you have created can be activated and used to navigate on. Once a route has been activated, the NAV Companion will navigate you to all of the waypoints in the route in the order that you have saved them. Once the NAV Companion has computed that you have arrived at a waypoint in the route it will automatically begin navigating you to the next waypoint in the route.

To Activate a Route

1. From any screen, tap the menu icon on the Palm organizer.
2. From the Tools Menu, tap on *Activate Route...*
3. A list of routes stored is displayed. Tap on the route you want to go to. It may be necessary to use the scroll bars at the right of the list to view all of the available routes.
4. If you want an alarm to sound when you have arrived at the destination of each leg and at the final destination of the route, tap the alarm box in the lower right corner.
5. Tap on the "OK" button at the bottom of the display.

You are returned to the last screen viewed. If you view the Speed, Plot or Nav2 screen you will notice that at the top of the window the black header now displays "TO: <waypoint name>". All of the data and navigational information is now based on your present position and what is necessary to arrive at the destination.

Note: Activating a route will override any GOTO or route that was active.

Signal Strength Indicators

This is a bar graph showing the strength of the signals received from the satellites. Black bars indicate signals that are being used to compute positioning.

Satellite Signal Chart

The two circles indicate satellite elevation. The outer circle represents the horizon and the inner circle represents 45 degrees from the horizon. The center of the circle represents 90 degrees from the horizon. Satellites displayed as a black box with white numbers indicate satellites that are being used to compute the position.

Position Fix Indicator

Displays the status of the position fixes being computed.

No fix: Indicates poor signal strength and no position is being computed

2D: Position fix is being computed but elevation is not.

3D: Both Position and Elevation is being computed.

Last Position Computed

This is the latitude/longitude coordinates for the last position fix that was computed by the GPS Companion.

Elevation

This displays the elevation of the last computed position fix. If in 2D mode the elevation is not computed but instead is based upon the last computed or entered elevation. If in 3D mode, the elevation is computed using the satellite signals.

Trip Distance

This is the distance from the last point that you reset the trip odometer to the last computed position.

Speed

This is the speed that you are traveling.

Heading

This is the direction that you are presently heading. Note: you must be moving to display the correct heading.

Heading Compass

This is a display of your heading using a familiar compass design. Here again, you must be moving for this value to be correct.

Bearing to Destination

This is the direction you should be heading to arrive at your destination or current route leg.

Speed

This is your present computed speed.

Heading

This is your present computed heading. You must be moving for this value to be accurate.

Speedometer

This is your present computed speed displayed using a familiar speedometer format.

Odometers

These odometers display how far you have traveled since they were reset. They can be reset independently of each other.

Destination Waypoint Name

This is blank if you do not have an active route.

Heading

Your current computed heading.

Speed

The speed you are travelling as computed by the GPS Companion.

Distance to Destination

This distance is computed as a straight line from your present position to your destination.

Plotter

The arrow in the center of the plotter is your current position. The dashed line is your track (where you have actually gone). The solid line is a visual representation of your active route. Any waypoints that are stored in your organizer and are visible at the scale selected are displayed.

Plot Scale

Tap on the arrow to select a new plotter scale.

North Up or Track Up Selection

You can select to have the plotter drawn with North being referenced at the top of the screen or the direction of your present track as the reference for the top of the display.

Data Fields

Press the arrow to the left of the field name to view a drop-down menu of other data types available.

Deleting a Route

The only limit to the number of routes you can have stored is the memory of your Palm organizer, yet you still may want to delete an existing route. There is no undo. Once a route has been deleted, the only way to get it back is to create it all over.

To Delete a Route

1. Access the Routes Screen and tap on the route you want to delete.
2. The edit route window is displayed. Tap on the "Delete" button at the bottom of the window.
3. A confirmation window is displayed requiring you to tap on "OK" to continue with the deletion, or "Cancel" to abort.

Deactivating a Go To or Route

This will allow you to turn off (deactivate) the route you are navigating on.

To Deactivate a Route

1. Tap on the menu icon on the Palm organizer.
2. From the "Tools" menu, tap on "Clear Destination".
3. Tap on "OK" on the Information window.

Setting Tracklog

As you are moving and the GPS Companion is computing position fixes, the NAV Companion can display a visual representation of where you have been (also referred to as Track or Tracklog). While viewing the Plot Screen the NAV Companion allows you to:

- A. Start Tracklog: This begins the process of recording your track.
- B. Stop Tracklog: This stops any further movement from being recorded to your track until you start the tracklog again.
- C. Clear Tracklog: This erases the tracklog from your plotter display.

To Start the Tracklog

1. Tap on the menu icon on your Palm organizer.
2. Tap on "Plot" in the menu bar.
3. Tap on "Start Tracklog". (This is not displayed if a Tracklog is already in progress.)

To Stop the Tracklog

1. Tap on the menu icon on your Palm organizer.
2. Tap on "Plot" in the menu bar.
3. Tap on "Stop Tracklog". (This is not displayed if there is no Tracklog being recorded.)

To Clear the Tracklog

1. Tap on the menu icon on your Palm organizer.
2. Tap on "Tracklog" in the menu bar.
3. Tap on "Clear Tracklog...".

Beaming Waypoints and Routes

You can beam your stored waypoints and routes to another Palm organizer using the Beam function in your organizer.

