NavMate
NM-PN600
Portable Navigation System with MP3 Player
User Manual

NavMate
navigation software

Preface

Your PN600 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 PN600's many features.

This User Manual explains the PN600's functions, and provides details on:
- Using the control buttons
- Entering destinations
- Understanding the different screens available on your PN600
- Adjusting user preferences

Note: All users should read this manual prior to operating your PN600.

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Table of Contents

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.

Components

Prior to use, please verify that all components are included.

NM-PN600

Power cable

Mount

A/V Cable
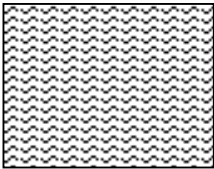
Compact Flash Card

Not Pictured: USB Cable

Main Unit Description

Front View

① Power Button : Turn On/Off

② Mode Select Button : Change to Menu Selection Mode.

③ Remote Control Receiver

④ Touch Screen Display

Back View

① GPS Antenna: Receive satellite signals for Navigation System.

② Connectors: Connect to external device.

③ Speaker

④ External GPS Antenna connector: Connect external GPS Antenna.

⑤ CF Card Slot: Insert CF Card that contains Navigation Program and MP3 Data.

⑥ Mounting screw hole under unit.

Side View

① GPS Antenna

② CF Card Slot

③ USB Cable Connector

④ Ear Phone Connector

⑤ External A/V Cable Connector

⑥ Reverse Camera Input Cable Connector

⑦ Power Connector

Installing the Map for Your Area

Before you may use the system, you must copy the map information for your area from the provided DVD onto the CF card. Follow the instructions provided with the mapping DVD provided with the system.

Installing the PN600

Important Information

⚠ Never drop the NM-PN600

⚠ Clean the NM-PN600 with a soft cotton cloth (or lens cloth) dampened with 70% isopropyl alcohol. Any other cleaning fluids may damage the LCD screen.

⚠ Observe all relevant local regulations.

⚠ Ensure that the driver's view is not obstructed.

⚠ Increased risk of injury in the event of an accident. Do not install components in the inflation range of the airbag or in areas where the head may impact the components.

⚠ Only install in vehicles with 12-volt on-board voltage. Risk of malfunction, and damage to vehicle if installed in unsuitable vehicles.

⚠ Not intended for marine use.

Assembly

1. Verify you received all components.

2. Insert CF Card that contains Navigation Program, Map and MP3 Data.

3. Install PN600 on the mounting bracket.

4. Connect reverse camera and external input A/V cable. (Optional)
    Connect power jack to PN600 and cigar lighter adapter to vehicle.

Mounting

To mount the NM-PN600 follow the instructions provided with your selected mounting accessory. Observe the cautions found in the "Important Information" section of this manual.

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:

- [   ] button (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.

The methods used are similar throughout the functions. The status bar also provides a reference for where you are in the menus.

Status Bar

Status bar indicates user selected Set-up menu and chose to Set Position

_____

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

_____

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

	⊗	Cancel current action
	🔍+	Zoom in the map to show a smaller area
	🔍-	Zoom out the map to show a larger area
	▲	Center map on current vehicle location.
	▬	Display menu, jump to main menu.
	▦	Display map in 3D view.
	▦	Display map in 2D and 3D views.
	▦	Display map in 2D view.
	▦	In split screen view, change active side for panning, etc from left to right.
	▦	In split screen view, change active side for panning, etc from right to left.

	📌	After panning map, select current panned position.
	✓	Select currently highlighted item.
	ABC	Display spell mode.
	⬆	Page up in displayed list.
	⬇	Page down in displayed list.
	↩	Go back one step.
	🔊	Repeat voice instruction.

Navigation Menus

The table below briefly describes the Main Menu options.

Main Menu Options At-A-Glance

Main Menu Option	Select this Option to...
Start Route Guidance	Pick a destination for routing.
Edit Address Book	Add or modify destinations in address book.
Setup	Set preferences for routing and navigation display.

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
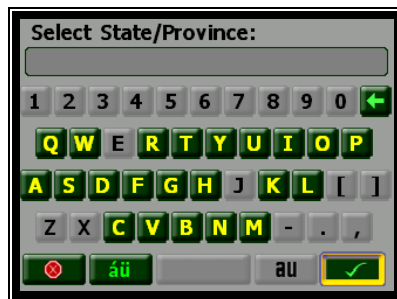
Most Recently Used Portion of List

Most Recently Used List Items

Spell Mode Buttons

Button	Mode	Press This Button to...
✓	Spell	Select currently input characters and show list of matches.
←	Spell	Delete last entered character.
áü	Spell	Switch keyboard from QWERTY layout to special character layout.
au	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.
F5	If active route, repeat voice instruction.

