

NavMate

Navigation Software User Manual



Preface MERGE

NavMate navigation software provides turn-by-turn route guidance while traveling to your destination. Before operating, take a few minutes to review the safety and operating instructions in this manual so you can quickly and safely become familiar with your NavMate software's many features.

This User Manual explains the NavMate software's functions, and provides details on:

- Using the control buttons
- Entering destinations
- Understanding the different screens available on your NavMate software
- Adjusting user preferences

Note: All users should read this manual prior to operating your NavMate software.

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NavMate Software User Manual Ver. 3.2.57 STD (480x272)

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Table of Contents

SAFETY INFORMATION AND PRECAUTIONS	6
INTRODUCTION TO YOUR NAVMATE SOFTWARE	7
VEHICLE POSITION	7
MAP AND INFORMATION DATABASE	7
NAVMATE SOFTWARE OPERATION	8
QUICK START	8
USING YOUR NAVMATE SOFTWARE	10
FUNCTION BUTTONS	10
NAVIGATION MENUS	11
LIST MODE, SPELL MODE, AND MOST RECENTLY USED	11
MAP SCREEN	13
DESTINATION SELECTION (GO TO...)	13
ADDRESS/INTERSECTION	14
POINT OF INTEREST (POI)	17
HOME ADDRESS	19
OFFICE ADDRESS	19
FAVORITES	20
ADDRESS BOOK	20
TRAIL BOOK	21
TRIP BOOK	21
LATITUDE LONGITUDE	22
PREVIOUS DESTINATION	22
BY USING MAP	23
ROUTE CALCULATION AND GUIDANCE	24
ROUTE CALCULATION	24
PLEASE PROCEED	25
ROUTE GUIDANCE	25
TRUE VIEW (INTERSECTION ZOOM)	25
MAP DISPLAY	26
CURRENT LOCATION SCREEN	26
ARRIVAL SCREEN	27
OFF-ROUTE AND ROUTE INTERRUPTIONS	28
EDIT FAVORITES MENU	28
EDIT ADDRESS BOOK	28
EDIT HOME ADDRESS	29
EDIT OFFICE ADDRESS	30
EDIT TRAIL BOOK	31
ADD TRAIL	31
NAME TRAIL	32
DELETE TRAIL	33
EDIT TRIP BOOK	34
ADD	34
EDIT	35

EDIT MY POI	36
ADD CATEGORY	36
SETUP DISPLAY	37
EDIT CATEGORY	38
ADD.....	38
ALERT	38
MODIFY	39
SET-UP MENU.....	40
NAVIGATION PREFERENCES	40
DISPLAY OPTIONS	41
UIF SETTINGS	42
DAY/NIGHT SETTINGS	42
POINT OF INTEREST	42
SET DISTANCE UNITS	42
SET TIME	43
LANGUAGE SETTINGS	43
LOCATION RESET	44
SYSTEM	44
GPS DIAGNOSTIC	45
SYSTEM INFORMATION	45
TRIP COMPUTER	46
PLANNED ROUTE.....	47
DETOUR.....	48
CANCEL ROUTE.....	49
FOLLOW TRAIL	49
APPENDIX A : NAVUTIL MANUAL.....	53
INTRODUCTION	53
SELECT DEVICE AND LANGUAGE FUNCTION.....	53
SELECT DEVICE	53
LANGUAGE	54
POI UPLOADER	55
SELECT CATEGORY FEATURE	56
MAP/VOICE UPLOADER	58
STEPS TO FOLLOW TO DOWNLOAD THE MAP DATA	58
SELECT DATABASE AREA.....	59
SELECT LANGUAGE	59
SELECT THE DESTINATION	60
THE PROCESS OF COPYING	60
REMOVE THE MEMORY DEVICE	62
BACKUP	62
RESTORE.....	63

Safety Information and Precautions

WARNING! Please read and follow the following safety precautions. Failure to follow the instructions below may increase your risk of collision and personal injury.

The *Please Drive Safely* screen is displayed each time the NavMate software is turned ON as a reminder to make use of the system's navigational aids in a safe manner.

Before using the NavMate software, read this entire manual. Make sure that you are familiar with the system's features and know how to operate the system. Proper use of the NavMate software includes the following guidelines:

The NavMate software is not a substitute for your personal judgment. The route suggestions should never supersede any local traffic regulation or your personal judgment and /or knowledge of safe driving practices. Prior to completing any maneuvers suggested by your NavMate software (for example, a U-turn or a left turn), verify that you can legally and safely complete the maneuver. Do not follow route suggestions if they direct you to perform an unsafe or illegal maneuver, would place you in an unsafe situation, or would route you into an area that you consider unsafe.

Glance at the screen only when necessary and safe to do so. Let the computer voice guide you. If prolonged viewing is necessary, pull off the road to a safe location.

Do not use the NavMate software to locate emergency services (such as police, fire stations, hospitals, and clinics). The database may not include all emergency service providers. Use your own best judgment and ask for directions in these situations.

If the vehicle is in motion, only a passenger should program the NavMate software. The driver should not program the system unless the vehicle is parked in a safe location.

The NavMate software's map database provides information on suggested routes without regard to factors that may affect your driving experience or the time required to arrive at your destination. For example, the system does not reflect road detours, closures or construction, some road characteristics (e.g., road surface, slope or grade, weight or height restrictions, etc.), temporary traffic congestion, weather conditions, and similar factors.

Introduction to Your NavMate Software

NavMate software provides turn-by-turn visual and voice assistance to direct you to your selected destination. The software quickly calculates step-by-step directions to any destination available on the included navigation map.

The NavMate software uses Global Positioning System (GPS) satellites, and a digital roadway map database to calculate and display travel directions. The system's GPS antenna receives signals from a constellation of 24 satellites orbiting the earth and uses the strongest of signals, to determine your position to within meters.

Vehicle Position

The NavMate software's computer considers vehicle speed and heading changes, together with longitude and latitude information, to accurately determine vehicle heading and position on a digital map.

Signals from GPS satellites are used to determine the vehicle location. Three (good) or four (best) satellites must be received to accurately determine location. The GPS reception status is indicated by the GPS symbol on the map.

Map and Information Database

The map database used by your NavMate software was created using high-resolution aerial and land based data collection.

Car navigation maps are frequently updated. While the database was judged to be as accurate as possible at the time of its release, a map database can never be 100% accurate. Road information that is maintained in the map databases, such as turn restrictions or road names may change over time.

NavMate Software Operation

Quick Start

Follow these four easy steps and you are on your way.

Before operating your NavMate software, please carefully read and follow the instructions provided in the "Safety Information and Precautions" section of this manual.

Step 1 -- Start up/Main Menu

After the NavMate software starts, you will see the reminder warning to use your NavMate software safely and lawfully.

Warning Screen



Main Map Screen



Step 2 -- Select Destination

You have many ways to select a destination. For this example, let's find a nearby Airport.

Select by touching screen:



- icon (F3) to activate main menu.
- **Start Route Guidance**
- **Point of Interest**
- **State/Province NOTE:** *The software remembers the last State/Province, so this step is not necessary every time.*
- **By Category**
- **Airport**
- **Sort by Distance**
- Select one of these and the system will calculate a route to that destination using the criteria set in the Setup menu.

Step 3 -- Map/Guide along Route

Proceed to the highlighted route and drive while the NavMate software provides audible and visual guidance to your destination.



Step 4 -- Arrive at Destination

That's it! You've arrived at the selected destination. Refer to the rest of this manual to become more familiar with the many options available on your NavMate software.



Using Your NavMate Software

The best way to learn about this product is to explore it, while observing the safety precautions discussed earlier.

Function Buttons

The buttons on the bottom of the display are called function buttons. These buttons change labels and function depending on the screen displayed.

The list below provides a brief description of the function buttons.

Function Buttons

	Exit from Navigation
	Zoom in the map to show a smaller area
	Zoom out the map to show a larger area
	Return to Map mode
	Center map on current vehicle location
	Display menu, jump to main menu.
	Display map in 3D view.
	Display map in 2D view.
	After panning map, select current panned position.
	Select currently highlighted item.
	Display spell mode.
	Page up in displayed list.
	Page down in displayed list.
	Go back one step.



Navigation Menus

The table below briefly describes the Main Menu options.

Main Menu Options At-A-Glance



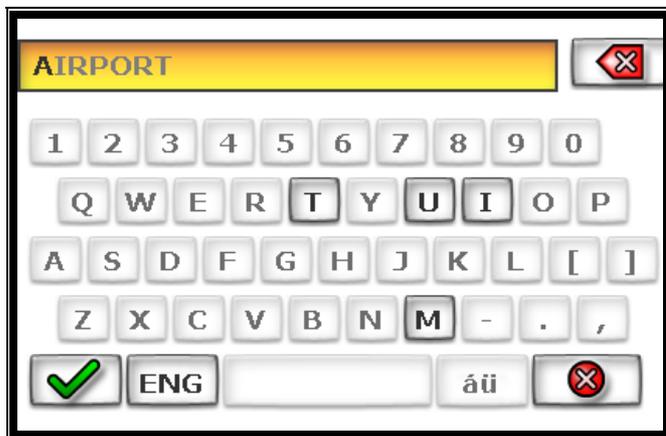
Main Menu Option	Select this Option to...
Go to...	Pick a destination for routing.
Edit Favorites	Add or modify destinations in Address Book, Home Address, Office Address Trail Book and Trip Book
Setup	Set preferences for routing and navigation display.
Trip Computer	Display Speed, Trip, Odometer and Clock readings.
Home Address	Route to home address
Office Address	Route to office address

List Mode, Spell Mode, and Most Recently Used

There are five ways to select a destination. Several of the methods allow you to move through a list by scrolling using the arrow keys (List Mode) or by searching using an on screen keyboard (Spell Mode):

Many of the lists keep track of the last five most recently used (MRU) selections. These are placed at the top of the list in a different color and allow you to quickly select items that are used frequently. The pictures below illustrate the List Mode and Spell Mode screens.

List Mode and Spell Mode



Most Recently Used Portion of List



Spell Mode Buttons

Button	Mode	Press This Button to...
--------	------	-------------------------

	Spell	Select currently input characters and show list of matches.
	Spell	Delete last entered character.
	Spell	Switch keyboard from QWERTY layout to special character layout.
	Spell	Switch keyboard from special character layout to QWERTY layout.
	Spell	Quit Spell Mode and return to List Mode.

