

axion Geo

GEO-632 Portable / Personal Navigation System

Product User Manual



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Registered info:

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Note:

- The contents of this manual may be modified without further notice.
- The product's operating temperature is between 0°C and 40°C; please do not operate under extreme temperatures.

Safety Precautions

Use the power adapter included with the package -- using power adapters other than the one provided will result in malfunction and could prove dangerous.

The device should only be used with the supplied batteries.

About the power adapter:

1. Do not use the power adapter in a wet environment. When hands or feet are wet, do not touch the power adapter.
2. While using the power adaptor ensure that the area is well ventilated. Do not let paper or other material cover the power adaptor, as this will interfere with cooling. Do not use the power adaptor whilst it is in a bag.

Do not attempt to repair the device. If device is damaged or has been exposed to a wet environment, replace the device immediately.

About the battery:

1. Use only the original factory-approved charger.
2. A Lithium battery is built in to the device. To prevent fire or skin burns, do not disassemble, pierce, strike, or expose the battery to fire. The battery will crack, explode or release dangerous chemicals if placed in a fire.

Note:

1. Replacing with an incorrect battery may result in an explosion. When disposing of the battery, follow the instructions. The replacement battery must be factory-approved.
2. Regulations must be observed when recycling or disposing of batteries.
3. The battery should only be used in this device.

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Package Contents

Your product should include the following accessories:



Geo 632 Unit



In-Vehicle Bracket



Bracket fixing



Car Adapter



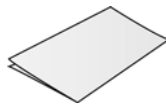
Home / Travel
Adapter



SD Memory Card



DVD-ROM



Quick Guide

Preface

Please read all instructions thoroughly for a full understanding of the product's features.

Symbols

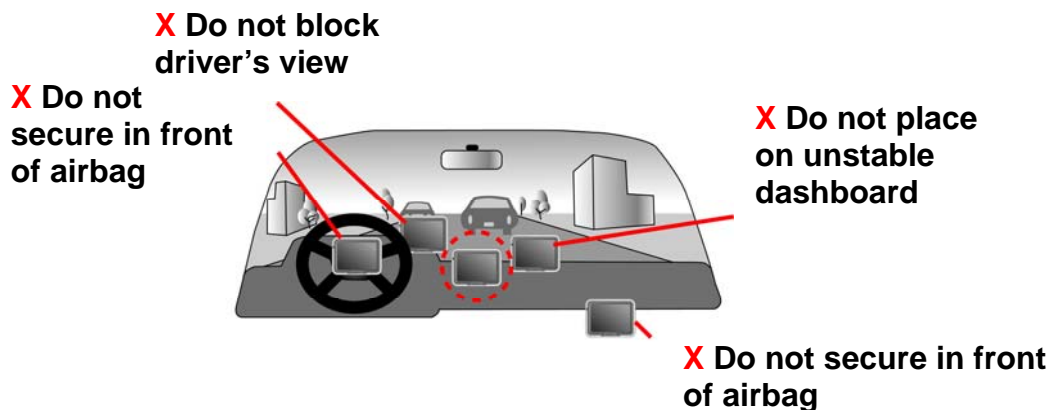
For fast reference to the data you wish to find, this manual uses the following symbols.

- ✓ This icon means to take note of messages and to read for a while during use.
- 💡 This icon is a warning and means care should be taken not to damage the unit.
- 👉 This icon points to useful tips for extra information during use.

Important Notice

- This system only provides a navigational reference. Do not use this system for any directional, distance, or geographic purpose etc. requiring precise measurements.
- The first GPS positioning should be performed at a single set point, in a wide-open area without nearby buildings. Positioning time length will depend on the satellite signal strength and cloud levels, possibly taking up to 10 minutes.
- GPS (Global Positioning System) is the satellite system used by the United States of America Department of Defense. All maintenance and operations are also managed by the United States of America Department of Defense. Should the system be modified and adjusted, the precision and operation of GPS related systems might be affected.
- Any wireless communication products (mobile phone, radio, speed detection unit etc.) might affect the GPS signal, resulting in a poor signal.

