



CELLINK CO., LTD.

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.
TEL: +886-2-26962773 FAX: +886-2-26962774

CELLINK. CO., LTD

Bluetooth GPS BTG-7000 User Manual



Prepared and all rights reserved by
CELLINK CO., LTD



CELLINK CO., LTD.

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.

TEL: +886-2-26962773 FAX: +886-2-26962774

TABLE OF CONTENTS

Sections

Table of Contents

Chapter 1 INTRODUCTION

Introductions

What is GPS?

Bluetooth GPS receiver

Package of contents

Hardware Diagram

Button Functions

Chapter 2 INSTALLATIONS

Step1: battery charging

Step2: mapping software installation

Step3: GPS connection

Step4: Bluetooth connection

Step5: GPS navigation

Receiver Specifications

Receiver Operations

Chapter 3

Chapter 4 Technical Specification Table



<http://www.cellink.com.tw>

CELLINK CO., LTD.

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.

TEL: +886-2-26962773 FAX: +886-2-26962774

What is GPS?

GPS stands for Global Positioning Systems. GPS is based upon a complex system of 24 satellites orbiting the earth 24 hours a day at an altitude of around 17,500 km, 5 control stations around the world and GPS receivers to pinpoint one's precise location. Satellites systems are very well-designed that at least 4 of them could be viewed anytime, anywhere and in any weather condition. Therefore, time and distance are efficiently transmitted to the ground. This system is launched and has been maintained by the US department of Defense, and the use of the system is absolutely free for everyone. It provides infinite applications while equipped with microcomputer devices, such as PC, Laptop, PDA and smart phones, etc. This is the simplest approach to instantaneously give a precise position and time for civilian users.

Bluetooth GPS receiver:

If you are a frequent driver and tired about hassle with paper maps, Cellink Bluetooth GPS will bring you a whole new experience about navigation. Bluetooth GPS receiver provides wireless connection using a Bluetooth radio link – within 10 meters and above between GPS Receiver and its microelectronic platform. Now, you may enjoy the ultimate the convenience of GPS without the hassle of dangling wires. The build-in hardware tracking loop processor WAAS/EGNOS brings better position accuracy (any average of up to 5 times better). A WAAS/EGNOS-capable-receiver can give you a position accuracy of better than three meters 95 percent of the time. The receiver is intended to use in a broad range of applications. It simultaneously tracks up to sixteen satellites at once.

Package of contents

- Lather case for GPS receiver
- Travel charger
- Car charger
- Demo CD
- Users' manual







CELLINK CO., LTD.

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.
 TEL: +886-2-26962773 FAX: +886-2-26962774

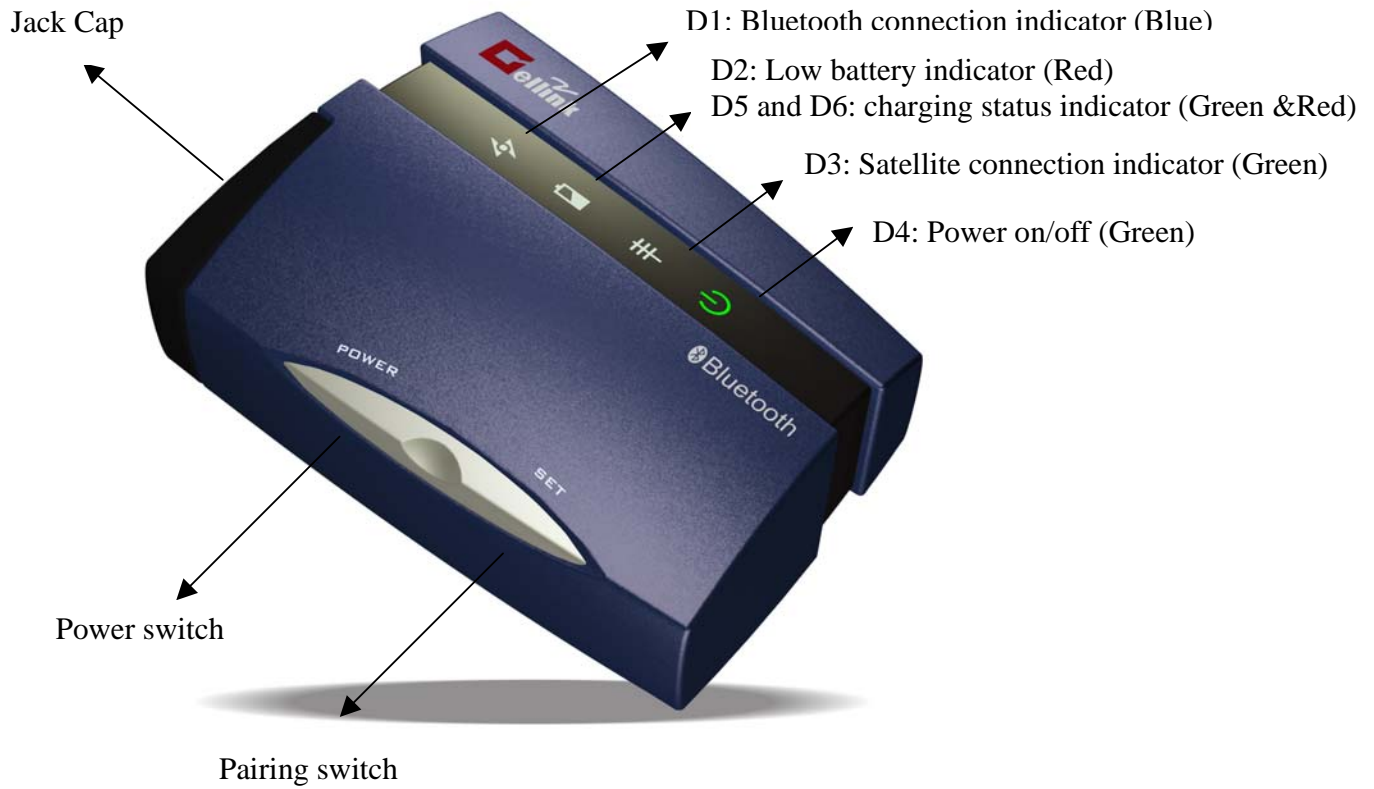
LED indicators:

