

**Handheld GPS Navigator**  
**Russell Series**  
**User Manual**

Revision: R00  
(12/2010)

**Trademarks**

All brand and product names are trademarks or registered trademarks of their respective companies.

**Disclaimer**

Specifications and documents are subject to change without notice.

**Notes**

Not all models are available in all regions.

Depending upon the specific model purchased, the colour and look of your device and accessories may not exactly match the graphics shown in this document.

The screenshots and other presentations shown in this document are for reference only. They may differ from the actual screens and presentations generated by the actual product.

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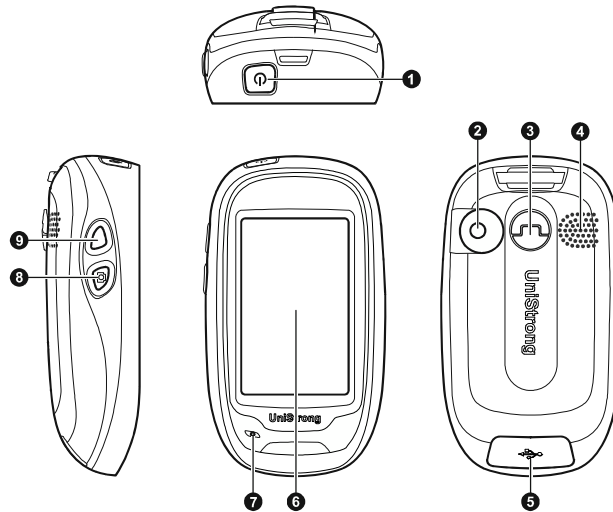
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# 1 Getting started

## 1.1 Getting to know your device

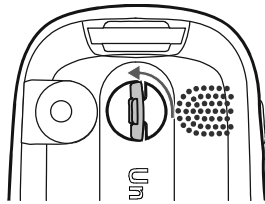


	Name	Description
❶	Power button	Turns your device on and off.
❷	Camera lens	Takes aim at the subjects for pictures.
❸	Battery door lock	Loosens and secures the battery door.
❹	Speaker	Sends out sounds.
❺	Mini-USB connector	Connects to the USB cable. <b>Note:</b> Please make sure to close the protection cover firmly when not using the connector to prevent water or dirt from entering the connector.
❻	Touch screen	Displays the output of your device. Tap the screen with your fingertip to select menu commands or enter information.
❼	Microphone	Receives sound and voice.
❽	Camera button	Takes pictures.
❾	Function button	You can customise the function of this button.

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## 1.2 Opening the battery door

1. Raise the arm, and turn the battery door lock 90 degrees counter clockwise.
2. Lift the top of the battery door until the pivot point at the bottom releases, allowing the cover to become free from the device.



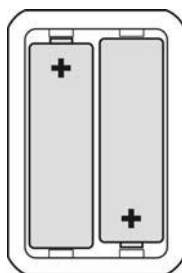
When reinstalling the battery door, make sure to first insert the hinge point at the base of the cover and then close the top of the cover. When the cover is connected closely to the device, turn the battery door lock 90 degrees clockwise to secure it.

## 1.3 Installing the batteries

**CAUTION:**

- Do not heat, open, puncture, mutilate, or dispose of batteries in fire.
- Use only the correct type of battery.
- When not using the battery for a long period (more than one month), remove the batteries to prevent damage from battery corrosion.
- In case the battery leaks, clean the liquid and install a new battery.
- Check the regulations of your local government for proper battery disposal.

1. Open the battery door (See the previous “Opening the battery door“ for information.)
2. Place two “AA” batteries in the battery compartment. A diagram in the interior of the battery compartment shows the orientation of the batteries.
3. Replace and secure the battery door. (See the previous “Opening the battery door“ for information.)



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## 1.4 Using a memory card

Note: The product's compatibilities with MicroSD cards from all manufacturers are not guaranteed.

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CAUTION: Do not apply pressure to the centre of the memory card.

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1. Open the battery door (See the previous "Opening the battery door" for information.)
2. Remove the batteries (if installed).
3. Slide the silver retaining plate towards the top of the device, and then lift the retaining plate up with your fingernail.
4. Insert a MicroSD card with the contacts down, pointing towards the top.  
To remove a card, gently push the top edge of the card inwards to release it, and pull it out of the slot.
5. Close the retaining plate and slide towards the bottom of the device, locking the card in place.
6. Reinstall the batteries. (See the previous "Installing the batteries" for information.)
7. Replace and secure the battery door. (See the previous "Opening the battery door" for information.)
8. Hold the MicroSD card by the edges and gently insert it into the slot with the label facing the back of your device.

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## 2 Getting to know the basics

### 2.1 Turning on and off

- To turn on the device, press the power button for 1 second.
- To turn off the device, press and hold the power button for 3 seconds.
- To reset the device, press and hold the power button for 10 seconds.

### 2.2 Navigating on the screen

To operate your device, touch the screen with your fingertip. You can perform the following actions:

- **Tap**  
Touch the screen once with your fingertip to open items or select on-screen buttons or options.
- **Drag**  
Hold your fingertip on the screen and drag up/down/left/right or across the screen. (This is not supported by all applications.)

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## **3 Bluetooth connectivity**

Note: Bluetooth connectivity is not available on Russell 500.