Destination Selection

To select a destination, you must select Start Route Guidance from the Main Menu.
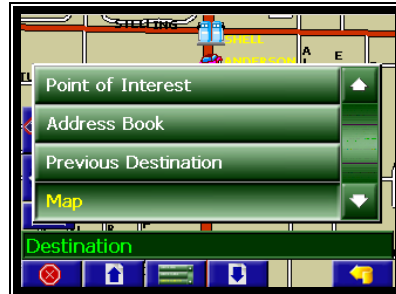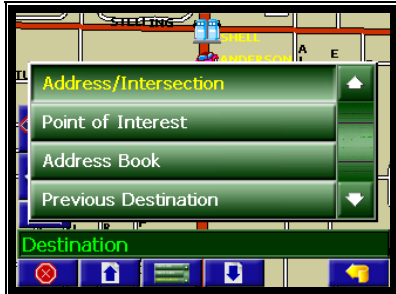
The table below explains the button functions available on the Destination Selection Menu.

Destination Selection Buttons

Button	Press This Button to...
F1	Exit menu mode and return to map mode
F2	Page up in displayed list.
F3	Return to main menu.
F4	Page down in displayed list.
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

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
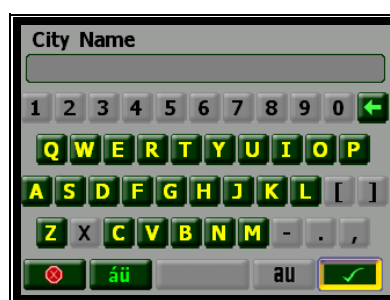
Select Street

City and local area where street is located	
House numbers on that road segment	

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 Sate/Province/City/Street List Mode Buttons

Button	Press This Button to...
F1 ⊗	Exit menu mode and return to map mode
F2 ⬆	Page up in displayed list.
F3 ▤	Return to main menu.
F4 ⬇	Page down in displayed list.
F5 ABC	Switch to Spell Mode.
F6 ⬅	Go back one step.

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 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 Phone* – 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 State/Province. Phone number searching may not be available for all POIs.

- *By Name* - If you know the name of the Point of Interest for example "COLUSSEUM", select this option.

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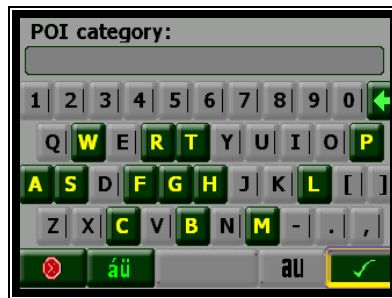
POI Name Speller
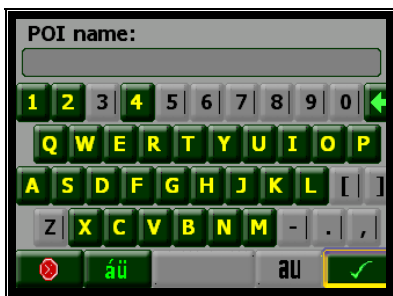
Some POI categories may not be available in some areas and not all possible POIs may be listed for all categories. For example, although the "Restaurant" category is very extensive, it is only as current as the map database information. Several categories restrict the search radius as well to minimize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

Straight-line distance to POI and POI phone number

POI address

POI Name

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
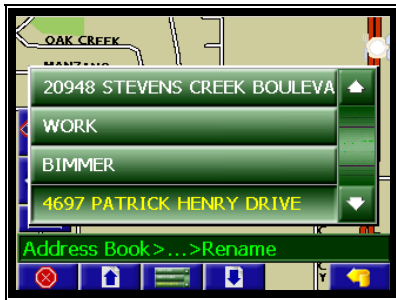
Address Book Selection Buttons

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.
F6	Go back one step.

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.

Map

You may select the destination by panning the map. Select map, then move the cross hairs around the map.

Press [icon] to display location information about the current panned location. Press ENTER to select the panned location as the destination.