There are 6 LED indicators on the top of the receiver.

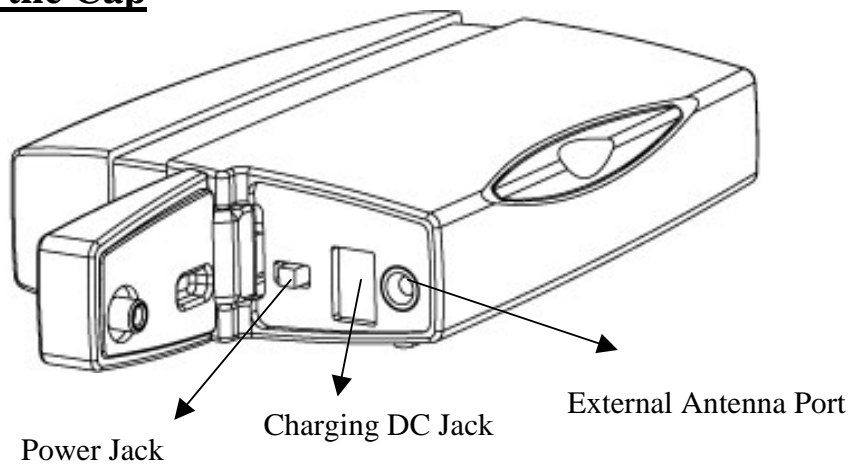
LED Indicators	Color	Functions	Functions	Icons
D1	Blue	Bluetooth Connection	D1 Flashes: get BT connection	
D2	Red	Low Battery Indicator	D2 Flashes: enter deep sleep mode	
D5	Green	Charging Status	both D5 and D6 are on: in charging status D3 on: Fully-charged	
D6	Red			
D3	Green	Satellites Connection	D3 Flashes: get Satellites connection	
D4	Green	Main Power	D4 Flashes slowly: Bluetooth standby	

Pairing Status: D1 and D4 Flash Alternately
 Bluetooth on: D1 flashes
 GPS on: D3 flashes
 GPS working: D1 and D3 flashes

Hardware Diagram



Inside of the Cap





CELLINK CO., LTD.

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.
 TEL: +886-2-26962773 FAX: +886-2-26962774

Specification Table:

Model No.	BTG-7000
Bluetooth Standard	Bluetooth Spec. 1.1 / Class II
Channels	16 channels all-in-view tracking
Chipset / Module	NEMERIX solutions
Frequency	L1, 1,575.42 Mhz
C/A	1.023 MHz chip rate
Antenna Type	Built-in patch antenna
Batteries	Li-Polymer rechargeable 700mAh
Position accuracy	7 meters RMS
Velocity accuracy	0.1 m/sec without SA
Time accuracy	1 microsecond synch. To GPS time
Acquisition Rate : Hot/Warm/Cold start time	12/38/60 sec
Data Update time	1 sec
Data Protocol	NMEA0183 V3.0
Sensitivity	Tracking : -152dBm typ. Acquisition : -139dBm typ.
Operating Time	Up to 10 hrs (after full charge)
Standby Time	300 hrs.
Operating Temperature range	-10°C to 60°C
Storage Temperature range	-20°C to 75°C
Operating Distance	10 meters
Dimension	(L)80*(W)58*(H)18
Certification Approval	CE, FCC



CELLINK CO., LTD.

<http://www.cellink.com.tw>

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.

TEL: +886-2-26962773 FAX: +886-2-26962774

Product Description:

- Communicate with host platform via Bluetooth Serial Profile.
- Sony high performance and low power consumption chipset.
- 16 channel parallel tracking.
- Supported NMEA 0183 command: GGA, GSA, GSV, RMC, GLL, VTG.
- 5 LED indicators to show status of Bluetooth/GPS/battery/charging.
- Non-slip on the bottom.
- High performance Li-Polymer rechargeable 700 mAh.



CELLINK CO., LTD.

<http://www.cellink.com.tw>

11F, No.102, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei, Taiwan, R.O.C.

TEL: +886-2-26962773 FAX: +886-2-26962774

Chapter 2 Installation and Usage

Step1: battery charging

Ensure your batteries are fully charged before you start to use your Bluetooth GPS receiver. Both AC travel charger and DC car charger are included in the package. The power jack is located in the jack cap. Open the cap and connect the charger into the power jack.

To use AC travel charger, simply plug it into any electrical socket.

To use DC car charger, simply plug it into cigarette lighter port of your car.

While charging, both LED indicators D5 (green) and D6 (red) are on.

While it's done charging, D6 turns off and D5 remains on (green LED).

Step2: mapping software installation

Step3: GPS connection

Step4: Bluetooth connection

Step5: GPS navigation

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.

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.