User Manual

SmartST™ Professional
for Palm OS®5

NAVMAN

Welcome

Congratulations on the purchase of your SmartST™ Professional for Palm OS® 5 navigation solution. Whether you travel frequently in your own country, or need to find your way around overseas, SmartST Professional will direct you to your destination without the need for map books and second-hand instructions.

The Global Positioning System is available free of charge and is accurate to within 5 m (15ft). The maps provide street level detail allowing door to door navigation in many areas – they even include points of interest such as hotels, railway stations and airports. With SmartST Professional, you will never be lost again!

Your SmartST Professional for Palm OS® 5 navigation solution consists of the SmartST Professional software running on a GPS-enabled Palm OS® 5 handheld. Use this manual to help you install SmartST Professional, learn how to operate it effectively and safely, plus find out all of the different features available to you.

Note: Further information on connecting a GPS Receiver to your handheld, and mounting the handheld into a vehicle can be found in the User Manual provided with your handheld.and GPS receiver.

Important Notice

When using SmartST Professional in a vehicle, it is your sole responsibility to place, secure, and use the device in a manner that will not cause accidents, personal injury or property damage, or in any manner obstruct your view or vehicle safety equipment. The user of this product is solely responsible for observing safe driving practices. Do not operate SmartST Professional while driving. Park the vehicle first. It is your sole responsibility that the vehicle mount installation instructions are read carefully, understood, and used consistent with the relevant local laws.

Navman disclaims all liability for any use of this product in a way that may cause accidents, damage or that may violate the law.

Safety First

It is your sole responsibility to adhere to the following safety instructions at all times.

- Do not operate SmartST Professional while driving.
- The handheld must be placed in a position where it cannot obstruct the driver's view of the road.
- The handheld must not interfere with the normal operation of any airbags or other vehicle safety equipment.
- For security purposes and to avoid overheating, do not leave the handheld on the dash or windshield while your vehicle is unattended, especially in strong sunlight. Do not use or handle if the handheld is hot - leave it to cool out of the sun.

Contents

1 What is GPS? 7
2 System Requirements 8
2-1 Palm Powered™ Handheld Requirements 8
2-2 Computer System Requirements 8
2-3 Supported Screen Resolution 8
3 The SmartST Professional CD Set 9
4 Installing the SmartST Professional Desktop 10
4-1 Installing the SmartST Professional Desktop 10
5 Installing the Handheld Software and New Maps 11
5-1 Step 1: Connect the Handheld to Your Computer 11
5-2 Step 2: Install SmartST Professional 12
5-3 Install Maps 14
5-4 Using a Memory Card after SmartST Professional 16
5-5 Reading this User Manual and the Quick Start Guide 16
5-6 Visit Navman for Updates 16
6 Configuring the GPS Receiver 17
6-1 Alternative GPS Receivers 17
6-2 Sony PEGA-CC5 Series Car Cradle 17
7 Getting Started 19
7-1 Starting SmartST Professional 19
7-2 Main Menu 19
7-3 Configuring the GPS Receiver 20
7-4 Switching On the GPS Receiver 21
7-5 Obtaining a GPS Fix 22
7-6 To Check GPS Reception 22

8 Controls 23
8-1 Touch Screen 23
8-2 Keyboard Entry 23
8-3 Zooming and Scrolling 23
8-4 Address Entry Icons 24
8-5 Changing the Volume 24
9 Setting Your Destination 25
9-1 Using a Quick Nav 25
9-2 Navigating to an Address 26
9-3 Navigating to an Intersection 28
9-4 Navigating to Points of Interest 30
9-5 Navigating to a Favourite 32
9-6 Navigating to a Recent Destination 33
9-7 Using the Pop-Up Menu to Plan a Route 34
9-8 Route Planning Without a GPS Fix 35
10 Viewing Your Route 36
10-1 Map View 37
10-2 Navigation View 38
10-3 3D Navigation Screen 39
10-3 Next Instruction View 40
10-4 Instruction List 41
10-5 Back-On-Track™ Feature 42
11 Editing, Deleting and using Favourites and Quick Navs 43
11-1 Adding a New Favourite 43
11-2 Editing or Deleting a Saved Favourite 43
11-3 Quick Navs 46

12 Using the GPS Status Information 47
12-1 GPS Reception 47
12-2 GPS Status messages 49
13 Modifying the Settings 50
13-1 About Settings 50
13-2 GPS Settings 51
13-3 Display Settings 51
13-4 Guidance Settings 52
13-5 Map Settings 53
13-6 POI (Points of Interest) Settings 53
13-7 Routing Settings 54
14 Accessories 55
14-1 Memory Cards 55
14-2 Memory Card Writers 55
15 Frequently Asked Questions 56
16 End User License and Warranty Agreement 57
16-2 FCC Statement 59
16-3 Contact Us 59
16-4 Copyright 60

1 What is GPS?

The Global Positioning System (GPS) is a network of satellites launched by the US military in the 1970s. The satellites continuously transmit accurate time and position information, which is freely used by commercial and military applications worldwide. GPS receivers are designed to pick up the high frequency radio signals from these satellites, and use the information to determine your exact location. Today, there are many applications that use GPS, from marine to automotive, aviation and military.

There are 24 satellites in total, orbiting approximately 12,000 miles above the earth. While a GPS receiver can detect signals from up to 12 satellites at any one time, only three are needed to provide the two-dimensional position or “fix” (latitude and longitude) that is required for vehicle navigation systems. A three dimensional fix requires four satellites and provides improved positional accuracy.

SmartST Professional is designed specifically to use GPS information to find your current position, and to calculate the best route to your desired destination using the road maps stored on your memory card. SmartST Professional will then guide you with voice and visual commands to your destination using the continuous stream of GPS data to track your position as you make a trip.

2 System Requirements

SmartST Professional for Palm OS® 5 is designed for a handheld running the Palm™ Operating System. A desktop computer or laptop is also required to install the SmartST Professional software and map data onto your handheld. Ensure your equipment meets the following requirements:

2-1 Palm Powered™ Handheld Requirements

- Sony Users:
  Bluetooth GPS Users: CLIÉ™ handheld - models PEG-TG50, PEG-NX73V, PEG-NZ90, PEG-TH55
  Car Cradle Users: CLIÉ™ handheld - models PEG-TH55, PEG-TG50, PEG-NX73V
- Palm Tungsten™ T, T2 and T3 series. Please check the Navman website for a current list of compatible models.
- Palm OS® 5.0 or higher.
- You will need a minimum of 7.5 MB (recommended 10 MB) of internal storage memory to run SmartST Professional. Additional memory requirements will vary according to the size of the maps you are using.
- A memory card is required to store maps (sold separately). Individual map regions range in size from 1.5 MB to 70 MB. The minimum recommended size of memory card is 128 MB.

2-2 Computer System Requirements

For Activate Software to operate with a USB connection, Win98 & ME users should download and install all the latest Microsoft Windows updates

- IBM® Compatible Pentium II 400MHz computer or higher, Dual Speed CD-ROM or higher.
- Microsoft® Windows® 98SE, ME, 2000 or XP
- Palm HotSync®.
- Internet Explorer version 5.5 or higher. An internet connection for software activation.

2-3 Supported Screen Resolution

- Screens with 320x320 or 320x480 pixel resolution are supported. 320x480 screens are able to display a larger map area, and frequently display device-specific menus that can be used with SmartST Professional.

3 The SmartST Professional CD Set

On purchasing the SmartST Professional for Palm OS® 5 solution, you will have received the following material:

1 SmartST Professional software.

2 Map data for your region.

3 User Manual and Quick Start Guide in Adobe® Reader® format.

4 Adobe® Reader®.

5 Application Product Key and Map Product Key

Refer to Section 14 for information about accessories.

4 Installing the SmartST Professional Desktop

The SmartST Professional CD set contains software and map data that allows you to:

- Install the SmartST Professional software onto your handheld.
- Install new maps to optional memory cards.

Before you can use any of these features, you need to set up the SmartST Professional Desktop software on your computer. You will then be able to download software from your computer to your handheld via a HotSync® connection.

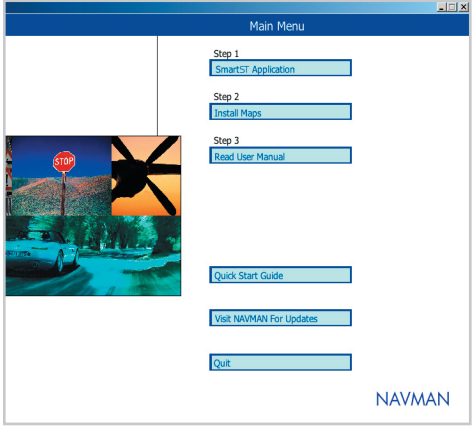
4-1 Installing the SmartST Professional Desktop

If the installation wizard does not start, click Start on the Windows taskbar, then click Run… Type d:\setup.exe, then click *OK*. If your CD drive is assigned to a letter other than "d", type this letter instead.

1 Place the software application CD into the CD drive on your computer. The SmartST Professional Desktop Installation wizard will start.

2 Follow the prompts to accept the License Agreement, and load the SmartST Professional Desktop application onto your computer.

3 Once the wizard has finished the installation, the SmartST Professional Desktop will automatically start.



5 Installing the Handheld Software and New Maps

Before installing SmartST Professional onto your handheld, ensure you have completed the following steps:

1 Your handheld was supplied with an installation CD. Ensure that the Palm™ Desktop application from that CD is installed on your computer. (Palm™ Desktop includes the HotSync® application which is used to transfer data from your computer to your handheld).

Tip: The main advantage of using a memory card writer is that the map download is faster.

