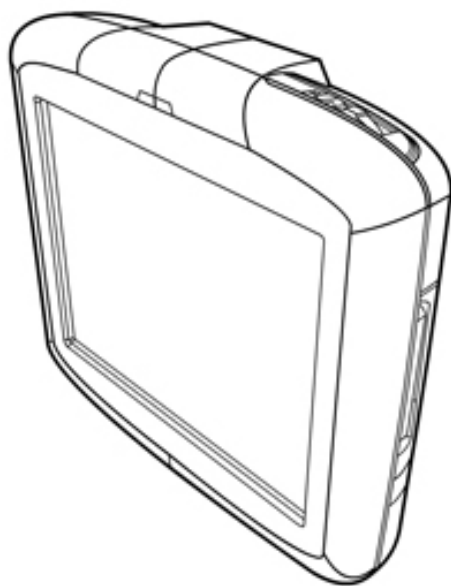


VN910



VN910 User Guide: February 2007

All reasonable attempts are made to ensure that this User Guide is up-to-date and accurate. However, please note that due to circumstances beyond our control, certain appearances, features or operations may vary slightly from those described here. Contents are subject to change without notice.

Contents

Important Safety Instructions

General.....	6
Working Conditions	6
Design Limitations	7
User Scenario/Habit	7

Introduction

About the VN910	8
Package Contents	8
Features.....	9
Front.....	9
Rear	9
Top.....	10
Bottom.....	10
Left and right sides.....	10

Initial Setup

Switch the Device On	11
Screen Calibration.....	11
Set the Time/Date.....	11
Insert the SD/MMC Card	12

Connecting to a Computer

Establishing device-PC connection	13
---	----

Charging the Device

Battery Indicators.....	14
LED indicators	14
Using the AC Adaptor.....	14

Car Installation

Setting up the VN910 in your vehicle.....	15
Using the suction cup	15

Basics

Navigation Options.....	19
Using the touch screen.....	19
Using the hard keys.....	19
Main menu screen	19

Navigation

Accessing the Navigation Function.....	21
--	----

MP3 Player

Accessing the MP3 Player	22
Mp3 Player Screen Definitions.....	23
Display.....	23
Buttons	23
Using the Player.....	24
Playing music	24
Adjusting the volume	24
Changing the order of tracks	24
Repeating tracks	24
Creating a playlist.....	25

Photo Viewer

Accessing the Photo Viewer	26
Using the Photo Viewer	27

Viewing photos	27
Using the slideshow.....	28

Settings

Accessing the Setup Screen	29
Adjusting the Settings.....	30
Setting the Time/Date	30
Changing the Time Zone.....	30
Changing the Time/Date	32
Volume.....	33
FM Transmitter	34
Screen options.....	36
Adjusting the Brightness	36
Adjusting the Idle Time.....	36
Calibrating the Screen.....	37
Choosing the Language.....	38
System Information.....	39

Resetting the Device

Performing a soft reset	40
Performing a hard reset.....	40

Troubleshooting Guide

Important Safety Instructions

Please read and follow these safety instructions before using your device for the first time, and save them for future reference.

General

- Keep away from extremely hot, cold or humid conditions.
- Do not allow the device to get wet.
- Avoid shocks or vibrations.
- Do not open your device. Any attempts to open this device will void the warranty.
- Wipe the touch screen only with a lint-free cloth, slightly dampened, while the device is switched off.
- Do not place objects on top of the device.

Working Conditions

- Do not charge the device in extremely hot or cold conditions.
- If the red LED is flashing, please recharge the device immediately.
- Please use the car charger when possible during in-car use.
- Please only use the supplied USB cable.
- Please do not use other chargers or adaptors, as these may damage your device.
- Only use the supplied MMCX equipment to connect to an external antenna.
- Do not operate this device in extremely hot or cold conditions.

Design Limitations

- Do not remove the SD/MMC card while using the photo viewer or MP3 functions.
- If you need to format the SD/MMC card, please specify the FAT file system.
- Please only use images of an acceptable format with the photo viewer.
- During charging, the LED will be orange until charging is complete, at which time it will change to green. If the charger is removed and connected again, the LED will remain orange for approximately 30 minutes before changing to green.
- The MP3 player supports mp3, wav and wma formats.

