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SuperCompact
Bluetooth GPS Receiver

Model no.: CGB-300

Operating Manual

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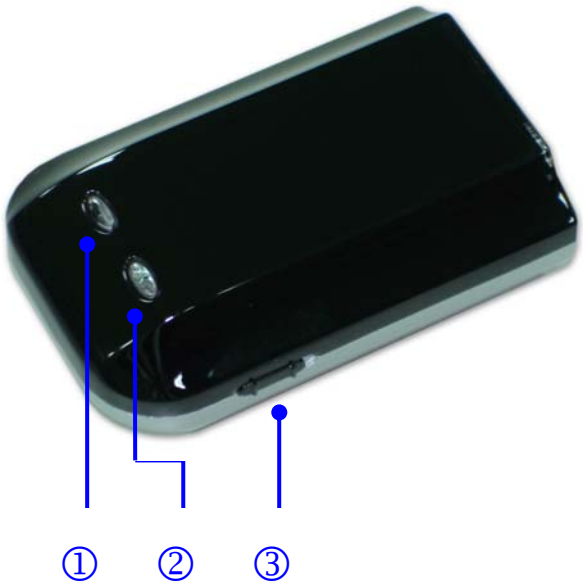
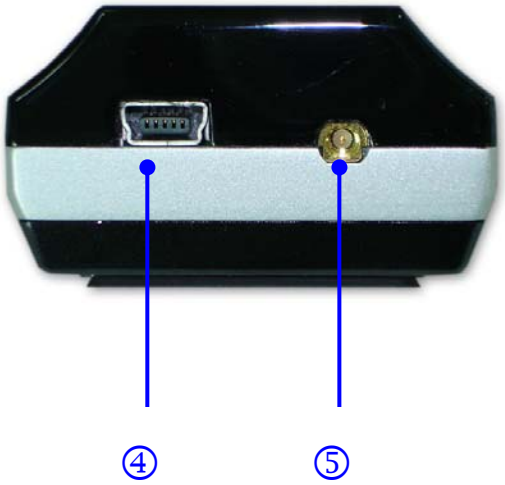
1.Product Information