2 Some handheld devices require the use of a memory card writer to download maps to the memory card. Other devices (such as the Sony CLIÉ™) give you the option of downloading maps directly into a memory card plugged into the handheld, or using a memory card writer if you prefer.

- If you are planning to load map data ont o your memory card via a memory card writer, connect the memory card writer to your computer now. Follow the instructions supplied with your memory card writer to install the appropriate drivers onto your computer.
- Alternatively, if you are a Sony CLIÉ user, you can download maps directly to a memory card plugged into your handheld using either the MS Export or Data Export utility. You will find one of these applications on the installation CD supplied with your handheld.

Note: Maps must be stored on a memory card. SmartST Professional will not operate without a memory card plugged into your handheld.

3 Make sure you have a memory card available with enough space to load the required map regions.

You are now ready to start installing the SmartST Professional for Palm OS® 5 navigation solution onto your handheld. Installation is a four-step process. Make sure you complete each step correctly:

Step 1 ..... Connect the handheld to your computer.

Step 2 ..... Install the SmartST Professional application onto your handheld.

Step 3 ..... Install the maps you require onto your handheld.

Step 4 ..... Read this User Manual and the Quick Start Guide.

5-1 Step 1: Connect the Handheld to Your Computer

Please refer to your handheld manual for instructions on connecting the handheld to your computer via HotSync.

5-2 Step 2: Install SmartST Professional

Note: Before beginning, make sure your handheld is connected to the computer via a HotSync® connection, and that the SmartST Professional Desktop is installed on your computer.

This procedure allows you to install the SmartST Professional software onto your handheld, or to upgrade existing software to a newer version. Once installed, follow the registration procedure to activate the application.

1 Insert a memory card into your handheld.

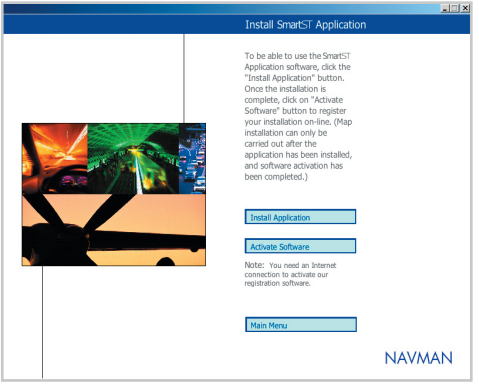
2 Select *SMARTST APPLICATION* from the *MAIN MENU*.

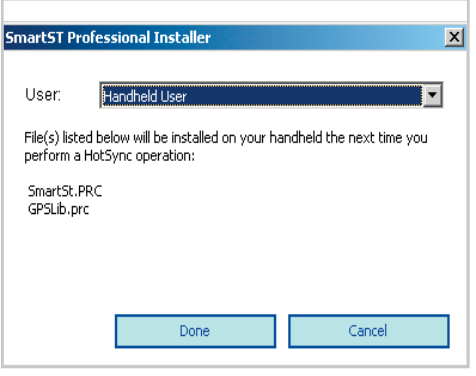
3 Select *INSTALL APPLICATION*.

4 Select the HotSync® User name of your handheld device, and click *DONE*. A user message will display requesting a HotSync operation, which must be performed to complete the installation.

5 Click OK and perform a HotSync® operation to install the application onto your handheld. The installation may take several minutes to complete. Please do not open other applications during this installation.

6 If you plan to load map data onto your memory card via a memory card writer, remove the memory card from the handheld and insert it into the memory card writer now.





7 Alternatively, if you are planning to download maps directly to a memory card plugged into your handheld:

- MS Import (or Data Import) should start automatically on your handheld once the HotSync® operation is complete. If not, tap on MS Import (or Data Import) from the handheld launcher screen.
- If your handheld uses Data Import, select the type of memory card you are using (eg. Memory Stick or SD card) and tap the *Connect* button.

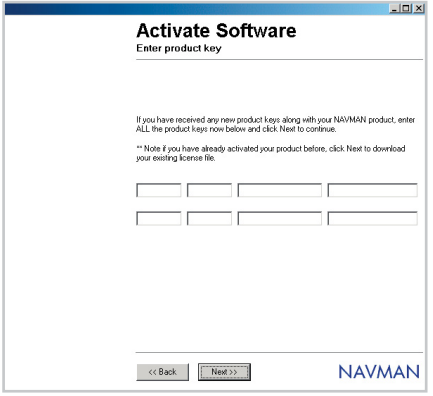
Note: You will need to have Microsoft Internet Explorer version 5.5 or above to correctly activate the software.

8 Now you must activate your software. From the MAIN MENU, click on *ACTIVATE SOFTWARE*. The registration program will guide you through the following steps:

- Connect to the internet. Click *NEXT*.
- Agree to the Navman Terms and Conditions. Click *NEXT*.
- Ensure your handheld is connected to the computer and Click *NEXT*.
- Enter the registration information. Some fields are optional. Be sure to complete all of the “Required” fields marked with an asterisk. Click *NEXT*.

Warning: You will need the Product Keys every time you upgrade your software. Keep these in a safe place.

- Enter both the Application Product Key and the Map Product Key - both are clearly marked on the CD packaging (or in the case of the Sony Car Cradle, printed on the Quick Start Guide cover page). Click *NEXT*.
- The registration program will now contact Navman and your handheld software will be activated.



9 Click on *MAIN MENU* to return to the Main Menu.

10 To complete the installation process, click INSTALL MAPS.

5-3 Install Maps

Maps must be downloaded to one or more memory cards. This step allows you to manage the maps that you can use with SmartST Professional. The main options are:

- Review the maps you currently have stored in your memory card.
- Download new maps to a memory card plugged into your handheld.
- Download new maps to a memory card using a memory card writer on your computer.
- Remove maps from your memory card.

Note: if you copy maps onto a new memory card that has not been used with SmartST Professional before, you must first plug the card into your handheld and run SmartST Professional.

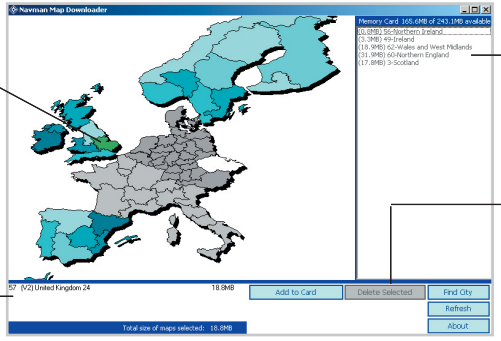
1 If you are planning to load map data onto your memory card via a memory card writer, make sure the memory card writer is connected to your computer, and the memory card is inserted into the writer.

2 Alternatively, if you are planning to download maps directly to a memory card plugged into your handheld, make sure that MS Import (or Data Import) is running on your handheld, and that the memory card is plugged into your handheld.

3 From the SmartST Professional Desktop menu on your computer, click on *INSTALL MAPS*.

4 The SmartST Professional Map Downloader will display. This shows the areas covered by the maps contained on the CD. These areas are divided into regions. You can download selected regions onto a memory card using the Map Downloader interface.

Maps available on the current CD are shaded blue. When you select a region it appears green. The areas shaded grey are not available on the current CD.



Currently installed maps are displayed here.

The Delete button deletes the selected map region from your memory card.

Currently selected maps are displayed here.

The Refresh button updates the screen.

Note: Maps are of population areas and not political areas (eg. county or state). Sometimes you will need to load multiple maps to cover the desired area.

5 To install a new map, choose one of the following:

- Click on the region that you wish to install. The region's name will appear in the bottom left window.
- Click on "*Add to Card*".
- Alternatively, *drag and drop* the region to the window on the right side of the screen.

6 To search for a particular city on the Map Downloader to verify it's region:

- Click *FIND CITY.* Type in the name of the town or city, or select from the list provided.
- Double click on your selection to locate the city on the map.
- To install the map region, drag and drop the region to one of the windows on the right side of the screen.

Note: You may be supplied with several map CDs. If the map you require is not displayed, simply replace the CD currently in your CD-ROM drive with the correct CD.

7 Once you have finished copying maps to your memory card, choose one of the following:

- If you have used a memory card writer, remove the memory card from the writer and plug it into your handheld. If you are using multiple memory cards, they can be used separately, or together if your handheld device has more than one memory card slot.
- If you have copied maps using MS Import (or Data Import), tap on *DISCONNECT* from the MS Import (or Data Import) screen on your handheld.

5-4 Using a Memory Card after SmartST Professional

Maps can be deleted from a memory card using the Map Downloader application. However, if you wish to start using the memory card for a different application (eg. a digital camera), you will need to reformat the card. This can be done using the *CARD INFO* application which is available on all standard Palm OS® 5 handhelds. Refer to the instructions supplied with your handheld for further information.

5-5 Reading this User Manual and the Quick Start Guide

You can read this User Manual and Quick Start Guide on your computer screen by selecting these options from the *MAIN MENU*.

The User Manual and Quick Start Guide are available as Adobe PDF files. If you do not already have Adobe® Reader® software on your computer, you will need to install it by clicking the *INSTALL ADOBE READER* button. The User Manual or Quick Start Guide can then be read.

5-6 Visit Navman for Updates

Click on this option to visit the Navman website for updates, support and general information. Note: you will need an internet connection to use this option.

6 Configuring the GPS Receiver

Note : For security purposes, and to avoid overheating, do not leave your handheld on the dash or attached to the windshield while your vehicle is unattended, especially in strong sunlight.

SmartST Professional can operate with many different types of GPS receivers. Please follow the instructions relevant to your receiver, and learn how to:

1 Connect your GPS receiver to the handheld.

2 Install the GPS receiver into a vehicle.

3 Learn about features available with the GPS receiver.

6-1 Alternative GPS Receivers

SmartST Professional supports a number of other types of GPS receivers, including the Navman Bluetooth GPS Receiver (shown here).