- For safety reasons, do not operate this system while driving a vehicle.
- Do not leave this unit under your front windscreen when you leave the vehicle. Exposure to high temperatures might be dangerous and cause overheating of the battery, resulting in malfunctioning of the device.
- Window tinting might interfere with the reception of satellite signals. We recommend you install a vehicle antenna to strengthen and stabilize the signal.
- The planned navigational route is for reference only; changes in roadside conditions and directions (one-way streets, no right turns) may happen, so please respond accordingly to the situation and decide whether or not to follow the planned course.
- When placing this system in the vehicle, please secure with brackets on the car to ensure safety. The recommended installation location is illustrated below.



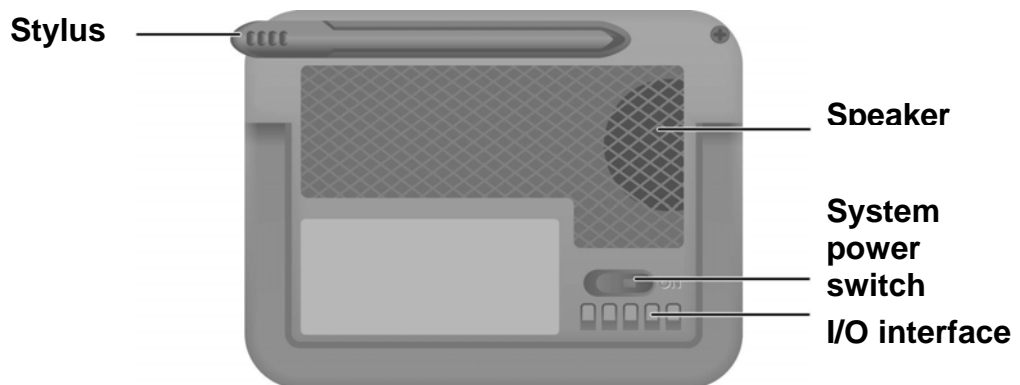
- Differences between manufactured and shipped versions may occur; this software may be updated frequently. If the descriptions in this manual are different from your software version, please follow the software version currently on hand.
- If the correct procedures are not followed for operation or incompatible accessories are connected, this violates the warranty agreement and will automatically void the warranty and even cause personal safety risks.

Introduction

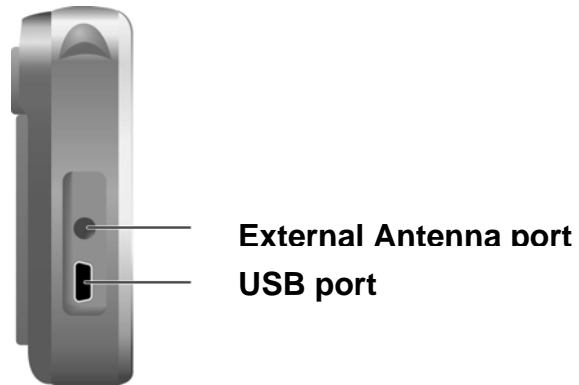
Front View



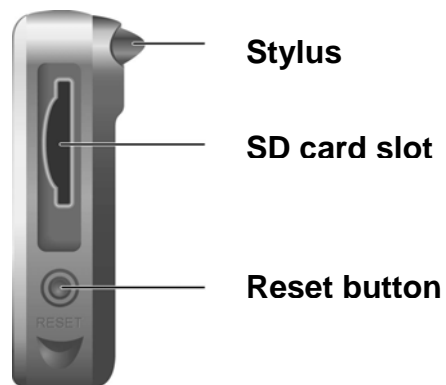
Rear View



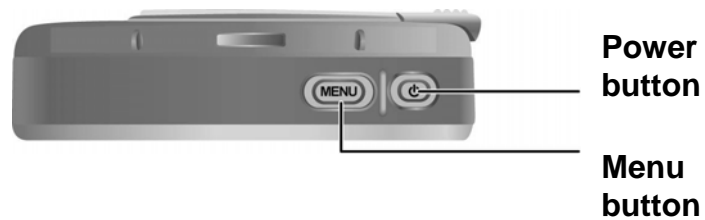
Left Side



Right Side



Top View

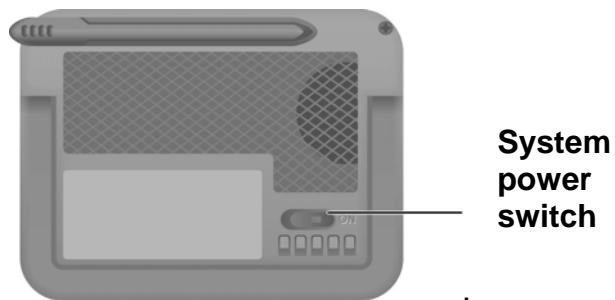


Note: The **Menu** button is only functional during GPS navigation.