Select Destination from Map
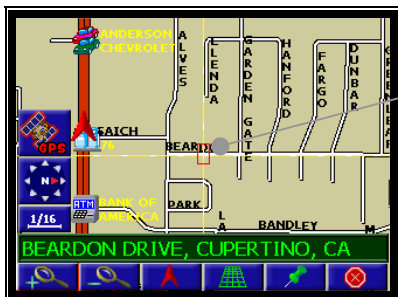
Panning crosshairs

Select Destination from Map Buttons

Button	Press This Button to...
F1	Show a smaller map area.
F2	Show a larger map area.
F3	Center map on current vehicle location and cancel panning.
F4	Change type of map view.
F5	Select current panned location and show location information.

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.

Guidance display

Road name or sign information for upcoming turn

Distance to turn

Line to destination

Distance remaining to destination
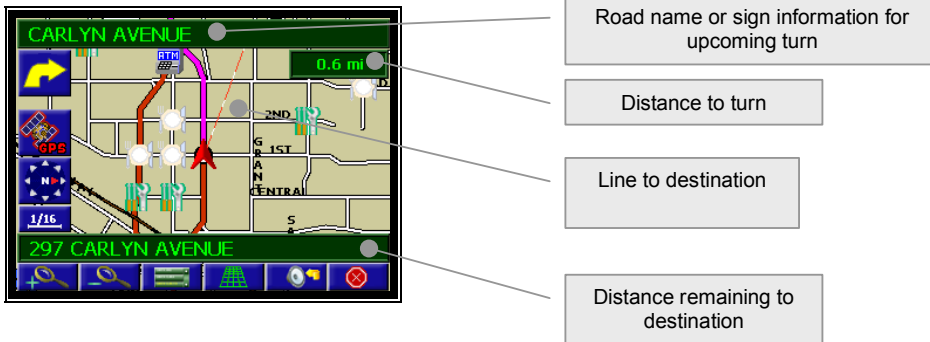
True View (Intersection Zoom)

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)

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).

Map display

GPS reception status

Compass heading

Map scale

Park

Vehicle symbol

Point of Interest

Current location
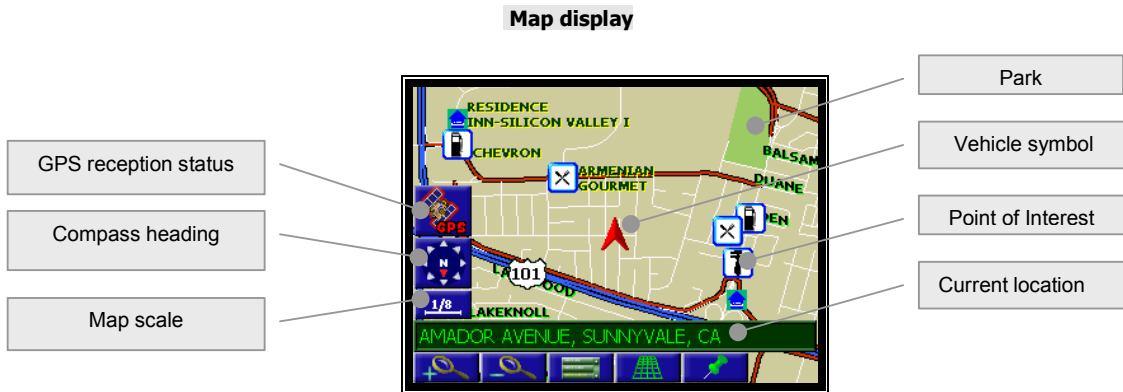
The GPS symbol may change colors indicating the strength of the signal. The GPS symbol colors mean:
- Green - GPS signal is free from obstruction and is being received regularly. At least four satellites are being received.
- Yellow - GPS signal is partially obstructed. Three satellites are being received.
- Red - GPS signal is unavailable. Two or fewer satellites are being received.

Point of Interest Symbols

Symbols	Categories
	AIRPORT
	AMUSEMENT PARK
	ATM
	AUTO DEALERSHIP
	AUTO SERVICE AND MAINTENANCE
	SIC AUTOMOBILE CLUB
	BANK
	BORDER CROSSING
	BOWLING ALLEY
	BUS STATION
	BUSINESS FACILITY
	CAFE
	CAKE AND PASTRY SHOP
	CAMPING