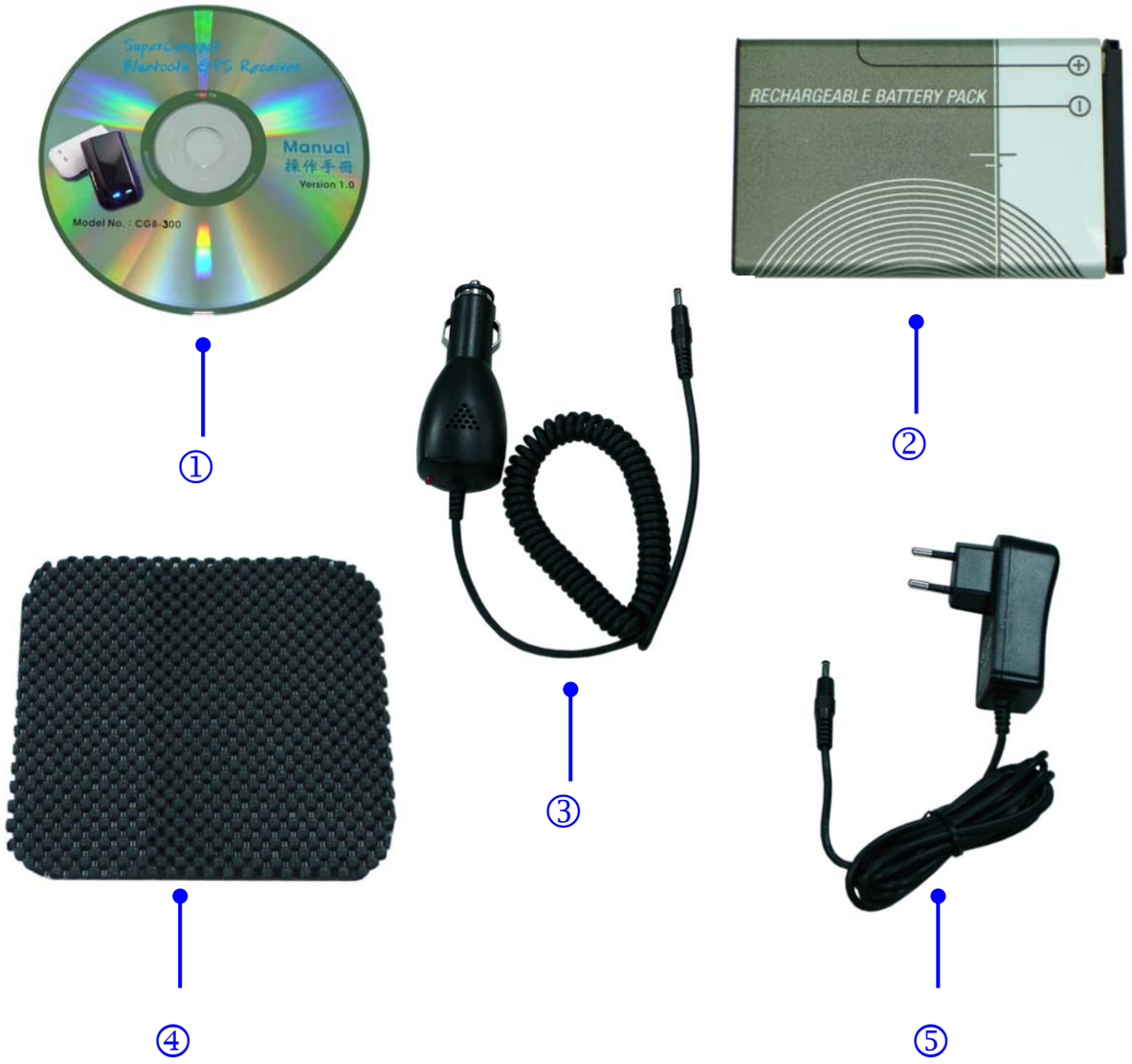
1.1 Know Your Device





1.	Blue Led Indicator	Indicates connecting with your mobile device Flash：paring, steady:connected
2.	LED Indicator	Green LED indicating the state of the BTGPS Green LED On: non-fix Green LED Flash: GPS Fix Orange LED indicating the state of recharging battery Orange LED On: Battery is Charging Orange LED On: NO charging
3.	Switch Function	ON for operating Bluetooth GPS, OFF for system power off
4.	Battery Recharging Connector	MINI USB 5 PIN B type
5.	Active Antenna	MMCX Connector

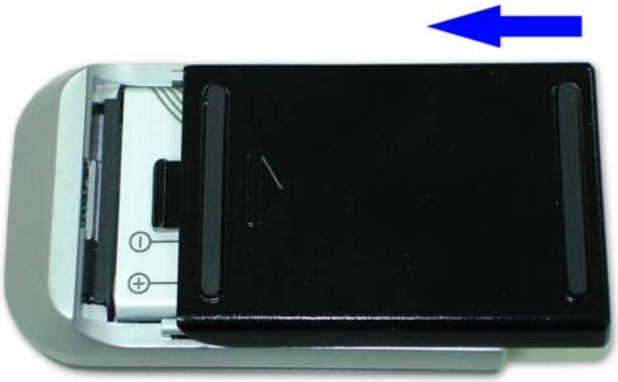
1.2 Accessories



1.	CD	Operating Manual
2.	Lithium Rechargeable Battery	4.2V 1000mAh
3.	Car Charger	Cigarette Adapter for CGB-300
4.	Slip Pad	Slip Pad for GPS Receiver
5.	Travel Adapter	With 120V-230V Adapter

2.Operation

2.1 Battery Install



Steps:

(1.) take off battery cover

(2.) put the battery into the slot according to metal part

(3.) put back the battery cover until locked

2.2 Charge the battery

Steps:

1. put the battery in GPS first
2. insert the cigarette lighter adapter to port for vehicle or insert travel adapter to house plug
3. please take your Car charger(travel adapter) cable mini USB connector to GPS power port
4. when battery is charging , Orange LED is On.

