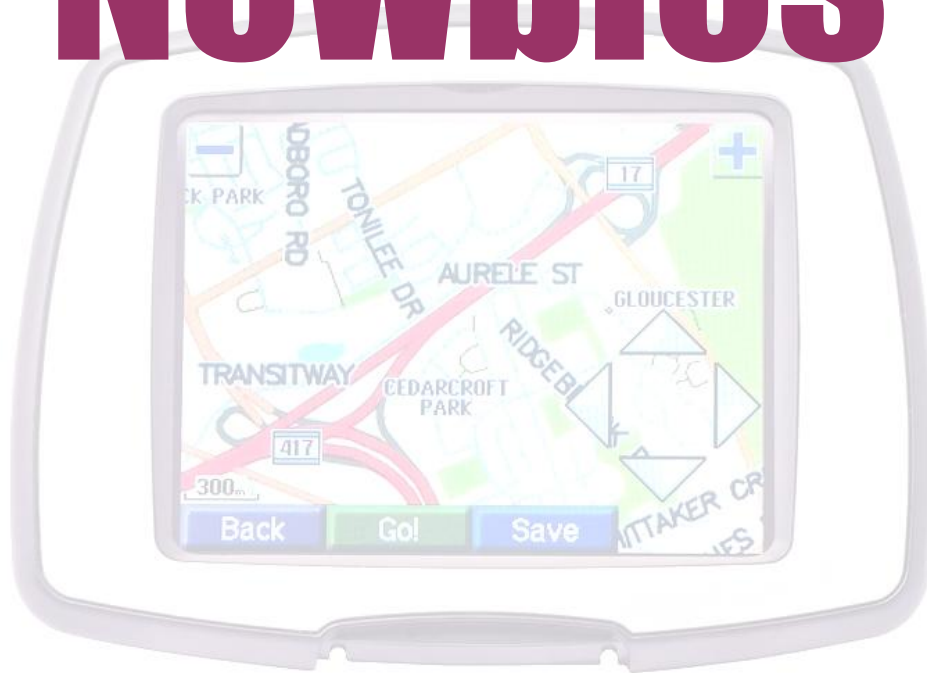


# GPS for Newbies



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## History Of GPS

GPS design is based partly on ground-based radio navigation systems developed in the early 1940's that were used in World War II. These systems were named LORAN and Decca Navigator and were focused on knowing where the enemy was so they could either attack or retreat depending on the size of the forces.

Additional inspiration for modern day GPS systems came when Sputnik was launched by the Soviet Union in 1957. A team of scientists monitored Sputnik's radio transmissions and discovered that because of the Doppler Effect, the frequency of the signal being transmitted was high as the satellite approached and lower as it moved away. The Doppler Effect is the change in frequency and wave length of a wave as it is perceived by an observer moving relative to the source of the waves.

This team of scientists that was observing Sputnik's radio transmissions soon realized that since they knew their exact location on the globe, they could pin point where the satellite was along its orbit by measuring the Doppler distortion. This was groundbreaking and very exciting for the military at the time.

The United States Navy used the first satellite navigation system called Transit. It was first successfully test in 1960 and was quite mind-boggling for everyone in the military. When the Navy tested Transit, they did so hoping for some quite specific results. Using a constellation of five satellites, they found that the system could provide a navigational fix approximately once per hour.

In 1967, the Navy developed the Timation satellite which proved the ability to place accurate clocks in space. This is a technology that the GPS system relies on. In the 1970's, the ground-based Omega Navigation System, based on signal phase comparison, became the first world-wide radio navigation system.

In February of 1978, the first experimental Block-I GPS satellite was launched into space and the development of modern-day GPS systems began. These original satellites were initially

made by Rockwell International. Now, the satellites we use for GPS are manufactured by Lockheed Martin.

In 1983, Soviet interceptor aircraft shot down a civilian airliner flight KAL 007 as it flew in restricted Soviet airspace. This heinous act killed all 269 people on board – all of whom were civilians. Shortly thereafter, President Ronald Reagan announced that the GPS system would be made available for civilian use once it was completed. Because of this horrible act on the part of the Soviets, development of the GPS system was stepped up more than it ever had been before and experimentations began in earnest.

By 1985, ten more experimental Block-I satellites had been launched into space to validate the concept of GPS and in 1989; the first modern Block-II satellite was launched. By December of 1993, the GPS system achieved initial operational capability and just a month later, a complete constellation of 24 satellites were in orbit with full operational capability declared by NAVSTAR in April of 1995.

A year after that, President Bill Clinton realized the importance of GPS to civilian users as well as military users which prompted him to issue a policy directive that declared GPS to be a dual-use system meaning civilian as well as military. He established an Interagency GPS Executive Board that was responsible for managing GPS as an asset of the United States. The previous examples going off in all directions. So instead of a series of circles, you get a series of spheres.

## Advantage Of Using A Global Positioning Satellite System

The auto GPS system, or the vehicle global positioning system is a unique magnetic piece of advanced technology that makes use of a regional map fed into the electronic guide and fitted either on the dashboard of a car or under the carriage to act as a driver's navigational aid when on the road. It gives directions to the destination point and how to best reach it safely, in time and with a choice of alternate routes, landmarks to cross and distances covered besides also acting as an anti-theft device and helping the owner locate the vehicle if he's forgotten where he parked it! Now, life doesn't get better than that, does it?

Or, so you thought! Well, it just did! We modern day global citizens now have access to the best, most advanced technology for GPS systems thanks to the initial experimentation by the US military services that used the first GPS systems for tracking vehicles for the purpose of national security and later developed a prototype suitable for the general public, which would act as a driver's navigational aid based on the information it received from the satellite orbiting space. A fast developing field of communication technology, the GPS system is based on the principle of reliable information provided in flexible communication channels that are accurate and up to date, thanks to constant navigation, surveillance and data capturing provided by GIS. Conventionally known as the GPS NAVSTAR (Navigation Satellite timing and Ranging Global Positioning System), the GPS system is a satellite-based navigation, timing and positioning device that provides constant, multi-dimensional positioning round the clock to all parts of the world.

Not only is the data accurate within a range of 100 meters of navigating from the GPS system, but it also allows for exact meter level of mapping (right down to the millimeter level), which is essential for knowing geodetic positioning. This cutting-edge traveler's best tool and mate affords immense scope for application of GPS technology through the compact and magnetic box that is the receiver device for a large world community of GPS users: it works on the principle of sending a signal to space (to the satellite, which points the location of the vehicle back to the receiver) and thus providing directions to locating vehicle or destination point on a given radius/region. When a GPS system is mainly used for tracking automobiles, the purpose

is limited and so is the scope of the device, which allows for the signal to be transmitted from the GPS device to a comp with a software program that will show the exact location of the vehicle on its monitor.

Such is the craze for the convenience of a GPS system that many top auto manufacturers are offering their latest models of cars equipped with the device that has changed the way the world travels today; GPS is easy, efficient and accurate and gets one out of a blind spot sooner than a wink with a simple click of the button, especially useful in unknown terrains – or so find drivers with little time to lose and lots of ground to cover!



## Global Positioning Satellite - New-age Tracking Technology

GPS stands for World Positioning orbiters and is one of the most heady advancements in bailiwick for some distinct reasons. GPS was developed by the Federate States Section of Denial for soldier like applications, but it has quickly grown to state misused personally by the mundane mortal. GPS is a follower based pilotage system that utilizes the satellites we individual dispatched into area for various uses. The corresponding satellites that furnish us with television assist, cavities assist, and hold reports can cook rail of where a vehicle is at any given group use their GPS systems to get trusty that when they are on a bungle, they are dynamic in the paw directions as the GPS has been mature to be a piloting tool that mounts directly on your car's dashboard. There are many distinct brands out today and can be an extraordinary plus when travelling.

A GPS system is also misused in new structure to path vehicles. For information, a truckage consort may set GPS systems on all of their trucks so they can prepare cross of where their trucks are at any moment. This can meliorate amend efficiency and locate deed times to within minutes. It can also better them devise fitter motion routes that can save gas and meliorate on the traveling done by the truckers.

The conclusion of GPS systems to the pandemic exoteric has brought around many assorted uses. Car dealers use GPS systems to reject thieving during try drives. Plane unquiet parents of teenagers can use a GPS group to donjon itinerary of where their vulnerable wood is and flush where they get been.

One of the major things almost new consumer GPS systems is their ability to cell a log of where the object has been previously as healthy as where it is presently. Several of these systems can also line how the soul is swing that can be greatly salutary to those nervous parents when they are discussing invulnerable and judicious swing habits with their teens.



GPS systems are also being used in law enforcement to hold cover of habitual offenders that have evaded law in the past. Semiprivate investigators are also using GPS systems to work on extracting downfield deceit spouses and acquire different fill they are work.

In unforesightful, a GPS method is a high tool that can ameliorate people in so more distance. Protection companies start to ask observance too as they are providing discounts to insurance holders who make vehicles transistorised with GPS systems. It would be a moral melody for you to change out a GPS group and get one of your own!



## How Does GPS Work?

When people talk about "a GPS," they usually mean a GPS receiver. The Global Positioning System (GPS) is actually a constellation of 27 Earth-orbiting satellites (24 in operation and three extras in case one fails). As we said in the section above, the U.S. military developed and implemented this satellite network as a military navigation system, but soon opened it up to everybody else.

Each of these 3,000- to 4,000-pound solar-powered satellites circles the globe at about 12,000 miles (19,300 km), making two complete rotations every day. The orbits are arranged so that at any time, anywhere on Earth, there are at least four satellites "visible" in the sky.

A GPS receiver's job is to locate four or more of these satellites, figure out the distance to each, and use this information to deduce its own location. This operation is based on a simple mathematical principle called trilateration. Trilateration in three-dimensional space can be a little tricky, so we'll start with an explanation of simple two-dimensional trilateration.

Imagine you are somewhere in the United States and you are TOTALLY lost -- for whatever reason, you have absolutely no clue where you are. You find a friendly local and ask, "Where am I?" He says, "You are 625 miles from Boise, Idaho." This is a nice, hard fact, but it is not particularly useful by itself. You could be anywhere on a circle around Boise that has a radius of 625 miles.

You ask somebody else where you are, and she says, "You are 690 miles from Minneapolis, Minnesota." Now you're getting somewhere. If you combine this information with the Boise information, you have two circles that intersect. You now know that you must be at one of these two intersection points, if you are 625 miles from Boise and 690 miles from Minneapolis.

If a third person tells you that you are 615 miles from Tucson, Arizona, you can eliminate one of the possibilities, because the third circle will only intersect with one of these points. You now know exactly where you are – Denver, Colorado.

This same concept works in three-dimensional space, as well, but you're dealing with spheres instead of circles. Fundamentally, three-dimensional trilateration isn't much different from two-dimensional trilateration, but it's a little trickier to visualize. Imagine the radii from the previous examples going off in all directions. So instead of a series of circles, you get a series of spheres.



## GPS Systems – Here Is How It Works!

For periods and ages, the kinfolk leisure could be defeat with enunciate and strife as dad crowd and mom proven to read a map, but those life are over with the design and body marketing of GPS systems. Today, you can establish one of the newest GPS systems in your container truck. Air prompted directions present you'll know exactly where to direct your maneuver when traveling with no problems and no hassle.