		CASINO
		CINEMA
		CITY CENTER
		CITY HALL
		CIVIC COMMUNITY CENTER
		COMMUTER RAIL STATION
		CONVENIENCE STORE
		CONVENTION EXHIBITION CENTER
		COURT HOUSE
		DEPARTMENT STORE
		DRY CLEANERS
		EMBASSY
		ENTERTAINMENT
		FERRY TERMINAL
		FORD
		GASOLINE STATION
		GOLF COURSE
		GROCERY STORE
		HIGHER EDUCATION
		HISTORICAL MONUMENT
		HOSPITAL
		HOTEL
		ICE SKATING RINK
		LIBRARY
		LINCOLN MERCURY
		MARINA
		MOTORCYCLE DEALERSHIPS
		MUSEUM
		NATURE RESERVE
		NIGHT LIFE
		PARK AND RIDE
		PARK RECREATION AREA
		PARKING GARAGE

		PARKING LOT
		PHARMACY
		POLICE STATION
		POST OFFICE
		PUBLIC SPORT AIRPORT
		RACE TRACK
		RELIGIOUS FACILITY
		RENTAL CAR AGENCY
		REST AREA
		RESTAURANT
		SCENIC POINT
		SIC_SCHOOL
		SHOPPING
		SKI RESORT
		SPORTS COMPLEX
		THEATER
		TOLL BOOTH
		TOURIST ATTRACTION
		TOURIST INFORMATION
		TRAIN STATION
		WINERY
		ZOO

Current Location Screen

Press [icon] 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
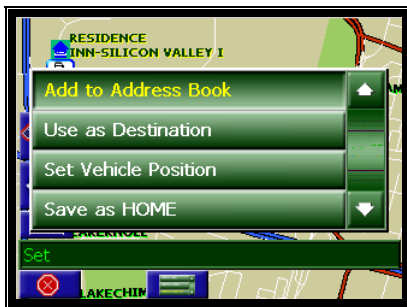
Arrival Screen
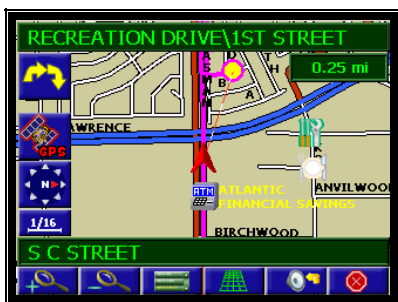
The destination is shown on the Map Display screen with a circle. A voice message announces that you are approaching your destination.

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.
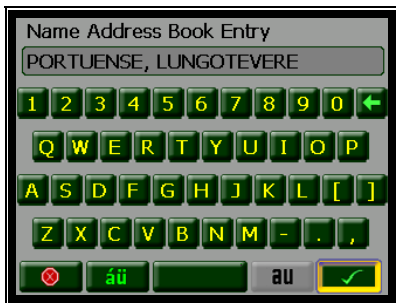
Edit Address Book

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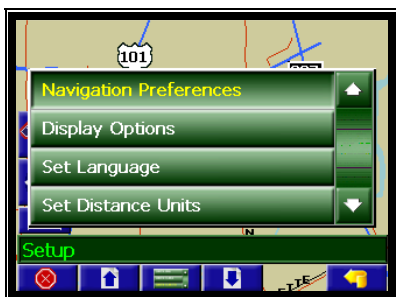
Name Address Book Entry

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.

Set-up Menu Screen

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.

Display Options
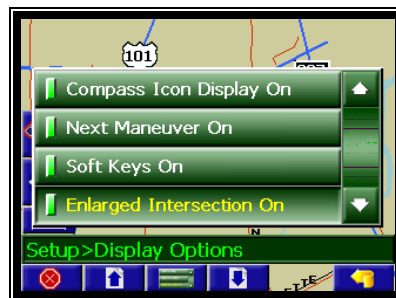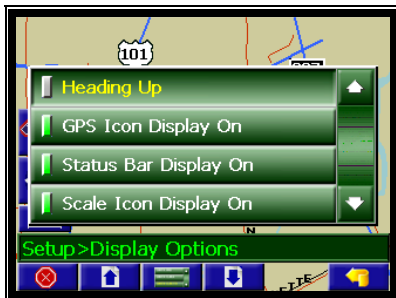
- North Up/Heading Up – Determines if the map is always displayed with North direction at the top of the screen or if map is always adjusted so that vehicle symbol points toward the top of the screen.
- GPS Icon Display On/Off – Turn the display of the GPS reception symbol on or off.
- Status Bar Display On/Off – Turn the display of the Status Bar 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 On/Off – Turn the function key display on or off

- Enlarged Intersection On/Off – Turn the true view on or off.

