



## MOBILE GPS RECEIVER & DATA LOGGER **MODEL: GL-50B USB**

### **A Versatile & Integrated GPS Logger, Antenna & Receiver**

Integrating a GPS logger, receiver and antenna together in a miniature construction, **GL-50B** features an all-in-one, cost-effective mobile navigational GPS solution freeing you from the hassle of mounting any other GPS receivers and antennas. Coming up with innovative Plug-Navigate-Position concept, **GL-50B** offers accurate position tracking and mapping capabilities without complicated procedure. Owing to its effective 8 megabytes flash memory space, **GL-50B** allows you to record a plenty number of GPS data then download them to your computer device, which is ideal for the applications in AVL, Fleet Management System and Marine Navigational Aids.



Connecting **GL-50B** by Universal Serial Bus (USB) port along with the packet, referring to the clear **GL-50B's** LED status indication, you can easily read and record over 100,000 track/log points in NMEA-0183 output sentences format via your computing device, such as PC and PDA. Elegantly designed as a low profile, extreme compact, waterproof enclosure, convenient magnetic mount and end feeding, **GL-50B** provides you with the real-time GPS position, speed, track traveled and header information.

Thanks to the Hot Plug-and-Play USB device, navigate your **GL-50B** whenever you like, The Power LED Indicator on GL-50B will stay red if power is success. While the position fixing is processing, the Log LED Indicator will be blinking in green once a second and the signal/data will be received and recorded automatically and continuously. At the time the flash memory is full and out of space, the Log LED indicator will stay green.

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Simply plug our GL-50B, you are able to navigate and log your data wanted wherever you go.

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## Specifications

| PHYSICAL CONSTRUCTION                        |  | PERFORMANCE   |   |
|--|--|---|---|
| Dimension:                                   | 42 (W) x 63 (L) x 27.5 (H) mm  | Antenna element:  | High-reliability ceramic patch  |
| Weight:                                      | 80 grams ( $\pm$ 5% ~ 10% or 10 ~ 20 grams) without cable              | Antenna LNA:  | Gain: 23+/-2dB, NF: 2.0 max.  |
| Receiving frequency:                         | 1575.42MHZ, C/A code   | Receiver architecture:  | 16 parallel channels, tracking & using up to 16 satellites with WAAS ability  |
| Enclosure:                                   | Corrosion-proof & polycarbonate resin                                  | Reacquisition time:   | 2 sec. average  |
| Construction:                                | Ultrasonic welded  | Position accuracy:  | 15m or 50 feet RMS  |
| Mounting:                                    | Suction mount  | Velocity accuracy:  | 0.1 Knot RMS steady state   |
| LED Indicators:                              | 2 low current single-color LED lamp—Red & Green                        | Update rate:  | 1 sec. continuous   |
| Flash Memory Size:                           | 8 megabytes  | Operation time  | 8 hours in continuous use after batteries are fully charged.  |
| ENVIRONMENTAL CONDITIONS                     |  | Dynamics:   | Up to 50m/s.s. (Tracking sustained)   |
| Temperature:                                 | Operating: -30 °C ~ +75 °C<br>Storage: -40 °C ~ +85 °C                 | Power supply:   | USB @ 5V, with reverse protection   |
| Humidity:                                    | 95% RH non-condensing  | Power Consumption   | 75mA @ 5V   |
| COMMUNICATION                                |  | Power Consumption:  | 0.45watt max.   |
| Protocol:                                    | NMEA 0183 at 4800 Baud rates   | EMI filter:   | Rejects power line interference   |
| Signal level:                                | USB Interface (standard)<br>Cigarette Lighter for automobile use       | GPS INTERFACE CAPABILITY  |   |
| DATA CABLE (Mini USB-> USB with +5.0V Input) |  | Output Protocol:  | NMEA 0183 Sentences   |
| Length:                                      | 30 cm (standard)   | Standard output sentences:  | GGA: GPS position & Time<br>ZDA: time & date<br>VTG: course & speed over ground<br>GSV: satellite details<br>RMC: position, time, speed, course |
| Description:                                 | Multi-conductor shielded cable with USB receptacle with strain relief  |   |   |
| Cigar Adaptor Cable (+12V ->5V)              |  | <b>*San Jose Navigation, Inc. may add other NMEA sentences to the standard output to maximize interfacing capabilities.</b> |   |
| Length:                                      | 1 m (standard)   | Logger Interval:  | RMC: 01 sec.<br>Others: 00 sec.   |
| Description:                                 | Cigar adaptor converts 12.0V DC to 5.0V DC and supply power to GL-50B. | Built-in Logger Functions:  | Available   |
|  |  | Logging Data Interval Programmability:  | Available   |


**SAN JOSE NAVIGATION, INC.**
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