1 To connect your handheld to a Bluetooth or serial GPS receiver, and for information on installing the GPS receiver into a vehicle, please refer to the instructions supplied with the GPS receiver.

2 Once installed, use the SmartST Professional software to configure and switch on the GPS, and obtain a GPS fix. Instructions are provided in Section 7 - Getting Started.

6-2 Sony PEGA-CC5 Series Car Cradle

1 To connect your handheld to the Sony Car Cradle, and for information on installing the Sony Car Cradle into a vehicle, please refer to the instructions supplied with your Sony Car Cradle.

2 SmartST Professional requires the Sony Car Cradle software to be installed on your handheld. Follow the instructions supplied with your Sony Car Cradle to install the software correctly.

3 SmartST Professional will automatically recognise the Sony Car Cradle when it is connected to the handheld. Voice instructions will be delivered through the Car Cradle speaker using the Sony *Text-to-Voice* function. Note: When other types of GPS receivers are being used, the voice instructions will sound quite different as they are delivered directly through the speaker on your handheld.

Sony Users:
Restricted Function.
Refer Section 6-2.

Note: Restricted functions automatically become available when the handheld is removed from the Sony Car Cradle.

4 For your safety, a *Restraint of Operation* is automatically enforced when the handheld is connected to the Car Cradle. The Restraint of Operation means that a number of menu items and functions are made unavailable to the user to avoid driver distraction. Restricted functions are highlighted throughout this manual, as shown in the left-hand column.

5 SmartST Professional is designed to operate with the Sony card remote commander (remote control). The following diagram shows the functions that the Sony card remote commander buttons have when used with SmartST Professional.

7 Getting Started

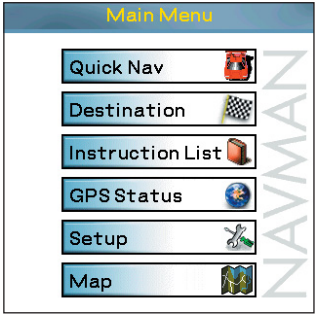
7-1 Starting SmartST Professional

1 In the Launcher screen, tap on *SmartST*.

2 When SmartST Professional first starts, a short tutorial is available to show you how to use SmartST Professional. Tap anywhere on the screen to move to the next screen. This tutorial can be disabled by removing the tick on the last tutorial screen.

3 The Main Menu will then be displayed.

7-2 Main Menu



The *MAIN MENU* provides you with access to all of the routing, setup and navigation screens.

Select an option from the *MAIN MENU*.

Follow the instructions in this User Manual to set your destination, choose how you want your route displayed, and set up SmartST Professional to suit your needs.

Remember, set up your destination *BEFORE* you start your trip.

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

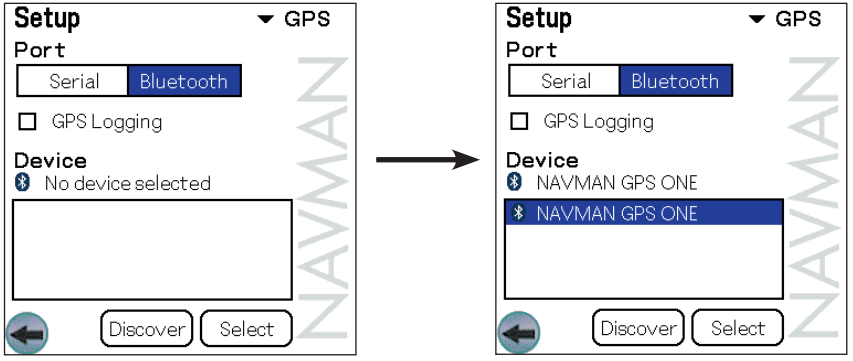
7-3 Configuring the GPS Receiver

You only need to configure your GPS receiver if you are using a Bluetooth or serial GPS receiver: The Sony Car Cradle is configured automatically.

Note: You only need to configure your GPS Receiver once.

1 For Bluetooth GPS Receivers:

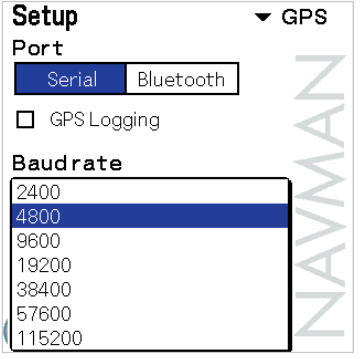
- Switch on your Bluetooth receiver. Refer to the instructions supplied with your Bluetooth GPS Receiver for more information.
- From the *MAIN MENU*, select *SETUP*.
- From the drop down list, select *GPS*.



- From the Port options, select *BLUETOOTH*.
- Tap on *DISCOVER*. SmartST Professional will search for active Bluetooth devices.
- Your Bluetooth Receiver should be found, and listed on the screen. Highlight the device, and tap on *SELECT*.

2 For Serial GPS Receivers:

- From the *MAIN MENU*, select *SETUP*.
- From the drop down list, select *GPS*.
- From the Port options, select *SERIAL*.
- Refer to the instructions supplied with your GPS Receiver to select the Baud Rate.



7-4 Switching On the GPS Receiver

Tip: It may take a few minutes to obtain an initial position fix, but will subsequently be much quicker. Refer to Section 7-5 Obtaining a GPS Fix.

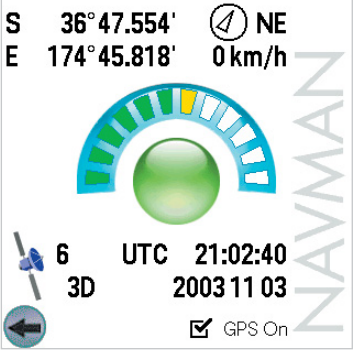
All GPS Receivers must be switched on via the SmartST Professional software.

1 From the *MAIN MENU*, tap on *GPS STATUS*.

2 Turn the GPS on by checking the "GPS On" box.

3 Return to the *MAIN MENU*.

Tip: Sony Car Cradle Users: GPS receiver turns on automatically when your handheld is attached to the Car Cradle.



7-5 Obtaining a GPS Fix

Tip: In order to attain good GPS performance, signals must be picked up from three or more satellites. To check satellite reception, see Section 12 Using the GPS Status Information.

Your handheld receives GPS signals through the GPS Receiver. In order for the receiver to receive signals:

1 Your handheld must be outside or in a vehicle parked outside – sunlight alone is not sufficient (e.g. through the window of a building).

2 Position the GPS Receiver:

- With a good view of the sky.
- Away from buildings, trees or large metal objects.
- Away from sources of electrical interference.

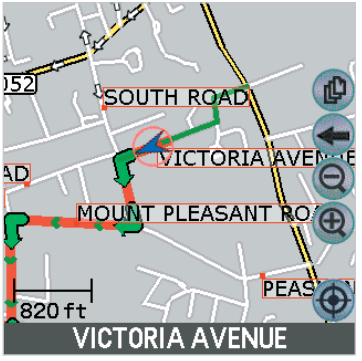
When you first power on your handheld or if SmartST Professional has not had a fix for several hours, it may take several minutes to obtain a GPS fix. You can minimize the amount of time that this takes by remaining stationary in your vehicle until SmartST Professional has a position fix.

7-6 To Check GPS Reception

Note: The position icon indicates your current position. A red pointer indicates no GPS fix and a blue pointer indicates a valid GPS fix.

You will know when SmartST Professional has a GPS fix by the symbols on your Map Screen. When SmartST Professional has no fix, the position indicator in the middle of the screen will be coloured red and the words “Waiting for GPS” will be displayed. Also, while SmartST Professional is attempting to obtain a fix, you will notice that there are no route instructions displayed on the Map Screen.

To check GPS reception at any time, return to the *MAIN MENU* and select *GPS STATUS* (see Section 12-2 GPS Settings). If the GPS receiver is only receiving signals from a few satellites, consider moving the GPS receiver to a more open place.



8 Controls

8-1 Touch Screen

Note: To "tap and hold", press the stylus tip against the screen until a pop-up menu is displayed.

SmartST Professional is easy to use. Most of the time, you can tap on menu options and other on-screen buttons. The tap and hold function can be activated by pressing on a street map and holding to bring up a pop-up menu.

8-2 Keyboard Entry

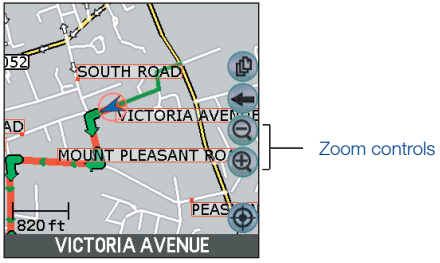
Some handhelds feature a full QWERTY keyboard. Use this to key in street address information.

8-3 Zooming and Scrolling

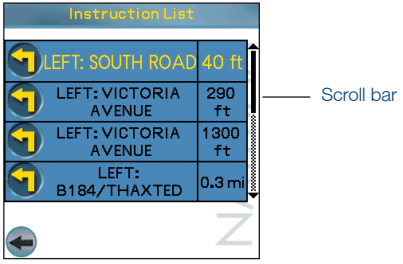
Generally, you will use controls on the touch screen to move around maps and menus. Some handheld models may have a toggle button and a scroll button which can also be used for zooming and scrolling. (eg. Sony CLIÉ™ handheld users can use the scroll button or the JogDial™).

Note: Zooming IN displays a smaller area of the street map in more detail. Zooming OUT allows you to see a larger area, but with less detail.

1 To zoom in and out on a map screen, tap on the or icons on the map screen.



2 To scroll up and down menus and option lists, drag the stylus up and down the on-screen scroll bar.



Tip: The icon is displayed on all screens and maps - tap this icon at any time to return to the previous screen.