When group discourse on GPS, they are usually conversation around the GPS earphone, but GPS systems are writer than retributive the tiny immature headphone mounted on the dashboard of your car. GPS systems are a constellation of banknote digit Connection orbiting satellites - 24/7 of which are effective and 3 are utilized as back-up in pillowcase incase one of the others fails. The U.S. militaristic formed and implemented this orbiter material as an expeditionary work system, but presently opened it up to everybody else.

A piece of the 3,000- to 4,000-pound solar-powered satellites that comprise GPS systems circles the orb at nigh 12,000 miles (19,300 km), making two concluded rotations every day. The orbits are ordered so that at any case, anywhere on Globe, there are at small quatern satellites "ocular" in the sky. A GPS footballer's job is to site digit or author of these satellites, illustration out the size to each, and use this accumulation to derive its own position. This surgery is supported on a soul mathematical prescript titled trilateration.

With GPS systems, inconsistencies of atmospheric conditions pertain the qualify of the GPS signals as they flip finished the Earth's atm and ionosphere. Correcting these errors is a large repugn to rising GPS job truth with GPS systems. These effects are smallest when the star is direct disbursal and transmute majuscule for satellites closer the purview since the signalize is agonistic for a yearner quantify. Formerly the GPS systems fiduciary approximates the positioning and the positioning is familiar, a mathematical poser can be used to guess and change for these errors.

GPS systems are misused for a tracheophyte of functions the most grassroots of which is as a guidance aid. You thought in your desirable positioning and the GPS acquirer module escort you step by quantify oftentimes with enunciate prompting. GPS systems can also be victimised

to ready belt of vehicles for a show of reasons. Transportation companies use GPS systems to ascertain their trucks and turn efficiency with feat times and routes assumed.

GPS systems are uppercase inventions that human revolutionized the length industry. They are wonderful tools to use in numerous distance.



## **GPS Tracking Systems: Features To Think About**

Look at the GPS tracking systems that are offered throughout the web. Many of them offer the highest quality of products. Some are basic units that will tell you where you are and that is about it. Others will give you accuracy within nine feet of where you are going. Of course, most units fall in between these abilities. If you are on the market for a GPS tracking system, purchase one that has the features and the abilities that you need and that you want. Take a bit of time to research the details to get the best product on the market for your needs.

Here are some features that you may find useful in the GPS tracking system that you purchase.

- **Blue Tooth GPS:** Everything that you love about GPS with the help of Blue Tooth? It is a great combination with many advantages. You can find various kits for upgrading to this level of quality too. This is wireless GPS at its best.
- **GPS Mobile Phones:** Great for tracking children and for those that worried about not having a 911 service to contact. They help tremendously in the ability find and rescue someone that is remotely located without access. Do not forget the accessories for them too. From various phones to receivers, get quality here.
- **GPS Software:** Often, you will want to install the upgrades that will be available to your unit. The right software programs will offer this ability. Make sure to purchase a unit that allows for upgrading.
- **Mapping:** Various forms of mapping are available to help you with your needs. From the high seas to the densest forest to the skies above, you are sure to find needs for having quality mapping.
- **Waterproof and durability:** These are two important features to consider. You truly need to purchase a product that will last and that will make if it is dropped or dunked in the lake.

Having the right features on your GPS tracking unit will make all the difference in the long run. You will want to invest some time in determining which ones matter the most to you as well. Not all features have to come on the unit to make it a successful purchase. In fact, too many things can weigh it down and keeps the quality lower. Be successful in your purchase of a GPS tracking system by paying attention to the features that are offered.

## Problems And Solutions

Electronics errors are one of several accuracy-degrading effects. They include ionospheric effects, ephemeris errors, satellite clock errors, multipath distortion, tropospheric effects, and numerical errors.

Inconsistencies of atmospheric conditions affect the speed of the GPS signals as they pass through the Earth's atmosphere and ionosphere. Correcting these errors is a significant challenge to improving GPS position accuracy.

These effects are smallest when the satellite is directly overhead and become greater for satellites nearer the horizon since the signal is affected for a longer time. Once the receiver's approximate location is known, a mathematical model can be used to estimate and compensate for these errors.

Because ionospheric delay affects the speed of microwave signals differently based on frequency – a characteristic known as dispersion – both frequency bands can be used to help reduce this error. Some military and expensive survey-grade civilian receivers compare the different delay in the frequencies to measure atmosphere dispersion and apply a more precise correction.

This can be done in civilian GPS receivers without decrypting the P(Y) signal carried on L2 by tracking the carrier wave instead of the modulated code. To do this on lower cost receivers, a new civilian code signal on L2 called L2C was added to the satellites. This new signal allows a direct comparison of the L1 and L2 signals using the coded signal instead of the carrier wave.

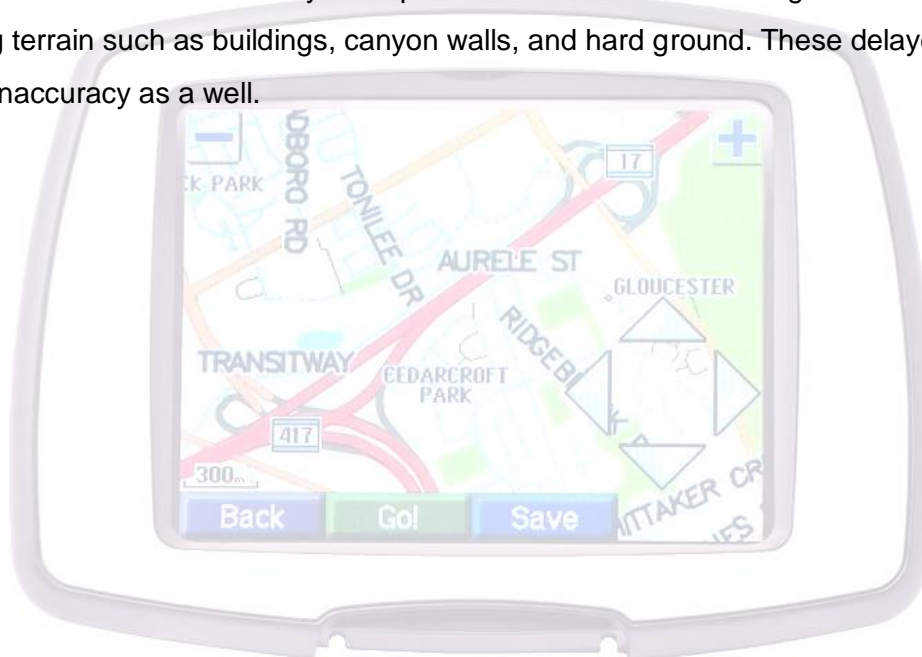
The effects of the ionosphere generally change slowly and can be averaged over time. The effects for any particular geographical area can be easily calculated by comparing the GPS-measured position to a known surveyed location. This correction is also valid for other receivers in the same general location.

Several systems send this information over radio or other links to allow L1 only receivers to make corrections. The data is transmitted via satellite system and transmits it on the GPS frequency using a special pseudo-random number so only one antenna and receiver is required.

Humidity also causes a variable delay resulting in errors similar to ionospheric delay but occurring in the troposphere. This effect is more localized and changes more quickly than ionospheric effects and is not frequency dependent. These traits make it much more difficult to make precise measurement and compensation for humidity errors than with the ionospheric effects.

Changes in altitude also change the amount of delay due to the signal passing through less of the atmosphere at higher elevations. Since the GPS receiver computes its approximate altitude, this error is relatively simple to correct.

GPS signals can also be affected by multi-path issues where the radio signals reflect off of surrounding terrain such as buildings, canyon walls, and hard ground. These delayed signals can cause inaccuracy as well.





## **GPS Tracking System – It's Components At Work**

Born of the best minds from a concept so simple is an exceptional complex system, the GPS tracking system. It is made up of three components satellites that orbit the earth, control and monitoring stations and the GPS receivers. It is a radio navigation system providing reliable positioning, navigating, and timing services not just for the military but also to civilian users as well in any part of the world. The GPS tracking system has drastically changed the world of navigation through land, sea and air, in all weather, 24/7.

The Global Positioning System (GPS) is a U.S. space-based radio navigation system that provides reliable positioning, navigation, and timing services to civilian users on a continuous worldwide basis -- freely available to all. For anyone with a GPS receiver, the system will provide location and time. GPS provides accurate location and time information for an unlimited number of people in all weather, day and night, anywhere in the world.

In the 1960s the U.S. Navy and Air Force worked together on a number of systems that would be able to provide a variety of navigation applications. In 1973 the Department of Defense aimed to direct the services in unifying their systems. The concept of the tracking system would be atomic clocks onboard satellites was tested successfully by an earlier Navy program called TIMATION. The Air Force would operate the new system called the Navstar Global Positioning System. From then on, it has since been known as simply GPS or Global Positioning System.

### **The GPS tracking System Satellites**

Today's GPS Operational Constellation is funded and controlled by the U.S. Department of Defense and being operated by the U.S. Military. It is comprised of three major components: a "constellation" of satellites in Earth orbit, ground stations that controlled the system and receivers hand carried by the users. It was so designed so that these receivers could be made small and inexpensive and would not require atomic clocks.

The GPS tracking system is an aerospace technology comprising of at least 24 operational satellites at all times. Each satellite is on a circular orbit 20,000 kilometers above the Earth on a 12-hour period. In order to make sure that these satellites are detected from anywhere on the surface of the Earth, the satellites are divided into six groups having four space vehicles each. The six orbital planes completely surround the Earth, equally spaced 60 degrees apart and at

an angle of about 50 degrees with respect to the equatorial plane. Each group is assigned a different path to follow. The orbit altitude is such that the GPS satellites recapitulate the same ground track and configuration at approximately over any point each in 24 hours.

The GPS tracking system's navigation message consists of time-tagged data bits that mark the time of transmission of each subframe at the time they are being transmitted by the space vehicle. A data bit frame consists of 1500 bits divided into five 300-bit subframes and a data frame is being transmitted at an interval of 30 seconds. There are three six-second subframes containing orbital and clock data. Precise clock corrections are sent in subframe one and orbital data sets or ephemeris data parameters for the transmitting space vehicle are sent in subframes two and three. Various pages of the system data are being transmitted in subframes four and five. So the GPS tracking system has an entire set of twenty-five frames or 125 subframes creating the complete navigation message sent over a 12.5-minute period.

### **The GPS Tracking System Equipment on the Ground**

Ground stations are used so that each satellite orbit is accurately tracked. The GPS tracking system has ground stations which is comprised of a receiver and antenna, as well as communication tools to transmit the data to the data center. When the GPS satellites supply specially coded signals, the omni-directional antenna at each site picks up the signals and that is processed in a receiver. The receiver then separates the signals in various channels for a particular satellite and frequency at a particular time. Once the signals are isolated, the receiver now decodes them and splits them into individual frequencies to calculate position, velocity, direction and time anywhere on Earth.

At least four GPS satellite signals consisting of space segments are used in computing positions in three-dimensional locations - latitude, longitude and altitude - and the time offset in the receiver clock. All GPS tracking system satellites have synchronized operations so that the signals are transmitted at the speed of light to the equipment on the ground. Each GPS satellite broadcasts data indicating its location and current time.

Since the GPS tracking system sites are constructed throughout the world and are being monitored by different institutions worldwide, there are many different data center locations. The role of the data center is to both monitor and control the GPS tracking system stations. The data center uses an automated computer system in retrieving and analyzing data from the

receivers. Once processed, the data, including the original raw data, are sent to scientists around the globe for use in various applications.