User Scenario/Habit

- Do not operate this device while you are driving.
- Before first use, please charge this device for at least 8 hours.
- For the best possible initial GPS fix, please be outdoors, in an open space, with a clear sky.
- When using the GPS function, the folding GPS antenna should be positioned so that it is parallel with the ground (i.e. it is in a horizontal position).
- Do not store this device in extremely hot or cold conditions.
- Before first use, please make sure that the hardware reset switch is in the correct position. Leave in this position from then on.
- To switch the device on, press the power button for 3 seconds. To switch off, hold the power button for 3 seconds.
- Do not use this device in damp, wet or rainy conditions.
- The use of FM transmitters is illegal in some countries. Make sure it is legal for you to use the FM transmitter function of this device before doing so.
- The navigation information offered by this device is for reference only. We cannot guarantee that the information on this device will always be 100% accurate, so you should watch the road for indications or dangers in the same way as usual. Please use

Introduction

About the VN910

The VN910 is not only a portable GPS navigation system which can be used in or out of the car, it is also an mp3 player with a built-in speaker (can still be used with earphones if you prefer) and photo viewer. It can also transmit audio through an FM transmitter, which you can pick up on your car radio.

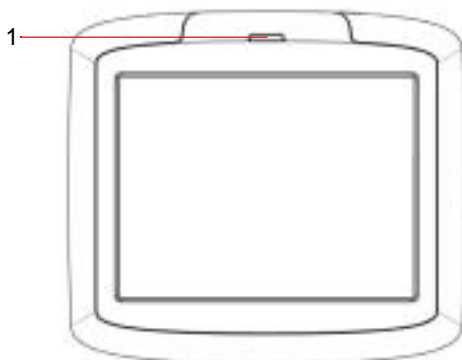
Package Contents

Please check that you have the following items (Note that some items may be optional, or in some cases extra items may be included. Please check with your retailer if you are unsure). If any items are missing, please contact your retailer immediately. Packaging should be saved for future use.

- VN910 unit
- Car mount kit
- Car charger
- SD card (Optional)
- AC Adaptor
- Mini USB cable
- VN910 Getting Started Guide (Optional)
- VN910 Warranty Booklet (Optional)
- Navigation software Quick Start Guide (Optional)
- Navigation software CD (Optional)

Features

Front



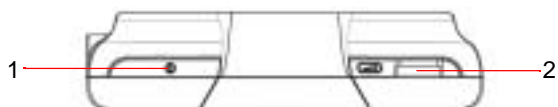
1. Power LED

Rear



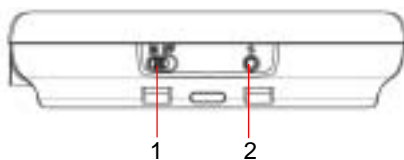
1. Speaker

Top



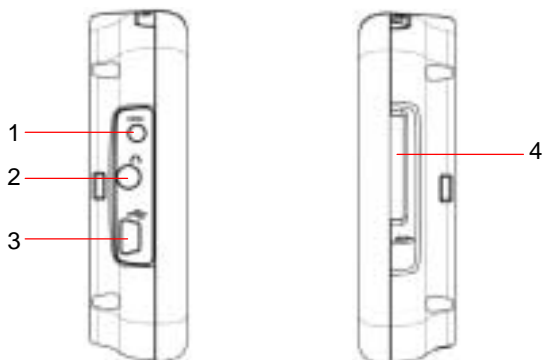
1. Power button
2. Volume control

Bottom



1. Hardware reset switch
2. Soft reset button

Left and right sides



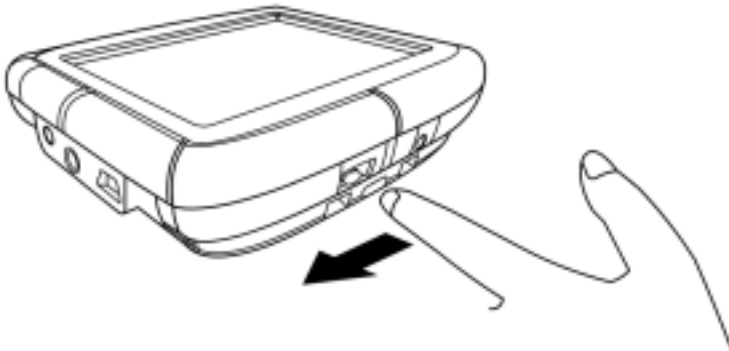
1. External antenna connector
2. Headphone jack
3. Mini USB port/DC in
4. SD/MMC card slot


Initial Setup

To use your VN910 for the first time, please follow these instructions.

