

## How the Global Positioning System Device Works

In the modern technology have a system simply receives signals with GPS is a navigational aid originally developed for the military. Using this GPS you not used a manual map and compass again, as long you can understand about how the GPS works. To find your position on a map, you need to have three points of reference. In the map and compass work uses triangulation (bearings), but the GPS uses trilateration (distances) to calculate location. The satellites orbiting the earth emit unique signals that can be received by a GPS and GPS software interprets the signal, identifying the satellite that it came from, where it was located, and the time that it took for the signal to reach the system. The three satellites provide the intersection point and the fourth is used to check that the positioning is accurate depends upon the synchronization of atomic clocks in the satellites with the clock in the GPS system.

With the GPS has gone far beyond its initial military application. Use the technology to cross unfamiliar terrain, mariners and pilots use GPS enhanced data to cross the seas and skies. In the vehicle GPS can be integrated into the car entertainment system as a removable device. The auto GPS uses voice commands so that the driver can concentrate on the road.

The GPS technology is used to track individuals on home arrest, to trace missing pets, stolen vehicles, and missing people. So if you are considering purchasing a GPS, make sure that it can be updated easily because it's true if you buy a multi function GPS or one that is used where conditions change regularly. To updates vary according to the device being used by CD/DVD packages or as computer downloads. The user can purchase maps specific to the area in which the GPS will be used or a range of maps and routes. So find the best you can afford, cost is generally related to quality.