Map Screen

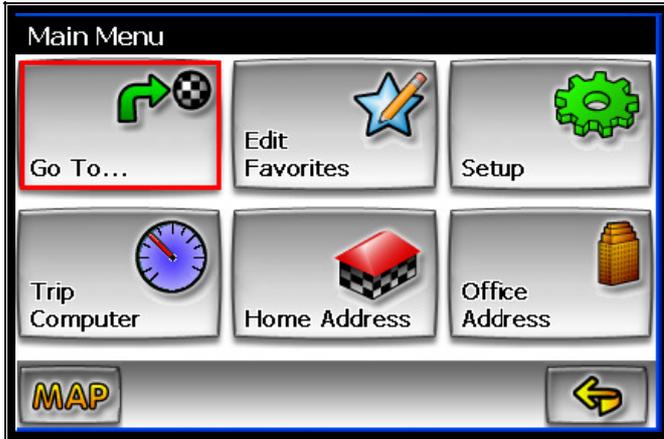
The table below explains the button functions available on the Map Screen.

Map Buttons

Button	Press This Button to...
F1 	Show smaller map area.
F2 	Show larger map area.
F3 	Show Main Menu.
F4 	Change type of map view.
F5 	If no active route, select current location.
F6 	Exit

Destination Selection (Go To...)

To select a destination, you must select "Go To..." from the Main Menu.



The table below explains the button functions available on the Destination Selection Menu.

Destination Selection Buttons

Button	Press This Button to...
F1 	Return to map mode
F3 	Return to main menu.
F6 	Go back one step.

Address/Intersection

If you know the street address or cross streets of your destination, use the "Address/Intersection" selection. You must select the State/Province where the destination is located. **NOTE:** The system remembers the last State/Province selected, so this step is not necessary every time.

Address/Intersection Selection

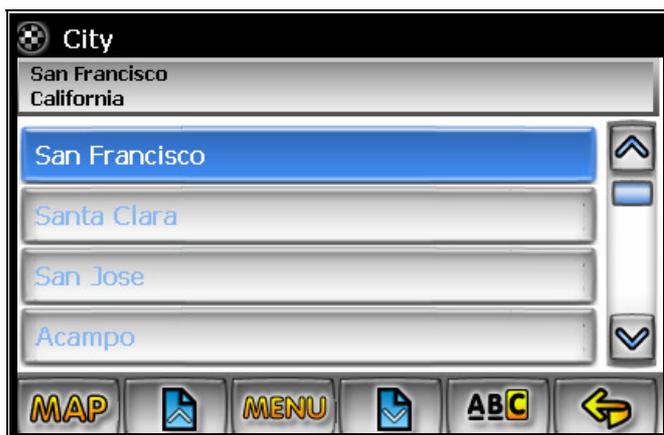


The screen is titled "Address or Intersection" and features a grid of six input fields. The top row contains "State/Province: CA" (with country options USA, GB, D, F), "Postal Code" (with an envelope icon), and "City Name" (with a building icon). The bottom row contains "Street Name" (with a street sign icon), two empty text boxes, and a "MAP" button. At the bottom are "MENU" and a back arrow button.

You may select either the Postcode or City Name or the Street Name first.

- *Postcode* – If you know the postcode, select this option to quickly find the city. Note: The postcode search is limited to the currently selected State/Province. Postcode searching may not be available in all areas.
- *City Name* - If you know the city and street, select this option. You could use the "Street Name" option instead, but it is quicker and easier to use the "City Name" option when you know both parts of the address.
- *Street Name* - If you know the street name but you are not sure of the city, select this option. You might use this option, for example, if you were in a large metropolitan area and a street continues through multiple cities and you are not sure of which city is appropriate for the street.

Select City



The screen is titled "City" and shows a list of cities: San Francisco, Santa Clara, San Jose, and Acampo. "San Francisco" is selected and highlighted in blue. The list is contained within a scrollable area with up and down arrow buttons on the right. At the bottom are "MAP", a home button, "MENU", a back button, "ABC", and a back arrow button.



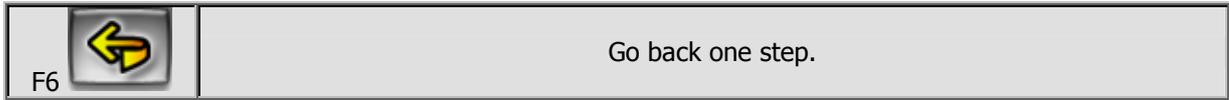
Select Street



If you selected the "City Name" option, continue by following the prompts on the display screen to select a city first, then street, then address number or intersection. If you selected the "Street Name" option, follow the prompts to select a street name, then a city, then a street address or intersection.

Select State or Province/City/Street List Mode Buttons

Button	Press This Button to...
F1 	Return to map mode
F2 	Page up in displayed list.
F3 	Return to main menu.
F4 	Page down in displayed list.
F5 	Switch to Spell Mode.



Point of Interest (POI)

The Point of Interest option is useful when you are going to a public place or are looking for some type of facility such as a gasoline station. After selecting the Point of Interest option, you must select the State/Province where the destination is located. **NOTE:** The system remembers the last State/Province selected, so this step is not necessary every time.

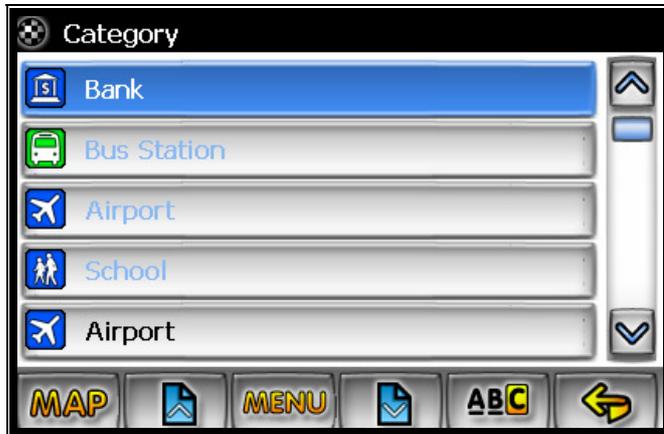
Points of Interest may be searched by Category, Postcode, Phone Number, or Name.

POI Search Methods



- *By Category* - If you are interested in the closest POI of a certain type for example nearest gas station, select this option.
- *By Name* - If you know the name of the Point of Interest for example "COLUSSEUM", select this option.
- *By Postcode* - If you know the postcode, select this option to quickly find the city. Note: Postcode search is limited to the currently selected State/Province. Postcode searching may not be available in all areas.
- *By City* – You can select the city also.
- *By Phone Number* – If you know the phone number of the desired POI, select this option to quickly find the POI. Note: The phone number search is limited to the currently selected country. Phone number searching may not be available for all POIs.

POI Category



POI Name Speller



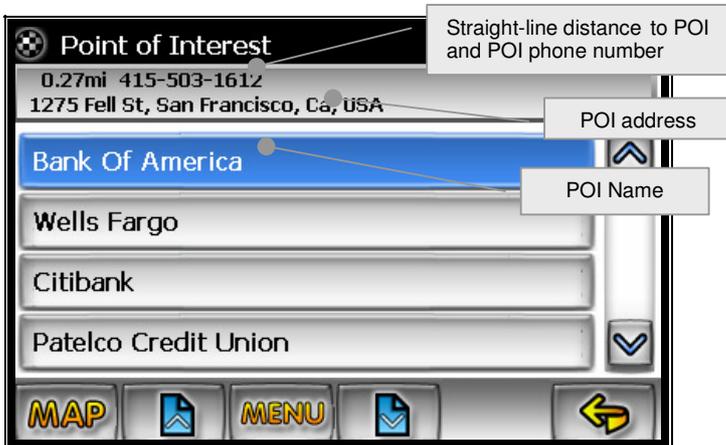
Some POI categories may not be available in some areas and not all possible POIs may be listed for all categories. For example, although the "Restaurant" category is very extensive, it is only as current as the map database information. Several categories restrict the search radius as well to minimize the search time.

Since businesses change over time, so will the accuracy of the points of interest in your navigation map. To have the most accurate map database, annual map database updating is recommended.

After selecting POI search criteria, you may select to list the results sorted by distance or by name.



POI Search Results



Home Address

The Home Address is a convenient way to route to your saved home address directly.



Office Address

The office Address is a convenient way to route to your saved office address directly.



Favorites

There are three additional ways to set your destination under Favorites:

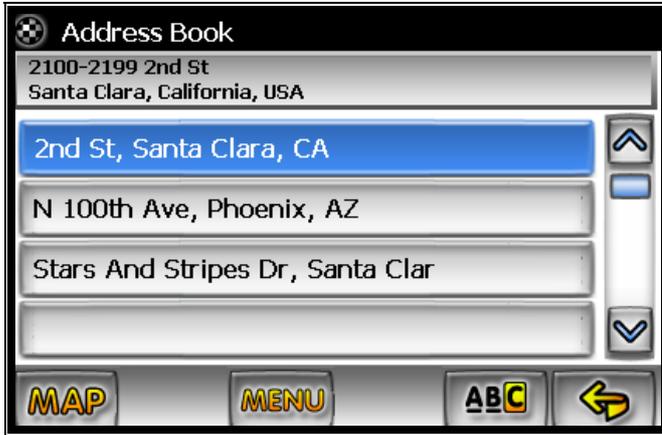


Address Book

The Address Book is a convenient place to store frequently visited destinations.

To add, delete, or edit address book entries see "Address Book Editing" section of this manual.

Address Book Entries



Address Book Selection Buttons

Button	Press This Button to...
F1 	Exit menu mode and return to map mode
F2 	Page up in displayed list.
F3 	Return back one menu level.
F4 	Page down in displayed list.
F5 	Display spell mode.
F6 	Go back one step.

Trail Book

You can route to trails you have created. To add, delete, or edit Trail Book entries see "Edit Trail Book" section of this manual.

Trip Book

Trip Book allows you to navigate a trip that has multiple destinations. To add, delete, or edit Trail Book entries see "Edit Trip Book" section of this manual.

Latitude Longitude

You can route to a destination by directly inputting latitude and longitude values.



Previous Destination

Previous destinations entered into your NavMate software are automatically saved into the memory of the NavMate software. This is helpful when you want to return to a recent destination, such as a hotel where you may be staying. The Previous Origin of the last calculated route is also stored for easy return to your start point.

Previous Destination Selection



Previous Destination Selection Buttons

Button	Press This Button to...
F1 	Exit menu mode and return to map mode
F2 	Page up in displayed list.
F3 	Return back one menu level.

F4		Page down in displayed list.
F6		Go back one step.