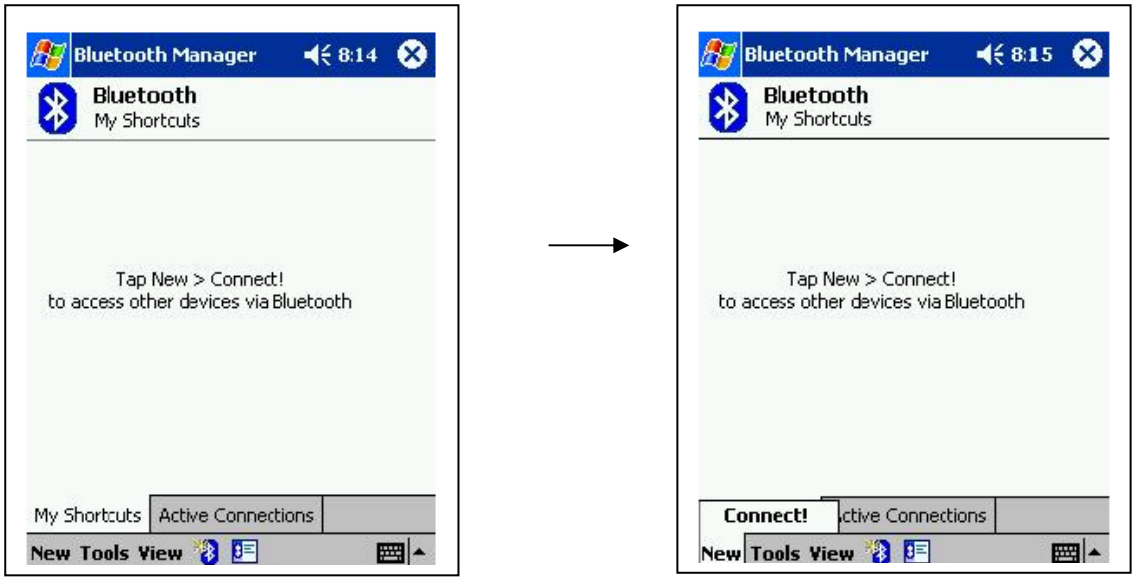
2.3 HOW TO CONNECT to PDA/ MOBILE DEVICE

Please follow below instructions step by step: the Password is “0000”

2.3.1 Open “Bluetooth Manager” on your pocket PC.

Click “New”

Click “Connect”

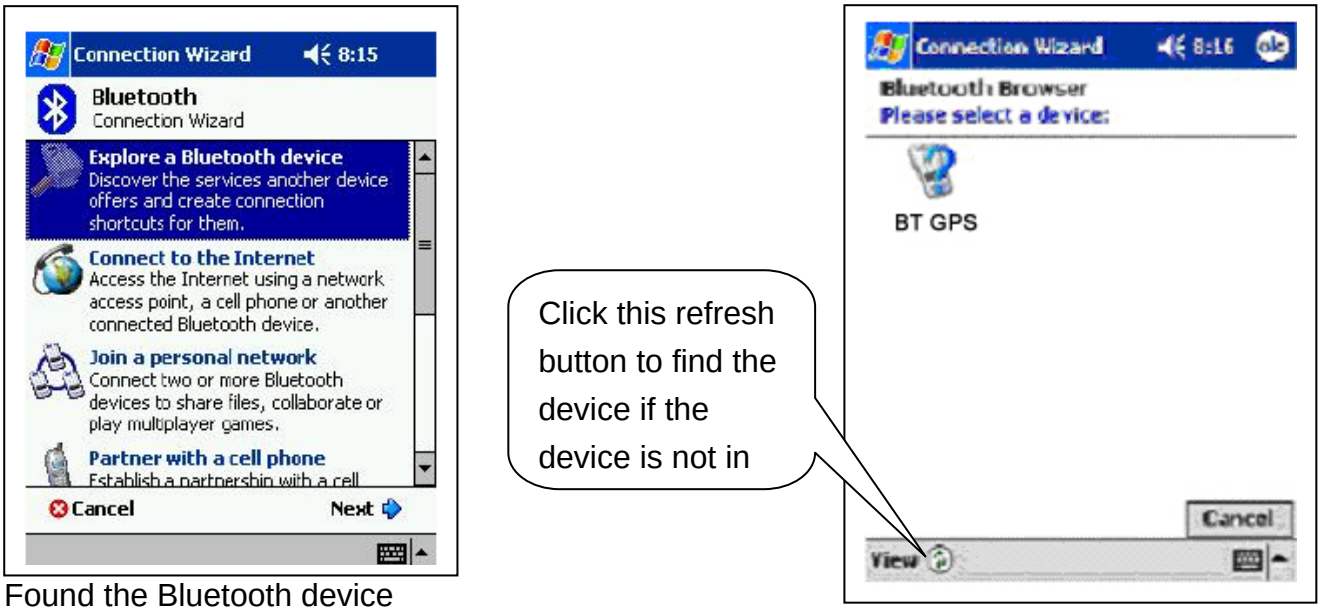


2.3.2 Search Bluetooth device “BT GPS”

Select “Explore a Bluetooth device”

Click “Next”

To find the Bluetooth device



Found the Bluetooth device

Tap “BT GPS”

Fig. 1 Browse

2.3.3 Double click the device with which you want to establish SPP connection to browse its service as Fig. 2 & Fig. 3

Select SPP slave

Click “Next”

Click “Finish”