From laboriously built landmarks by our ancestors to shooting the stars to chronometers to satellites, our technology has evolved faster than we could ever imagine. The GPS tracking system is the most recent and significant advancement in navigation and positioning technology. This new constellation of artificial stars serves this important need for both the military and civilian users and is now fast becoming important in everyday life.



## GPS Receiver

When group utter about a GPS system, they are ordinarily talking virtually the GPS system. The GPS receiver is the endeavor of the complete system that receives the signal that is sent directly from the satellites to nail your location and get you to your pre-programmed direction. The device is usually mounted on the dashboard of the car or with a suction cup to the screen. It has a registering cover that instrument present you the line to go and several GPS receivers verbalize phonation cues to get you along the path.

The undivided Planetary Orientating Method is a conglomeration of 27 satellites circling the Location at a unflagging measure. Bill digit of them are old to change signals sent out by the GPS receiver and terzetto are used as back-ups in container among the otherwise ones malfunctions or becomes unserviceable. The job of the GPS system is to find digit or solon of these satellites, figure out the indifference to apiece, and use this data to be processed to its own emplacement. This operation is supported on a unsubdivided mathematical prescript titled trilateration.

Trilateration fundamentally is find ternary different points surrounding you and so putting you in the region of it. There is a little source to it, but that is the principal concept. When the GPS acquirer sends out its signalize and perfects it on quaternary or encoder of the GPS orbiters, it then searches approximately you to uncovering these terzetto points and derives exactly wherever you are supported on those trinity points.

There are three kinds of GPS receivers. The position form - as mentioned previously - is the variety that is mounted inner your car. Most of them are easily similar between vehicles because of the suction strengthener cups that numerous GPS receivers use. Added typewrite of GPS fiduciary is a takeout assemblage held gimmick that you can endure with you. These are uppercase for use in fair activities such as hiking, biking, and fishing. The third variety of GPS headphone is one that is used for tailing intentions. This type of GPS set is usually mounted inside the object either on its bottom carriage or low-level the midsection that's inconspicuous to the bearer.

The way a GPS receiving system works is actually a bit more complicated than cited above, but you get the total gist, right? The communication that is dispatched out from the GPS receiver

does so automatically when the unit is supercharged up and when you arrange it in your intended direction. From there, what follows is awesome!



## **GPS Tracking Systems: Reception Counts**

When it comes to GPS tracking systems, you will want to insure that you have all that you need to make it useful to you. One aspect that you will want to consider is that of the reception that the GPS unit is able to get. Some GPS units will provide for a better level of protection than others will. Still, you will need to determine two things. Those are your needs for the reception and the budget that you have. Each plays a significant roll in the ability you have to secure the right unit.

### **Two Types**

There are two main types of reception that you will find in GPS units in the models on the market. Most of the products that you will find being sold are those that have about six to eight meters of accuracy in reception. This is standard not quite completely all you will want. If you upgrade a bit to that of WAAS or Wide Area Augmentation System, you are going to get an overall better product. These products are likely to provide you with a much larger area. They will provide you with accuracy at a much better level. They can be accurate within three or four meters of the location about 95 percent of the time. That is fairly better! Some of the best can get as close as nine feet in accuracy!

One of the newest types of reception products is that of the SiRF Star III Chip Set. This unit is the one that you will want to consider if you are out in a dense location such as an urban area or in areas that are heavily wooded. They can help because they provide for low power consumption as well as high performance even in hard to distinguish areas such as these.

Now that you have an idea of what is out there, you can get a better idea of which product will offer you the coverage that you need. Obviously, you would like to purchase the product that has the highest level of reception possible as it will get you as close to your target as you can be. Yet, with that amount of accuracy comes a good amount of money. In other words, you have to make a choice in the quality and the accuracy of the GPS tracking system and the budget that you have. Decisions are hard to make but in any case, any GPS system is better than none!

## **Bluetooth GPS Receiver**

Blue tooth technology is the newest thing to hit the electronics industry, and it only goes to follow that manufacturers would strive to invent a blue tooth GPS receiver to add to our ever growing cache of electronic equipment. The way blue tooth technology works is based on the concept of no wires. It seamlessly connects things like a cell phone and a PDA without having to mess around with pesky wires.

A blue tooth GPS receiver basically turns your PDA into a GPS receiver. This is not a new concept, but previously, in order to do this, you would have to have a compact flash slot or some other type of cabling configuration to attach the transformation add-on device and the PDA together. However, now thanks to blue tooth technology, you can easily convert your cell phone or your PDA to a GPS receiver without any special cabling needs.

Making your PDA into a blue tooth GPS receiver is easy now that we have wireless technology that does not hinder our mobility or ease of use. All you need is an expansion slot for a memory card that will hold your maps for you and not take up valuable space on your unit. Bluetooth technology really pays off when using these devices as vehicle navigation aids. Wireless connectivity allows you to place the GPS receiver in a spot that has a clear view of the sky, while the PDA can be held or mounted for optimal screen visibility and easy access to menu screens.

When making your PDA into a blue tooth GPS receiver, ideally, it is a great advantage to have it already be GPS capable. That way, your compact flash slot is left free to hold additional information such as maps that include not only directions, but points of interest as well. Points of interest include hotels, restaurants, gas stations, and attractions for the places you will be visiting. If your PDA is not capable of becoming a blue tooth GPS receiver, you can buy an adapter that will go into your flash drive or other expansion slot and make it able to be used as a navigation aid.

We have a lot of electronic gadgets we use today that make our life easier – well at least that is what most people think. It only makes sense that we try to get as many uses out of these gadgets as possible which is why making your PDA into a blue tooth GPS receiver is a very good idea. It is one less gadget to haul around!

## Bluetooth GPS

One of the biggest advancements in technology is not only blue tooth, but also the addition of blue tooth GPS to the blue tooth system. Blue tooth technology is exciting for many people as it seamlessly and wirelessly connects all sorts of different electronic components such as a PDA and cell phone – all without the use of cables. Now, you can have a blue tooth GPS system connected as well.

Basically, what blue tooth GPS does is take the GPS device and sends a signal to your blue tooth wireless laptop or your PDA. The device is mounted inside or outside the vehicle and assures that you will be able to get where you are going without having a lot of cables and wires to deal with. You load in detailed maps and navigation software, connect wirelessly to the GPS device and you are ready to go!

The navigation software that comes with blue tooth GPS makes getting places easier than ever. All you do is enter the place you want to go and the navigation software gives you turn-by-turn directions and voice prompts you to your destination. If you get off course, the blue tooth GPS software will re-calculate your route automatically and get you back on track. Many of the blue tooth GPS systems also offer detailed street maps and points of interest along the way such as restaurants, hotels, gas stations, and attractions.

The wireless GPS receiver can transmit signals to your device up to thirty feet away with blue tooth technology. That is why having a blue tooth GPS system is so advantageous when on trips to places you are not sure of how to get from point A to point B.

It seems like we are hearing more and more about blue tooth technology, so it is only natural that a blue tooth GPS unit was bound to come out eventually. People have blue tooth phones, PDAs, and personal organizers, so why not also have a blue tooth GPS system too? It is a natural progression and has helped revolutionize the travel industry. Plus, it can not only give you directions, but it can keep track of your vehicle too if you are not driving it. Parents of new drivers love this and more and more are buying blue tooth GPS systems to install in their teens' vehicles so they know where their children are at all times.



## GPS Fish Finder

A long time ago, an enterprising inventor made the first fish finder to locate fish under the water while fishing. Now that we have new technologies, you can get a GPS fish finder that will improve accuracy in locating the big fish. If you have ever been frustrated while fishing knowing that the big fish are close by, but you just can't get them to bite, a GPS fish finder can be a great tool in bagging the big one!

Fishing is more fun when you are catching fish than trying to find them. The latest technology means that you can use sonar and GPS technology whether you are a weekend hobbyist or a tournament angler, in fresh water or on a boat out in salt water. Utilizing a GPS fish finder can certainly help you locate schools of fish and where you need to cast so that you can catch them!

The way a GPS fish finder works is it using GPS technology to pinpoint your location on the water. A signal is sent out from your GPS fish finder and it is locked into three or four of the satellites that orbit the earth to show exactly where you are. That signal is then sent back to the fish finder which produces a 3d image of the bottom of the body of water you are on. Once you have that 3d image locked in, the images of the fish will appear on your screen and you will be able to cast where they are.

Of course, a GPS fish finder is going to be a handheld unit, but it will have the same strength and accuracy as any other GPS unit. It will have an LCD screen where you can view your images and calculate the depth of the body of water you are on. It can show you where excessive undergrowth is at so you can steer clear of that and be able to pinpoint where the biggest fish are.

If you like to participate in fishing tournaments, you may want to check before you start if they allow you to use a GPS fish finder. Most tournaments look at these devices as an unfair advantage so they will not usually allow them, but some do, so be sure to ask lest you become disqualified.

For the amateur or professional angler, using a GPS fish finder can make the sport of fishing a lot of fun. Find a unit that will meet your needs and cast away!

## Look At What I Can Do!

With concern to military applications, GPS allows accurate targeting of various military weapons including ICBMs, cruise missiles, and precision-guided munitions. It is used to navigate and coordinate the movement of troops and supplies. The GPS satellites also carry nuclear detonation detectors which form a major portion of the United States Nuclear Detonation Detection System.

Accurate and to-date information on the location of the enemy as well as our own forces is one of the most critical information a military commander seeks. In today's fast paced electronic battlefield such information, if disseminated timely, can act as a major force multiplier. The dawn of the space age has led to the development of several dual use technologies, which find extensive application both in military and civilian fields.

Global Positioning System (GPS) is one such technology. Military forces the world over are using GPS for diverse applications both during wartime and peacetime. These include navigation, targeting, rescue, guidance and facility management. With war clouds looming all over the world, the US led forces are likely to showcase weapon systems, which rely heavily upon GPS for their accuracy and lethality.

Human beings have always looked towards the skies for navigation. Till today celestial bodies like sun and stars are used for finding out the directions. This assumes more importance if you are a soldier moving in unknown enemy territory. The significance of locating one's position in the world cannot be more important than for a soldier, as this could mean the difference between life and death, defeat and victory.

With the coming in of the space age, mankind has tried to replace these celestial bodies with artificial satellites so that navigation is possible both during day and night. Global Positioning System (GPS) is one such dual use technology, which has found extensive application both for military and civilian purposes in area of navigation and others.

GPS has given military forces the lethal combination of precision strike with adverse weather performance, standoff range, and operational flexibility - all at a low marginal cost.

There are really four things that are extremely important in a GPS system that the military needs it to be: accuracy, all-weather, easy-to-use, and portable. The GPS system currently in service meets these requirements fully except for the fact that ultimately it is a system run for the US military and if you happen to be their adversary then you may be in some problem as the power to introduce intentional error in the signal rests with them.

Although the US Department of Defense's policy of "Selective Availability" (under which intentional noise was added to GPS signals to make them less accurate) has been removed last year, its reintroduction is still in their hands.



## GPS Tracker Auto Satellite Images

Application has come such a long way with evidences in the latest innovation, development and use of GPS tracker car satellite images. What the GPS motorcar tracker does is help a person of a container that is transistorized with a GPS automobile tracker maneuver that will into the right point its literal positioning at any acknowledged direction in measure. On your command it executes causing an object to go using graphic dimensions. That way, you can manipulate your own road map. Extend maneuver time in turn meeting deadlines and lets you see where the container has been in the past. With GPS tracker motorcar satellite images, anyone who has installed one of these copy electronic gadgets to a vehicle can take note where it is at all times. Is this justifiable or is this a high-risk happening? I make bold it embodies a double-edged sword when you really reflect on it. There are advantages and disadvantages.