Switch the Device On

To switch on the device for the first time, slide the hardware reset switch left to the “ON” position.



 **NOTE:** After switching your device on for the first time, you should not use the hardware reset switch again unless you want to do a hardware reset. See “Resetting the Device” on page 40 for more information. Instead, use the power button on the top of the device.

Screen Calibration

When you switch the device on for the first time, you will have to calibrate the screen. Follow the simple on-screen instructions to do this.

Set the Time/Date

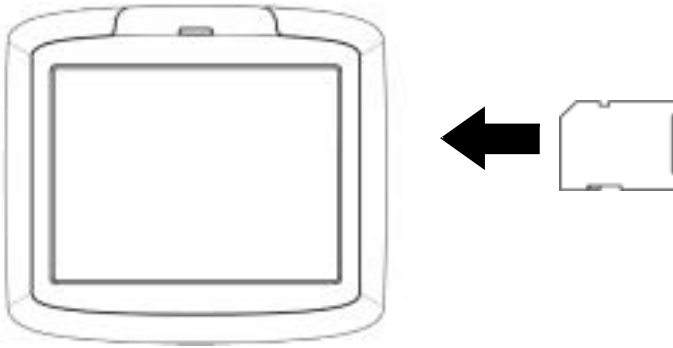
You may wish to set the time before you first use the device. For information on setting the time and date, see “Setting the Time/Date” on page 30.


For more information on other setup options, see “Settings” on page 29.

Insert the SD/MMC Card

Any music tracks or photos that you may transfer from your computer are stored on the SD/MMC card.

To insert the SD/MMC card, make sure it is aligned correctly, and then push it into the SD/MMC slot on the right-hand side of the device until you hear an audible signal to say that it has been correctly inserted.

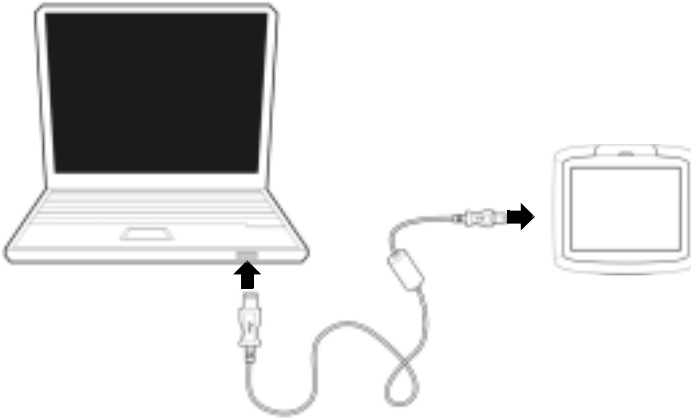


 **NOTE:** Should you ever need to remove the SD/MMC card, push it in a little and let it pop out.

Connecting to a Computer

Establishing device-PC connection

Connect the smaller end of the supplied USB cable to the mini-USB port on the left-hand side of your device. Connect the larger end of the USB cable to an available USB port on your computer.



Charging the Device

Battery Indicators

Your device uses a rechargeable 1200 mAh Lithium Ion battery. The battery icon is located on the top right-hand corner of the Main Menu screen and indicates the battery level, or charging state, as follows:



- Charger attached. Battery charging.



- Running on battery power. Battery fully charged.



- Running on battery power. Battery low. Charging recommended.

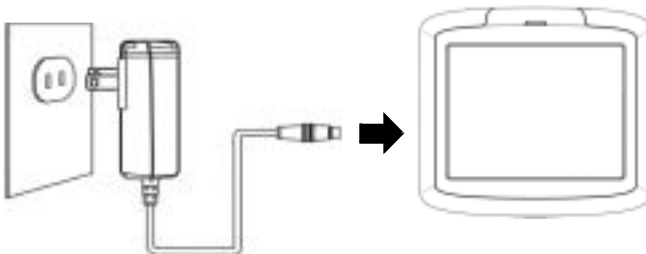
When the battery reaches an extremely low level, a warning message will appear. When you see this message, you must recharge the battery immediately.