First occasion of use

Startup

1. On the first occasion of use, please turn the system power switch at the rear side **On**



2. Press and hold the power button for about two seconds to turn on the power.

Shutdown

1. While power is on, press the power button to turn off power.
2. If the unit will not be used for a long time, turn the system power switch at the rear **Off**.

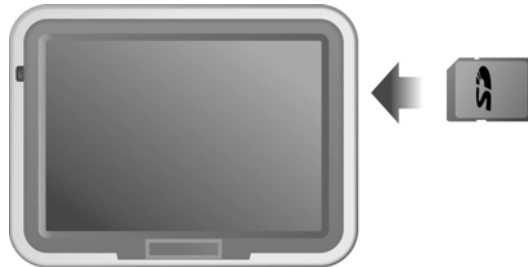


SD memory card installation

This unit is equipped with a SD memory card slot; you can purchase SD (Secure Digital) Cards to expand the memory capacity.

To insert the memory card:

With the metal contacts of the memory card facing outwards, insert the card into the slot on the right side of the unit.



To remove the memory card:

1. Gently press the top of the memory card, and the card will eject automatically.
2. Then pull to remove the memory card.

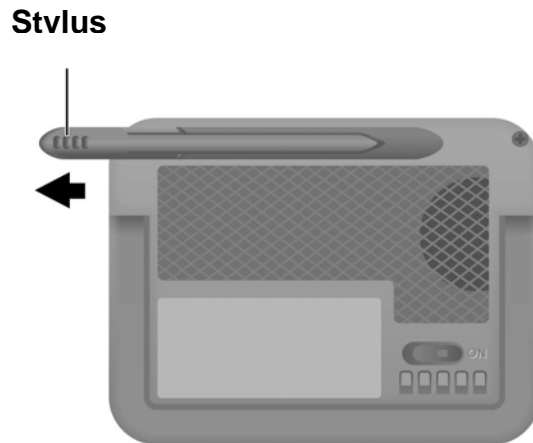
Note:

- ✓ The included memory card contains the digital map files that are required for the GPS navigational data. Please do not delete.
- ✓ When removing the memory card, please make sure the card is not reading data, or it will cause a system crash.
- ✓ Do not set the SD memory card as write-protected, or the system will not operate properly.

- * **When operating, accidental removal of the memory card will result in the display of an error message. Please reinsert the memory card; and the system may need to be reset before further use.**

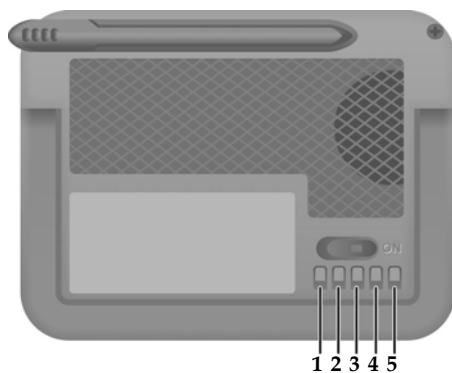
Using the stylus

This unit can be controlled easily through the touch screen. The stylus is an assisting tool for operating this unit and is concealed in a pen slot at the rear. Pull out to use.



I/O interface

The I/O interface has five pins, and each pin's function is described as below.



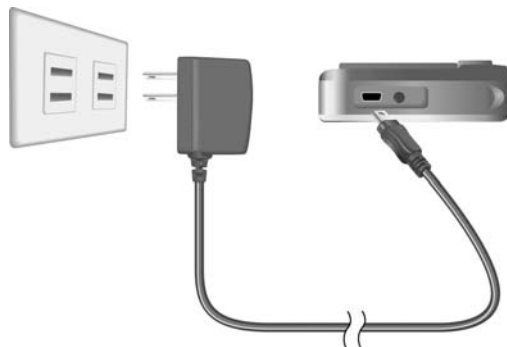
Pin	Function
1	VCCIN (DC 5.4 ± 0.2 1A)
2	Reserve
3	Reserve
4	GND
5	Reserve

Charging

Using Home / Travel adapter:

Before using the device for the first time, we strongly suggest you use a fully charged battery.