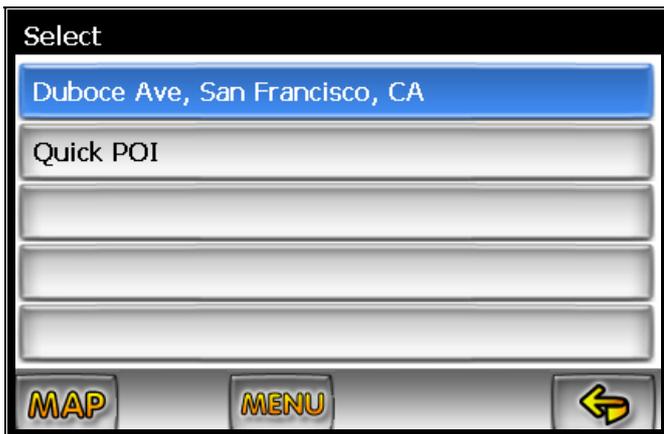
By using Map

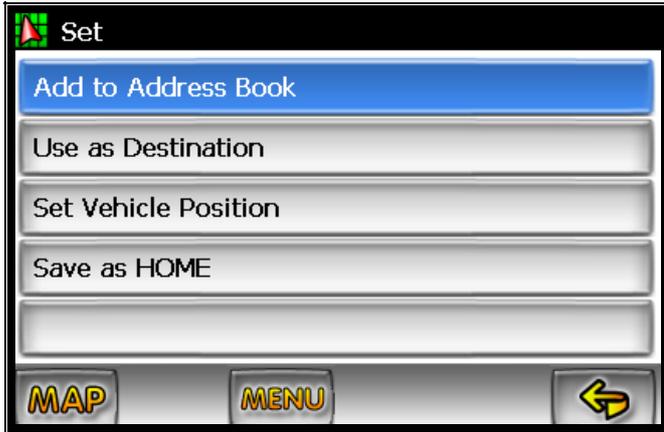
You may select the destination by touching the screen. The system will display the cross hairs according to the location you touch.

Select Destination from Map



Press current position  to display location information about the current panned location. Select the highlighted entry to select the panned location for the following options.





Select Destination from Map Buttons

Button	Press This Button to...
F1 	Return to map mode
F3 	Return to main menu.
F6 	Go back one step.

Route Calculation and Guidance

After selecting a destination, the system calculates a route based on the route criteria set in the Setup Menu.

Route Calculation

The status bar indicates route calculation progress.

Route Calculation Progress



Please Proceed

When route calculation is complete, the NavMate software will instruct you to "Please proceed to the highlighted route" unless you are already on the route. The highlighted route is indicated in magenta.

Route Guidance

Once on the highlighted route, guidance information is provided on the screen. Glance at the screen only when necessary and safe to do so.

As you continue on the route, the guidance information is continually updated to correspond with your progress to the destination.

Road name or sign information for upcoming turn

Distance and time to next turn

Line to destination

ETA

Guidance display

The screenshot shows a navigation interface with a map. A yellow highlighted route is shown. At the top, it says "San Jose/US-101 South". Below that, a box displays "0.22mi" and "00:00 13". The map shows several streets including Napoleon, Mullen, Montezuma, 25th, and Utah. A red arrow indicates the current position. At the bottom, it says "Potrero Ave, San Francisco, CA" and a box displays "24mi" and "14:18". On the left side, there are icons for a turn, a speed limit sign (280), a time (13:54), "DEMO", "GPS", a compass, and a scale bar (1/8mi). On the right side, there is a blue wrench icon. Callout boxes with lines pointing to the map identify: "Road name or sign information for upcoming turn" (pointing to the Utah street sign), "Distance and time to next turn" (pointing to the 0.22mi/00:00 13 box), "Line to destination" (pointing to the yellow highlighted route), and "ETA" (pointing to the 14:18 box).

True View (Intersection Zoom)

Just before a turn point, the guidance display will show a close-up or "true view" of the roads around the turn point.

True View (Intersection Zoom)

The screenshot shows a close-up view of a street intersection. At the top, it says "3rd St". Below that, a box displays "0.24mi" and "00:00 24". The map shows streets including Ceres, 3rd, and Keith. A red arrow indicates the current position. At the bottom, it says "Wallace Ave, San Francisco, CA" and a box displays "1.4mi" and "14:02". On the left side, there are icons for a turn, a speed limit sign (280), a time (13:59), "DEMO", "GPS", a compass, and a scale bar (1/8mi). On the right side, there is a blue wrench icon. Callout boxes with lines pointing to the map identify: "Road name or sign information for upcoming turn" (pointing to the 3rd St sign), "Distance and time to next turn" (pointing to the 0.24mi/00:00 24 box), "Line to destination" (pointing to the yellow highlighted route), and "ETA" (pointing to the 14:02 box).

Map Display

The Map Display shows roads, road names, and cartographic features like lakes and rivers. You can adjust the map scale, the map orientation, map view, status information display, and the distance units to your own preferences (See Setup section of this manual).



The GPS symbol may change colors indicating the strength of the signal. The GPS symbol colors mean:

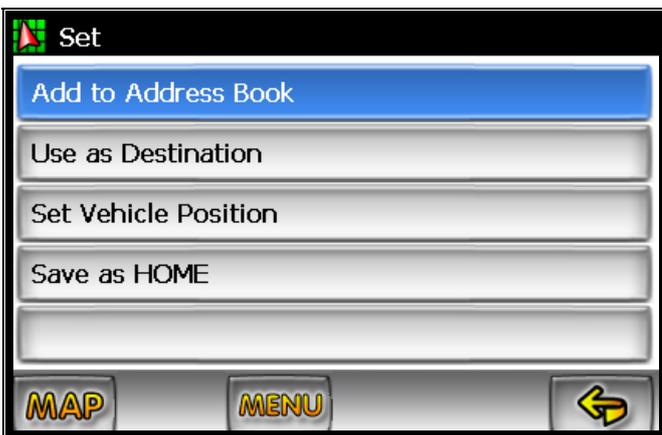
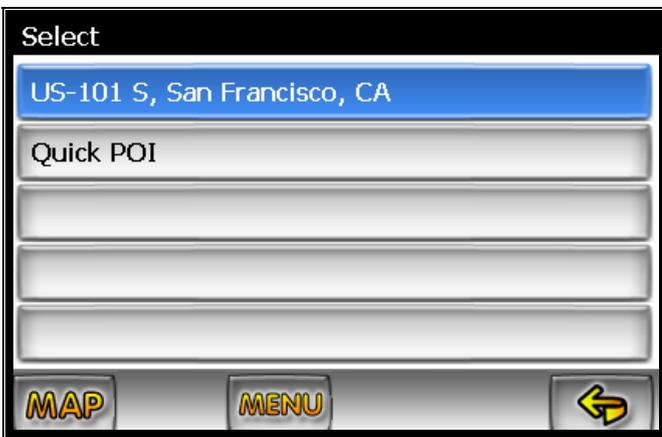
- Green - GPS signal is free from obstruction and is being received regularly. At least four satellites are being received.
- Yellow - GPS signal is partially obstructed. Three satellites are being received.
- Red - GPS signal is unavailable. Two or fewer satellites are being received.

- Click  to display Function buttons.

Current Location Screen

Press current position  to display information about the current map location. Then select the location information box to add it to address book, use it as a destination, re-set position, or save location as HOME location.

Current Location Screen



Arrival Screen

The destination is shown on the Map Display screen with a circle. A voice message announces that you are approaching your destination.

Arrival Screen



Off-Route and Route Interruptions

If you leave the current route, the NavMate software will automatically recalculate the route. This feature may be disabled if you prefer by turning "Auto Recalc Off" in the Setup menu.

If you leave the route to make a stop, the NavMate software remembers your destination. After you re-start, the NavMate software will ask if you want to continue your route.

Edit Favorites Menu

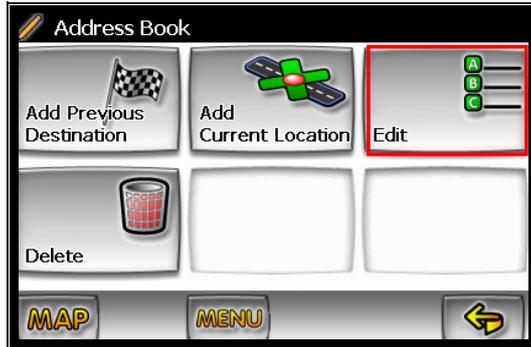
Add or modify destinations in Address Book, Home Address, Office Address, Trail Book and Trip Book.



Edit Address Book

The "Address Book" option allows adding and editing address book entries.

Select "Edit Favorites" from the Main Menu then select "Address Book":



Use Edit function to rename address book entry.



Edit Home Address

The "Home Address" option allows adding or replacing home address.



Select home address from the following places.



Edit Office Address

The "Office Address" option allows adding or replacing office address book.



Select office address from the following places.

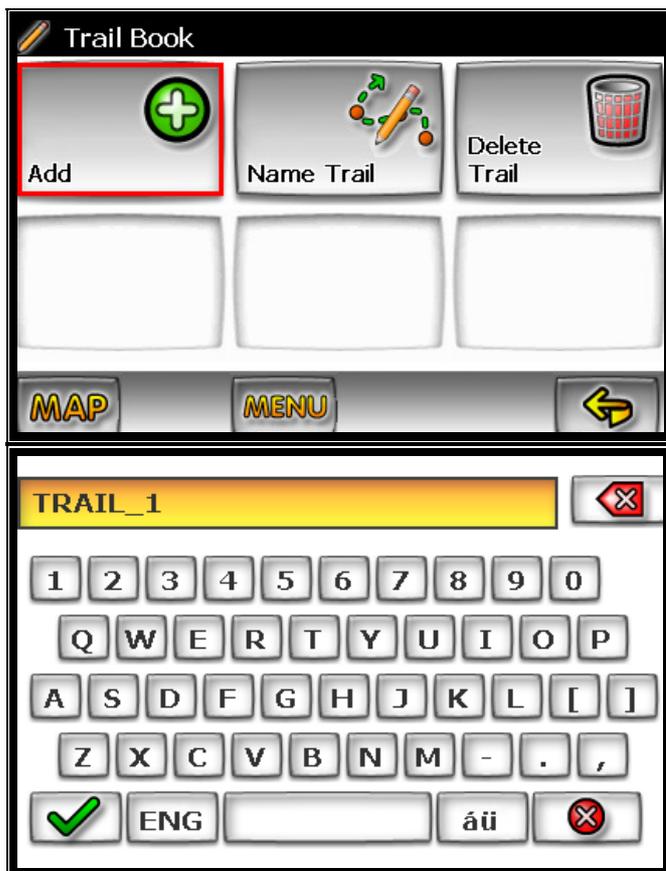


Edit Trail Book

The "Trail Book" option allows adding, deleting an editing trail book entries.