LED indicators

- Blue - Charging
- Green - Fully charged (charger plugged in)
- Flashing blue - Low battery

Using the AC Adaptor

Plug the AC adaptor into an AC power source, then plug the other end into the **Mini USB/DC in connector** on the left side of your device.




Please charge your device for 8 hours before initial use.

After the first charge, recharging the device will normally take approximately 4 hours.


Car Installation

Setting up the VN910 in your vehicle


Use the VN910 car kit to set up your device in your vehicle. The car kit can either be used on the windshield (using the suction cup), or on the dashboard (using the self adhesive disk and the suction cup together).

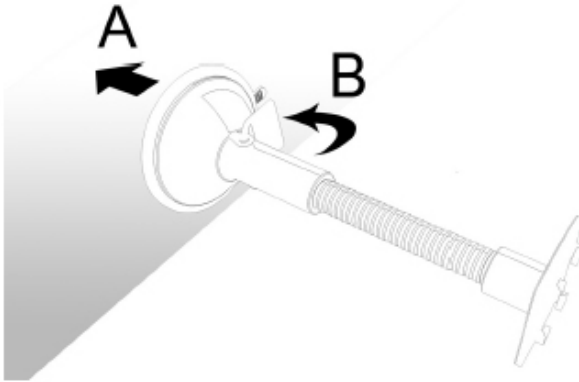
 **CAUTION:** Please check with local laws regarding the mounting of devices on or close to the windshield of your vehicle.

 **CAUTION:** Do not mount the device where it obscures your view of the road.

 **CAUTION:** Do not mount the device anywhere where it might affect the deployment of any airbags.


Using the suction cup

 **NOTE:** Make sure that the mounting surface is clean before mounting the car kit.

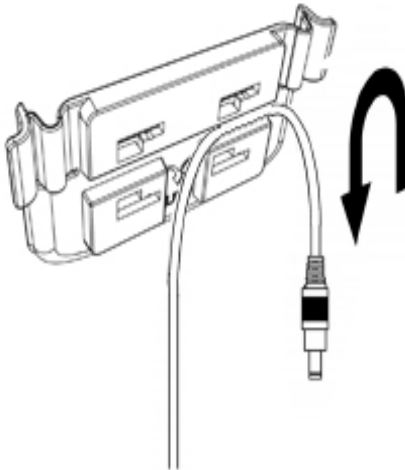


1. Fix the suction cup to the selected area with the locking lever facing up (A), then flip the locking lever away from you to create a vacuum between the suction cup and the mounting surface (B).

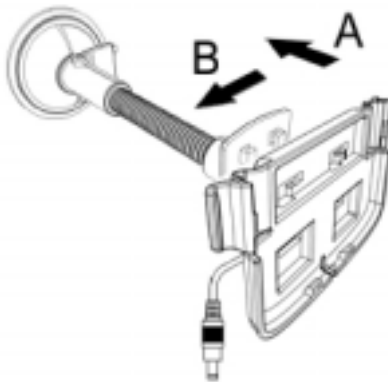
Car Installation

 **NOTE:** Make sure that the suction bond is strong enough before proceeding to the next step.

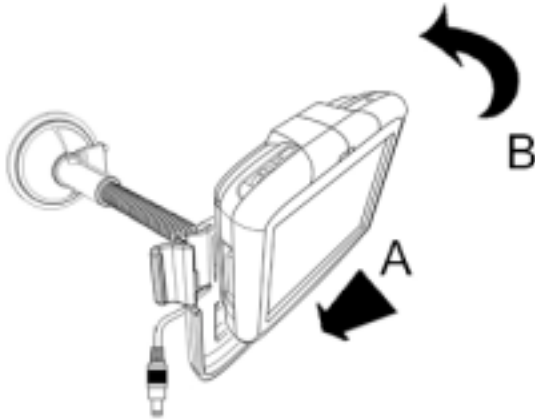
2. Feed the car charger cable down the back of the car holder.



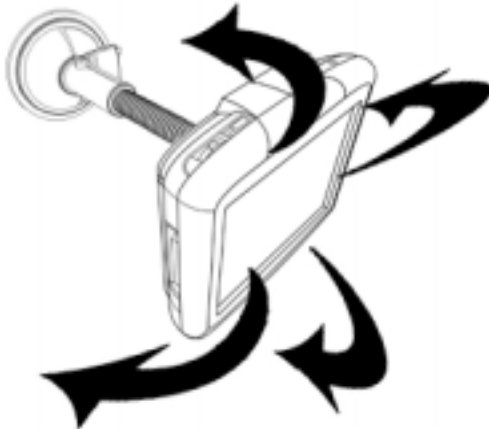
3. Insert the pegs on the car mount's holder plate to the holes on the back of the car holder, then move the car holder downwards until both parts are engaged.