8-4 Address Entry Icons

When entering a destination address, a number of icons are displayed along the bottom of the address entry screen. The following list describes the function of each icon.

Return to the previous screen.

Add the destination to the Favourites list.

Show the selected destination on the map.

Navigate to the selected destination.

Help - display a brief description of the functionality of each icon.

Note: On the Sony Car Cradle, Voice Scheme is always English - UK Male. You can adjust the volume by pressing the VOL+/- button on the cradle or the card remote commander.

8-5 Changing the Volume

You are able to modify the volume of the voice guidance instructions to suit the driving conditions.

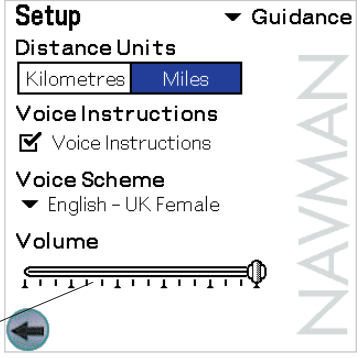
To alter the volume of the voice guidance instructions:

1 From the *MAIN MENU*, select SETUP.

2 From the drop down list, select GUIDANCE.

3 Use the stylus to drag the volume slider bar to the left (for less volume) or right (for more volume). A voice instruction will be spoken so that you can check the new volume you have selected.

4 Tap the icon to accept the changes, and return to the Main Menu.



9 Setting Your Destination

Before you travel, you must first select a destination and allow SmartST Professional to plan your route. There are three main ways that you can program your destination:

- Use a *QUICK NAV* that you have previously programmed for destinations used on a regular basis.
- Set a new *DESTINATION* using one of the following methods:
  - enter a specific street address;
  - select the intersection of two streets;
  - choose a Point of Interest such as a hotel, school or hospital;
  - use a Favourite destination that you have stored already;
  - pick an address you have recently travelled to.
- Take a position straight from the map and program this as your destination.

9-1 Using a Quick Nav

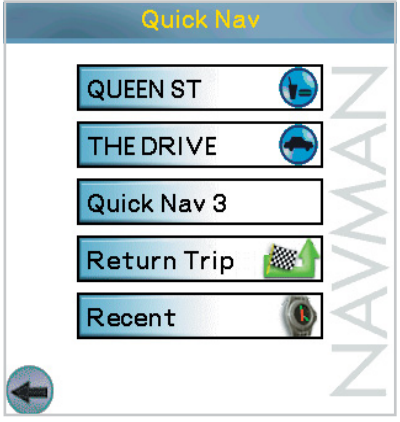
You are able to save your three most frequently used destinations as Quick Navs. This is the quickest and easiest way to set your route.

1 From the *MAIN MENU*, select *QUICK NAV*.

2 Select your previously programmed destination from the Quick Nav list.

3 SmartST Professional will calculate the route from your current position, and take you straight to the Navigation Screen.

For information on programming new Quick Navs, refer to Section 11-3 Quick Navs.



Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

Note: SmartST Professional will automatically display all countries contained in the maps currently loaded on the memory card. If there is only one country map loaded, this will be the only option provided.

Tip: Step 3 is optional, but can be useful if your map area is large.

9-2 Navigating to an Address

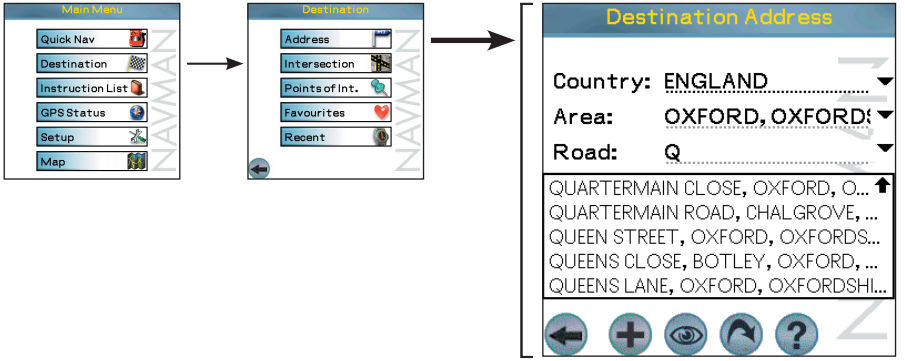
To enter a street address as your destination:

1 From the *MAIN MENU* select *DESTINATION,* then *ADDRESS*. The Destination Address screen is displayed.

2 Select *COUNTRY* from the drop-down box.

3 Select *AREA* - this could be a town, city, state or county. Start by entering the first few letters of the Area and then use the drop down box to select from the appropriate options.

4 Select *ROAD and* start entering the road name. SmartST Professional will display the first twenty matching road names in the drop down box. Tap a road to select it and complete the address. If the maps support house numbering, the destination can be finalized by entering the house/building number.



Tip: If any of the destination fields are not presented in capital letters, then a valid selection has not been made.

5 Once the address is selected, choose from one of the following:

- Tap . SmartST Professional will calculate the route and display the current street on the Navigation Map Screen. The map will show the *Waiting for GPS* icon until a fix is found.
- Tap . SmartST Professional will *not* calculate the route, but will simply display the address on the Map Screen. From here you can select this address as your destination or move around the map to find a different destination. Refer to Section 9-7 Using the Pop-UP Menu to Plan a Route for more information.
- Tap . SmartST Professional will save the destination address as a favourite. The address will be available in the Favourite List (refer to Section 9-5 Navigating to a Favourite).

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

9-3 Navigating to an Intersection

To enter the intersection of two streets as your destination:

1 From the *MAIN MENU*, select *DESTINATION*, then *INTERSECTION.* The Destination Intersection screen is displayed.

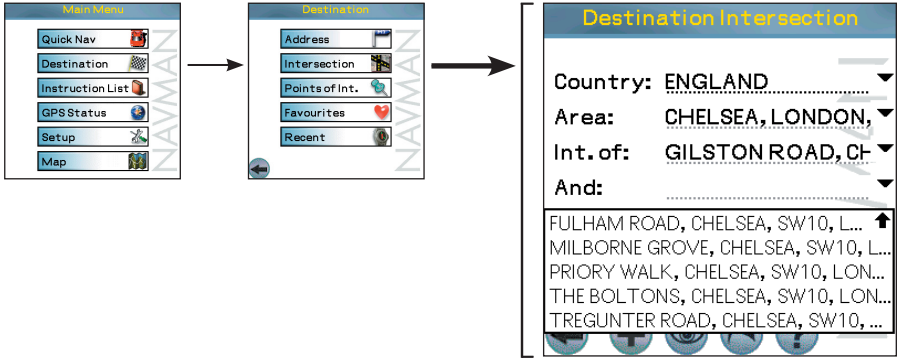
2 Select *COUNTRY* from the drop-down box.

3 Select *AREA* - this could be a town, city, state or county. Start by entering the first few letters of the Area and then use the drop down box to select from the appropriate options. Selecting an Area before entering the road name is optional but advisable for large maps.

4 Select the intersecting roads by entering the road names. SmartST Professional will display the first twenty matching roads in the drop down box. Tap a road to select it and complete the intersection address.

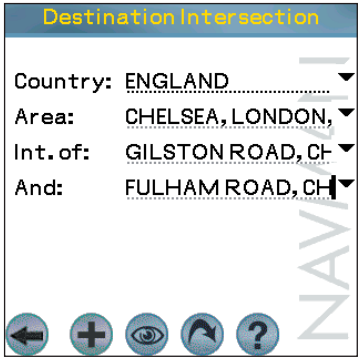
Tip: Step 3 is optional, but can be useful if your map area is large or the street is not uniquely named.

Tip: If any of the destination fields are not presented in capital letters, then a valid selection has not been made.



5 Once the intersection is selected, choose from one of the following:

- Tap . SmartST Professional will calculate the route and display the current street on the Navigation Map Screen. The map will show the *Waiting for GPS* icon until a fix is found.
- Tap . SmartST Professional will *not* calculate the route, but will simply display the address on the Map Screen. From here you can select this address as your destination or move around the map to find a different destination. Refer to Section 9-7 Using the Pop-Up Menu to Plan a Route for more information.
- Tap . SmartST Professional will save the destination address as a favourite. The address will be available in the Favourite List (refer to Section 9-5 Navigating to a Favourite).

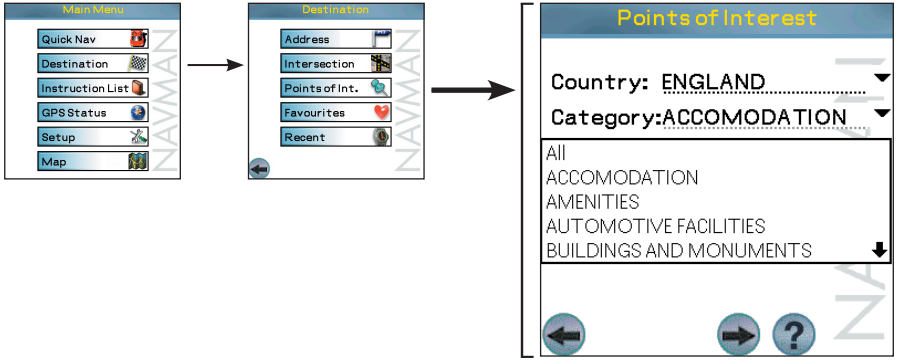


Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

9-4 Navigating to Points of Interest

The map information that you are using also has a large number of “Points of Interest”, or POIs stored for your convenience. A Point of Interest (POI) is any named site, feature, landmark or public venue. There are thousands of Points of Interest in larger cities, so they are sorted into categories. POI categories may be hotels, schools or parks to name just a few.