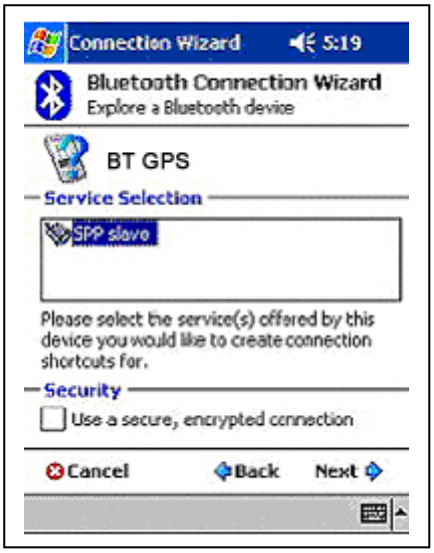


Fig. 2 Browse

Fig. 3 Browse

2.3.4 Finish Bluetooth Manager Setup

Tap and Hold “BT GPS”

Click “Connect”

Finish Bluetooth setup

After you click the SPP service, it will show as Fig. 4:

Fig. 4 Connect to SPP

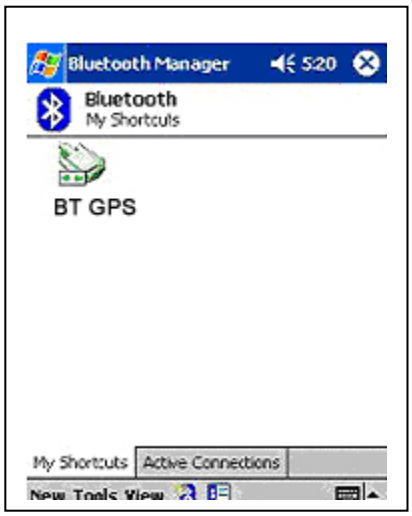


Fig. 5 Connection

After connect successfully, it will show as Fig. 5

Feature

- 20 Channels "All-In-View" Tracking
- Cold/Warm/Hot Start Time: 42/38/1 Seconds (Signal Strength > 30 dB-HZ)
- Support Standard NMEA-0183 at 57600 bps baud rate (Defined by customer 4800 up to 51200)
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Ultra small , sleek, and lightweight design easily fits in your hand
- Li-polymer battery lasts for about 9 hours of use in connection
- Position accuracy of 10 meters 2D RMS
- Reacquisition Time: 0.1 seconds
- Support Power Saving Mode
- Superior Sensitivity for Urban Canyon and Foliage Environment
- Two LEDs show Bluetooth and GPS
- On/off slide switch
- Dimension: 70mm x 44.6mm x 24.9mm

Electrical Characteristics

General	
Chipset	Sirf Star III
Version of BT	1.1
Frequency	L1, 1575.42 MHz
C/A code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Antenna Type	Built-in Ceramic patch antenna
Accuracy	
	10 meters, 2D RMS
Position	7 meters 2D RMS, WAAS corrected
	1-5 meters, DGPS corrected
Velocity	0.1 meters/second
Time	1 microsecond synchronized to GPS time
Datum	
Default	WGS-84
Other	selectable for other Datum, please refer to Appendix B
Acquisition Rate (Open sky, stationary)	
Reacquisition	0.1 sec., average
Hot start	1 sec., average (open sky)
Warm start	38 sec., average
Cold start	42 sec., average
Dynamic Conditions	
Altitude	18,000 meters (60,000 feet) max
Velocity	515 meters/second (1000 knots) max
Acceleration	4g, max
Jerk	20 meters/second3, max

Power	
Operational Power	3.3VDC±10%
Input Power	5VDC±10%
Battery Source	rechargeable and removable lithium ion battery with 5V DC input charging circuit (300mA)
Operational Current	100~120mA
Backup Power	3.3V
Operation Time	9 hours after full charge on full power situation
Default	
Programmable	10 hours, depending on duty cycle in trickle power mode
Main Interface	
Connection	Communication with host platform via Bluetooth Serial Profile
Protocol messages	NMEA-0183 output protocol
Baud	4800 bps
Data bit	8
Parity	N
Stop bit	1
Output format	GGA(1sec), GSA(1sec), GSV(1sec), RMC(1sec),VTG(1sec)
Environmental Characteristics	
Operating	-10 ºC to +60 ºC
temperature range	
Humidity range	5% to 95% No condensing
Physical Characteristics	
Length	70 mm
Width	44.6 mm
Height	24.9 mm
Weight	70.5g (with chargeable battery)
Antenna connector	MMCX PLUG type
Note	The device disable internal antenna when connected with external antenna

3.Federal Communications Commission(FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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 or more 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.

Operation is subject to the following two conditions:

1) this device may not cause interference and

2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF 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 antenna or transmitter.