4. Dock the device on the car holder.

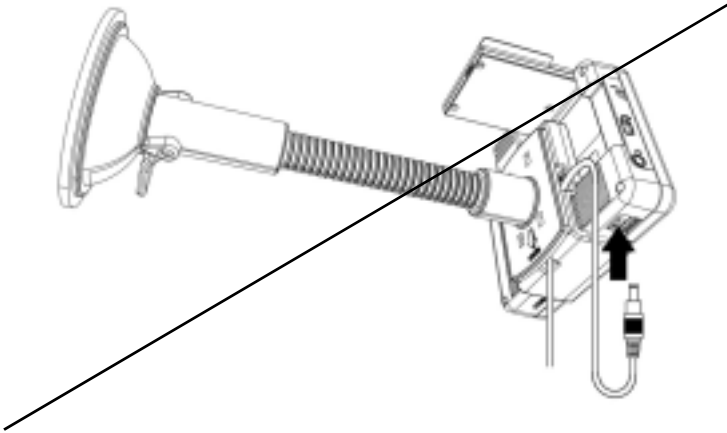


5. Adjust the car mount for the best viewing angle.



Car Installation

6. After setting up the device on the car mount, connect the car charger.



Basics

Navigation Options

Using the touch screen

This device does not require a stylus and can be operated with your finger. This leads to a much more natural way to operate the device.

As well as **tapping** options on the screen, in certain cases it is also possible to **drag**, for example in the Photo Viewer it is possible to drag a photo when it does not fit on the screen.

Using the hard keys

Volume dial - Rotate right or left to increase or decrease the volume.

Main menu screen

After going through the initial screen calibration, you will see the Main Menu screen. This is the screen that you will generally come back to each time you exit other functions.



At the top of the Main Menu screen, you will see the speaker volume, time/date and battery icon.

- To adjust the volume, use the volume dial on the right-hand side of the device.
- To adjust the time/date, see “Setting the Time/Date” on page 30.
- For more information on the battery icon, see “Charging the Device” on page 14.

There are also four program icons on the Main Menu panel.



Navigator. Refer to the Navigation software documentation for more information on how to use the device in navigation mode.



MP3. See "MP3 Player" on page 22 for more information.



Photo. See "Photo Viewer" on page 26 for more information.



Setup. See "Settings" on page 29 for more information.

Navigation

Accessing the Navigation Function

Switch the unit on and tap **Navigator** in the Main Menu screen.



After the application loads, the main Navigator menu will appear.

For more information regarding the Navigator function please see the Navigator software's documentation.

MP3 Player

This chapter describes how to use the MP3 player included on this device.


Accessing the MP3 Player


Switch the unit on and tap **MP3** in the Main Menu screen.



The MP3 screen will now appear in the display:

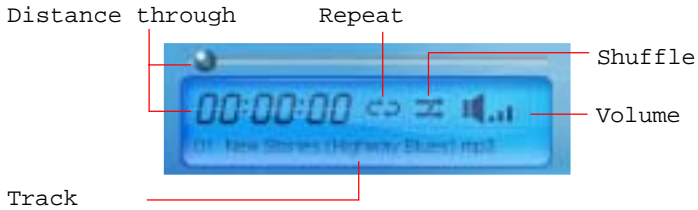


 **NOTE:** Music must be loaded to the SD memory card from your computer. See "Connecting to a Computer" on page 13 for more information.

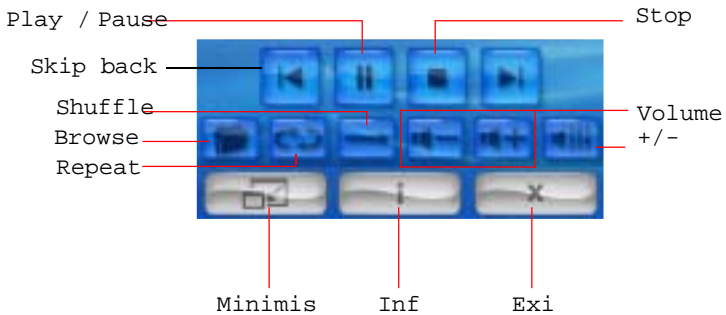
 **NOTE:** The following file formats can be played on the MP3 Player: MP3, WMA, WAV.