Add Trail





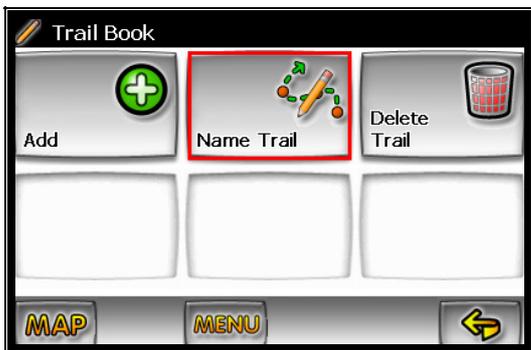
Press current position to add a waypoint:



Press Menu icon and select Stop Trail when you complete the trail:

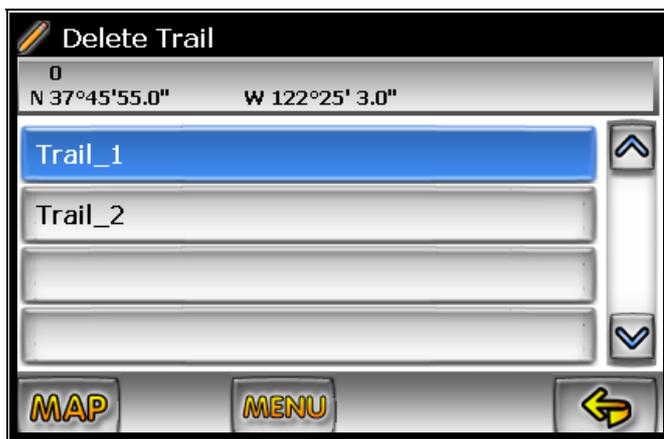
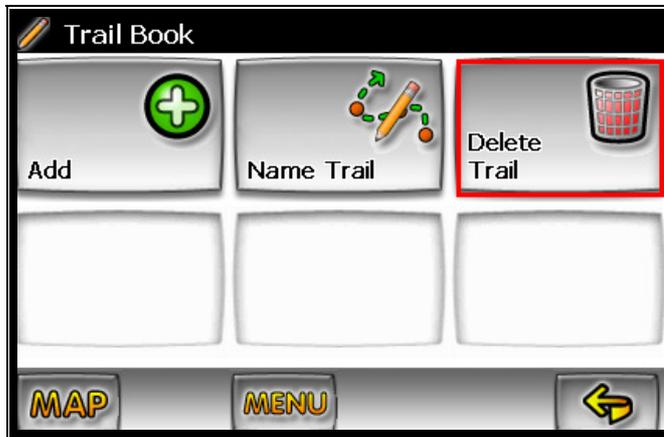
Name Trail

After select the saved trail use the keyboard to rename the trail.



Delete Trail

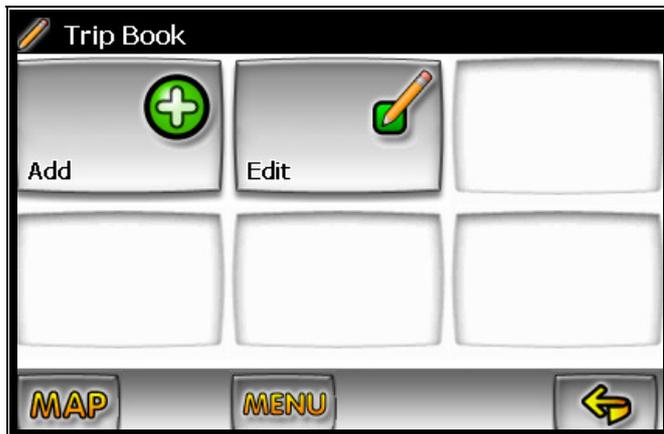
Select Delete Trail then chooses the trail name to remove it from the system.



Edit Trip Book



Edit Trip Book allows adding and editing trips and destinations within a trip.



Add

Add allows adding trips and destinations within a trip.

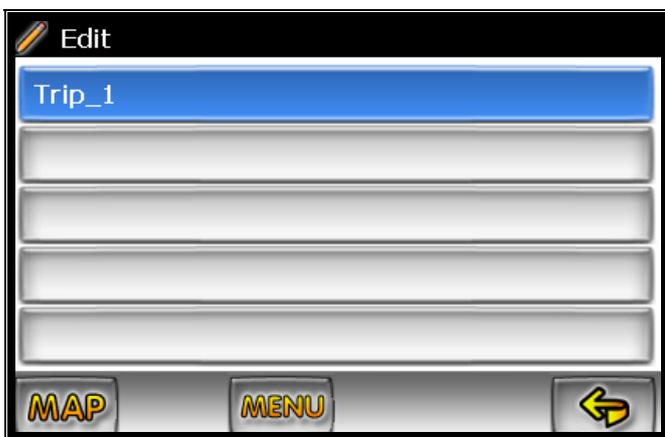


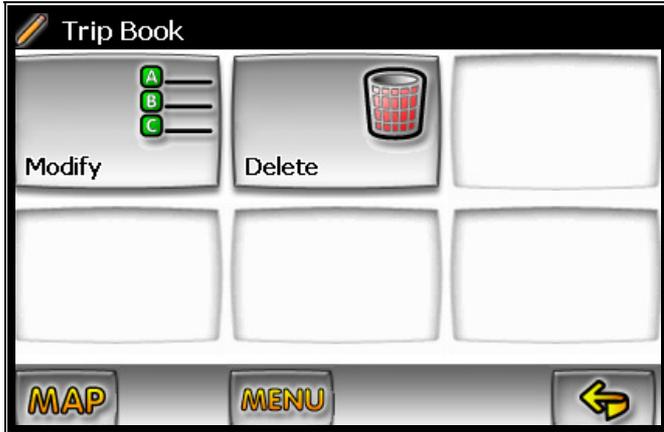


Press  to add additional destination or press  to delete an existing destination in a selected trip.

Edit

Edit allows modifying destinations within a trip and or deleting an existing trip.





Edit My POI

The user can create personalized categories of Point Of Interest.



Add Category

In order for My POI to work properly, a category needs to be created first before adding a destination as a POI. Use keyboard to create a new POI category name.



Setup Display

By selecting the map scale, the user can hide or unhide the POI's display on the selected map scale view.





Edit Category

The user can modify or delete the selected POI category



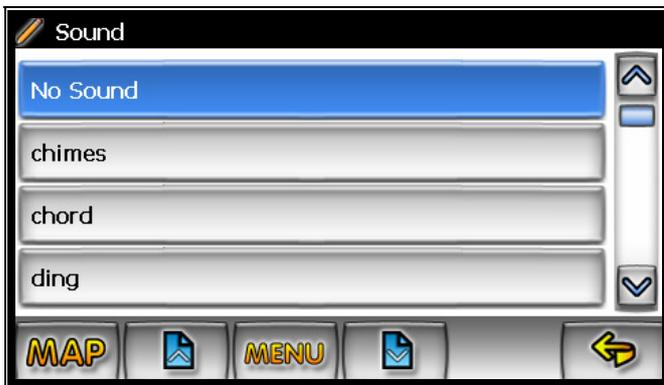
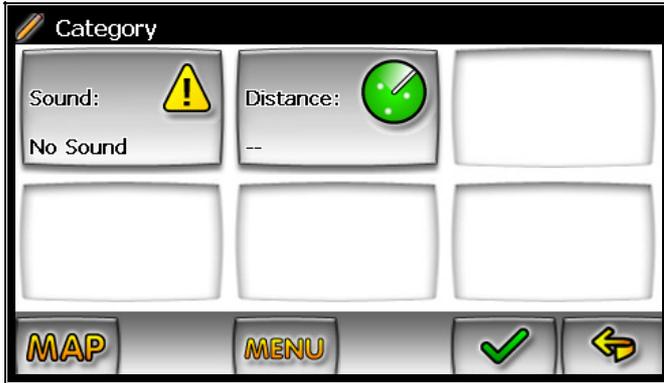
Add

By selecting a destination, the user can add this destination as a POI to the POI category you have created.



Alert

By selecting sound and distance the system will alert you when you are approaching the POI destination.



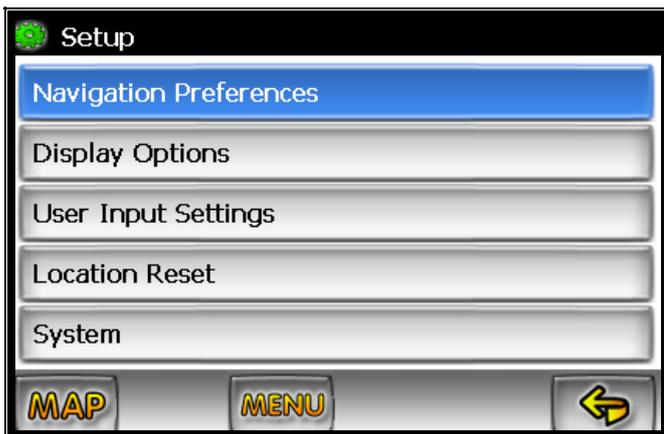
Modify

The user can modify the POI items by category, by name or by phone number. The POI names can be edited or deleted from the list.



Set-up Menu

You may customize the NavMate software to your own preferences. Select Set-up option to adjust navigation preferences, display options, and units (km or mi) settings. You may also reset the vehicle position and do some basic system diagnostics through the Setup Menu.



Navigation Preferences

Navigation Preferences allows you to set the simulation mode on, and set the route calculation and guidance options.



- Simulation On/Off – When On, the NavMate software will “drive” the selected route even though the vehicle is not moving. This can be used to preview a route, or show off the system to friends.
- Shortest time/distance – Determines if the NavMate software emphasizes finding the fastest or the shortest route.
- Avoid Freeway yes/no – Determines if the NavMate software avoids or uses freeways in the route calculation.
- Toll Yes/No – Determines if the NavMate software uses toll roads in the calculated route.
- Auto recalc On/Off – When On, the NavMate software will automatically recalculate the route if the current route is left.
- Voice Guidance On/Off – When On, the system will give audible guidance.

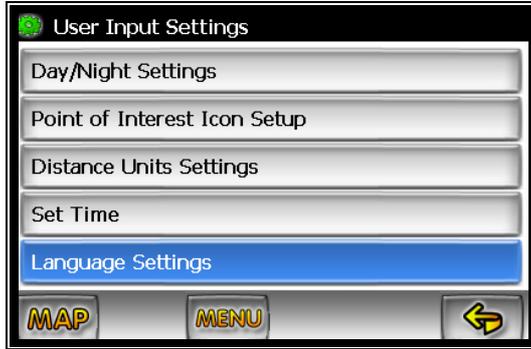
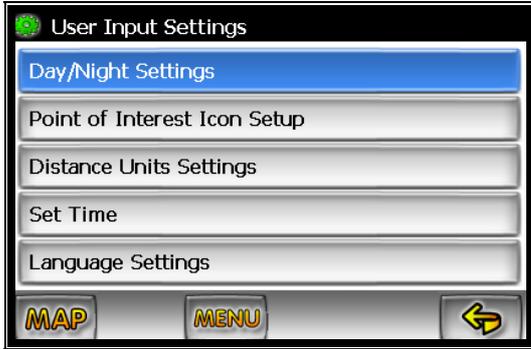
Display Options

Display options allow you to set the map orientation and some of the information items displayed.