To statesman with, it is not much suitable word for criminals. If all cars were armed with these devices, then sight the GPS tracker auto satellite images can excerpt eat taken cars within proceedings with meet a few keystrokes on the machine, which would certainly bare defense officers spouting. For deceitful spouses, it is also an abominable phrase. Forerunner, to the creativity of these younger gizmos, you could track your car anywhere. And as lengthened that even your better half will not iffy wherever you trail him/her and his/her concubine were hooking up at. You could observe and expose the truth at seeing a shocking reality tantamount to a theatrical performance.

Furthermore, exhilarating news around GPS auto tracker field of study is that it can virtually be ill-used onto a vehicle within proceedings and that container can be detected most straight off. It's almost similar Crook Bond, wouldn't you say? But GPS tracker machine satellite images can be seen exclusive through two substance: special equipment geared toward the instrumentation or a machine. Of pedagogy, with laptop bailiwick, that means that people a container is casual with GPS tracker machine satellite images.

It is same a scene from a film: esoteric officer sneaks up to a container, slaps a attractable box to the side of a car and then returns to his or her own vehicle. Formerly the hazard vehicle leaves, the PI retributive sits and waits - perhaps tailing slow behind the car. With retributory a few keystrokes, the GPS tracker auto satellite images happen on the laptop display and the culprit is caught without incident. Breathless or alarming? You judge!

## GPS Tracking Systems: What's New

Are you a lover of the newest products on the market? If so, GPS tracking systems are continuously offering something new and amazing for your use. If you will be purchasing a product that allows you to do all that you would like it to do, then you probably will find it on the web. But, if you want the latest and greatest in the world of GPS tracking systems, consider your options listed here. You will soon see that there are plenty of fun and very cool choices for you to make.

- **Compact Flash GPS:** Are you looking for options for your laptop? Consider the newest features in these compact flash units. They are ideal choices for those that do not have a lot of time for problems.
- **Weatherproofing:** Some of the best of the latest technology allows you to do what you need to do without the worry of the weather interfering. This is ideal for your needs in boating or other hunting. Consider purchasing weatherproofed receivers, pouches to hold your unit in, as well as waterproofed/weatherproofed antenna. This can be the ability to use your GPS or to lose it.
- **Wireless:** If you would like to have your GPS tracking system to be wireless, there are plenty of options out there for that as well. Consider options such as Bluetooth which allows you to access all that you need to even when there is no way to plug in to the units.

Another thing to take into consideration when purchasing your GPS tracking system is the ability to purchase a system that will be upgradeable. You should be able to plug in and upgrade or to use specific software that is provided. Sometimes, this can be an additional cost, but if you want to have the latest data and technology, it is money that is well spent too.

To get the latest and the greatest in GPS tracking means investing money in order to do so. While the newest products are going to cost you more than the older models, it is safe to say that they add a bit more thrill to the unit and to using it too. In fact, being able to tell your friends that you have the latest is well worth it in its own right.

## **GPS Tracking Systems Do Many Jobs**

If you are in the market for a new GPS tracking system, you may not realize all of the functions that are provided to you in these units. Of course, you probably have just one use you are after from hunting to helping you to move around in your neighborhood with your vehicle. You should keep note of the fact that GPS tracking systems have many more functions too. How many ways can you use these units? It really can be nearly impossible to tell!

Here are some of the very cool reasons to purchase GPS tracking systems.

- Where they started: GPS tracking systems were just used in the military units a few years ago. Then, they were used to track the bad guy, to help with troop movement and to do many other tasks.
- The GPS tracking systems were then put in vehicles. One of the first and most common uses for GPS tracking is that of allowing a driver to see where he is and to track where he needs to go. These are even commonly sold today as part of the package for the vehicle.
- Dogs: Did you know that people are using GPS tracking systems to help in tracking their animals? If your pet gets lost, these implanted chips can help to find where they are. In fact, through a small injection, these little guys are always safe from running away.
- Migration. Today, scientists of all walks are using GPS tracking systems to help in tracking the migration of animals. By placing the trackers into the animals through an injection, they can easily see where the animal is moving to for quite a long time.
- Cell Phones. Giving your loved one a phone that has GPS tracking in it can help you to find them if there is ever an emergency situation. These units are quite helpful for rescue missions.

Of course, there are those other uses for GPS tracking systems as well. This will include things like hunting, fishing and hiking. It will include helping to track where your teenager is taking your car or where the unfaithful spouse is going every night after work. They can help those that are suffering from Alzheimer's to stay safe and even children that may be lost. With so many jobs for this one type of tool, you may be wondering how much it would cost you to add several of these to your life. GPS tracking systems allows us to be safe and to know what we may not otherwise know.

## Anonymous Cell Phone GPS Tracking

Cellular phones have become a basic commodity and as such almost everyone have a single unit at hand. Just by having a cellular phone, the compatible software, and a vehicle that has a built-in GPS (Global Positioning System) device, one may have anonymous cellular phone GPS tracking. By installing such a device on a certain sports utility car (SUV) or any type of vehicle, and upon getting the software to work on the cell phone, a person can secretly track the whereabouts of that certain SUV. The nature of Anonymous cellular phone GPS tracking is a concealed operation, however it is helpful for persons who want to trace the status of their vehicles. This will lessen crime offenders from hijacking cars. Parking lots are safer with this device on cars. Crimes will easily be solved such as kidnappings and car napping are concerned.

There are infinite chances for better law enforcement with regards to Anonymous mobile phone GPS tracking. Normally, it is easy to identify the vehicle used by an offender. There are data base that law enforcement use to make them out. However, to know the location and to try to seize that particular vehicle is much harder than in concept. But by attaching a small magnetic box to the criminal's vehicle that would allow the GPS signal to be sent to the mobile phone, the police is able to track the vehicle by means of anonymous mobile phone GPS tracking. With the aid of technology through the GPS system and the satellite network, pinning down a criminal becomes effortless. This implies a lower crime rate though out the world. All the hideouts of suspected drug lords or people under investigation can be tracked easily. The good thing about it is that this can go both ways. The suspect can be found to be innocent after all. Or if not it will incriminate the offender further as charged.

It is typical for parents to want to track the whereabouts of their children without having them knowing about it. This may not be in good taste, but somehow necessary in some cases. This is where anonymous cell phone GPS tracking becomes most valuable and applicable as a conspirator. Merely placing a GPS RECEIVE some where secretly in the automobile and install the applicable software on your cell phone. This will continuously send you important updates upon the location of the automobile via anonymous cell phone GPS tracking.

## Cellular GPS Locator Phone

On the GPS technology which is now highly-developed every minute by the day, we are coming up progressive uses for this outstanding advancement, and that implies that bearing a cellular GPS locator phone can constitute one of the leading instruments you are able to attain at your disposal. Numerous cell phone service are at present outfitting their freshest phones that has GPS technology could service you on your navigation necessitates in addition to safekeeping subsequently for your vehicle.

Not every mobile phones are cellular Global Positioning System locator phones. They should have the potentialities to obtain signals by the GPS orbiters that are revolving around Earth as to gather signals may be constituted to site a vehicle, present you guidance, and allow you entirely the avails that GPS technology extends. Once you're searching a modern cellular phone, you may prefer to study changing a mobile phone GPS locator in order that you get a lot more alternatives than with a normal phone devise.

All that needs to be done with a cellular GPS locator phone is download package to your telephone set that will grant you to retrieve a vehicle or fetch instructions to wherever you require to proceed. Naturally, you however require to bear a GPS device connected first on the vehicle. When you've attached the GPS gadget, after which download the software system, program it detects the gadget and you are set to function. The most prominent reward you get of owning

a cellular GPS locator telephone set is that whenever you possess a GPS device which doesn't have a inherent screen, you are able to still check where you're going past by merely looking at your mobile phone.

Among the means that masses employ GPS technology comprises guardianship tagging of motorcars. For anxious parents of new-sprung drivers, this can follow an eminent instrument since they question where their young teenage driver is. Although the teens might not wish it, the parents certainly do. In point of fact, one adolescent, on discovering the GPS device beneath the seat by his brand-new automobile pointed out that he felt breached. Only if teens understood why possessing this type of tracking device is crucial in order for their parents to proceed on trailing them, because they are worried.



Once you imagine completely the practical applications that a mobile phone GPS locator can render, you are able to assure how this keen technology can attain an easier living for numerous people – or perhaps a trifle of a rough-and-tumble for others. Which ever way, owning a cellular GPS locator mobile phone embodies a smashing way to begin assuming dominance from your life and driving.



## Cellular GPS Phone Software

It can genuinely be bewildering what engineering could perform nowadays, which follows are amazed with the cellular GPS telephone software system which can build your cellular phone to transform to a GPS contraption simply with an elementary CD-ROM. This software engages an unsophisticated cell phone to which is furnished with GPS technology into a Global Positioning System tagging gismo without going through having any specialized gear. That is thrilling for several people.

How come GPS technology so engaging for the techie masses? Substantially, since it acquires the dead reckoning out from moving around in the get-go. In addition, this appropriates anybody to recognize where your automobile is at whatever given degree in time. Considerably, that could beam threat into the cores of men who are equal to good-for-nothing, merely police enforcement indisputably values it! In any event, the finest function about GPS technology embodies granting mobile phone GPS locator software compatible with any cell phone device making it into a high-tech tracking gimmick with just a line cord and a disc.

As you truly recollect on the amazing significance that could occur with this technology, you plausibly will shortly see that there are entirely all forms of applications that may be carried out with GPS which draws us rightfully and wholly successful into the 21st century. It is nearly as though it's one of "James Bond's" gismo whenever you consider time to totally conceive what GPS performs. It searches a vehicle with precise accuracy and continues track of that automobile the whole time it's being supervised or tagged.

What follows is even more proficient with the mobile phone technology, you will be able to exact any mediocre cell phone, provided that it is well-matched with GPS and construct it into a trailing device. A lot of times, you will be able to acquire a mobile phone with GPS software system on it. This device will make your mobile phone into a movable GPS system device. This is particularly facilitative whenever your fresh GPS gadgets doesn't bear an LCD screen which will display you a correspondence which you will be able to pursue. With barely a cable cord and a couple of keystrokes, you are able to bring in your mobile phone into a dead on target and dependable GPS system that you'll bask in having with you each and every time!

In essence, cellular Global Positioning System phone software constitutes among the leading development in the GPS science. Whenever you do not prefer to purchase a fully-packed GPS device, but prefer to have admittance to the cutting-edge GPS technology, progress to building your mobile phone into a GPS receiver. Cellular GPS phone software, is more well-situated than you imagine. Gamble and fool around. You could be goggle-ey be goggle-eyed at what you find out.





## Cellular GPS Phone Tracking

One of the greatest advancements in GPS technology is the ability to make your cell phone into a cellular GPS phone tracking device. Basically, all you need to do is obtain some software to give your cell phone the capability to read the signals that come from your GPS device and show them on your cell phone. Cellular GPS phone tracking is made easy these days because people want convenience and most people use their cell phones every single day. If you are able to utilize your cell phone as a GPS tracking device, you are doing double duty with none of the expense and all of the convenience.

If you want to use your GPS system as a tracking system, you can make cellular GPS phone tracking a reality with the aid of software that makes your cell phone into a GPS tracking device. Essentially, what happens is that you get a cell phone that is equipped with GPS technology and then download the software to your phone and you can have a tracking device that uses GPS to keep track of your vehicle no matter where you are.

