

# Bluetooth GPS Receiver

GR-231

- **Item No.:** GR-231
- **Product Name:** Bluetooth GPS Receiver
- **Description:**

The Holux Bluetooth GPS Receiver provides a easy-to-use trip guiding tools. You are able to enjoy a brand new experience in driving with Bluetooth™ technology of GPS Receiver, you could have the GPS connection without a cable, it's more convenient and flexible. Enjoy the GPS's life!



The GR-231 is high performance Bluetooth™ GPS Receiver which featured with:

1. Dual function (Bluetooth + GPS-mouse)
2. Compatible with Bluetooth™ Serial Port Profile (SPP) completely
3. Built-in rechargeable Lithium-ion battery without external power supply

## **Applications :**

- \* Vehicle tracing & Location base services
- \* PDA/Notebook Navigation
- \* Car navigation
- \* Marine navigation

- **Feature:**

1. 12 parallel satellite-tracking channels for fast acquisition and reacquisition
2. Use the high-sensitive Xtrac software
3. Compatible with Bluetooth Serial Port Profile (SPP) completely
4. Built-in rechargeable Lithiumion battery without external power supply
5. Built-in rechargeable battery for memory and RTC backup and for fast Time To First Fix (TTFF)
6. Support NMEA0183 v2.2 data protocol or SiRF binary code
7. FLASH based program memory. New software revisions upgradeable through serial interface
8. Provide expand terminal and can contact to other system without Bluetooth device

- **Specification**

Item	Description
<b>Specification</b>	<ul style="list-style-type: none"> <li>• Tracks up to 12 satellites</li> <li>• Receiver: L1, C/A code</li> <li>• Snap Start: &lt;3 sec(at &lt; 25 minutes off period)</li> <li>• Update rate: 1 HZ</li> <li>• Antenna Type: Built in Patch Antenna</li> <li>• Minimum signal tracked: -175dBW</li> <li>• Dimension: 77.9 × 56.9 × 22.8 mm</li> <li>• Weight : &lt; 80g</li> <li>• Electronic Switch On/off push button: Push one second to power on / two second to power off, with automatic shut off system power after ten minutes non connecting to any Bluetooth device.</li> <li>• Lithium-ion battery lasts for more than 9 hours of use</li> <li>• Over – Temperature protection. Protection circuit on GR-231 should stop charging the cell when over-temperature condition occurs.</li> <li>• Operation Temperature: -10 °C to + 60 °C</li> <li>• Store Temperature: -20 °C to + 85 °C</li> <li>• Operation Humidity:5% to 95% No condensing</li> </ul>
<b>Position</b>	<ul style="list-style-type: none"> <li>◆ <b>Non DGPS (Differential GPS) :</b></li> <li>• Position : 5 - 25 m CEP without SA</li> <li>• Velocity : 0.1m / sec</li> <li>• Time : 1 usec sync GPS time</li> </ul>
<b>Acquisition Time</b>	<ul style="list-style-type: none"> <li>• Reacquisition      0.1 sec. averaged</li> <li>• Hot Start            8 sec. averaged</li> <li>• Warm Start          38 sec. averaged</li> <li>• Cold Start           45 sec. averaged</li> </ul>
<b>Protocol &amp; Interface</b>	<ul style="list-style-type: none"> <li>◆ Compatible with Bluetooth devices with Serial Port Profile (SPP)</li> <li>• Bluetooth™ version 1.1 compliant</li> <li>• Bluetooth™ Class 2 operation (up to 10 meter range)</li> <li>• Frequency : 2.400 to 2.480 GHz</li> <li>• Modulation: FHSS / GFSK</li> <li>• RF channels: 79</li> </ul>

- Input Sensitivity: -80dBm

- Output Level: 4dBm

- ◆ Output terminal: Mini-USB (TTL Level)

- **NMEA Protocol Output : V 2.2**

  - Baud Rate : 38400 bps

  - Data Bit : 8

  - Parity : N

  - Stop Bit : 1

- **Output Format :**

  - Standard : GGA, GSA, GSV, RMC

  - Optional : GGL, VTG, SiRF Binary

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- **Altitude** : 18,000 m ( 60,000 feet ) max

- **Dynamic Velocity** : 515 m/sec ( 700 knots ) max

- **Conditions Acceleration** :  $\pm 4G$ , max

- **Jerk** : 20 m/sec, max

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- **4 Led**

- **Function**

Bluetooth , Navigation Update and Battery and charger status Indication

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- **Package Contents**

1. One Bluetooth GPS Receiver
2. One Quick Installation Guide
3. One tool CD (with User's Manual inside)
4. Travel power supply / Cigarette adapter
4. Warranty Card