1 From the *MAIN MENU*, select *DESTINATION,* then *POINTS OF INTEREST*. the Points of Interest Screen is displayed.



2 Select *COUNTRY* from the drop-down box.

3 Select the *CATEGORY* from the drop-down box.

4 Select *TYPE* from the drop-down box. This will narrow down the number of options available.

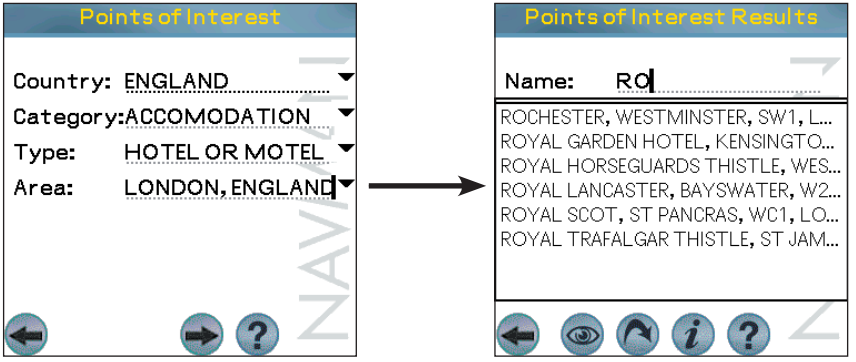
Tip: Step 5 is optional, but can be useful if your map area is large.

5 Select *AREA* - this could be a town, city, state or county. Start by entering the first few letters of the Area and then use the drop down box to select from the appropriate options.

6 Once you have entered all the information in the POI Screen, tap to display all the search results.

7 Select a POI from the list. Alternatively, if you know the name of the POI you are interested in, enter the first few letters of the POI to narrow down the list.

Example: if you wish to locate a hotel in a particular area, use this function by selecting *CATEGORY* : Accommodation, *TYPE* : Hotel or Motel. Enter the area of interest and select from the list of hotels provided.



Note: To display the POI icon on the map, the required POI category must be enabled on the POI setup screen. Refer to Section 13.6 for more information.

8 Choose one of the following:

- Tap . SmartST Professional will calculate the route and display the calculated route on the Navigation Map Screen. The map will show the *Waiting for GPS* icon until a fix is found.
- Tap . SmartST Professional will *not* calculate the route, but will simply display the address on the Map Screen. From here you can select this address as your destination using the "tap-and-hold" feature, or move around the map to find a different destination. Refer to Section 9-7 Using the Pop-Up Menu to Plan a Route for more information.
- Tap . This displays further information such as name, address, zip code etc.
- Tap to review or change the POI search to be performed.

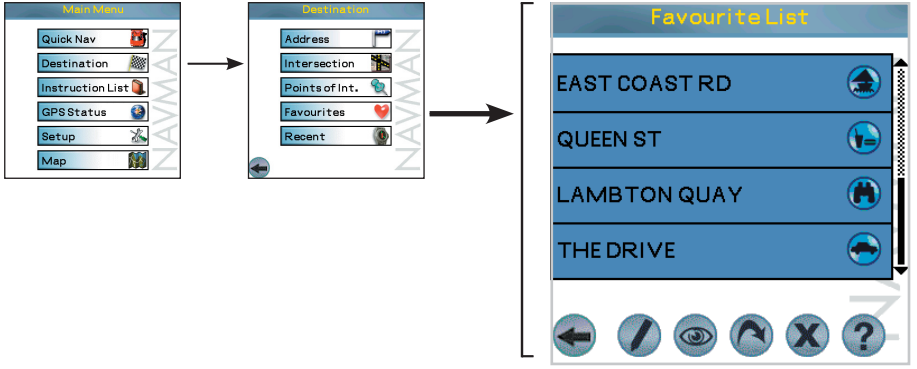
9-5 Navigating to a Favourite

SmartST Professional allows you to store Favourite destinations, to save you from re-entering the location again. Use Quick Navs for your 3 most regular locations, and store other commonly used locations as Favourites.

1 From the *MAIN MENU*, tap *DESTINATION*, then *FAVOURITES*.

2 Tap the destination from the Favourites List to select your destination.

Tip: You can also create a Favourite by selecting a road on the Map Screen and tapping and holding. See Section 9-7 Using the Pop-Up Menu to Plan a Route for further information.



3 Choose one of the following:

- Tap . SmartST Professional will calculate the route and display the current street on the Navigation Map Screen.
- Tap . SmartST Professional will *not* calculate the route, but will simply display the address using the Map Screen. From here you can select this address as your destination or move around the map to find a different destination. Refer to Section 9-7 Using the Pop-Up Menu to Plan a Route for more information.
- Tap . This will delete your saved Favourite from the Favourite list.
- Tap . This is where your destination is displayed, and you are able to change details such as the name or type of Favourite that you have assigned. Refer to Section 11-2 Editing or Deleting a Saved Favourite for more information.

Sony Car Cradle Users: is a restricted function. Refer Section 6-2.

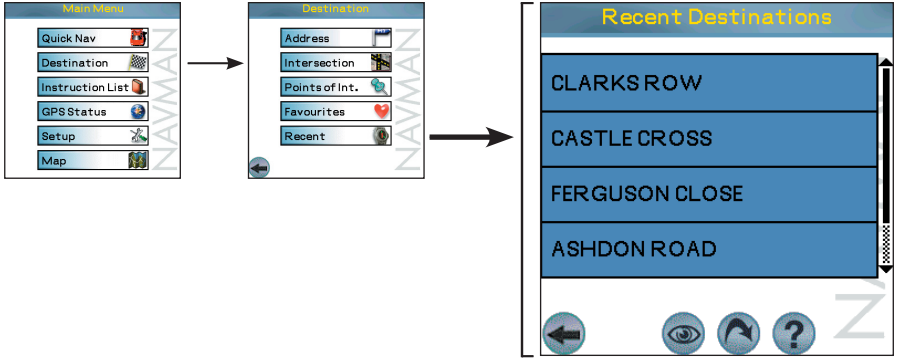
9-6 Navigating to a Recent Destination

Destinations that you have recently used are stored inside your Handheld so that you can quickly access them.

1 From the *MAIN MENU*, tap *DESTINATION*, then *RECENT*. (Recent destinations can also be selected by tapping *MAIN MENU,* then *QUICK NAVS* then *RECENT*).

2 Use the scroll bars to scroll through the list of recent addresses, then tap on your preferred destination.

Note: SmartST Professional saves the locations of destinations you have recently travelled to. As the list grows, SmartST Professional will replace the oldest destination with the most recent.



3 Choose one of the following:

- Tap . SmartST Professional will calculate the route and display the destination on the Navigation Screen. (GPS fix required)
- Tap . SmartST Professional will *not* calculate the route, but will simply display the address using the Map Screen. From here you can select this address as your destination or move around the map to find a different destination. Refer to Section 9-7 Using the Pop-Up Menu to Plan a Route for more information.
- Tap to return to the previous screen.

9-7 Using the Pop-Up Menu to Plan a Route

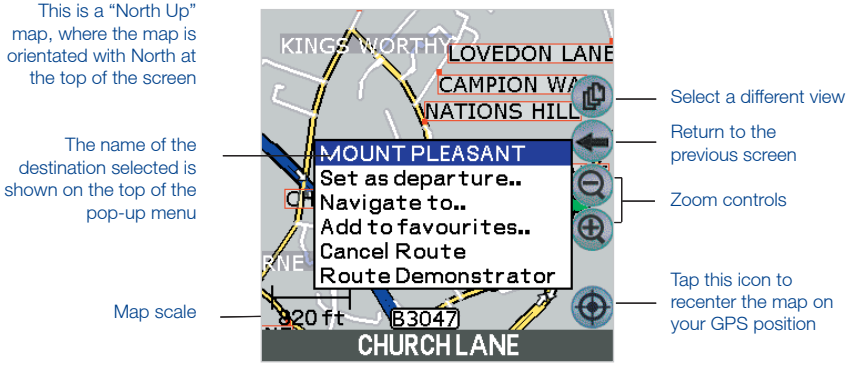
You may prefer to program your destination directly from the Map Screen. Generally you will use this option if you know the area in which your destination is, or if you have selected from a previous entry screen. SmartST Professional will allow you to scroll around a map and pick a point on the map. SmartST Professional will automatically load the address details for you and plan a route to your selected destination.

1 From the *MAIN MENU*, tap on *MAP*. You are now in the Map Screen.

2 Navigate around the map. To scroll around the map, use the stylus to drag a point on the map across the screen. As you drag the point around, the map will scroll to reveal more map area.

3 Zoom in and out as required. Zoom by tapping on the or buttons on the screen, or by using relevant hardware buttons on your handheld.

4 To select a destination, tap and hold any destination (road or Point of Interest) with the stylus, then select "Navigate To" from the pop-up menu. This sets your current location as your departure point and will calculate the route and display the destination on the Navigation Screen.



9-8 Route Planning Without a GPS Fix

Routes can also be planned without a GPS fix from the pop-up menu.

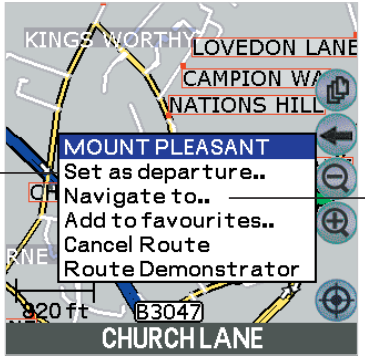
1 Select a departure location by tapping and holding on a street/road on the Map Screen and then selecting "*Set as Departure*" from the pop-up menu.

2 To select a destination location, either:

- Tap and hold on a street/road and select "*Navigate To*" from the pop-up menu.
- OR select a destination as described in Section 9 Setting Your Destination.