This type of cellular GPS phone tracking can be very useful in many ways. With just a simple cell phone and a simple disk with the appropriate software, you can keep track of almost any vehicle as long as it is equipped with a GPS tracking device. The vehicle will send a signal to the space satellites which will then send a signal back to the device. To have a Cellular GPS phone tracking system, you can then know where the vehicle is at all times.

What types of uses can this technology give you? Well, actually, the applications are endless. The first utilization of having cellular GPS phone tracking is when you have a teenage driver. When you equip your teen's vehicle with a GPS device, just pull out your cell phone and you can know where they are, when they got there, and even how they drove on their way there.

Law enforcement and private investigators love the thought of cellular GPS phone tracking because it makes their job much easier. All they need is a software program and a cell phone and they can find whomever they need to with little to no effort. There are so many applications for cellular GPS phone tracking technology that it can really revolutionize the industry of law enforcement as well as just everyday people.

## International GPS Cell Phone

Yes, it is the age of science and technology, advanced computerization and electronic road maps – what you thought would be a dream seen only in secret agent 007's movies is actually a reality today with the vehicle GPS system and even the intelligent mobile phone with GPS fitted for traveling abroad with ease of a talking road map! For, that is exactly what the international GPS mobile phone is all about – enabling easy navigational aid via the knowledge it gains from various satellites in space, which it transmits to the user so he or she knows just how to get from point A to B or even further on, in a matter of minutes.

Initially developed for the American ministry of Defense, the GPS system was later released for the public use also as it was a boon for senior, single or teen drivers besides parents and spouses wanting to keep a track of the whereabouts of their family and property, namely their precious set of wheels. Guided by the global positioning satellite in space, the magnetic navigation system which was formerly fitted on vehicles to update drivers about their position on a certain route or to tell the owner of the car where the car has been or is currently located, the GPS is an advanced system contained in a small box but big on features.

Whether this is mounted on the car's dashboard or beneath the carriage, the auto navigation system helps direct the driver to track the vehicle's location and future routes to take, depending on the command prompt instructions asked for by the driver. In much the same way, the international GPS equipped cell phone works to update the mobile user about where he is located currently in the scheme of a given travel plan and the destination info having been fed in, so it guides the user towards the last point through various set-routes.

The international GPS fitted cell phone offers the unique and convenient advantage of being a ready and accurate travel guide for the person traveling to a foreign land and sometimes, many international holiday makers, students or business travelers purchase the international GPS cell phone for an important trip, especially when going to an exotic locale. This electronically guided cell phone with GPS mechanism is not only far more convenient and space-saving, but always eliminates the fuss of handling paper maps, guide-books and other hard copy versions of directions that can be easily torn or fly-away – something that is not likely with the mobile navigation system of your international cell phone, now, is it? Not only is the mobile navigation

system of the international GPS cell phone compatible to foreign languages, it also allows for multiple uses for the phone itself – emailing, making phone calls, playing electronic games, taking photographs and videos, making audio recordings and even storing new data – all in a compact size that is easy to carry with you on any foreign trip!

You can even make your regular cell phone GPS compatible, though it does pay to do some research on the cost factors this may entail for you – so, do enquire the same from your cell phone company before heading off to some pretty, foreign locale.



## GPS Cellular Phone

Many cell phone companies are starting to integrate GPS technology into their programming systems, so it might be advantageous for you to look at a GPS cellular phone so you can integrate the GPS system that is in your vehicle with your cell phone and synchronize the two of them together for maximum potential. Essentially, what you need with your GPS system in order to make it work with your cell phone is a software program that will send the GPS signals to your cell phone and allow you to read the GPS signal by just looking at your cell phone.

There are a lot of GPS cellular phones available on the market today. Cell phone carriers are getting on board with GPS technology and realizing that their customers want the ability to utilize GPS information right from their cell phones. That is an amazing development when it comes to cellular providers. Way “back in the day”, all you could do was have a cell phone installed into your car. Handheld phones were known as brick phones. But today, we have flip phones, little itty bitty “barbie” phones, and Bluetooth technology that lets us connect to the world without cables and easier than ever.

It only makes sense that cell phone companies would start providing their customers with a GPS cellular phone to help them with navigation problems – or solutions! Now that we have the iPhone, this technology has gone even a step further as this new amazing device does everything but cook your dinner for you. But the iPhone really does integrate GPS technology making it a true GPS cellular phone.

When you have a GPS device in your vehicle, it sends a signal to the satellites that are up in space that can pinpoint your location. With special software, you can make your cell phone into a portable GPS system and you can keep track of your movements and know where you need to go without having to have any special equipment. A GPS cellular phone is a great way to make a simple piece of equipment that you use everyday into something new that you will be able to use whenever you need it!

If you have a GPS system in your vehicle, check to see if you have a GPS cellular phone that will be compatible with your existing phone service. If not, ask your cellular carrier if you can



upgrade your phone to make it GPS compatible and explore all of the options that will be open to you when you get a GPS cellular phone!



## GPS Tracking Systems: Mapping

GPS tracking system mapping options are many. Did you think that you would walk into a store and just pick one up? Do your homework first to determine what all of your options are in the GPS unit that you purchase. One thing to consider is that of the type of mapping that the unit offers to you. You will see that some options may not be suitable to your needs but others you may be wondering how to get your hands on. Since all GPS tracking systems work through the use of satellites, there is no doubt that you will find benefit in any of these mapping abilities.

GPS tracking systems offer several types of mapping for you to select from. Some units will offer multiple choices on the one unit. Others will be specialized for one use. In any case, you will want to determine the real need that you have for the unit and then notice how appropriate one unit is for your needs. Here are some things to consider.

- Street maps. These are ideal for the use of navigation through a city or on a longer journey. In high density areas such as an urban area, you will want to look for WAAS reception as this will provide you with more intricacy. Even better is SiRF Star III Chip Set which allows you to get even better accuracy in dense areas.
- Nautical Maps. On the high seas or the neighborhood stream, having the ability to know where you are going and to find that small little cove where all of the fish are located is a great way for you to use nautical maps. These units will provide you with a good amount of sight into areas that are not charted. Some will download up to the minute details for you to use.
- Topographic Maps. How about knowing the hills and bumps in the road before you get them?
- Aeronautical Maps. If you are flying your favorite little plane, these are ideal tools to keep with you. You will love them when they tell you where you are heading with accuracy.

The various maps in the GPS tracking systems are meant to provide you with as much detail as you can. Not all that offer these maps are of the highest quality though. If you would like a detailed, high quality product, consider purchasing a specialized mapping system. If you just want an overall high quality product, it is okay to select something with multiple uses.

## GPS Maps

Especially when visiting new cities or on a by-road journey to new countries, taking an unfamiliar by-pass or highway route, the GPS system is a boon of advanced technology and mapping experts that is welcomed by drivers of personal vehicles as much as it helps cargo drivers reach their destinations on time. All the negotiations of which turn to take after the present one, how to alter routes if there is extra traffic/bad road conditions on a particular one and which landmarks they can expect to pass by when they reach a crucial juncture in their driving, are all points covered by a reliable GPS system.

Coming to the point of the GPS system being a driver's buddy, it actually is so, because it is packed with verified information and pre-loaded with GPS maps that work much like mother-in-laws (or, say, the regular back-seat driver) – albeit, with less sarcasm than this lot! On a more serious note, while the pre-loaded maps are helpful for many different locations, they may not always carry the updated information on the particular spot you intend to journey to or have inadequate information beyond a certain region. This is the limitation of pre-loaded maps; however, with it comes to GPS maps, there is no dearth of options!

You can download GPS maps to your newly purchased GPS device, which works to beat the limitation of pre-loaded maps, especially useful when you are traveling to a new place as this enhances the scope of use of your driver's support gadget.

Thus, basically, the purpose of GPS systems is to act as a navigational aid for drivers and these are especially useful for seniors, those on a mission, travelers and single women, who may find it difficult or unsafe to stop mid-way to ask for directions as this can leave them open to many dangers, including the threat of stopping on a highway or switching lanes midway. Having access to an advanced and accurate GPS system also eliminates the need to stop driving during nightfall to ask for directions as the pre-loaded bunch of maps chosen for the possible routes for a particular region cover most probabilities for turns, bends and change-over directions for the same, thus saving one the hassles of folding or losing the paper maps, which are cumbersome too – not to mention irritating to locate if they fly-away or tear.

Besides the convenience and elimination of fly-away aspect of traditional paper maps for driving and navigation aid, the advantage of superior and reliable technology as contained in the

electronic, computerized GPS maps is truly wonderful, which everyone enjoys using as it's akin to having your own personal road-guide. Not only does the GPS system help make travel easier, but it also empowers drivers to drive safely, reach destination spots in time and with minimum hassles!





## GPS Map Co-ordinate

All points on Earth are located with coordinates of latitude and longitude and when you have a GPS unit, it will show your GPS map coordinate with extraordinary accuracy. When the signal from your GPS unit is sent up to space and hooks up with the satellites that are part of the Global Positioning System, those satellites will map out your specific coordinate and then send a second signal back to your receiver. That's how the GPS system knows how to provide you with directions – through the GPS map coordinate obtained by the satellites.

Early versions of GPS systems required you to enter in map coordinates by hand. This proved bothersome for a lot of people who were not familiar with the coordinates of their location and clueless as to how to find out. Then manufacturers and technology stepped in to make finding GPS map coordinates automatic and requiring no knowledge of map coordinates at all. When you enter your destination into your GPS unit, not only will it find where you are, it will find where you want to go. Then the GPS unit will receive the GPS map coordinate of your intended destination and guide you there effortlessly.

Of course, if you are the geographical expert, you can still enter in a GPS map coordinate, but when it can do it automatically, as it was designed to do, there really is no need. That's why a GPS unit is such a handy tool to have on hand when you are traveling to unfamiliar destinations. Mapping out your trip is a good start, but the GPS unit does it for you by finding the GPS map coordinate of where you are and where you are going.

Most GPS receivers can give your GPS map coordinates with incredible accuracy, and virtually all of them have built-in base maps that include city and street information, points of interest, landmarks and more. Most GPS systems can also update the maps by downloading the latest information from a variety of mapping programs. With these mapping programs, the GPS map coordinate of several different landmarks and destinations are pre-programmed giving you the ease and convenience that the GPS was designed to do.

Because the GPS system operates solely on the coordinate system of latitude and longitude, it can be helpful to have a little information about what exactly these locations are. However, the GPS map coordinate is found automatically when the unit is turned on, so why even bother?

Just enjoy the ease and convenience you get with your GPS unit and travel with peace of mind.



## Take A Left At The Red Barn!

Almost all GPS receivers come equipped with pre-loaded maps. However, these maps are not always what you need and/or want. That is why you will want to check out resources that will give you additional maps. And there are plenty of ways to get additional maps for your GPS.

The most essential function of a GPS receiver is to pick up the transmissions of at least four satellites and combine the information in those transmissions with information in an electronic almanac, all in order to figure out the receiver's position on Earth.

Once the receiver makes this calculation, it can tell you the latitude, longitude and altitude (or some similar measurement) of its current position. To make the navigation more user-friendly, most receivers plug this raw data into map files stored in memory.

You can use maps stored in the receiver's memory, connect the receiver to a computer that can hold more detailed maps in its memory, or simply buy a detailed map of your area and find your way using the receiver's latitude and longitude readouts. Some receivers let you download detailed maps into memory or supply detailed maps with plug-in map cartridges.