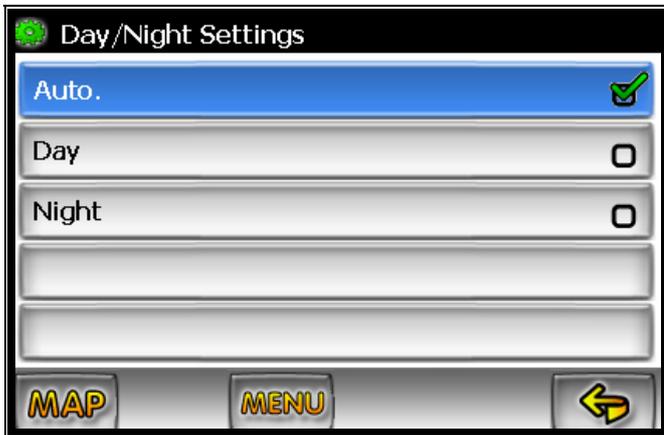
- North Up/Heading Up – Determines if the map is always displayed with North direction at the top of the screen or if map is always adjusted so that vehicle symbol points toward the top of the screen.
- Status Bar Display On/Off – Turn the display of the Status Bar on or off.
- GPS Icon Display On/Off – Turn the display of the GPS reception symbol on or off.
- Scale Icon Display On/Off – Determines if the map scale symbol is shown.
- Compass Icon Display On/Off – Turn the Compass symbol on or off.
- Next Maneuver On/Off – Set the display of the turn symbol.
- Soft Keys Auto-hide On/Off – Turn the function key display on or off
- Intersection Zoom On/Off – Turn the true view on or off.

UIF Settings



Day/Night Settings

You can select Auto, Day or Night color scheme.



Point of Interest

This feature will allow you to select POI that will be displayed in different scales.



Set Distance Units

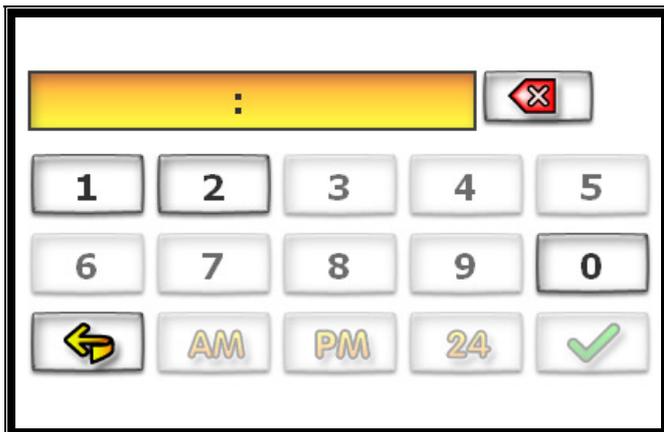
The units used when displaying and announcing the distance to turns may be set to Miles (decimal miles, e.g. zero point three miles), Kilometers/meters, or Miles/yards based on personal preference.

Distance Units Selection



Set Time

Set Time



Language Settings

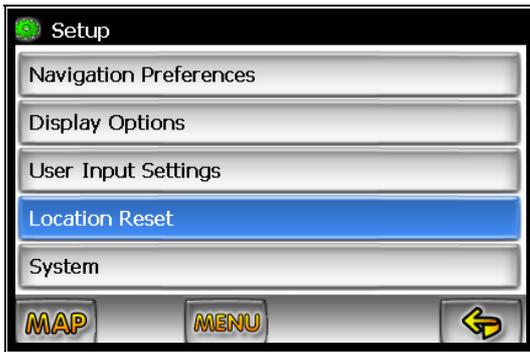
Language Settings

You can choose one of the following languages/voices:



Location Reset

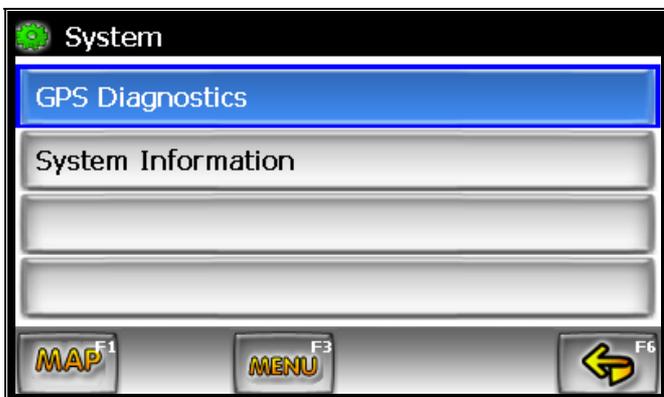
You may reset the location of the vehicle symbol using the Location Reset option.



System

The System Diagnostics menu allows you to diagnose the GPS reception status, adjust the current vehicle symbol position, and it also provides information on the current software and map version numbers.

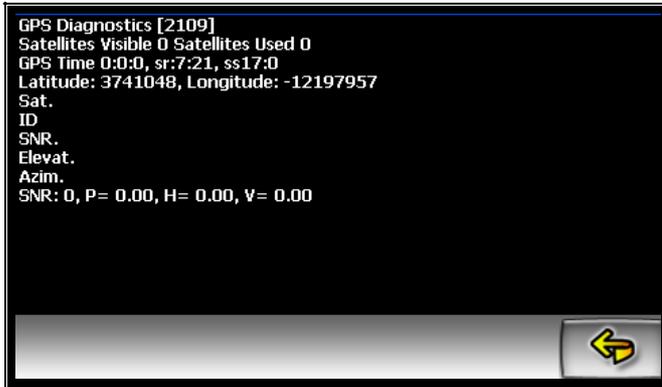
System Menu



The GPS diagnostic displays the number of GPS satellites currently in view and how many are currently being used. The GPS satellite time is displayed (UTC) and so is the latitude and longitude determined from GPS.

GPS diagnostic

GPS Diagnostic Test Result



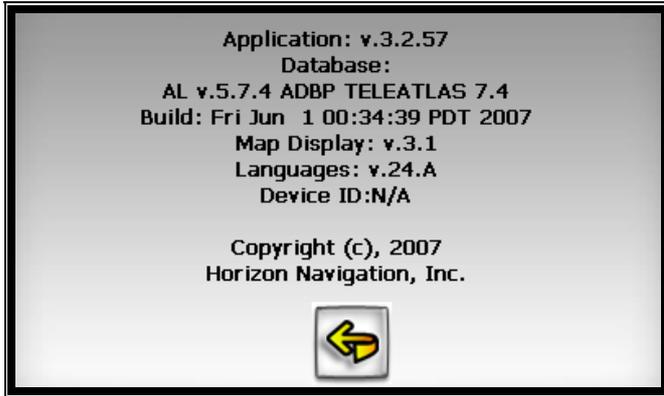
To reset the vehicle symbol based on the GPS determined longitude and latitude, select GPS VP reset.

The version numbers for the system software and mapping can be found under System Information.

System Information

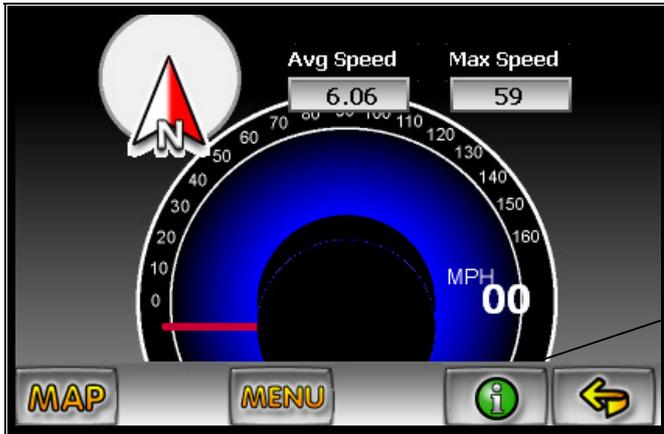
System Information





Trip Computer

Trip Computer gives the readings of speed, trip related timing, elevation, odometer and clock.



Detailed Readings

Press  to display detailed reading of each field.



Reset readings

Scroll the Up or Down arrow button to choose the field then press  to reset current reading.



Planned Route

To view planned route on a highlighted route click the Yellow Maneuver Icon and the system will display the entire route list.





Detour



Detour Distance

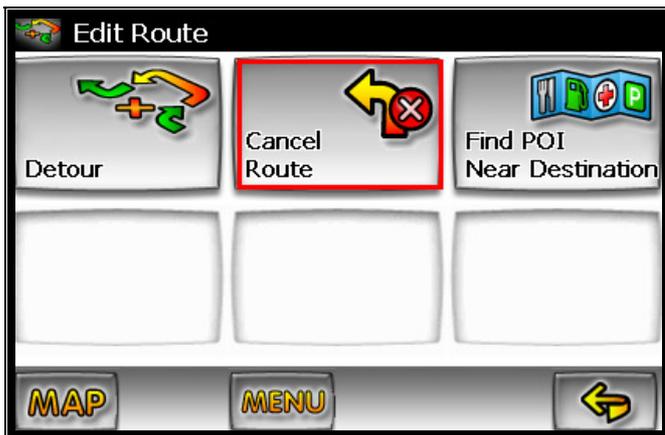


Avoid Specific Road



Cancel Route

Select this function to cancel the current route.



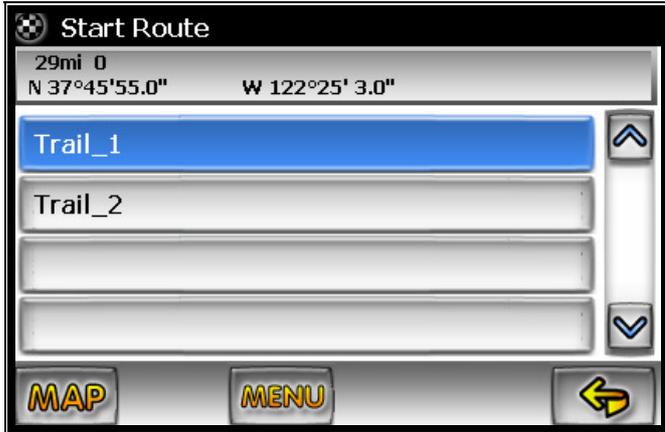
Follow Trail

Next time when you go off-roading, you can follow the same trail you created by selecting "Start Route Guidance" then select "Trail Book" and finally select an existing trail.



You will see the following screen upon selecting a trail:





You can select to go to any points in this trail as a starting point. Upon your selection, the system will point you with a red line to that starting location. You will follow the red line to the starting point and start your trail blazing by following the dotted line.





Press Menu Icon  then select "Stop Trail" to cancel route.