3 The route will be calculated and displayed on the Navigation Screen.

Step 1:
Tap on "*Set as Departure*"



Step 2:
Tap on "*Navigate To*"

10 Viewing Your Route

Once you have selected your destination and SmartST Professional has calculated your route, there are four different ways that you can view instructions for your route. Cycle through the following three views by tapping on the icon. Each view is described below.

Note: All map views are accompanied by audible announcements of your next turn.

- The MAP view displays your route on a map which is always oriented North.
- The NAVIGATION view displays your route on map which is always oriented in the direction in which you are travelling.
- The NEXT INSTRUCTION view is a simple graphical display showing the direction and distance to your next turn.

An alternative way of viewing your route is to display an INSTRUCTION LIST. This view displays the list of remaining turns to your destination, with the street name, direction of turn and distance to go. Refer to Section 10-2 for further details.

10-1 Map View

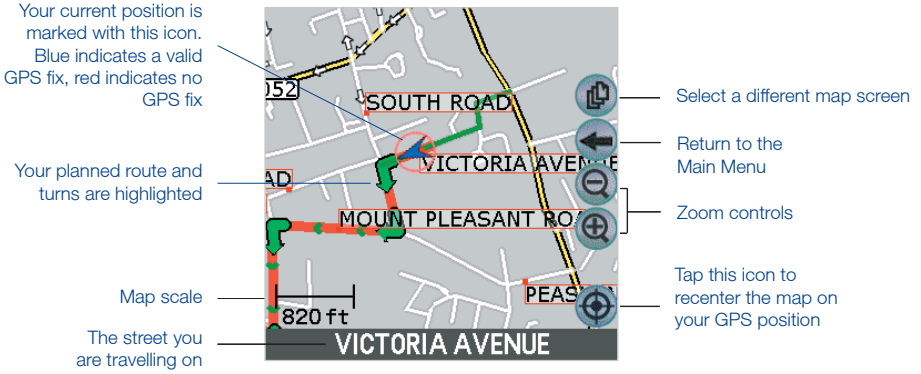
The Map view is always oriented to the North, and shows your current position and surrounding street names. If you have already programmed a route, the route and all turns are highlighted. You can use the Map view to quickly set your departure point, and navigate to any destination.

1 To view the route, tap on the symbol to cycle through the screens until the Map Screen is displayed.

2 Zoom in and out as required.

Note: To cancel your current route at any time, tap-and-hold on the screen, and select Cancel Route from the pop-up menu. Alternatively, simply start planning a new route and you will be prompted to cancel the current route.

Note: You can use the Map view to quickly set your departure point and navigate to any destination. Refer to section 9.7 Using the Pop-Up Menu to Plan a Route for more information.



10-2 Navigation View

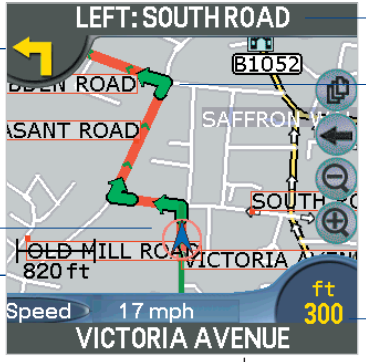
The Navigation view is displayed when you calculate a route, except that the map is always oriented in the direction in which your vehicle is travelling. This is often an easier way to keep your bearings.

Note: to view this screen, a route must be calculated.

1 To view the route, tap on the symbol to cycle through the screens until the Navigation Screen is displayed.

2 Zoom in and out as required.

In this screen, both the map-panning function and the pop-up menu are disabled.(Available only in the Map screen)



Direction of next turn. Tap this icon to announce the current instruction

Next instruction and Road Name

Turns are highlighted in green

Your current position is marked with this icon, blue indicates a valid GPS fix, red no GPS fix

The map automatically zooms in or out depending on the speed of travel. The map may be zoomed manually but will snap back to the auto zoom level after a short delay.

Map scale

Distance to next turn

Tap this button to cycle through the following data display options:

- Current speed (displayed)
- Current time
- Current bearing / heading (HDG)
- Distance to go to destination (DTG)
- Expected time of arrival at destination (ETA)
- Time to go to destination (TTG)
- Angle

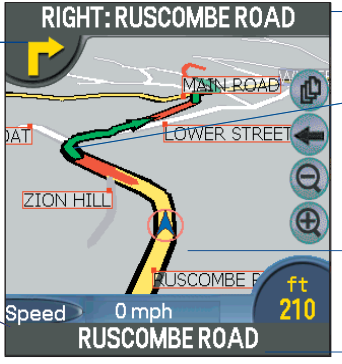
The street you are travelling on

10-3 3D Navigation Screen

Note: to view this screen, a route must be calculated.

You can cancel your current route at any time by starting to plan another route (e.g. by selecting *DESTINATION* or *QUICK NAV* from the *MAIN MENU*.

Similar to the Map Screen, the 3D (three dimensional) Navigation screen is displayed when you calculate a route, except that the map is always oriented to the direction in which your vehicle is travelling. This is often an easier way to keep your bearings.



Direction of next turn. Tap this icon to announce the current instruction

Next instruction and Road Name

Your next turn is highlighted in green

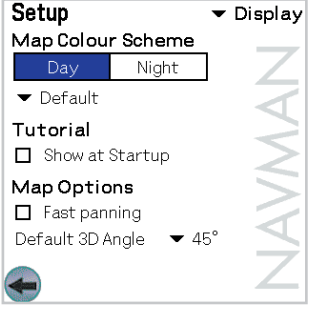
Your current position is marked with this icon, blue indicates a valid GPS fix, red no GPS fix

The street you are travelling on

Tap this button to cycle through the following data display options:

- Speed
- Time
- Angle
- Distance to go to destination (DTG)
- Expected time of arrival at destination (ETA)
- Time to go to destination (TTG)

Tip: When the angle option is selected, the up and down buttons can be used to reset the angle to 0°, which transforms the 3D screen view to a 2D view.



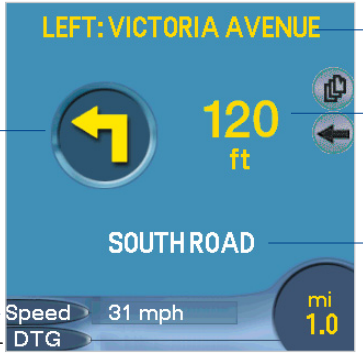
The *DEFAULT 3D ANGLE* of the 3D Navigation screen can be adjusted by tapping to select the drop down box and then selecting the preferred default 3D angle. Each time SmartST is opened this default angle is applied to the 3D navigation screen. If an angle of 0° is selected, then the 3D Navigation screen shows the map as a two dimensional (2D) display.

10-4 Next Instruction View

Note: to use this view, a route must be calculated.

This view shows the information that you need for the next turn, the direction of the turn and the distance to the turn.

1 To view the route, tap on the symbol to cycle through the screens until the Next Instruction Screen is displayed.



Next instruction

Distance to next turn

Direction of next turn. Tap this icon to announce the current instruction

The street you are travelling on

Tap on these buttons to cycle through the following data display options:

- Current speed
- Current time
- Current bearing / heading (HDG)
- Distance to go to destination (DTG)
- Expected time of arrival at destination (ETA)
- Time to go to destination (TTG)

10-5 Instruction List

Note: to view this screen, a route must be calculated.

The Instruction List displays the list of the remaining turns to your destination with the direction of the turn, the next street name and the distance to the turn. The very next turn is highlighted.

1 From the *MAIN MENU*, select *INSTRUCTION LIST.*

2 You can scroll up and down the instruction list by dragging the stylus up and down the scroll bar.

The distances shown in the right column are measured between the current location and each turn.

Scroll bar

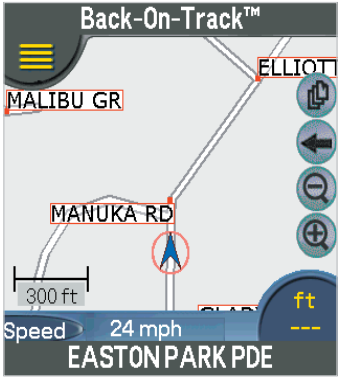
Tip: This function can be disabled in the SETUP Menu.

10-6 Back-On-Track™ Feature

SmartST Professional is designed to re-plan your route automatically if you take a wrong turn. A **?** symbol will display in place of the Direction Of Next Turn Icon. The re-routing indicator will display to show that a new route is being re-calculated.

Re-routing indicator

Re-routing indicator



11 Editing, Deleting and using Favourites and Quick Navs

Tip: Convert recent destinations to Favourites by selecting Recent - Show then tapping and holding to save as a favourite.

SmartST Professional allows you to save destinations as Favourites, so you can access them quickly without re-entering address information. You can also use Quick Navs to save the three most commonly used Favourites, as Quick Navs can be accessed with less keystrokes than Favourites.

11-1 Adding a New Favourite

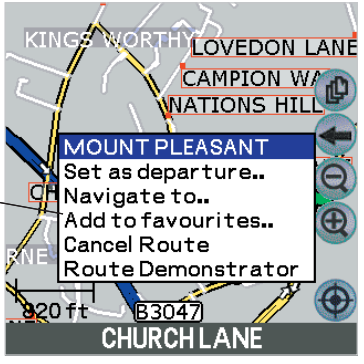
Tip: Favourites can be accessed through the *DESTINATION-FAVOURITES* menu.

1 From the *MAIN MENU*, tap on *MAP*. You are now in the Map Screen.

2 Navigate around the map by dragging the stylus across the screen.

3 Zoom in and out as required.

4 Tap and hold the destination you wish to select (eg. a road, Point of Interest or intersection), then tap "*Add to Favourites*".



