

GT-3 series Waterproof GPS Receiver USB version

Quick User Manual

V 1.0

What GPS is and how it works.

GPS (Global Positioning System) is the only system today able to show you your exact position on the Earth anytime, in any weather, anywhere. GPS satellites, 24 in all, orbit at 11,000 nautical miles above the Earth. They are continuously monitored by ground stations located worldwide. The satellites transmit signals that can be detected by anyone with a GPS receiver. Using the receiver, you can determine your location with great precision.

The satellites are positioned so that we can receive signals from six of them nearly 100 percent of the time at any point on Earth. You need that many signals to get the best position information. Satellites are equipped with very precise clocks that keep accurate time to within three nanoseconds- that's 0.000000003, or three billionths of a second. This precision timing is important because the receiver must determine exactly how long it takes for signals to travel from each GPS satellite. The receiver uses this information to calculate its position.

Although GPS was designed for military use, many thousands of civilians make use of it. The satellites actually broadcast two signals, one is only for military use, and one can be used by both military and civilians. Since GPS is passive (you only need to receive the signal), there are no restrictions on who can use the signal available to civilians.

GPS technology can be used in a variety of fields besides providing navigation for vehicles on the sea, in the air and on the ground. GPS applications also include keeping track of where a fleet of trucks, trains, ships or planes are and how fast they are moving; directing emergency vehicles to the scene of an accident; mapping where a city's assets are located; and providing precise timing for endeavors that require large-scale coordination.

How to install

For Notebook Computer



1. Plug **USB connector** into your Notebook computer's USB port, see Fig 1.1.



Fig1.1

2. To install USB driver, you can find the USB driver on the attached CD (file name: **GPS USB driver**). This USB driver can be installed for Microsoft Windows, XP and Mac system. The USB driver can be automatically installed while it is been executed.
3. After installed the driver, please identify which COM port (USB port) has been occupied by this GT-3 series GPS receiver. You can find out that as follows.
 - Double clicks "**Control panel (C)**" → Double clicks "**System**" → Click "**hardware**" → Click "**Hardware Manager**" → Double clicks "**COM Port**"
4. Execute the eMap (Electrical street map) software and then select the COM port. You must first read the manual of eMap to learn how to setup the COM port in the software.
5. The GPS receiver will search GPS satellites automatically, your current position will be showed on the eMap after 3 satellites has been searched. (It needs to take 45-50 seconds, when you use the **GT-3 series GPS receiver** at the first time). See Fig 1.2



Fig 1.2

6. How to identify your **GT-3 series** GPS receiver working status, please read the following description of LED Indicator.

LED Indicator

LED OFF	Receiver switch off
LED Blinking (once every 4 seconds)	Not fix, signal searching
LED ON (once every second)	3D Position fixed

Standard Package

The package is including a GT-3 series GPS receiver and a user manual and USB driver CD. If any items are missing or damaged, please contact your local dealer immediately.

Optional Accessories:

- . • PS/II to PDA connector and car charger
- . • PS/II to DB9 adapting cable
- . • PS/II to USB adapting cable

Note:

If you need to install USB driver for the other OS platforms (iMAC or Linux), please find them from USB chipset maker (www.prolific.com.tw)