Appendix A : NavUtil Manual

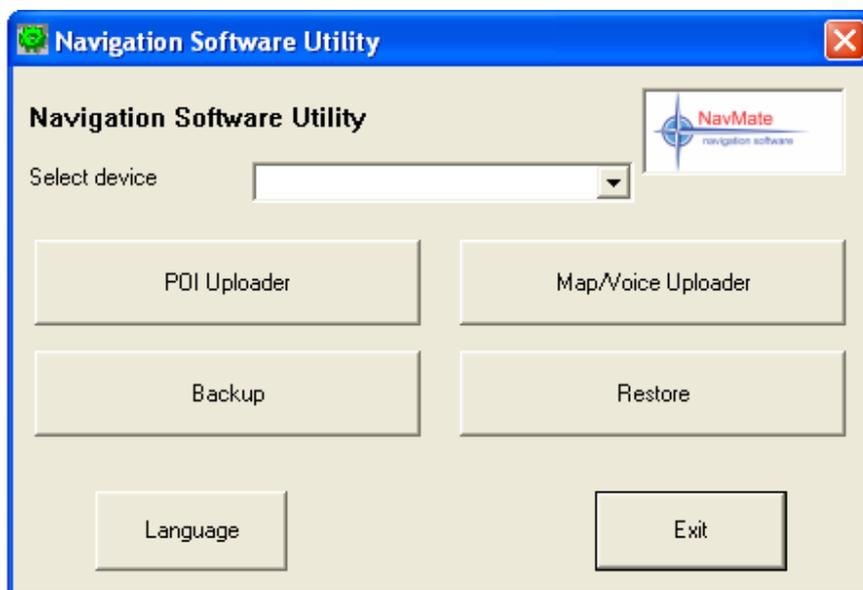
Introduction

Navigation Software Utility (NavUtil) has 4 major components:

- 1) POI Uploader
- 2) Map/Voice Uploader (**For installing Navigation System on memory card or HDD**)
- 3) Backup
- 4) Restore.

This utility helps the user to upload/download POI files, map and voices files, backup the user specific data files and also to restore user specific data files into the navigation unit.

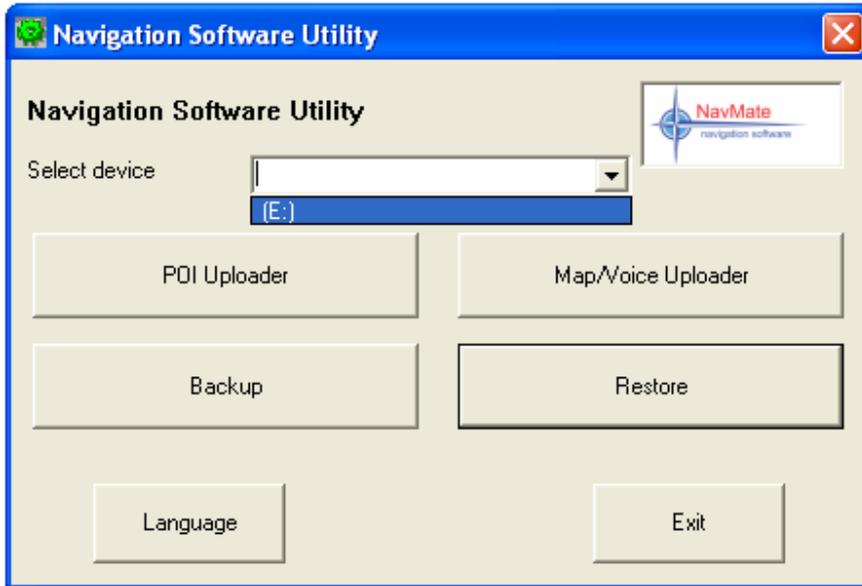
The NavUtil Tool pops up when the DVD is inserted into the PC. As per the requirement the tool can be used for further usage. Please refer to following screen:



Select Device and Language function

Select Device

Select Device allows you to access your navigation SD card or navigation device. For example, if your navigation SD card is inserted in E: drive, you will be able to select it.



Language

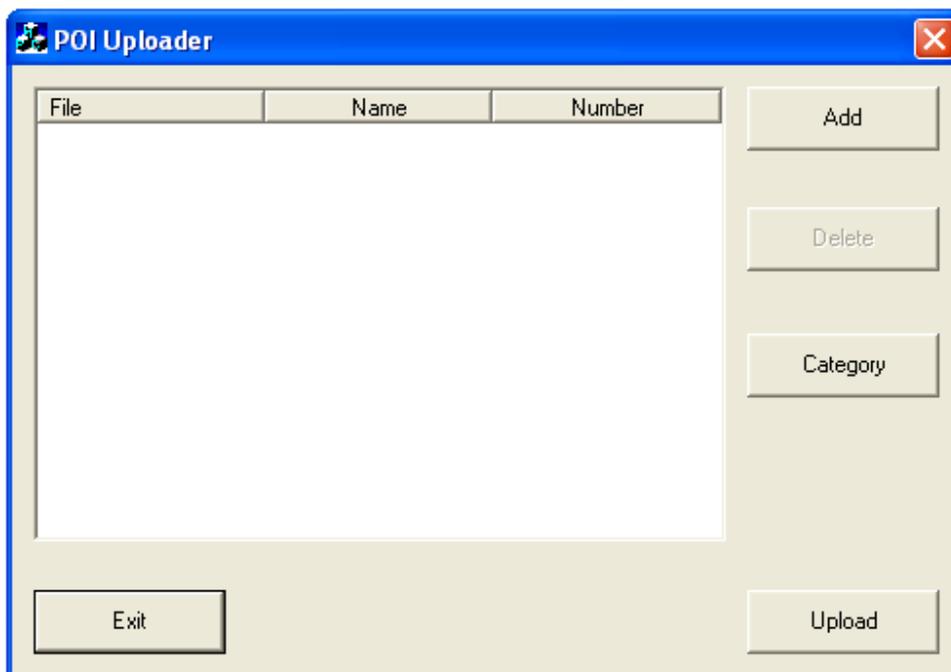
It allows you to select different languages when running NavUtil. So far it supports US English, UK English and Russian.

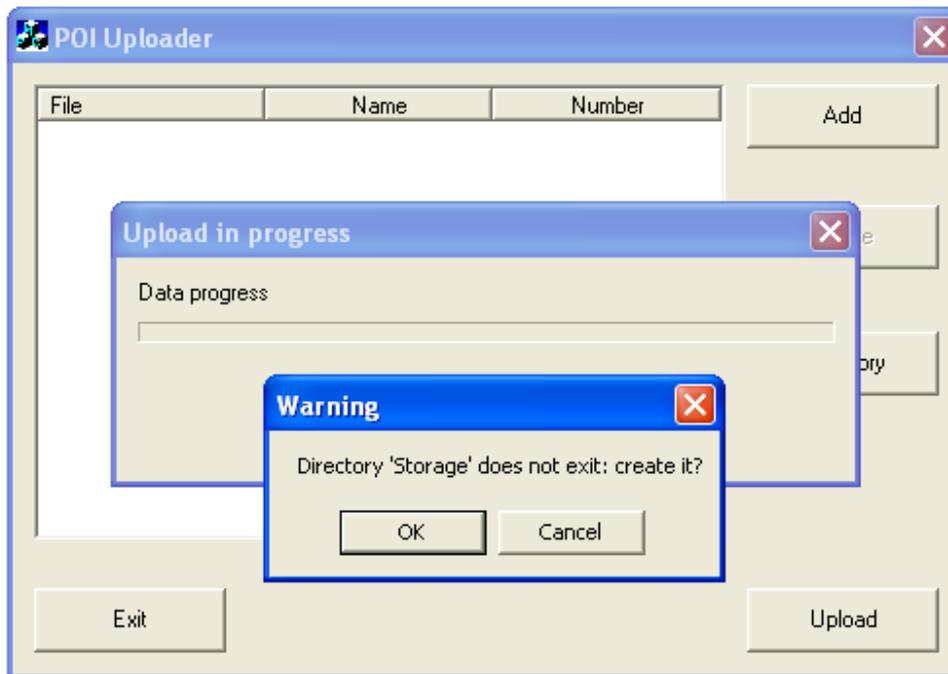
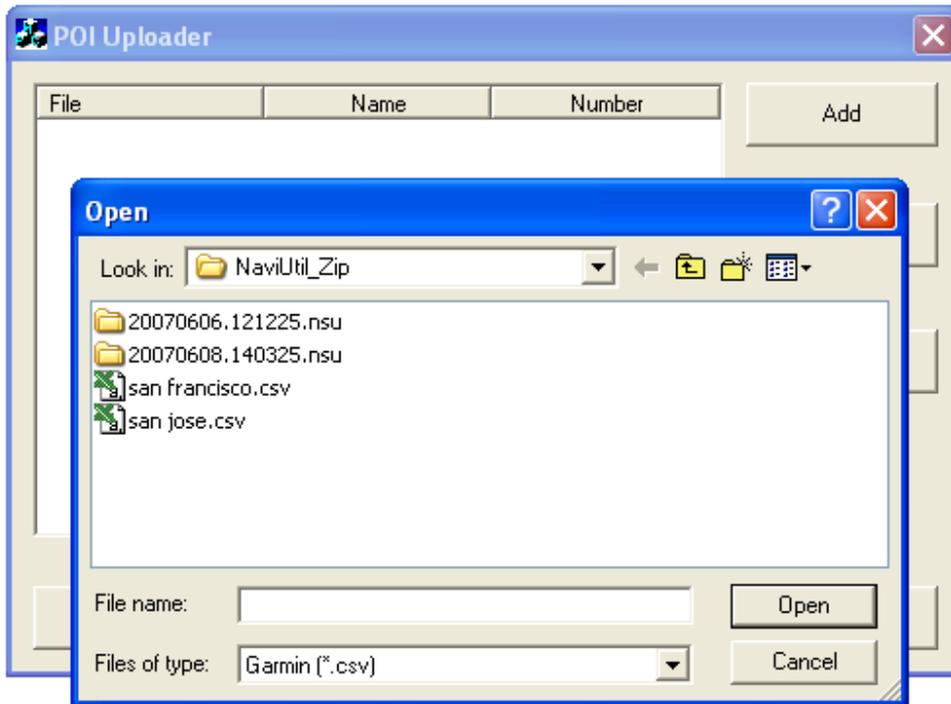


POI Uploader

POI Uploader intended to edit and upload POI categories and import and upload list of POI's. When POI Uploader is started it shows list of POI imported files. Whatever files the user needs to upload should be collected and loaded.