Sony Car Cradle Users: Edited is Restricted Function. Refer Section 6-2.

11-2 Editing or Deleting a Saved Favourite

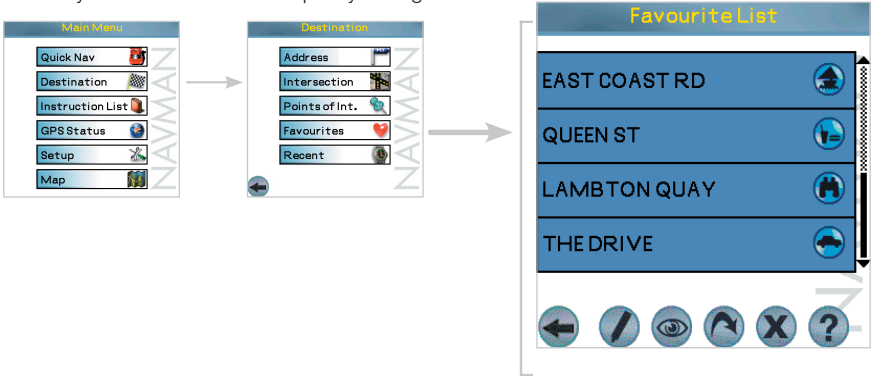
Follow these instructions to delete Favourites, personalise them with a nickname, or change them to Quick Navs.

1 From the *MAIN MENU*, select *DESTINATION*, then *FAVOURITES*.

2 Select the destination that you wish to edit/delete from the Favourite List.

3 To delete the destination from the Favourite List, simply tap on ⊗. Tap on OK when prompted to confirm.

4 You can customize the look of each of your Favourites by giving the destination a “nickname” (e.g. WORK) and assigning an icon. You can also choose to save the Favourite as one of three Quick Nav destinations, which means that you can access it more quickly through the Quick Navs menu.

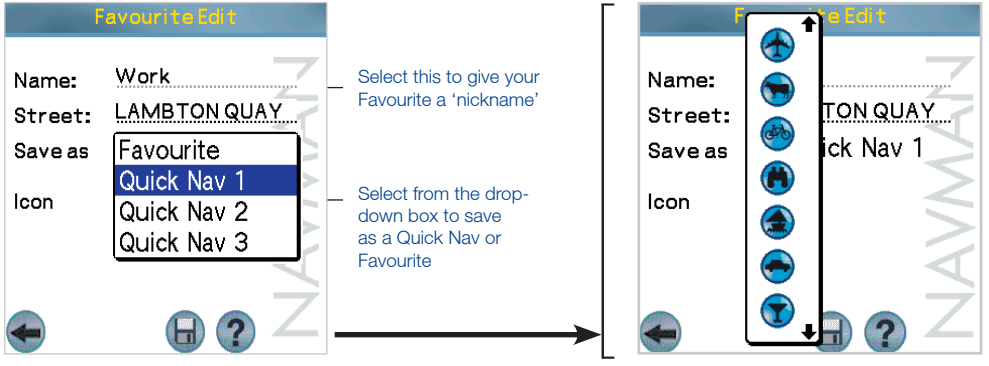


Example: you may want to save your own address as a Quick Nav, and name it HOME.

To make any of these changes, tap .

- To change the name of your Favourite or Quick Nav, type it into the Name field.
- To change the type of Favourite or Quick Nav, tap on the "*Save as*" drop-down box to save as a Favourite or one of three Quick Navs.
- To change the icon of the Favourite or Quick Nav, either tap on the displayed icon and choose from the pop-up list provided.
- Tap to save the changes you have made and return to the previous screen.

Tip: Quick Navs can be deleted after they have been 'Saved' as a Favourite by using .

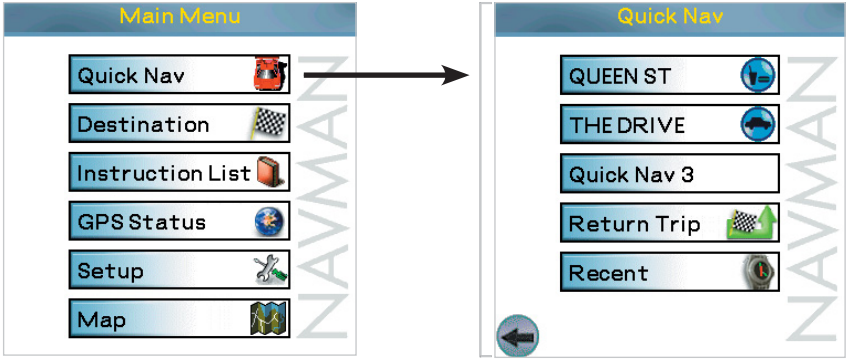


11-3 Quick Navs

Three of your most frequently used destinations can be stored to save time. Once saved, your Quick Navs can be accessed quickly through the Quick Nav menu with the minimum of key presses and without having to re-enter any information. Quick Navs also give access to the return trip function and recent destination.

1 From the *MAIN MENU*, select *QUICK NAV*.

Tip: To return to any of these destinations simply tap on the desired destination in the recent list.



2 To go straight to one of your Quick Nav destinations, simply tap on *QUICK NAV*. SmartST Professional will calculate the route and display the destination on the Navigation Screen.

3 To access the Recent Destinations list, tap on *RECENT*. Refer to Section 9-6 Navigating to a Recent Destination for more information.

4 If you tap on *RETURN TRIP*, SmartST Professional will calculate a route from your current position to the departure point of your previous route. The route is displayed on the Navigation Screen.

12 Using the GPS Status Information

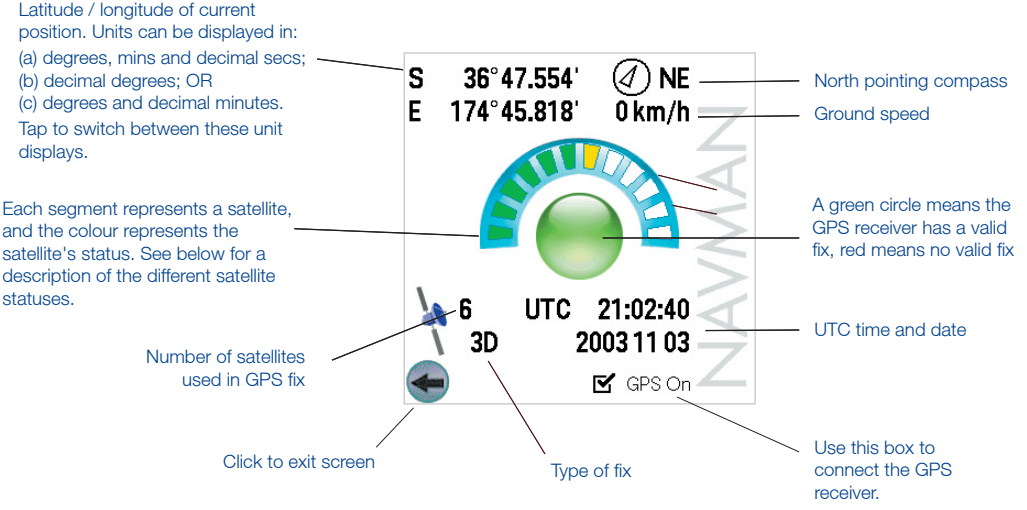
12-1 GPS Reception

The GPS Status Screen tells you how well you are receiving the GPS satellite information. SmartST Professional relies on the reception of signals transmitted by the Global Positioning System satellites orbiting the earth. This display shows a visual representation of the number of satellites that your handheld is receiving information from.

1 From the *MAIN MENU*, select *GPS STATUS*.

Tip: If you are having trouble obtaining a GPS fix, you can use this screen to review the GPS satellite reception.

Tip: The GPS receiver must be locked onto a minimum of 3 satellites for successful operation.



Tip: In practice less than 12 satellites are tracked by the GPS receiver due to satellite positioning.

Latitude and longitude are displayed along with a North-pointing compass, the heading in degrees and ground speed.

The 12 satellites that could be viewed from your current position are shown as segments. The satellites are represented as follows:

- A yellow segment indicates a satellite that is being tracked but is not being used to determine your position.
- A red segment indicates a satellite that is being used to determine a two dimensional (2D) fixed position.
- A green segment indicates a satellite that is being used to determine a valid (3D) fixed position.

Tip: The number of indicated satellites depends on your GPS receiver.

The circle underneath the segment display is green when there is a valid fix (2D or 3D), and red when there is no fix available. While a 2D fix is sufficient to maintain a valid fix, a 3D fix is more accurate.

The time and date are displayed in UTC (Coordinated Universal Time), where UTC is the current term for what was commonly referred to as Greenwich Mean Time (GMT).

12-2 GPS Status Messages

The GPS status messages are displayed on the three navigation screens (Map screen, Navigation screen, and the Next Instruction screen). The messages listed in the table below provide you with feedback on the status of the GPS receiver connection.

Status Message	Meaning	Suggested Action
No GPS Data	A GPS connection has been enabled, but no GPS data is being received.	Check that the handheld is correctly connected and configured - see Section 6 for correct settings.
Waiting for GPS	A GPS connection has been enabled and GPS data is being received, but a GPS position fix has not been established yet.	Time to acquire a GPS fix will vary according to the satellite constellation. Please refer to your GPS Hardware guide for more information.
Current street name displayed	GPS data is being received, and you have a valid GPS position fix.	None

13 Modifying the Settings

Note: SmartST Professional is already programmed with default settings, which can be adjusted to suit your preference.