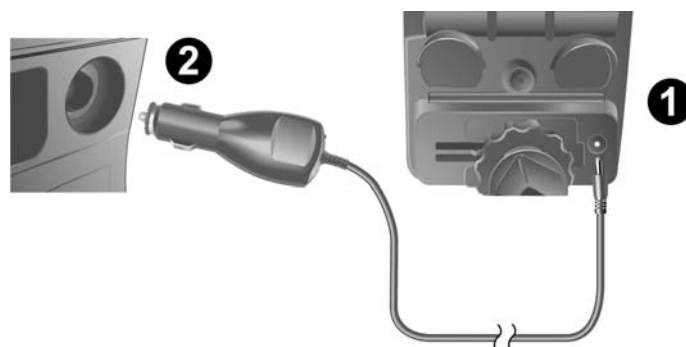
1. Insert the USB connector into the unit.
2. Plug the adapter into a power outlet.



Using the car charger:

While using the device in a vehicle, use the included car charger for long periods of usage.

1. Plug in the small plug into the power jack on the rear of the in vehicle bracket.
2. Insert the other end into the vehicle's cigarette lighter.



- ✓ This device uses a built-in rechargeable battery. Please note the following:
- Please do not charge in a hot environment, such as on a balcony or otherwise exposed to direct sunlight.
 - Do not wait until the battery is depleted before recharging.
 - When not using the unit for a long time, please turn off the system switch.
 - When charging a completely depleted battery, wait at least one minute before system startup. This will prevent excessive battery discharge.
 - When charging starts, the charging indicator light will be red. Please wait for the charging to be complete (this may take several hours). After charging is completed, the indicator light will be green.



Using the In-Vehicle Bracket

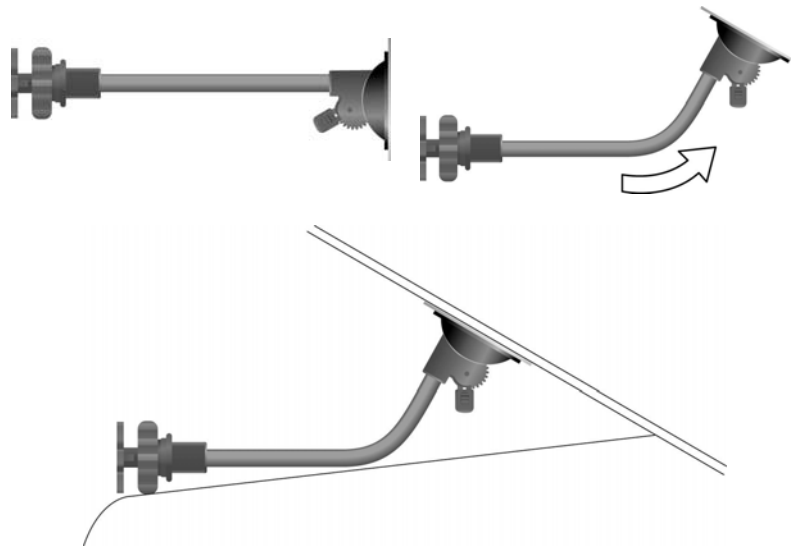
The included in-vehicle bracket set can be securely suctioned on to the front windshield, or using the adhesive plate, secured on the top of the glove compartment. This device will effectively secure the GPS unit in the vehicle. Follow the procedures below to secure the bracket:

1. Follow the arrows and fix the unit into the in-vehicle bracket fitting holes to secure.
2. Gently push in the unit until the unit is tightly fixed in the bracket.



Note: Please note the directions of the arrows, when fitted the assembly should be tight. If these directions are not followed, a loose fit will result, and the components must then be reassembled.

3. Bend the bracket support to a suitable angle. Suction the vehicle bracket securely to the windshield, ensuring its base is resting firmly on the dashboard.



4. Follow the directions to insert the bracket into the slots on the bracket, and slide to fix the setting (**A → B**).



5. The in-vehicle bracket assembly is now complete.
- ✓ When using the in-vehicle secure bracket, do not install in a location that will block the view of the driver
 - ✓ **Recommended installation requirements:**

The bracket base should be resting securely on the dashboard to prevent excessive shock.

Operating Methods

Using Functions

During the first startup, the screen will show a main screen consisting of four functions: **GPS**, **music**, **photo**, and **settings**. Directly select the icon onscreen to use the function.



GPS Loads the navigation program and navigation screen

Note:

If the SD card with navigator software is inserted, the system will enter the GPS function automatically after startup.