MP3 Player Screen Definitions

Display





Buttons




Using the Player


Playing music

To play or pause music, tap the **Play/Pause** button  .


To skip to the next track, tap the **Skip forward** button  .

To go to the beginning of the current track or skip back to the previous track, tap the **Skip back** button  .


Adjusting the volume

To adjust the volume, press the **Volume +/-** buttons  . Alternatively, you can use the volume dial on the side of the device.


Changing the order of tracks

To choose between playing tracks in random or sequential order, tap the **Shuffle** button  . The current order is indicated in the top right-hand side of the screen (Play mode).




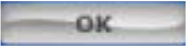
Repeating tracks

To choose between repeating tracks or not, tap the **Repeat** button  . The current mode is indicated in the top right-hand side of the screen.

Creating a playlist

Tap the **Browse** button . The following screen will now appear in the display



- ✔ **NOTE:** By default, all music tracks on the SD/MMC card are added to the playlist.
- ✔ **NOTE:** To change which track is highlighted, tap the up/down arrow keys or tap the track on the touch screen.
- To remove ALL tracks from the play list, press the **Remove all tracks** button . You will be asked to confirm this operation.
- To remove only the currently highlighted track, press the **Remove track** button .
- To add tracks, press the **Add track** button , then navigate to the track(s) you would like to add.
- When you have finished editing the playlist tap .

✔ **NOTE:** For more information, tap .

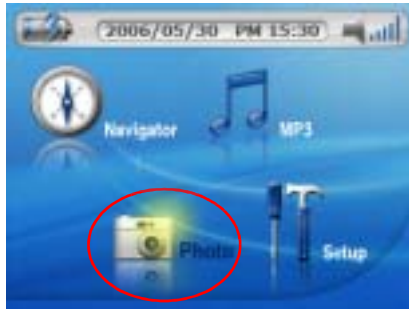
✔ **NOTE:** To exit the mp3 player, tap .

Photo Viewer

This chapter describes how to access and use the photo viewer.


Accessing the Photo Viewer

Switch the unit on and tap **Photo** in the Main Menu screen.



The Photo Viewer screen will now appear in the display:



 **NOTE:** Unrecognised files or folders will be appear with question marks (?).

Using the Photo Viewer

You can view either individual photos or slideshows on your device.

Viewing photos

If you cannot immediately see the photo thumbnails you are looking for, but see folders, then you can tap these to access their contents.

You can also tap **Scroll up**  or **Scroll down**  to search up or down the list of folders or photos.



NOTE: To move up one level while browsing for photos, tap



Once you tap on a thumbnail, you will see a screen similar to the following:



You will see several options at the bottom of the screen, which are defined as follows:



- Zoom in (You can also use the zoom in key)



- Zoom out (You can also use the zoom out key)



- View photo at default rotation



- View photo at 90° (clockwise) rotation



- View photo at 90° (anticlockwise) rotation



- View previous photo




- View next photo



- Exit screen

Using the slideshow

From the Photo Viewer screen, press the **Slideshow** button . The slideshow will start.

To stop the slideshow, click anywhere on the screen.



NOTE: Photos must be loaded to the SD memory card from your computer. See “Connecting to a Computer” on page 13 for more information.



NOTE: The following file formats can be viewed on your device: BMP, GIF (Still images), JPEG, PNG.




NOTE: When not all of the photo is viewable (due to using the zoom function), you can drag the photo by tapping anywhere on the photo and moving it in any direction.



NOTE: For more information, tap .



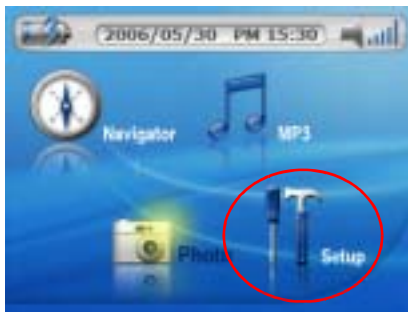
NOTE: To exit the photo viewer, tap .