SmartST Professional has a number of Settings that you can alter:

- *About* settings: Display the version number of the SmartST Professional software you are running.
- *GPS* settings: Configure the communications settings for your GPS Receiver.
- *Display* settings: Change the map colours, select fast map panning or enable/disable the startup tutorial.
- *Guidance* settings: Choose the distance units (kilometres or miles) or change the voice guidance settings.
- *Map* settings: Select the map regions you need to plan your route.
- *POI* settings: Select the Points of Interest that are relevant to you.
- *Routing* settings: Select "shortest distance" or "fastest time" route planning, avoid certain road conditions or enable/disable the Back-On-Track™ feature.

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-1 About Settings

View the software version, map data and application copyright information relating to the SmartST Professional software.

1 From the *MAIN MENU*, select *SETUP.*

2 From the drop down list, select *ABOUT.*

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-2 GPS Settings

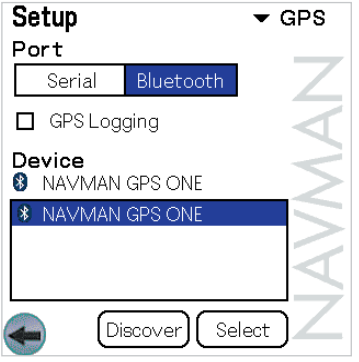
For Bluetooth and serial GPS users, use this screen to configure the GPS port. Refer to Section 7-3 Configuring the GPS Receiver.

If you are experiencing difficulty with your GPS receiver, you may be asked by Technical Support Staff to switch on the GPS Logging option:

1 From the *MAIN MENU*, select *SETUP*.

2 From the drop down list, select *GPS*.

3 Enable GPS Logging by checking the "GPS Logging" box.



Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-3 Display Settings

If you find that the display is difficult to see in certain light conditions, use this function to change the colour scheme. You can also enable / disable the tutorial that is automatically run at startup of SmartST Professional.

1 From the *MAIN MENU*, select *SETUP*.

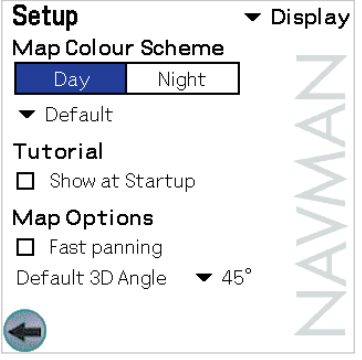
2 From the drop down list, select *DISPLAY*.

3 Modify the settings as required:

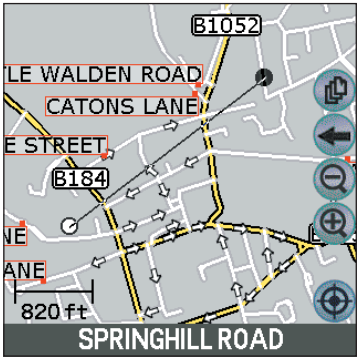
- Select either Day or Night from the Map Colours menu to improve the contrast in light and dark conditions.
- Select your preferred Map Colour Scheme by selecting from the drop-down menu.
- To enable / disable the Tutorial check or uncheck the “Show at startup” checkbox.
- To enable / disable fast map panning, check/ uncheck the "Fast map panning" box.
- The *DEFAULT 3D ANGLE* of the 3D Navigation screen can be adjusted by tapping to select the drop down box and then selecting the preferred default 3D angle.

Note: Backlight brightness can also be modified to suit viewing conditions. Refer to your Handheld documentation for instructions.

Tip for Sony Car Cradle Users: Map colours can also be switched depending on day/night mode of the Car Cradle



This feature will speed up map panning when viewing or planning a route across a large or high density map area. With normal panning mode, the map is updated repeatedly as you drag the stylus across the screen. With fast map panning, a line is drawn from when you start to drag the stylus to the end position - only then is the map redrawn.



Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-4 Guidance Settings

This is where the voice scheme and distance units can be set.

1 From the *MAIN MENU*, select *SETUP*.

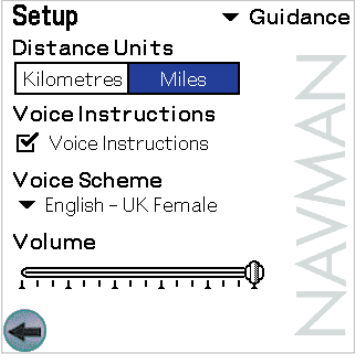
2 From the drop down list, select *GUIDANCE*.

3 Modify the settings as required:

- Choose the Distance Units that you require – all measurements (e.g. Distance to Go), map scales, navigation screens and voice announcements can be programmed as kilometres or miles.
- Choose the type of voice you prefer from the Voice Scheme menu by tapping the drop-down box to select the voice scheme of choice.
- Change the volume of the voice instructions

Note: These changes will only take effect when the next route is planned.

On the Sony Car Cradle, Voice Scheme is always English - UK male.



Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-5 Map Settings

This screen shows all the map regions that have been installed in the memory cards.

Tip: Your Handheld will run faster with less map regions selected. To optimise performance, select only the map regions you require to plan your route.

1 From the *MAIN MENU*, select *SETUP*.

2 From the drop down list, select *MAPS*.

3 Select the Storage Location drop-down box to display the map regions for each storage area (only applicable for handhelds with multiple memory cards).

4 Select and clear map regions with the check boxes as required.

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-6 POI (Points of Interest) Settings

There are usually a very large number of Points of Interest in any one geographical region. This function allows you to select only those categories that you might need. For example you may be interested only in accommodation and entertainment venues, and may want to disable such categories as amenities and institutions.

Tip: For ease of viewing, select only the most useful POI categories.

1 From the *MAIN MENU*, select *SETUP*.

2 From the drop down list, select *POI*.

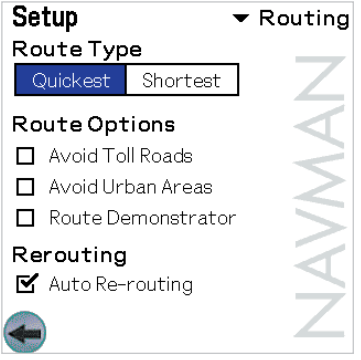
3 Enable the “Show Icons on Map” option from the Display menu if you want the Points of Interest to be displayed on your maps.

4 From the Categories menu, select the Points of Interest Categories that you wish to enable.

Sony Car Cradle Users: Restricted Function. Refer Section 6-2.

13-7 Routing Settings

There are a number of options that affect the way that SmartST Professional plans your route. You may be conscious of time and therefore want to get to your destination by the fastest route possible, or you may be conscious of distance and wish to take the shortest route. Use this function to change the route settings to suit your needs.



1 From the *MAIN MENU*, select *SETUP*, then *ROUTING*.

2 Modify the settings as required:

- Select either *QUICKEST time* or *SHORTEST distance*.
- Enable or disable *AVOID TOLL ROADS* and *AVOID URBAN AREAS* from the Route Options menu if required.
- Enable or disable the *ROUTE DEMONSTRATOR*. This allows you to demonstrate a planned route prior to driving it.
- Enable or disable the Back-On-Track™ *AUTO RE-ROUTING* feature from the Rerouting menu.

Note: The *AUTO RE-ROUTING* function automatically updates your route if you take a wrong turn.

14 Accessories

14-1 Memory Cards

Maps must be stored on memory cards. Please refer to your handheld documentation for suitable memory card options and installation instructions.

14-2 Memory Card Writers

The memory card writer connects to your computer via a USB port, and is used in conjunction with the SmartST Professional Desktop application to download maps to a memory card.

15 Frequently Asked Questions

Where will SmartST Professional for Palm OS® 5 work?

As long as the GPS receiver has a clear view of the sky, it will work accurately anywhere on earth. Note: in order for the GPS position to be displayed on a map, the relevant map will need to be installed on the memory card.

How accurate is GPS?

Accuracy of any GPS system will vary slightly over time. It is accurate to within 5 m (16 feet) for 95% of the time in normal usage.

How detailed are the maps supplied with SmartST Professional?

The SmartST Professional maps contain street level detail allowing door to door navigation where data is available. Maps also have points of interest (POIs) such as hotels, railway stations and airports.

How can I make SmartST Professional run faster?

If you are finding that SmartST Professional is running slowly, it may be because the software is processing a large amount of map data. Check that only the map regions you require for route planning are selected.
Refer to Section 13-5 Map Settings for more information.

For optimum performance, Navman recommend running SmartST Professional independently of other applications.

Please refer to the documentation supplied with your handheld for information on adjusting the backlighting settings or adjusting battery and external power settings.

16 End User License and Warranty Agreement

IMPORTANT - Please read carefully

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IMPORTANT: The following terms and conditions may vary from country to country. Please check with Your Navman dealer from where You purchased the product.

Hardware Product: Navman warrants its products to be free from defects in materials or workmanship under normal use for two years from the date of purchase (the Warranty Period) to the original owner (You). To claim under this warranty, You must return the product to the place of purchase, or a service centre approved by Navman (Service Centre). You must produce an original sales receipt as proof of purchase. You will be solely responsible for all shipping charges, freight, insurance and proper packaging to prevent breakage in transit. Navman will, at its discretion, repair or replace any defective product or its components at no cost to You for parts and labour. The replacement product or component takes on the warranty status of the original product or component. This is Your exclusive remedy for defective products.

Limitations: This warranty does not apply to products that have been damaged or rendered defective: (a) as a result of incorrect installation, misuse, mishandling, misapplication, accident, abuse, breakage or other external causes; (b) by operation outside the usage specifications stated in the product documentation; (c) by modification or service other than by Navman or its approved Service Centres.

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16-2 FCC Statement

Applicable to all Navman GPS Receivers.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a normal installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an output on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.
- A shielded cable must be used when connecting a peripheral to the serial ports.

16-3 Contact Us

For technical support, frequently asked questions, software updates and additional information, visit our website - www.navman.com.

Sony Car Cradle Users: Visit official Sony CLIÉ™ web site: www.clie-link.com

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