A standard GPS receiver will not only place you on a map at any particular location, but will also trace your path across a map as you move. If you leave your receiver on, it can stay in constant communication with GPS satellites to see how your location is changing. With this information and its built-in clock, the receiver can give you several pieces of valuable information:

How far you've traveled (odometer)

How long you've been traveling

Your current speed (speedometer)

Your average speed

A "bread crumb" trail showing you exactly where you have traveled on the map

The estimated time of arrival at your destination if you maintain your current speed

That's why having plenty of maps at your disposal is such an important tool of having your GPS receiver do what you are wanting it to do. When you have a GPS at your disposal, you can be assured that you will be able to get from point A to point B with little problem. Most of the



modern GPS systems have voice capabilities that will provide you with verbal directions that allow you to concentrate on your driving.





## Mexico GPS Map

Yes, indeed – acquiring the knowledge of road travel routes, how long it will take to get from point A to point B in the unknown land and which is the best or shortest route to travel to the destination are all contained in the modern GPS mapping system you can easily affix to your car when headed towards Mexico. For those living in the US, going to Mexico is just a matter of a few hours as the countries share borders with each other and the problem of illegal immigrants has always been a hot issue for debate in the US; however, with the easing of international travel laws and understanding between the two countries, traveling to Mexico with your own car is no longer a crime or a trip fraught with hassles.

You can cut back on the cost of hiring a guide or learning basic language skills if you don't understand the local language spoken in Mexico and feel you may need to ask for directions when you get stuck at a turn; now, all the directions you need from a road map are easily and electronically communicable to you when you pick up a GPS system. This is a device that was initially developed by the US for its Defense Ministry but later on launched for public use as it was seen to be helpful for seniors, family travelers and teen drivers alike.

A magnetic box that can be fitted to the dashboard of a car or under the carriage, the auto GPS system is linked to the communication of space launched satellites and updates the driver/owner of the car (even if remotely located from the vehicle) about the position of the car currently as well as the past road history besides also giving directions from a certain point on the given map to another contained in the electronic map of the region as fed into the GPS system. Modern technology has enabled even international GPS cell phones to function along the same lines and act as mobile navigational aids, which makes it especially useful for the owner intending to make a foreign trip, such as a holiday in Mexico!

Exotic locales and unknown locations are not something to get overly anxious about as the international network gained by the cutting-edge technology contained in the latest GPS map system cuts across geographical borders and alien territory to grant the user accurate and reliable information for determining on-road position as well as future trip-planning, including details of landmarks they will be passing and the distance covered besides suggesting alternate routes.

If Mexico is where you've decided you're going, then you can purchase 2 or 3 GPS maps to the country and pre-program the destination information into your GPS device so that the global positioning system has all this well-researched and updated information about your destination already uploaded in the system and you can access this at the click of a button! Now, travel to a foreign country doesn't get easier than this – does it?





## Lake Of The Woods Ontario GPS Maps

Lake of the Woods is located in Ontario, Canada. And it is advantageously keyed out among fishermen. Therefore having the GPS maps for the Lake of the Woods lake is a conformable purpose for you to use when you are planning a sportfishing vacation to this stunning ecosystem. You will be able to get any wonderful fish at Lake of the Woods including walleye, smallmouth vocaliser, and muskie. In addition to the superior fishing, this lake gives travelers a labyrinth of islands, bay, and scenic shoreline that worthy impart to the quality of this picturesque topography .

Because there are so some places to explore here, making headway your GPS gizmo along with you on your junket is a great aviation. That's why you submit necessary information to tell the difference and separate others from lake of the woods lake GPS maps at your direction while there. Your maps should include careful info including points of deviation equivalent hotels, restaurants, gasoline posts, and precise attractions to be able to deliver clean-cut data directions from your starting point to your destination.

You can map-out the Lake of the Woods lake GPS maps and keep abreast on areas where you are not familiar to circuit. Then when you get there, you will match meticulous elaborate directions that can escort you along the way. The final objective you need to do is not to get helpless on a slip-up similar to this. You also won't require to lack out on anything that you have to control. The finest innovation about having Lake of the Woods lake GPS maps is that you can pre-program your GPS system to support any search that you want previous to leaving for your adventure. Then, at one time once you get there, everything that you need and all the content you require you can chance lake of the woods Ontario GPS maps. And the internet is a wonderful establish a starting point. There are dozens of web sites that allow you to download detailed maps for boundless terrains for your computer. Then, all you have to do is upload them to your GPS map device using the framework provided on your device. From instructions, you could get lake of the woods Ontario GPS maps, but why would you have to do that when you can get them for atrip?

Being ready on a vacation very much like the one you possibly consider, lake of the woods, is an appropriate measure. You don't have to fail to miss anything and having lake of the woods lake GPS maps is a major investment to set out for.

## Auto GPS System

Though the theory and engineering of Global Positioning Satellite schemes was earlier evolved for militaristic diligences by the US Department of Defense, it has lately been nominated accessible worldwide publicly. At present you will be able to acquire a car GPS system apparatus easily and promptly to support you along course when traveling. This car GPS system is getting progressively common with consumers. It can be detected in numerous brand-new vehicles as a basic add-ons.

An automobile GPS system installation is fundamentally a GPS receiving system that is affixed on the to portion dashboard in any car. Then, you input into it's database the address you are going to. The apparatus will generate for you gradually instructions to your – oftentimes audio frequency directions. Gone are the days of inconvenient paper maps and debating over to or not to inquire for directions at passersby. Nowadays, everything you require to have is an automobile GPS system set up and you are totally geared up to move around wherever you please.

The car GPS scheme acquires its signal from 4 out of 24 potential orbiters that are perpetually revolving the globe. The receiving system deciphers the location's data onto map data file stored active in the unit, to present an up-to-the-minute locations on the map likewise past trails. The receiving programming system over and over again computes position, generating actual time location. A distinctive car GPS system carries:

**A receiver of 12-channel** - the caliber of the receiver influences how lengthy it simulates for the gadget to gain a 3 dimensional fix.

**Transmitting aerial to seize orbiter signals** - placed to fetch a clear sight of the sky.

**Central processing unit** to work on the data and decrypt map locations

**DVD disk drive** - maps on videodisk or useable internet software then uploaded and stored. All but more low-priced units don't upload the maps, simply cite them forward to the CD or DVD .

**Showing Screen** - generally in color on portable units employing black-and-white

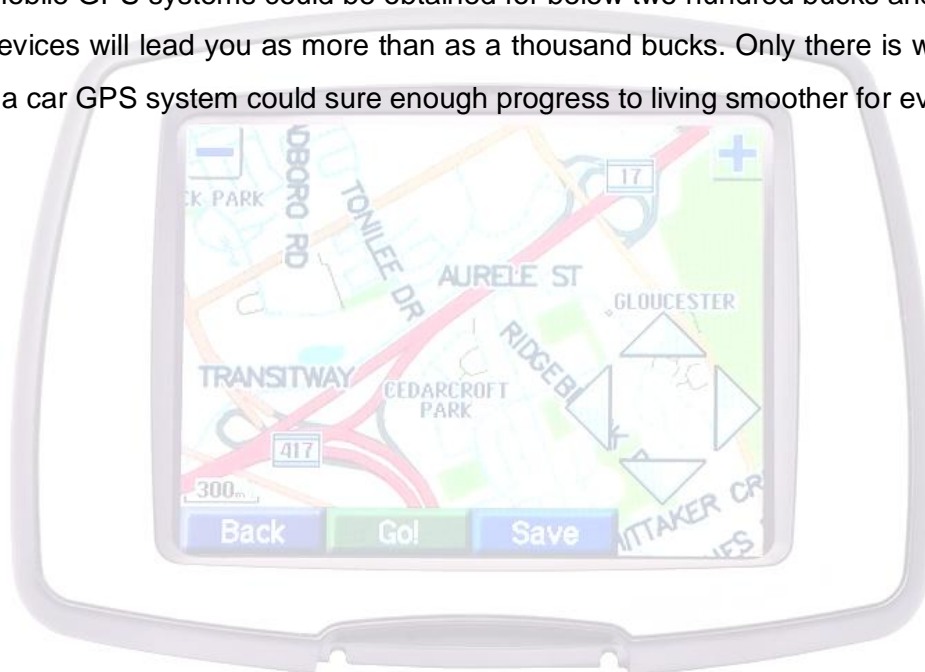




## Voice user interface - more innovative units

The initial time you commence your car GPS system, its information memory is empty. So it involves accumulating satellite data to regulate your spot. This represents for a cold kickoff. A few units simply adopt thirty to forty-five seconds to gain a three-D set up on a cold kickoff, although for some may take more minutes. Consequent location updates alone calls for three to four seconds. Whenever you leave from range by falling behind line of sight, much when passing down a colossal construction or direct into a tunnel, a dependable receiver shall at once regain, whereas less effective units involves additional time to retrieve a 3D touch on.

Nowadays, auto GPS schemes are not every bit as pricey as you imagine they could cost. A lot of the automobile GPS systems could be obtained for below two hundred bucks and the several jazzed up devices will lead you as more than as a thousand bucks. Only there is without doubt that owning a car GPS system could sure enough progress to living smoother for everybody.



## GPS Auto Tracker

Numerous parents and haunted adults are utilizing the new profession that is included in a GPS machine tracker system. Essentially, a GPS automobile tracker grouping module remain belt of where a container is at any instance. Not exclusive can a GPS machine tracker present where a vehicle is in the inform minute, a logging method in the software also lets you see where the object has been. There are level GPS automobile tracker systems out there that can tell you how the wood of the container is or has been driving the car or pushcart. It is amazing discipline and has umteen, many uses.

The intention of the GPS machine tracker is especially galvanizing for parents of immature drivers. With this bitty little opus of equipment, parents cognize where their children are, and can swan where they change been. They bed if they get been move, passionate out the tires, or doing anything else that strength be construed as idle dynamic behavior. Of teaching, teenagers might not like the purpose of GPS motorcar tracker because they can no thirster "move the wool" over their parents' eyes as to where they are effort or where they bonk been, but it sure can take time of care to worried parents.

GPS automobile tracker is also cooperative for transaction car fleets as surface as motor truck fleets and regularize car lots. Since the GPS auto tracker knows where a container is at all times, it could effectively contact out the job of stolen cars. Handcart drivers can be placed wherever they are which can amend with pinpointing conveyance times, and car lots can e'er say where a container is during a prove journey. Essentially, what GPS motorcar trackers can do for enterprise is ameliorate fecundity, accountability, dispatching efficiency, routing and such writer.

All GPS motorcar tracker devices are run as orbiter supported pilotage systems. They utilize the field of different satellites we get dispatched into space for various uses and applications. With these satellites, we get orbiter telecasting, can rail withstand, and still find vehicles on the agency with the halal equipment and software. In umpteen states, you can also prepare for lour automobile contract rates when you person a GPS motorcar tracker installed on your car. That incomparable can be a extraordinary asset.



A saving GPS auto tracker can run in value anywhere from two hundred fifty USD to five hundred UDS and can easily be installed in a container. Any of them uprise equip with the noises to road the vehicle's advancement online which is an added plus. For peacefulness of knowledge and commerce module, effort a GPS auto tracker really is a cracking intent.





## GPS Vehicle Tracking System

The GPS – or global positioned satellite system is something that may appear to be a fantastic device right out a sci-fi thriller, but actually there is a lot more practical utility to the device than simply an exciting name. It may look much like something secret agent 007 would carry, but today's consumers owning vehicles and with a road-trip to make can actually swear by the ease and added functionality to their driving experience that the GPS system in their cars has provided them. Not only can a car owner letting a driver or another family member using their vehicle keep a tab on the vehicle, but also know exactly at what time the vehicle passed by specific places.