Settings

Accessing the Setup Screen

To access the settings features on your device:

Switch the unit on and tap **Setup** in the Main Menu screen.



The Setup screen will now appear in the display:



From this screen you can access:

Audio Setting – Adjust the volume and set up the FM transmitter

Screen Setting – Calibrate touch screen and adjust brightness and idle time.

Time/Date – Set the time/date

Language – Select the default language

System Info – View system information

Adjusting the Settings

Setting the Time/Date

Choose **Time/Date** from the Setup screen.



The Time/Date screen will now appear in the display:



Changing the Time Zone



Tap

Tap on a region .



Tap on a city .



Tap





Changing the Time/Date





Tap

The following screen will appear: .



To change the Time, tap one of the time fields, then use  and  to adjust.

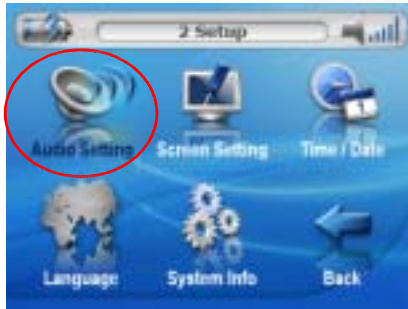
To change the Date, tap one of the date fields, then use  and  to adjust.

When you have finished adjusting the time/date, tap





Volume

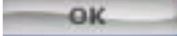
Choose **Audio Setting** from the Setup screen.



The Audio Setting screen will now appear in the display.



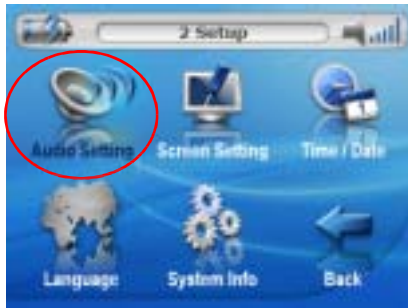
Tap  or  to adjust the volume.

When you have finished adjusting the volume, tap .

FM Transmitter

The FM transmitter can be used to transmit audio as a radio signal that can be picked up on your car radio.

Choose **Audio Setting** from the Setup screen.



The Audio Setting screen will now appear in the display.



Tap **FM Transmitter** to access the FM transmitter screen.

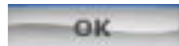


You can specify two channels to transmit the audio to your radio. That way if one channel experiences interferences, you can change to the other channel.

To choose which channel to adjust, tap **CH1** or **CH2**, then tap **▲** or **▼** to adjust the frequency for that channel.

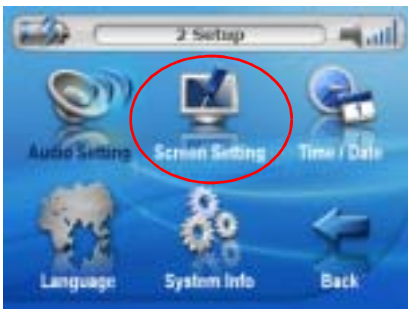
To activate the FM transmitter, check the **Enable FM Transmitter** check box.

When you have finished adjusting the FM transmitter, tap **OK**. Now simply tune your car radio into the same frequency.



Screen options



Choose **Screen Setting** from the Setup screen.



The Screen setting screen will now appear in the display:



Adjusting the Brightness

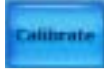
Tap  or  to adjust the backlight brightness.

Adjusting the Idle Time

To adjust the idle time (the time the device will wait before going to sleep if not being used), tap the right or left arrows.

Calibrating the Screen

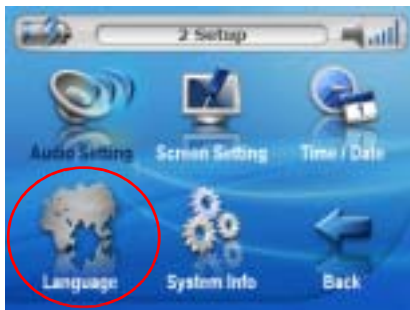
To calibrate the screen, tap



Now follow the instructions to calibrate the screen.




Choosing the Language

Choose **Language** from the Setup screen.