To Beam Waypoint(s) or Route(s) to another Palm organizer

1. In order to beam a single waypoint or route, go to the Waypoints or Routes screen and select the waypoint or route you want to beam. Tap the menu icon on your Palm organizer. From the Tools menu, tap on "Beam Waypoint" or "Beam Route".
2. In order to beam ALL waypoints or routes, tap the menu icon on your Palm organizer while the foreground screen is other than Waypoints or Route. From the Tools menu, tap on "Beam All Waypoints" or "Beam All Routes".
3. Turn on the Palm organizer that is receiving the data. Tap on the Applications Icon and point the IR port at the Palm organizer that is sending the data. You have the option to accept or not the received waypoint(s) or route(s).

If you have any problems beaming the data, consult your Palm organizer user manual.

Accessing Help

Help files are available for screens in the NAV Companion. These help files provide you with information about the screen you are viewing.

Accessing Help

1. Tap on the menu icon on your Palm organizer.
2. Tap on "Options".
3. Tap on "Help..." from the drop-down menu.

About the NAV Companion

The “About NAV Companion” screen allows you to see what version of software you are currently using in your Palm organizer.

Accessing Help

1. Tap on the menu icon on your Palm organizer.
2. Tap on “Options” .
3. Tap on “About NAV Companion...” from the drop-down menu.

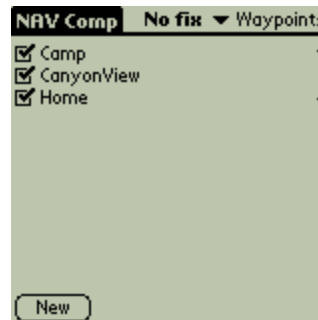
\$ Battery Level Indicator

All black indicates full battery life in the GPS Companion. As the battery levels go down, so will the black portion of the battery symbol.

Hiding & Showing Waypoints

Waypoints can be hidden or displayed on the Plot screen. This way you can control some of the clutter on the Plot screen should you have a lot of waypoints in the same area.

After selecting Waypoints, the Waypoint screen is displayed. Each waypoint has a checkbox next to its name. Tapping on the checkbox changes the status of the waypoint, (checked is displayed and unchecked is hidden).



Additionally you can hide or show all of the waypoints in the list by selecting the desired option from the menu bar.

Tap on the Menu icon and tap on Waypoints from the menu bar. You now have the option of hiding all of the waypoints (tap on "Hide All") or displaying all of the waypoints (tap on "Show All").



Deleting Hidden Waypoints

You can easily delete all waypoints that you have marked as hidden (see [Hiding & Showing Waypoints](#)).

Tap on the Menu icon and tap on Waypoints from the menu bar. Tap on the option “Delete Hidden Waypoints...” from the menu list.



A confirmation screen is displayed asking you to confirm the deletion.



Tapping on “OK” will permanently delete all waypoints that have been marked as hidden unless they are currently used in a route. A waypoint used in a route cannot be deleted until it has been removed from the route or the route has been deleted.

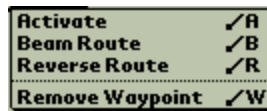
Reversing a Route

Any route in your list of routes can be reversed. This is handy if you have created and navigated on a route that you now want to use to navigate back to the place you started.

Reversing a Route

Access the Routes Screen. Tap on the name of the route you want to reverse.

Tap on the Menu icon. Tap on Routes in the Menu bar. Tap on "Reverse Route" from the menu list.



The order that the waypoints are now listed have been reversed. Tap on the "OK" button to complete the operation.

Deleting All Routes

You can easily delete all the routes from your route list.

1. Access the Route screen.
2. Tap on the Menu icon and then tap on "Routes" from the menu bar.
3. Tap on the menu item "Delete All..."
4. A Confirmation screen is displayed. Tap on "OK" to complete the deletion or tap on "Cancel" to abort.

Panning

While you are viewing the Plot screen you can pan to any point on the display and then recenter the cursor when you are done.

Panning

1. Tap on the menu icon on your Palm organizer.
2. Tap on "Plot" in the menu bar.
3. Tap on "Enable Panning".

You can now use the stylus or your finger to move ("pan") the cursor to any point on the display.

To Recenter the Cursor

4. Tap on the menu icon on your Palm organizer.
5. Tap on "Plot" in the menu bar.
6. Tap on "Recenter Map".

Customizing the Speed Screen

Any of the five data fields on the Speed Screen can be changed to display information that is valuable to you. You have the option of choosing Latitude, Longitude, Elevation, Heading, Bearing, Turn, Speed, Avg spd (average speed), Max Spd (maximum speed), ETA (Estimated Time of Arrival), TTG (Time To Go), Distance (Distance To Go), Odo (Odometer), Trip odo (Trip Odometer), trip time, Last fix, Bat Level, Bat Max, Date, Time, UTC or Blank.

Changing the Data Fields

Tap on the arrow to the left of the data field you wish to change. A popup menu is displayed with the various options available. Tap on the desired data type to select. You can tap on the up/down arrows to view more items in the list.