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
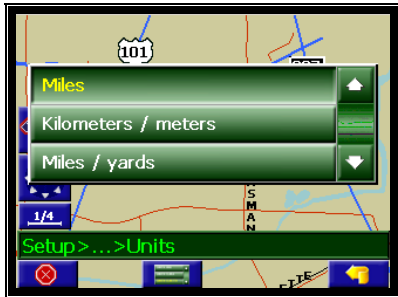
Set Vehicle Position
You may reset the location of the vehicle symbol using the Set Vehicle Position option.
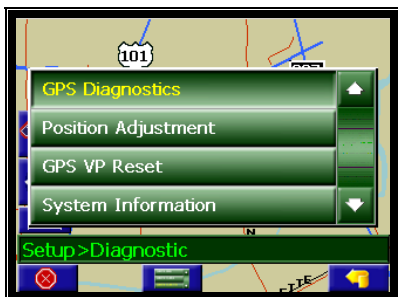
Set Origin Menu

System Diagnostics Menu
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.
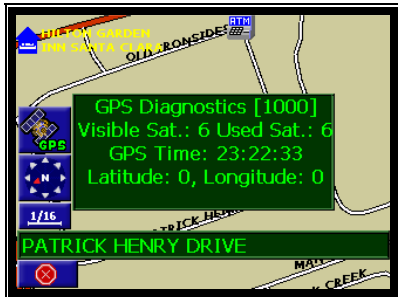You may reset the location of the vehicle symbol using the Set Vehicle Position option.

Diagnostic 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) along with the latitude and longitude determined from GPS.
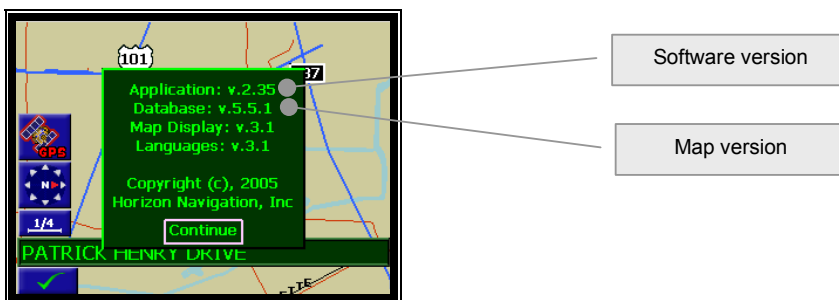
GPS Diagnostic Test Result

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

GPS VP Reset

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

System Information

Software version

Map version

System Setup Mode

You may adjust some settings of the PN600 by pressing the MODE button. For example, you may adjust the display brightness and volume.

Description of Modes
The PN600 has five alternative display modes:
① Navi
② MP3
④ Setup
⑤ A/V
⑤ R.CAM

To select the desired mode, use the touch screen or the remote control arrow keys and Enter.

Navi
Using the navigation function is explained in earlier sections of this manual.

Setup
The setup mode allows adjustment of screen brightness, screen contrast and volume.
Note: A/V input and R/Cam volume are not controlled through this menu.

A/V (External Input)

This mode displays the input from an external audio/video source such as a DVD player.

R. Cam (Reverse Camera)

This mode displays the input from an external rear view camera which can be used to monitor behind the vehicle during backing.

Mp3 Player

This mode displays an MP3 format audio player. Songs stored on the CF card may be selected and played using this mode.

MP3 Player Menu Description
- Left Screen : MP3 Play Status, Volume Status
- Right Screen : MP3 Lists, Title Status, File List in the selected folder
- F1(Folder) : Change to the screen that contains MP3 file
- F2(Repeat) : Play current title repeatedly
- F3(Random) : Random Play, Play in order

<MP3 Player Button Description>

Screen	Remote control key	Touch Panel Button	Description
Mp3 Play Screen	Left		Auto Play Previous Title
	Right		Auto Play Next title
	Up, Down		Select Title
	ENTER		Play selected title
			Stop
			Stop
	F1	F1 Folder	Change to the search file folder
	F2	F2 Repeat	Play repeatedly current title
	F3	F3 Random	Random play
	+		Increase volume
	-		Decrease volume.
			Control volume

MP3 File Searching Screen

Press F1 key in the main screen of MP3 player or select relevant area on the touch screen.

Menu Description:
- Folder : Display the folder that contains MP3 files in the CF Card
- Filde : Display file in the selected folder
- F1 Select : Play MP3 file in the folder
- F2 Cancel : Change to Previous MP3 player screen without changing playing folder lists