If you have a mobile phone with Bluetooth wireless technology, you can use your device as a hands-free car kit or to provide an internet connection. It can also be used to connect to a Bluetooth mono/stereo earphone to output audio. Models with Bluetooth capabilities can exchange information over a distance of about 10 meters (30 feet) without requiring a physical connection.

Before you can use this feature you must pair your mobile phone with your device. Ensure that the Bluetooth wireless feature of your mobile phone is turned on before you begin pairing. When you search for or connect to a mobile phone/ headset, the Bluetooth on your device will be turned on automatically. To save power, Bluetooth is set to OFF by default.

Note: Not all phones with Bluetooth wireless technology are compatible with your device.



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## 4 Navigation

### 4.1 About GPS

The GPS (Global Positioning System) navigation is made possible by a network of satellites. Each satellite transmits a range of signals which are utilized by GPS receivers to determine an exact location. A minimum of 4 GPS satellite signals are typically required to provide a position or “GPS fix” (latitude and longitude) for vehicle navigation systems.

GPS signals are available at any time, free of charge.

### 4.2 Precautions and notices

- For your own safety, do not operate the controls of the product while driving.
- Use this product prudently. The product is intended for use solely as a navigation aid. It is not for precise measurement of direction, distance, location or topography.
- The calculated route is for reference only. It is the user's responsibility to follow the traffic signs and local regulations along the roads.
- When you get out of the car, do not leave your device on the dashboard subjected to direct sunlight. Overheating of the battery can cause malfunction and/or danger.
- GPS is operated by the United States government, which is solely responsible for the performance of GPS. Any change to the GPS system can affect the accuracy of all GPS equipments.
- GPS satellite signals cannot pass through solid materials (except glass). When you are inside a tunnel or building, GPS positioning is not available.
- A minimum of 4 GPS satellite signals is needed to determine current GPS position. Signal reception can be affected by situations such as bad weather or dense overhead obstacles (e.g. trees and tall buildings).
- Other wireless devices in the vehicle might interfere with the reception of satellite signals and cause the reception to be unstable.
- A car holder is needed when using the device in a car. Be sure that you place the device in an appropriate place, so as not to obstruct the driver's view, or deployment of airbags.

### 4.3 Starting the GPS Position

When the map is loaded, GPS positioning automatically starts. The first time you use your device, it may take up to several minutes to establish a GPS connection. To guarantee the optimum GPS signal strength, make sure that your device is placed outdoors, or in a vehicle outdoors, and the device has an unobstructed view of the sky.

Once the system has a fix on your position, you will see on the screen a yellow arrow in a circle indicating your current position.

For the detailed information on the navigation software, please refer to the other manual.

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## 5 Reference

### 5.1 Troubleshooting

Note: If you encounter a problem you cannot solve, contact an authorised service centre for assistance.

Problem	Solution
Power does not switch on when using battery power.	The remaining battery power may be too low to run your device. Change the batteries.
Screen responds slowly.	Make sure that your device is not running out of battery power. If the problem still persists, reset your device.
Screen freezes.	Reset your device.
Screen is hard to read.	Make sure that the backlight of the display is set to a high-enough brightness.
Cannot establish a connection with a computer.	Make sure that your device and your computer are both switched on before trying to establish a connection.
	Make sure that the cable is securely plugged into the USB port on your computer and on your device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.
	Reset your device before connecting the cable. Always disconnect your device before you restart your computer.

### 5.2 Caring for your device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.
- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
- Keep your device and its accessories out of the reach of small children or animals.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

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- To discourage theft, do not leave the device and accessories in plain view in an unattended vehicle.
  - Do not leave the device and its accessories in a vehicle in direct sunlight. Overheating may damage the device.

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## 6 Regulatory information

### 6.1 Regulations statements

#### Federal Communications Commission (FCC) 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.

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.

**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.

#### IMPORTANT NOTE:

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

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

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

#### European notice



Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EC), the Electromagnetic Compatibility Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC) - issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Standards:

**EN 301 489-1:** Electronic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

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**EN 301 489-17:** Electronic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.

**EN 55022:** Radio disturbance characteristics

**EN 55024:** Immunity characteristics

**EN 61000-3-2:** Limits for harmonic current emissions

**EN 61000-3-3:** Limitation of voltage fluctuation and flicker in low-voltage supply system

**IEC 60950-1:2005):** Safety of INFORMATION TECHNOLOGY EQUIPMENT

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

#### **Declaration of conformity**

Hereby, the manufacturer declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



This product must not be disposed of as normal household waste, in accordance with the EU directive for waste electrical and electronic equipment (WEEE – 2002/96/EC). Instead, it should be disposed of by returning it to the point of sale, or to a municipal recycling collection point.

## **6.2 Safety precautions**

- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void the warranty.

### **About charging**

- Use only the charger supplied with your device. Use of another type of charger will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with “LPS”, “Limited Power Source” and output rated + 5 V dc / 1.0 A”.
- Use a specified battery in the equipment.

### **About the charger**

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

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### About the battery

- Use the specified battery type in the equipment.
- **CAUTION:** The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.
- Important instructions (for service personnel only)
  - **Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
  - Replace only with the same or equivalent type recommended by the manufacturer.
  - The battery must be recycled or disposed of properly.
  - Use the battery only in the specified equipment.