Music Plays MP3 music

Photo Plays images

Setting Function adjustments and operation instructions

Function Menu

The function menu is the main function window other than the navigation screen and includes system settings, navigation settings, schedule plans, GPS status, MP3, image browsing.

Entering the Operation Menu

Under the navigation screen, press the **Menu** button to enter the operational menu.



**Menu
button**

Setting

The setting function gives you the ability to adjust the basic system options, including time settings, volume control, screen calibration, startup message, backlight setting, version info, and GPS reset etc. You can modify the settings according to personal preferences.

System Settings

Time




1. After system startup, select **[Setting]** from the main screen to go into the System Settings window.



2. Select from the **Hour** pull-down menu and choose the correct value.

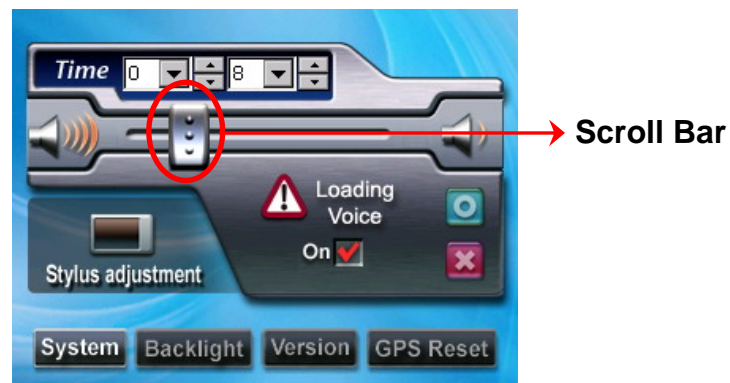


3. Select from the **Minute** pull-down menu and choose the correct value.

4. Select  to confirm, or select  to keep original settings.
5. Select  to return to main menu screen.

Volume

1. Under the settings window, control the volume directly using the **scroll bar**. There are altogether six levels of volume.



Startup Message

In the settings window, select the **Warning Voice** On or Off for whether the startup message is to be broadcast.



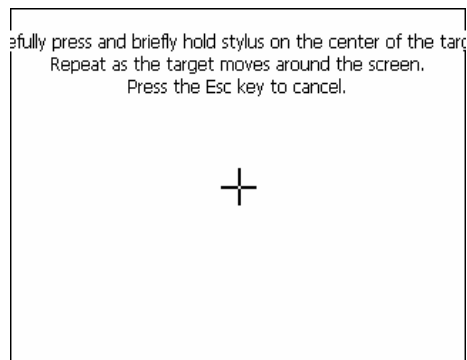
Stylus Adjustment


Control of the unit is accomplished primarily through the stylus by touching/writing on the screen. If the system cannot correctly identify your stylus' input, please run through the following screen calibration procedure.

1. From the settings window, select [Stylus Adjustment] to start the screen calibration procedure.



2. Use the stylus and touch the cross at the center of the screen once.

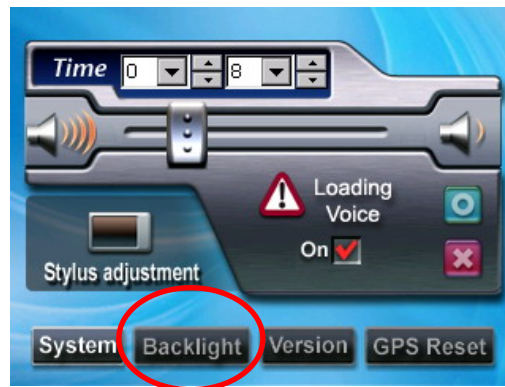


3. Touch the cross in the second position once.
4. Touch the cross in the third position once.
5. Continue the calibration by touching the cross in the positions that follow.
6. To finish the calibration procedure, touch the screen.
7. Select  to go back to the main menu screen.

Backlight Settings




The backlight settings will adjust the brightness of the backlight and the auto-off time.

1. In the settings window, select **Backlight** to enter the backlight settings window.



2. Select the time to turn off backlight when running off the battery / external power (1 min, 3 min, 5 min, 10 min, 30 min, Always On).



