



GeoGPS Millenium GPS Base Receiver



Specifications

GPS Receiver and Antenna Size:

5" length x 3.5" width x 1.5" height

GPS Weight: 0.5 lb. w/o battery

Operating Temp: -30 C to 75 C

Storage Temp: -55 C to 90 C

Data Display: optional High Res. LCD Color) Palm PC

GPS Casing: Dust and Water proof

General: L1, C/A code 12 Channel Parallel Tracking GPS receiver with integrated Code and Carrier Phase tracking. Up to 10 days of data collection (single main battery charge) and unlimited collection using external power (e.g. using Car Battery Kit supplied)

Update Rate: Once per second

Time to First Fix: < 15 seconds

ReAcquisition Time: < 1 sec.

Electrical Interfaces: 2 RS-232C data ports

ACCURACY

with carrier phase operation

Single Fix: <15 meters RMS 2D 3D (without SA)

Differential:

(static or kinematic) +/- 1 cm + 1ppm horizontal

Realtime DGPS < 1 meter (submeter)

Power

12 VDC Rechargeable with included Car Battery Kit (Standard)

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GeoAnalytika introduces the **GeoGPS Millenium Base** unit as part of our series of GPS Receiver Products. The new **GeoGPS Millenium Base** is an economical, accurate and intelligent solution to your need for reliable positioning, survey and GIS data collection. High-level accuracy can now be achieved at a very affordable price with accuracy achievable in the centimeter range. It offers a full 12-channel parallel tracking receiver locking on to the best combination of satellites to calculate the most accurate position. It comes with an **optional** PDA (handheld computer) data collection device that can collect full 8-hour survey data. It is the only one in its class offering sub-meter differential capabilities. Data collection and full mapping software is standard and runs in both WinCE (Pocket PC) or Windows 95/98/2000 operating systems.

Fast acquisition and reacquisition and stable outputs are just some of the great attributes of this unit. It performs very well under dense forest canopy or urban areas achieving stable position fixes with no (or minimal) loss of lock. User defined positions can also be preset to enable quicker satellite lock. For surveying applications the unit achieves post-processed static centimeter accuracies. Post processing carrier phase (static) data will yield results in +/- 1 (one) cm. + 1ppm range. The unit also accepts RTCM real-time DGPS corrections producing real-time sub-meter (<1 m. error) readings.

Using our datalogging and Pocket Map software called GeoMap Lite, the **GeoGPS Millenium Base** allows you to name and record waypoint features and locations and instantly store attribute information along with the position data – especially suitable for GIS applications. Any position can be tagged with user-defined attributes and output in industry standard RINEX format for input to most differential post processing software, in GIS Shape (.shp) and CAD (.dxf) format. The user can even import these formats for display and editing in the field. This assures compatibility with most other popular GPS, GIS and CAD systems in the market. It can also convert its logged files into simple ASCII text for import to any database or spreadsheet program for further analysis and printing. Datums can be set and coordinates can be switched from either Latitude-Longitude or UTM. The in-built Moving Map window can display colored GIS and georeferenced image files overlaid with tracks, waypoints, map files and current position. A moving average option (with outlier rejection) will smooth field data for more accurate point readings collected at a site. Its intelligent NAV pointer will accurately give the correct direction standing still and give audible signals when nearing the current waypoint. Optional **civil/survey plug-ins** are also available to do **advanced topographic, contouring, earthworks, and profiling operations.**

The unit can operate for several days collecting position information with its supplied battery. An external battery kit can provide extended operation. Position capture can be set anywhere from 1 per second to user defined. The unit can even be preset to unattended logging. It will record point and track line data and show a Signal Quality Indicator, Waypoint Storage and Display feature, NAV Compass Pointer, Satellite Positions and Signal Quality.

The **GeoGPS Millenium Base** is the perfect instrument to be used for baseline and reference survey, mapping applications and disciplines requiring 1st and 2nd and 3rd order survey and location accuracies. It is also perfect as a base station to complement our **GeoGPS Rover Model** in all types of surveying requirements.



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