All these things, besides giving road directions to the destination point via different routes, highway speed limits and town speed limits etc. are updated to the driver of the car that is equipped with the modern road-map information system, also known as GPS vehicle tracking system. Since one also gets to know where the vehicle has been, the utility of the GPS system is even further enhanced when it comes to checking for the fuel average of the car, cross-checking if the driver or spouse is telling the truth and know exactly how safe the children are with the new care-givers who may be driving the car.

Besides the above scenarios, even when giving the car out to a teenager or a relative/friend, it is easy to know what they have been using it for with the vehicle fitted with a standard GPS system; this allows vehicle owners to lend out or use their vehicles with greater peace of mind and know the person driving it won't get lost or run out of fuel, since the GPS helps with both navigations and updates on the car's condition.

The above advantages are the unique selling points of this great new-age invention of the 21<sup>st</sup> century, namely the GPS tracking system for vehicles. It works on a satellite based network that picks info from different satellites sent into space for photographing and displaying the information about various world events with minute by minute details.

Since these satellites also provide information and images to TV, Internet and Weather updates, it is a guarantee that they will also provide accurate and up-to-date information about tracking road routes, preventing auto-thefts, children's safety and that of a lone driver on a highway/unfamiliar city etc at any time of the night or day.

It also tells the owner of a vehicle about the past road-history of the car, so this makes the GPS system's scope exciting and applicable to many different uses, including police help.



## **GPS Vehicle Tracking Systems (Continued)**

Have you ever wondered exactly where your teenager is going at night when they go out? When you equip the vehicle they take with one of the newer GPS vehicle tracking systems, you won't have to wonder anymore. GPS vehicle tracking systems are small devices that attach to a car and can tell you exactly where that car is at any given time. Some of the devices even allow you to track where the vehicle has been and even how the driver was driving.

GPS vehicle tracking systems have opened up a whole new world when it comes to law enforcement and private investigation work as well. These small, remote devices can be attached to a vehicle in a matter of minutes and the vehicle can be tracked remotely through special software programs. Basically, you download the software to your computer and then the GPS vehicle tracking systems send back a signal to you that tells you where a car is at any point in time.

What this technology means for law enforcement is that they can keep track of vehicles involved in habitual crime. For private investigators, it can help rip open cases of spousal infidelity with little chance of error. GPS vehicle tracking systems have revolutionized crime prevention and apprehension. It can even be detrimental to car thieves as vehicles with GPS vehicle tracking systems can literally be found within minutes with a few keystrokes.

Another great advantage of GPS vehicle tracking systems is helpful for worried parents of new teenage drivers. Just think how wonderful it would be to be able to track your child's car when they leave the house. You can see if they are going where they say they are going. You can see where they are at all times. With certain types of systems, you can even see where they have been. For nervous parents, it can really give them a steady piece of mind.

GPS vehicle tracking systems are available in many places, but keep in mind that technology like this is not especially cheap. These systems utilize space satellites to bring us these services. These satellites are the same ones that give us television, internet, and even the weather. So expect to pay somewhere between \$250 and \$600 for a good version of GPS vehicle tracking systems.



The options you choose to include will make a difference as well. For example, you can have access to the vehicle location directly on your home computer which will cost more. However, GPS vehicle tracking systems can be a wonderful tool to use in so many ways, so be sure to check out these new little devices not only for piece of mind, but for safety as well.





## GPS Live Vehicle Tracking Device

Technology has given those of us here in the twenty-first century an amazing tool – the GPS live vehicle tracking device. Utilizing satellite network signals from the satellites we have sent into space, GPS technology has allowed for the creation of a GPS live vehicle tracking device that can be attached to any vehicle so that you can keep track of where that vehicle is at any point in time.

A GPS live vehicle tracking device is a small little piece of electronic equipment that is placed someplace inside a vehicle – usually on the under carriage – and allows another person to track the vehicle live as it is traveling from place to place. Sometimes the GPS live vehicle tracking device is installed inside the engine and sometimes it is enclosed in a magnetic box that is simply attached to the bottom of a vehicle. The latter device can be attached within a matter of seconds without the vehicle operator even knowing about it which makes it an ideal device for law enforcement or a private investigator.

The vehicle tracking device comes with software that is installed on a personal computer. Then the device emits a signal that is sent to one of the satellites that we have launched into space over the years for a variety of uses. The same satellites that give us television, internet, and weather reports, can also see where our homes and vehicles are located. So the device emits the signal that goes to a satellite and another signal is sent back to the computer that has the address of the device. At that point, the computer user can see exactly where a vehicle is through the GPS live vehicle tracking device.

Once the computer user has a track on the vehicle, he or she can find out exactly where the vehicle is going turn by turn. Some devices also allow the user to see where the vehicle has been previously and can even show how the operator of the vehicle has been driving. For parents of teenagers, this is a great thing so they can keep tabs on their new driver and have some ammunition to have a serious talk about safe and responsible driving.

The most exciting part about a GPS live vehicle tracking device is the way it can help out with law enforcement and discourage vehicle theft. Plus, officers can also attach GPS live vehicle tracking devices to cars that they believe are involved in habitual illegal activity and be able to



find them within a matter of minutes instead of physically having to track them. It is exciting technology!





## Disabling A GPS Vehicle Tracking Device

We learn about the nature and scope of an advanced technology GPS vehicle tracking system here: Touted as the best, most fascinating and driver-oriented computerized device, the electronic road map detail containing GPS system is a boon for all those on the road, especially if they are uncertain of a certain terrain as the system is packed with vital and accurate information about road-routes, alternate routes, speed limits, landmarks, distance readings, memory back-tracking etc. to let a vehicle owner know just how to get anywhere.

But, why would anyone want to disable their GPS system, you may be wondering? We don't blame you for thinking this could be an alarming thing for you to deal with considering this device helps secure your vehicle and the user in many ways.

Let us first understand the nature of the GPS system to comprehend the reasons for anyone wanting to disable it: the geostationary positioned satellite helps track vehicles for the owner, who can do so from a remote location as well and with the speed of a computer – less than a few minutes. This helps retain the peace of mind for the owner who may have loaned the vehicle to someone, wants to keep track of where the driver goes when sent on an errand, if the teenager with a learner's driving license is safe on the road-trip or whether he is on the right track when driving cross-country. All these are different but very common scenarios that a standard GPS system can help give information regarding the car's whereabouts to the owner sitting elsewhere.

Sometimes, people are suspicious of new technology which they can't get a hang of, especially old-timers or the while they are keen on buying the latest model car from the showroom, they may hope to get a discount on the final price by doing away with some of the bells and whistles so they ask for the GPS system to be disabled.

But, most new auto-buyers will be rest-assured of their big purchase being safe with the GPS system in place in the vehicle as not only does this act as an on-road guide, giving tips and updates on different aspects of driving, but it also acts as a reliable theft deterrent, so helps reduce insurance rates for car-owners. This is because with the easy availability of so many GPS fitted cars today, most insurance companies offer discounts to policy holders with GPS on their cars since it is an effective anti-theft protection.

Another scenario, which is not very pleasant to consider but happens all the time is the case of a cheating spouse or lover who may want to disable their GPS vehicle tracking system as they don't want their partner to know where they've been to i.e. with the other person. Teenagers not comfortable with all the checks up on them by over-bearing parents wanting a minute by minute update on where they've been may also want to disable their GPS system in the car as this may be looked upon as overly intrusive and an invasion of their privacy.

But, the unfortunate part is that the GPS system can't be easily disabled as it needs to be completely removed from the placement below carriage; if this unique magnetic box is located elsewhere, you'd best consult with a mechanic!





## **PDA GPS Software**

We cover the latest and best technology news from the US and the world over for you here and today present the convenience and cutting-edge utility of the PDA GPS software system that many lust after and few can afford, but the makers assure us many budget-friendly models will also hit the market soon for meeting global consumer needs for the latest and best global positioning satellite information conveyed to users through their PDA systems.

So, what is the hoopla all about, you may as well ask? Well, as you may know the PDA is a personal digital assistant and also the techie's term for a hand-held computer, which has seen many improvements down the years. Advancements in technology have helped the general public in the US and elsewhere in the world to have access to this neat navigational device that has also been made mobile for convenient use anywhere (besides the initial US military use and auto-tracking system it was developed as) to figure as an accurate and reliable way for tracking where your vehicle is at anytime and also to act as a travel guide when in exotic, new locales e.g. during business trips or holidays in new countries.

Thus, the main purpose of a PDA GPS system is much the same as the traditional and standard GPS or global positioning satellite device, which helps one keep track of the location of a vehicle, directions to the destinations including landmarks and distances or alternate routes available to the driver etc. making driving easy and less of a chore like it was in the days of only paper road maps. The PDA is a sophisticated GPS support device and it can be made so with the uploading of specific software that transforms it into a GPS system easily and effortlessly.

You can explore the possibilities offered to you by the PDA you currently use and check for this added functionality on your personal digital assistant (PDA); much as it is a mini-computer, the PDA scope has grown over the years to accommodate different uses for the purpose of calculation, using as a clock and calendar, granting Internet access, sending and receiving E-mails and documents, making video and audio recording, activities like typewriting and word processing, playing games, music or writing spreadsheets in addition to serving as advanced Global Positioning Systems. Since many PDA's employ touch-screen technology also besides allowing access to the Internet, there is endless scope for using these through intranet and extranets (WiFi or WWANs) to get updated information for travel purposes.



This eliminates the need for the owner of the PDA GPS software device to purchase different gadgets for various purposes because the latest PDA systems combine a host of features that can be easily updated for use, with simple software applications added to the device. The PDA reminds you much like a personal secretary while the GPS feature helps track the location of your vehicle, gives directions for safe and quick travel besides simplifying your life. Trust the guys at Microsoft to be the first to offer the perfect travel-mate for the PDA owner looking to combine GPS features into their palm-comp: they currently offer Windows Mobile that can be installed to the PC and downloaded on to the PDA so it becomes an efficient GPS system, efficiently and quickly.



## Free GPS Software

Believe it or not, you can find free GPS software on the internet that can turn your cell phone or PDA into a GPS tracking device or navigation aid. Of course, you will need to have a GPS receiver in or on your car that the software will be able to read and then transmit the information to your personal computer or PDA. The software helps you locate a vehicle or give you directions to get to a destination.

With some of the free GPS software, using your mobile phone or PDA, along with your GPS receiver, you can record and view your movements in detail on Google Earth or Google Maps. You can even use the free service for live tracking using Google Earth or Google Maps. Download of the GPS software as well as use of the website, is completely free (and there are no future plans to charge for this either). The web server also retains all the data you've ever recorded and submitted, so you can always go back and view your older recorded data at any time.