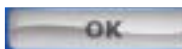


The Language screen will now appear in the display:



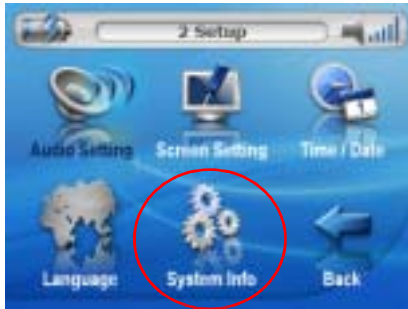
 **NOTE:** If you cannot immediately see the language you are looking for, you can **Scroll up**  or **Scroll down**  to search up or down the list of languages.

Tap the language you want to use, then tap



System Information

Choose **System Info** from the Setup screen.



The System Info screen will now appear in the display:



Here you can see information about your device.

Tap  to exit this screen.

Resetting the Device

If your device ever stops responding to your commands, you may need to reset it. There are two reset options: a soft reset and a hard reset. Always try the soft reset first, as this simply restarts the device and clears the memory.

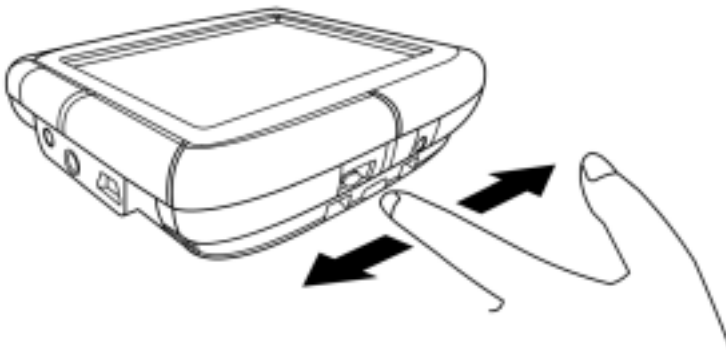
Performing a soft reset

Use a pen or similar object to press the soft reset button at the bottom of your device.



Performing a hard reset

If a soft reset does not correct the problem, perform a hard reset. A hard reset will delete settings and reset the GPS. To perform a hard reset, move the hardware reset switch to the right and then back to the left.



Regulation & Safety & notices.

1. FCC Notices

Federal Communication Commission Interference Statement

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 residential 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.R&TTE Notices

Warning statement for Europe

Also, put in the manual which directive to fulfil and also which countries to sell the product.
Example of a text to tell which directive has been fulfilled:

Hereby, [Name of manufacturer], declares that this [type of equipment] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC."

3.Caution

Caution:

1. risk of explosion if battery is replaced by an incorrect type.
2. Dispose of used batteries according to the instruction.



Troubleshooting Guide

Problem	Possible Reason	Solution
Device will not switch on.	Hardware reset switch is in the wrong position.	Make sure the hardware reset switch has not been moved to the OFF position. If it has, move it back to the ON position..
	Battery is flat.	Make sure that the battery is properly charged. See "Charging the Device" on page 14 for more information.
Bad reception.	Folding antenna is in closed or wrong position.	Unfold the folding antenna and make sure that it is parallel with the ground, i.e. in a horizontal position..
	Car windows are tinted, blocking GPS reception.	Use an external antenna.
	Signal is weak in this area.	Use an external antenna.
New Memory Card doesn't work.	Card has not yet been formatted correctly.	Format card using FAT file system
Screen is frozen, or device is behaving strangely	Device is in need of a reset.	Perform a soft reset, or if necessary a hard reset. See "Resetting the Device" on page 40 for more information.
I have a problem with the navigator software.		For all Navigator related questions, please refer to the specific Navigator software manual.
I cannot play music on the device.	Music may be the wrong format	Make sure that all music is MP3, WMA, or WAV format.
	Music track(s) may be corrupt.	Make sure that the track plays correctly on your computer.
My music appears to be playing, but I cannot hear it.	Volume is set too low.	Increase the volume.

Troubleshooting Guide

	Music track(s) may be corrupt.	Make sure that the track plays correctly on your computer.
	When earphones are plugged in, the speakers are automatically muted.	Listen through the earphones, or disconnect them to hear sound from the speakers.
I cannot see my photos.	Images may be the wrong format.	Make sure that your images are jpg or bmp format.
	Image file(s) may be corrupt.	Make sure that the image can be viewed correctly on your computer.
The touch screen does not react correctly to finger taps.	The touch screen may need to be re-calibrated	Re-calibrate the screen. See "Calibrating the Screen" on page 37 for more information.