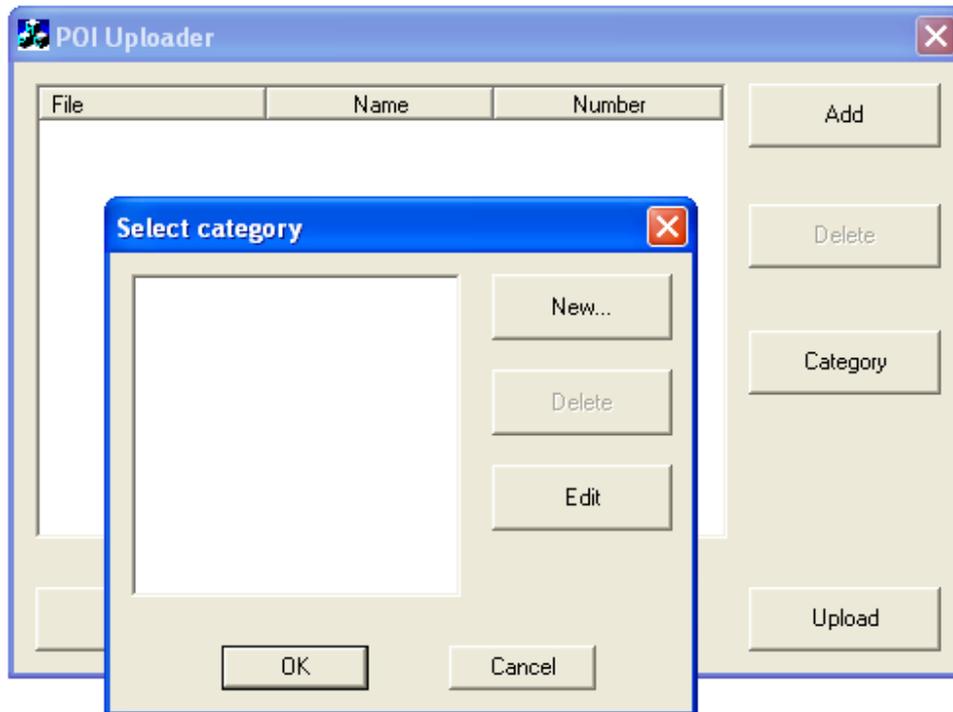
- Button "Add" adds new file to import list. By activating this button, "Open file" dialog box appears. If a file is chosen then "Select category" dialog box appears. If category is selected or created (by new button) and assigned to the file, file name will be inserted in POI file list in front of main dialog box.
- Button "Delete" allows deleting one or more selected files. When button is activated a message box with prompt to delete appears. If user presses "Yes" selected file will be removed from the file list. If "No" button is pressed, deleting process will be terminated. "Delete" button will be disabled till; at least, one (or more) files will be selected in the file list.
- Activating "Category" pops up "Select Category" dialog box. Button "Category" is intended to change assignment between imported files and categories by editing or creating new categories.
- Button "Upload" starts process uploading of file list to selected device. By activating "Upload", progress dialog box is started. If the Storage folder does not exists in the device warning message is given so that the user can create a Storage folder. The progress dialog box contains button to cancel process in middle. When upload process is over the progress dialog is closed automatically.
- Button "Exit" finishes running the application and exists.



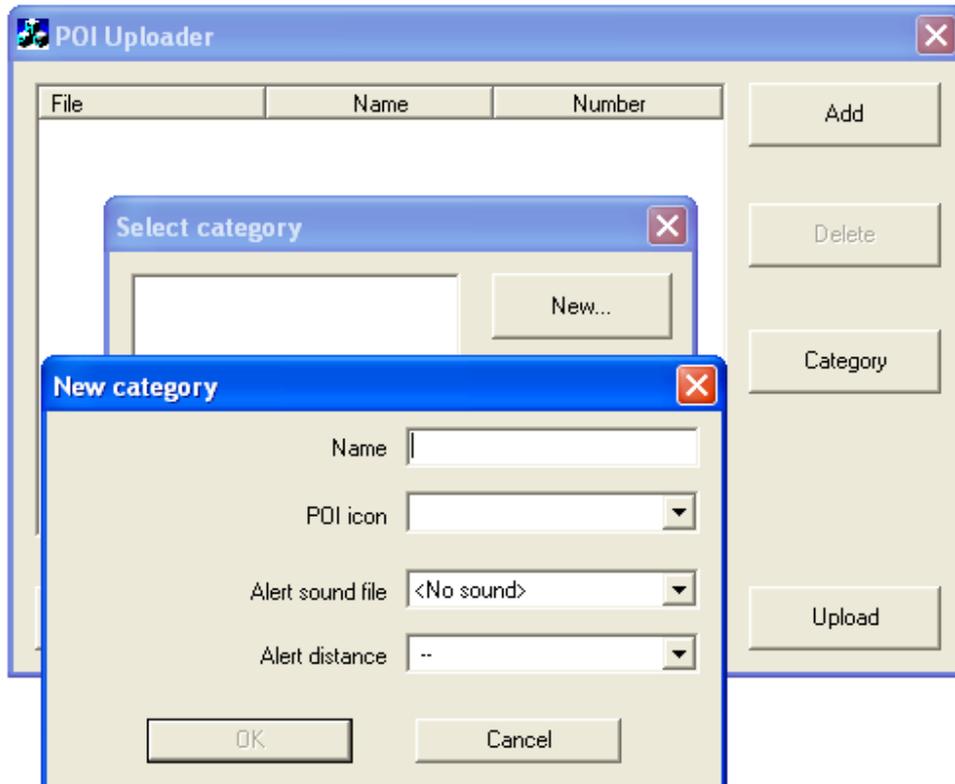


Select Category feature

“Select category” feature provides the user the ability to edit, add new and assign POI categories.



- Button "New" is used to create new POI category. In the New Category dialog box, name and POI icon is a must to create a new POI category.
- Button "Delete" removes one or more selected categories. If category is assigned to some POIs, delete process is denied. While categories are not selected in the list, "Delete" button is disabled.
- Button "Edit" enables the user to change field of selected category. If there is not selected category or more than one category is selected "Edit" button is disabled.
- Button "OK" assigns selected category to the selected main dialog files. If more than one category is selected or no category is selected "OK" button is disabled.
- Button "Cancel" discards new assignment between category and POI file and closes the dialog box. Also, canceling keeps changes in category list and inside categories.



Map/Voice Uploader

(For installing Navigation System on memory card or HDD)

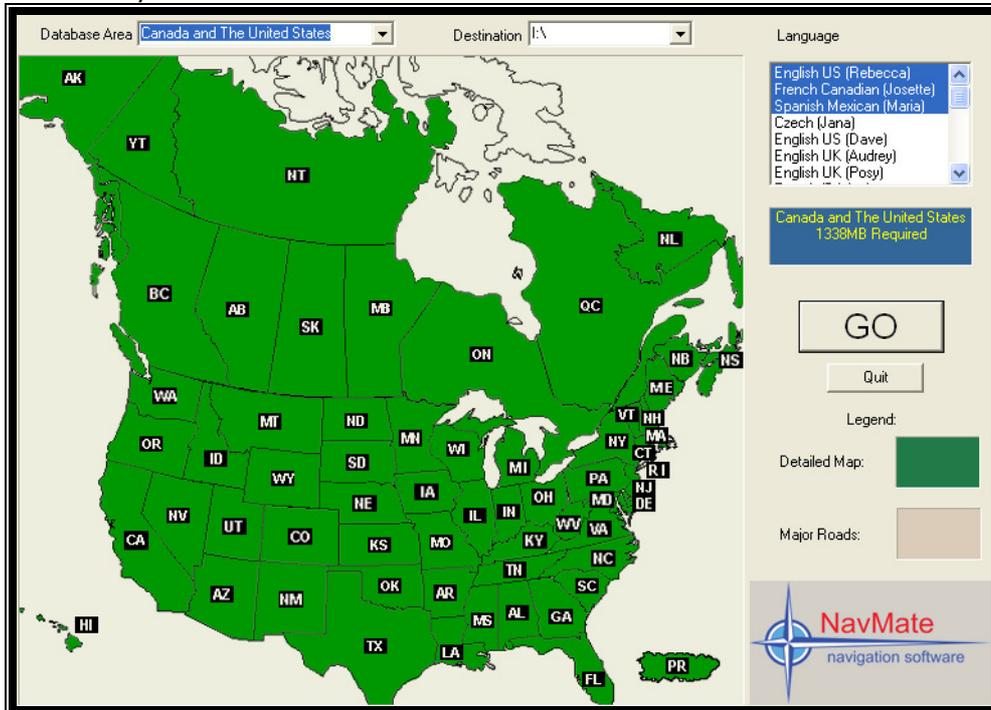
The Map/Voice uploader utility is used to upload map data into the navigation unit. It helps to copy the selected map data from the Master DVD to the memory storage device like SD card, CF card, HDD (Hard Disk Device) etc. Before the map data is downloaded to the memory storage device, the existing navigation data i.e. Address Book and Previous Destinations will be backed up into a folder called ¥Navmate on your PC. After downloading is complete, the backed up data can be restored.

Steps to follow to download the Map Data

- 1) The following components are required on your PC:
 - a. DVD-ROM drive
 - b. USB port
 - c. USB cable
 - d. Memory card reader for CF card and SD card.
- 2) Connecting the memory devices:
 - a. If the navigation device is using CF or SD card, then insert CF or SD card to memory card reader then connect it with the USB cable to the PC.
 - b. If the navigation device is using HDD, then connect the device with the USB cable to the PC.
- 3) Select "Map/Voice Uploader" if you have NavUtil running on PC. If not, insert Master DVD in your DVD drive and wait for NavUtil to come up then select "Map/Voice Uploader".

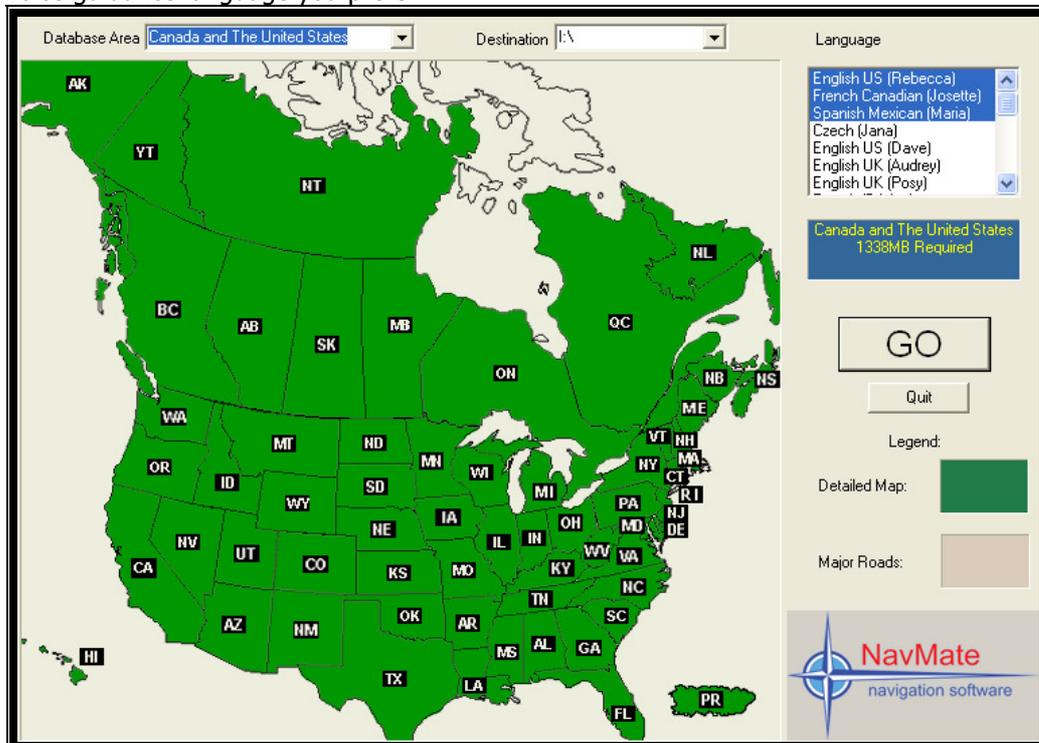
Select Database Area

To select the Database Area, click on the down arrow of the Database Area option and then select the area you want to download.