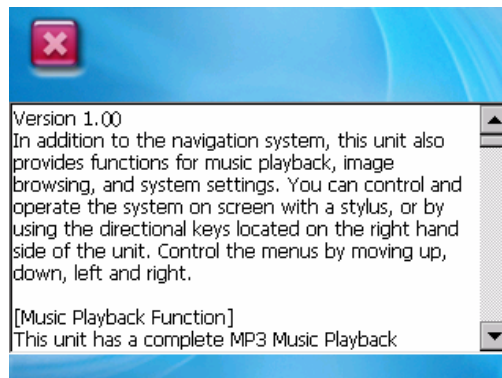
3. Scroll the brightness bar to control backlight brightness. There are altogether six levels.
4. Select  to confirm or select  to keep the original settings.
5. Select  to return to main menu screen.


Version

1. Under the settings window, select **Version** to enter the Version window.



2. The screen display will show Version information and instructions for operation of music playback and image browsing functions.



3. Select  to exit the Version screen.

Music Playback Function

This unit has an MP3 Music Playback function that is capable of playing back MP3 files stored on SD memory cards.

Storing MP3 files on to SD memory cards

On your computer, you must first convert the music from an audio CD into MP3 files, then save them on to the SD memory card.

All the files need to be stored under the **MP3** directory, and the file format needs to be "*.mp3".

Starting music playback

1. Insert the SD memory card with stored MP3 files into the SD memory card slot on the unit.
2. Power on, and select the **[Music]** icon on the main menu.



3. The Music Playback Window. Use the buttons to control each playback function.



- | | | | |
|---|-------------------|----|-----------------------|
| 1 | Play | 8 | Volume up |
| 2 | Next | 9 | Volume down |
| 3 | Stop | 10 | Repeat mode indicator |
| 4 | Previous | 11 | Progress Bar |
| 5 | Repeat mode | 12 | Volume display |
| 6 | Battery indicator | 13 | Exit |
| 7 | Timer | | |

Image Browsing Function

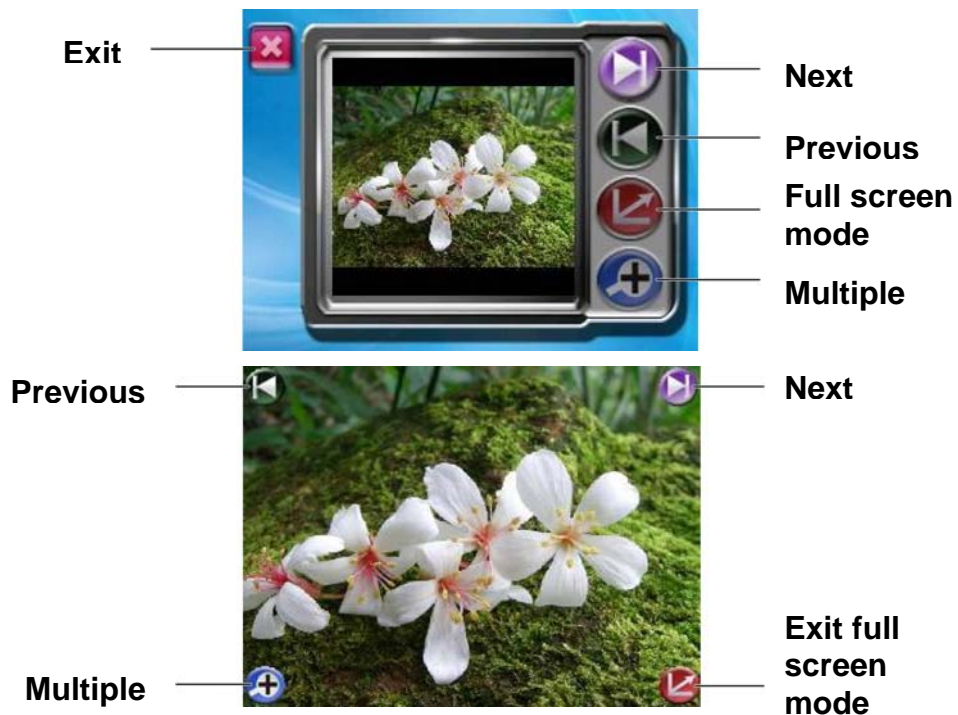
1. The system has an Image Browsing function that is capable of displaying images/photographs stored on SD memory cards.

All the files need to be stored under the **Image** directory, and the file format needs to be “*.jpg”.

2. Insert the SD memory card with stored image files into the SD memory card slot on the unit.
3. Power on, and select [Photo] icon from the Main Menu.



