

Bluetooth GPS Receiver BTG-100/110



User Manual

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1. Introduction

The BTG-100/110 is a GPS receiver with a Bluetooth interface and built-in active antenna. It is designed to be used with other Bluetooth devices such as PDAs, Smart phones, Tablet PCs or Laptop computers. The flexibility offered by the BTG-100/110 means that it can be used in many useful situations when GPS navigation may be required.

1.1 Package

Before you start, make sure that your package includes the following items. If any item is missing or damaged, please contact your dealer immediately.

1. BTG-100/110
2. Car charger
3. Li-ion battery
4. AC charger (optional)



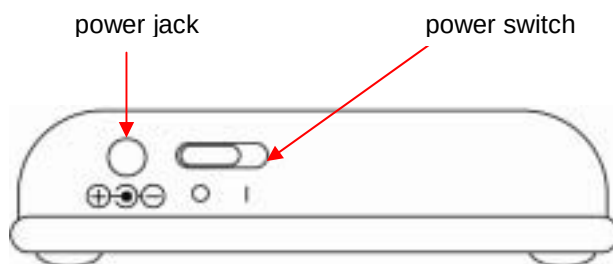
Car charger



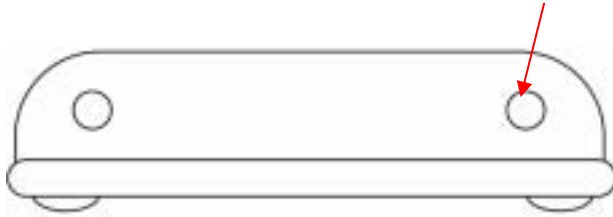
Li-ion battery

2. Features

2.1 Diagrams



External antenna connector



2.2 Power Switch

Power on:

Slide the switch to the on position (marked “1”). The power LED will come on.

Power off:

Slide the switch to the off position (marked “0”). The power LED will switch off.

2.3 Power Jack

The power jack lets you to connect either a car charger (included) or AC charger (optional) to power the BTG-100/110 and recharge the internal battery.

2.4 LED Indications

Battery Status LED (Green/Orange/Red):		
	Red Blinking Orange Green	Battery power is critically low. Charge immediately. Battery is charging. Battery is charged
Bluetooth Status LED (Blue):		
	Blinking once every 3 seconds Blinking once every 5 seconds	Pairing/discovery mode Connected to other Bluetooth device.
GPS Status LED (Yellow):		
	Fast blinking Slow blinking Steady light	Searching 2D GPS position is fixed 3D GPS position is fixed

2.5 How to insert the battery

1. Open the battery compartment door
2. Put new battery into BTG-100/110
3. Close the battery compartment door

NOTE: Please initially charge the battery for 3 hours.

2.6 Power-saving Function

If the BTG-100/110 is not connected to any devices for 5 minutes, it will switch off automatically, and all LEDs will also switch off simultaneously.

3. Connecting to another Bluetooth device

1. Turn on the BTG-100/110 by moving the power switch to the on position (marked "1").
2. Using your Laptop/PDA/Smartphone's Bluetooth software, search for the BTG-100/110. If you are unsure how to do this, please see the documentation that came with your Laptop/PDA/Smartphone. If you are asked to enter a Bluetooth passkey, type 0000.
3. Choose the Serial Port service offered for the BTG-100/110, and note the COM port number. (Example COM 6).
4. Run your GPS navigation software (not included), making sure to choose the same COM port number as noted previously.

NOTE: Most Bluetooth applications will automatically select the correct baud rate. However, should you need to specify the baud rate, choose 38,400.

4. Specifications

Product Specifications	
GPS	
Chipset:	◆ Fastrax iTRAX03
Channel:	◆ 12 channels (satellite) all-in-view tracking
Accuracy:	◆ 10m
Cold / Warm / Hot start:	◆ 35 / 8 / 3 sec
Protocol:	◆ NMEA-0183 v3.0
GPS Antenna	
	◆ embedded 25x25mm patch antenna
Bluetooth	
Chipset:	◆ CSR BC4-External
Bluetooth	◆ V1.2 Compliant
Frequency Range	◆ 2.402~2.480 GHz
Profile:	◆ Serial Port Profile (SPP) 38400 bps
Transmitting Power	◆ Class 2
Transmitting Range	◆ 10m (Depends on environment)
Power	
Power Control:	◆ ON/OFF switch ◆ Self sleep mode control
Battery:	◆ Lithium-Ion Rechargeable Battery 1100mAh ◆ Removable ◆ BL-6C for mobile phone
Battery Life:	◆ 10 hours max.
Charge time:	◆ 3 hours max.
Charging:	◆ Car charger ◆ AC charger
Battery Life:	◆ 10 hours max.

LED Indicator	
	◆ Power (battery low, charging, full charged) ◆ Bluetooth (searching, paired) ◆ GPS (positioning, searched, fixed)
Switch / Connector	
	◆ Power switch (slide switch) ◆ RF connector for external GPS antenna (MMCX) ◆ DC-IN jack for AC adapter
Temperature	
Operation:	◆ -20°C ~ +60°C
Storage:	◆ -30°C ~ +80°C
Other	
	◆ Rubber base/feet for skid-proof in car
Accessories	
	◆ AC adapter (Input 100~240VAC; Output 5V) ◆ Cigarette car charger (Input 12~24VDC; Output 5V) ◆ Users Manual (Quick Guide)
Certification	
	◆ CE ◆ FCC ◆ BQB
Dimensions (L*W*H)	
	◆ 73*46*21 mm

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.