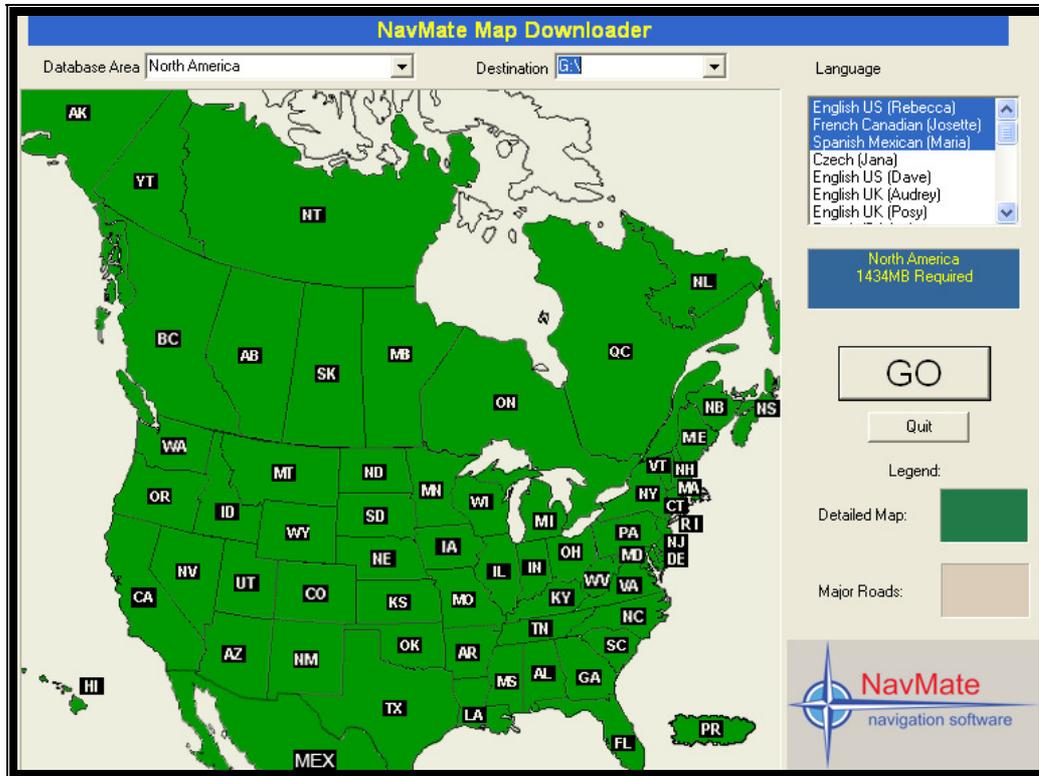
Select Language

To select the Language, click on the down arrow of the Language option and then select the voice guidance language you prefer.



Select the Destination

To select the Destination, click on the down arrow of the Destination option and then select the destination drive of the memory device.



After making all the above selections click on "GO" button to start the downloading process.

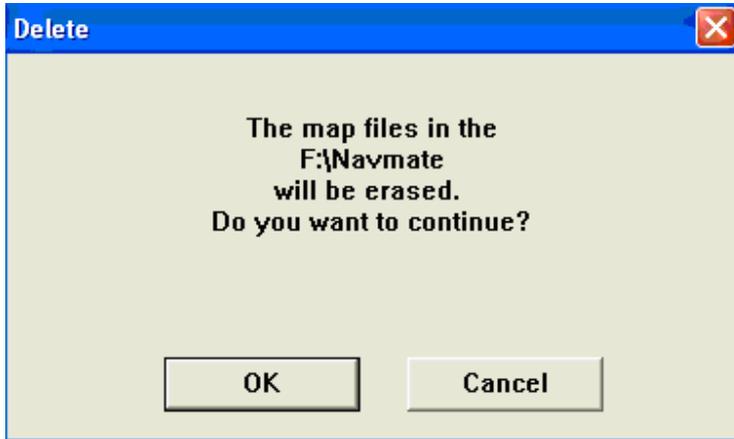
The Process of Copying

After the downloading process starts the following windows will appear based on the memory card device.

If the CF card is connected then:



If HDD is connected then:



This process will backup the navigation data files from your memory card to a folder called ¥Navmate on your PC, and then it removes the navigation folder from the memory card. Click "OK" to continue the process.

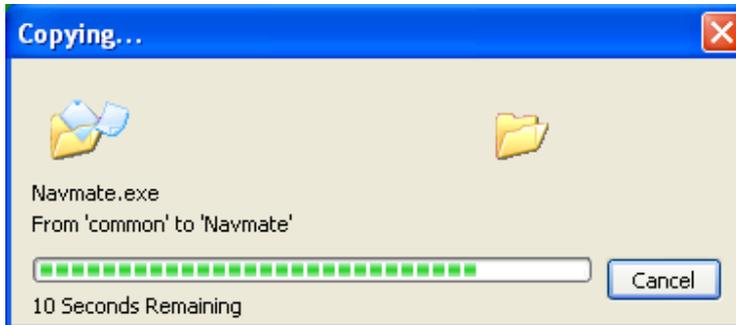
If the CF/SD card is connected then:



If HDD is connected then:



After cleaning up the program will start copying/downloading the files from DVD to memory device.



The window below will appear when copying/downloading is complete:



Left click "OK" to exit this program.

Remove the Memory Device

Safely remove memory card from the memory card reader or disconnect the USB cable.

a. If the device is using CF/SD card , then left click "Unplug or Eject Hardware" icon on your PC then left "OK" at the "The 'USB Mass Storage device' device can now be safely removed from the system." Prompt. Remove your memory card from the memory card reader. The memory card is now ready for use.

b. If the device is using HDD, then disconnect the USB cable from the HDD navigation device. Now, the navigation unit is ready to use.

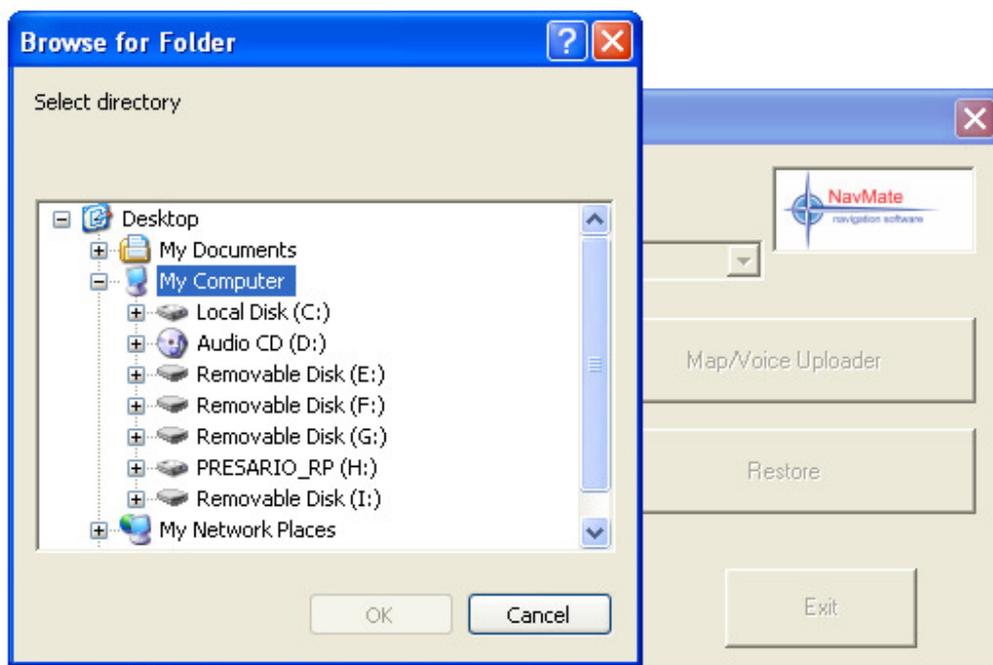
Backup

Backup utility is intended to store user specific data from the navigation unit to local drive.

- Data is copied from directory /Storage from root of unit to user selected destination directory. Entire content of the directory will be copied, including subdirectory.

- When backup utility is started, destination directory dialog appears. User can select directory by navigating through directory tree. User can choose OK to confirm directory selection or Cancel.

- When backup process is started, progress dialog box appears. The dialog has only one button Cancel to interrupt process. If process is interrupted no cleanup operation is undertaken.
- During backup operation, data is being copied from /Storage directory on the unit to directory YYYYMMDD.HHMMSS.nsu – where:
 YYYY – year, MM – month, DD – day. HH – hour(0-24), MM -minutes (00..59),
 SS – seconds (00..59).nsu
 Eg. 20070606.121225.nsu
- If destination directory exists and is not empty, warning box appears to confirm overwrite files. The box contains OK and Cancel button. OK confirms operation to continue. Cancel terminates backup process.



Restore

Restore utility is intended for restoring of previously backed up data to unit and, also, to manage backed up data.

- When restore utility is started dialog box appears. This dialog contains current directory path and list of previously backed up data in current directory.
- Change current directory button (...) starts dialog to select directory. The dialog shows current directory and user can navigate through directory tree to choose new selection. If user presses OK new current directory will be set and backed up data list will be updated. Cancel button terminate selection process and current directory will be not changed.
- Delete button allows delete selected backed up data directory from list. After activation of this button warning to delete popped up. If user confirms delete operation, selected data directory will be removed with its content.
- Cancel button terminate restore operation.

- Restore button starts process to copy data from selected to backup directory to Storage directory from unit's root.
- If there is some data in Storage directory, warning appears to confirm overwriting files. When restoring process is started, progress box appears.
- The progress box contains Cancel button to interrupt process. When interrupt is taken, file structure in Storage directory is inconsistent. If restoring process is finished successfully, Restore utility finishes its work.