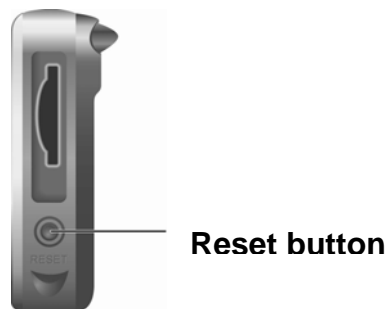
4. The Image Browsing Window.



System reset

Only under extremely few circumstances will it be necessary to reboot the system. Reset your system if the following situations occur:

1. Serious time lag experienced with screen-refresh or other operations, resulting in an inoperable system.
2. Cannot turn off the system with power button.
3. No response to selection on the screen.
 - Press the reset button on the right side of the unit.



- The system will immediately reset.
- You will now see the main screen and the system is ready for use.



Quick Troubleshooting

Power	Cannot startup	Insufficient battery charge. Please connect to the adapter and restart the system.
Screen	No screen displayed	After powering up, if the system does not respond, try the following: 1. Connect adapter, restart system. 2. Reset system.
	Display speed is too slow	1. Check if the battery is low on power. 2. Reset system.
	Screen has no response	Reset system.
Navigation	GPS cannot display my current location	Make sure your current location is not obstructed by buildings or other interferences.

Recover the Digital Map

Once the SD memory card gets lost or the digital map gets damaged, you can follow these steps to recover the digital map.

1. Prepare a SD memory card with at least 1.5GB capacity.
2. Insert the Map Recovery DVD into your computer.
3. Open the directory Map Recovery in DVD.
4. Copy all directories and files in Map Recovery to the SD memory card.

Normal Care and Maintenance

To ensure the unit's normal operation and an extended life span, please note the following while using and storing:

Keep dry

This product is not waterproof. If it comes into contact with water spray or is submerged, its components will be seriously affected, resulting in irreversible damage.

Do not drop the unit

If there is any violent impact or shock, serious damage may be caused.

Avoid sudden temperature changes

Condensation may occur when entering a warm room on a cold day. To prevent condensation from damaging the unit, please place the unit into an airtight plastic bag before sudden temperature changes.

Keep away from strong magnetic fields

When using or storing, please keep away from strong electromagnetic/radioactive or magnetic field equipment.

Operating temperature

The products operating temperature is between 0°C ~ 40°C; please do not operate under extreme temperatures.

Avoid exposure to sunlight

Please avoid long periods of sunlight or exposure to high temperature.

Using the stylus

The LCD screen is easily scratched; please use only the stylus for operation. Do not use any other sharp objects on the screen to avoid damaging the LCD screen.

Cleaning the screen

Using a soft clean cloth to wipe the screen is recommended; do not use ordinary tissues to wipe the screen.

Do not disassemble

Please do not disassemble the product, this may void the warranty and damage the unit.

Storage

When the product is not being used for a long period, please remove the battery and store in a cool and dry place. For long-term storage, keeping the unit in a dry box is recommended.

Please do not keep the product in the following environments:

1. Unventilated and humid locations.
2. In a car window that is exposed to excessive amounts of sunlight.
3. In an environment where humidity is over 90%.

Appendix

Specifications

Integrated GPS Receiver	20 parallel channels
Acquisition Time	Re-acquisition: 0.1 sec. Hot start: 1 sec. Warm start: 35 sec. Cold start : 42 sec.
Accuracy	Position: 10 m. for 90% Velocity: 0.1 m/s
GPS antenna	Built-in patch antenna
Processor	Centrality Atlas Processor at 200 MHz.
Operating System	Microsoft Windows CE. Net 4.2 Core Version
Memory	32 MB NAND flash memory and 64MB SDRAM memory for operating system and embedded applications
Weight	< 180 g
Size	95.5 (L) x 77 (W) x 22 (H) mm
Car Holder / Charger	Input voltage: 11V. ~ 28V. Output voltage: 5.5V. \pm 0.3V.
Battery	Rechargeable 2600 mAh. Polymer Li-ion Battery life: 8 ~ 10 hrs.
Extension Slot	SD card slot, over 1 GB.
Display	3.5" high-brightness & contrast ratio transfective TFT LCD (16.7 M colors) with touch screen. 320 x 240 resolution
LED	Red/Green LED for battery charging status
Audio	Built-in speaker. Software volume control.
Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 70°C
Mini-USB Connector	DC power