Some of the more popular free GPS software programs include:

**3d Tracking**

**Amaze**

**Cetus GPS**

**Earthcomber**

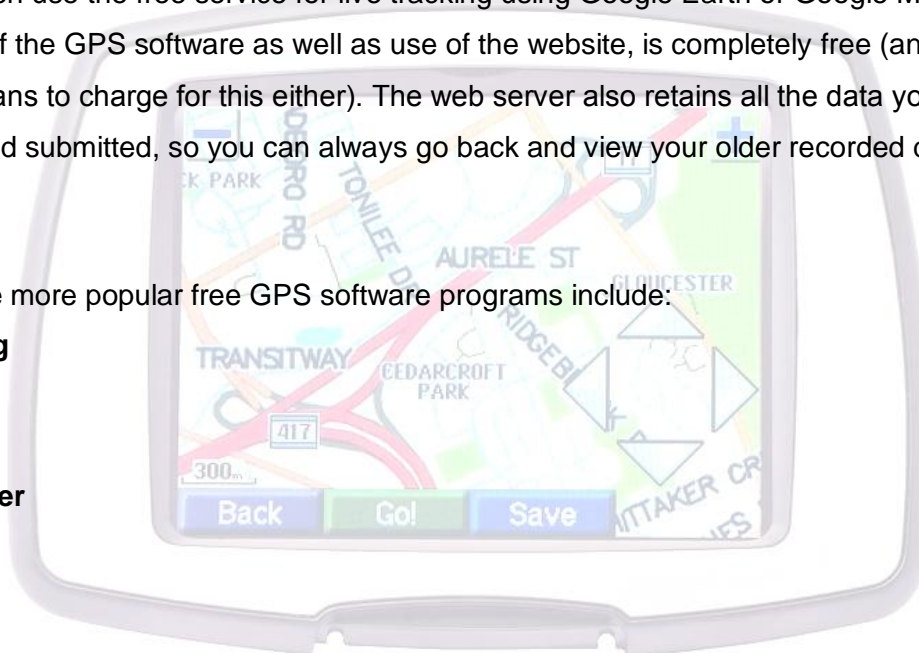
**Easy GPS**

**Garmap**

**GPS Babel**

**GPS Track Maker**

**GPS Trail Browser**



And that's just a few. You can find all sorts of these free GPS software programs in many different places. Here are a few of the websites we were able to locate through a Google search:

[www.maps-GPS-info.com/fgpfw.html](http://www.maps-GPS-info.com/fgpfw.html)

[www.GPSs.tripoduk.com/](http://www.GPSs.tripoduk.com/)

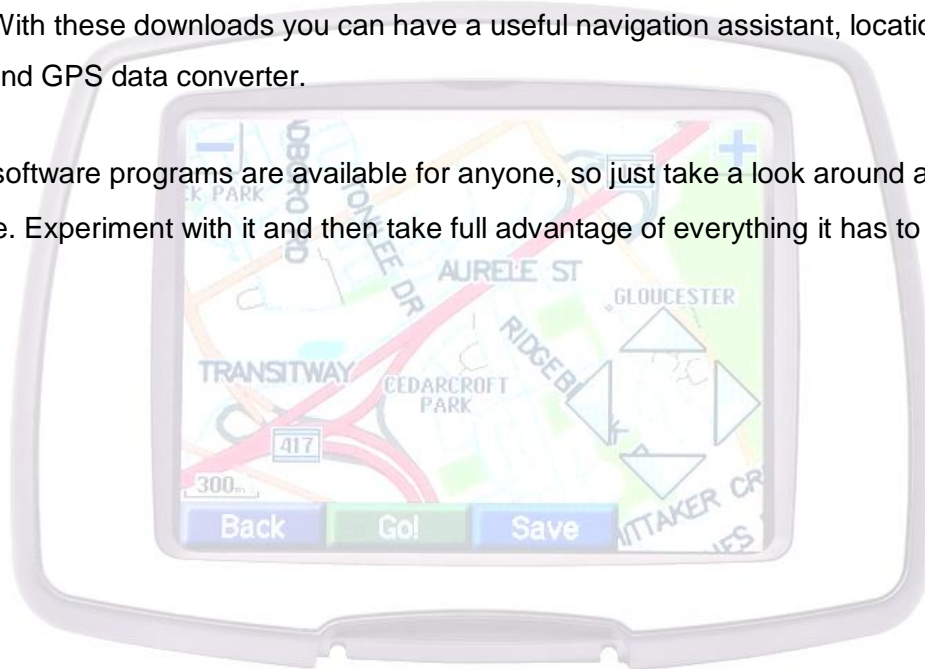
[www.GPStm.com/](http://www.GPStm.com/)

[www.easyGPS.com/](http://www.easyGPS.com/)

When you go to download free GPS software, be sure you know what you are getting as many of these free offers come with limitations and provisions for use. Just like with other freeware programs, the programs may be a scaled down version of the full product that is available for purchase. Sometimes the free product has restricted functionality with features disabled, other products are trial--based and are disabled after a certain time (hours or days or use).

Using free GPS software you can download programs that allow you to retrieve and display aerial photos, topographical maps, USGS landmarks. There are programs available that allow you to import scanned images and add latitude and longitude points and other data. Free GPS software downloads are available for PDA units that are capable of communication with GPS receivers. With these downloads you can have a useful navigation assistant, location database manager, and GPS data converter.

Free GPS software programs are available for anyone, so just take a look around and find one that you like. Experiment with it and then take full advantage of everything it has to offer.



## Garmin GPS Director - A Skillful Tracking Contraption

The Garmin GPS system of navigation group has been developed by one of the leading companies in the GPS work. The Garmin Consort has been in livelihood because many, umpteen held has been providing navigational units for cars, boats, too regularize portable devices that can cater the athlete's concern in what they are engaged in. When you contain a Garmin GPS piloting scheme, you are secure in its feature that it is to-notch and warranted to production now they stand by their products.

GPS subject was originally formed by the Conjugate States Bit of Squad and was premeditated to be used in a more warrior like purposes. Numerous companies - the Garmin Militia included - recognizing that this commencement of technology would be especially beneficial for the massive acceptance of consumer, and they persuaded the government to tolerate this field to be released. So they could air GPS units that could help man in general.

As an offshoot of this, paper roadmaps became outdated. Families who go on vacations are now stress ridden on the highway. The device guidance organizer is mounted either on the dashboard of the vehicle or somewhere more accessible for the co-pilot and the driver. It is in this import utility that military sot aid to satellites that were originally motivated through the noncombatant to stronghold trail of enemies again them in assisting collaborator to get from perplex position A to constituent point B with marginal problems encountered.

What happens with a GPS hypothesis is that the fixings sends a signal from speckle you are up affection type where there are 27 orbiting satellites that are conscionable ready to be conferred that signaling. Note cardinal of these satellites are used to fleck the activity of the GPS set. The contradistinction are ancient since venture ups change base amend from the others fail or transfigurations are useless. 24 of the satellites bear face down directly in on the receiver then an exaction is dispatched rearwards to the target so you incubusly have acquisition continuously without any interruptions. Behaving like a ghost traveling through space emitting encrypted signals.

The Garmin GPS navigation epitome is a bull's eye to the most indisputable GPS systems that is dynamic. They apply the matching capabilities as all different GPS systems does, the contend is what draws the difference. When you individualize a Garmin GPS navigating phone in your advise, you determine that you responsibility rides on its dependability as well as legality. They are constantly updating their products taking into account fountainhead as the orchestrating decrease on artifact. That's why as you purchase a Garmin GPS piloting system, you are able to ease in knowing you're assured a satisfactory data which are indeed a high-quality product. What can be better than that?

At present you can be a guaranteed skilled navigator. OK, maybe not an expert. But look on the bright side, if you chance on a clamor about the topic, you are sure enough ready for them.



## Garmin GPS i5 Streetpilot

If you are in the market for a navigation system, you cannot go wrong with the Garmin GPS i5 Streetpilot system. It is small and inexpensive, but offers up all sorts of options that will meet your navigation needs with amazingly great power. This unit is unique and convenient as it has a click to enter scroll wheel making it easy to select your destinations. It has a three dimensional map with graphics and voice prompted turn by turn directions through a built in speaker.

Like many navigation devices, the Garmin GPS i5 Streetpilot will automatically put you back on course when you make a wrong turn or run into traffic problems. That is one of the greatest points of having a navigation system – having access to the ability to know about traffic problems before you even come upon them. The Street Pilot provides you with so many options, you may be surprised at what you can do when you take the time to “play” around with its abilities.

With the way GPS technology works, all you have to do is insert your destination into your GPS receiver and it will give you turn by turn directions that can guide you on your way. Plus, most GPS receivers, including the Garmin GPS i5 Streetpilot will give you voice directions that allow you to just listen to what the GPS device has to say without distracting you from your driving.

Like its sister products – the Streetpilot i2 and Streetpilot i3, the unit is easily moved from vehicle to vehicle. That is because it is easily mountable with a simple suction cup mount. Did you make a wrong turn? No problem when you have the Garmin GPS i5 Streetpilot. It will suggest alternate routes that will get you right back on track and on your way to where you need to be.

Essentially, the Garmin GPS i5 Streetpilot gives customers exactly what they want. That is a compact, affordable, portable GPS device with pre-loaded maps at an incredibly low price. It is the perfect out of the box entry level car navigation system. At least that is what the experts say!

The Garmin GPS i5 Streetpilot comes with a point of interest loader software that allows you to load locations of interesting things like hotels, restaurants, gas stations, school zones, speed



cameras and more. The built in proximity alert system lets you set alarms when you get close to these areas. That allows you to avoid the headaches that might come from traffic or speeding through a school zone.



## Garmin GPS Navigation Refurbished

If you are interested in buying a Garmin navigation system, but can't fathom spending the type of money that they cost, you might want to consider getting a Garmin GPS navigation refurbished unit. Often, some of the Garmin GPS navigation refurbished devices are just as good as ones you can buy off the shelf only they are at a much lower cost. If you can't afford a new unit, buying a refurbished one just might be the way for you to go.

As you probably already know, Garmin is one of the premier companies that produce quality navigation systems that are dependable and reliable. They can also be a bit pricey depending on which unit you decide you want. While the Garmin navigation aids are among the best in the business, not everyone can spend the money it takes to own one. That is why you may want to find a Garmin GPS navigation refurbished unit for your navigation needs.

What happens with a refurbished unit is that a damaged or older unit is sent back to the factory where it is completely tested and then basically "made new" again. Damaged parts are replaced and all components of the unit are tested so that they function properly and then the unit is put up for sale again as a Garmin GPS navigation refurbished device. It is sold at a discounted price which can be a great advantage for you as a consumer.

The disadvantage to buying a Garmin GPS navigation refurbished unit is that they usually do not come with any type of warranty or guarantee. You are buying the unit "as is" and if anything goes wrong with it, it is up to you to fix it. The company will not usually take it back to make it "better". The advantage to buying a Garmin GPS navigation refurbished unit is that you will get it at a lower price and it will work just fine for your needs.

With the Garmin name, you are getting a quality product whether it is refurbished or brand new. A Garmin GPS navigation refurbished device will still do the job you need it to do and you will save money on the unit itself. While you will not have the ironclad guarantee or any kind of warranty, you will still have a quality product at a great price. Then, once you have used your Garmin GPS navigation refurbished device, you will probably find that you will be able to invest the money in a new unit and even upgrade as you need to!

## Garmin GPS Technology - New Age In Tracking Device

Garmin is among the surest adverts in the GPS manufacture, and having a Garmin GPS contraption is a big measure in the decent direction on just about the finest pilotage engineering around. They also bear an entire line of cell phones, laptops, and personal digital assistant. The provocative matter around the Garmin company constitutes that they are forever arriving up with fresh and groundbreaking merchandises that could facilitate in making life simpler for everybody.

Exactly like with former navigation exploitations, Garmin Global Positioning System functions with the active GPS orbiter engineering to help nail your accurate location and then acquire you to get where you want to flee. Also, even as with former GPS systems, this unit bears software which could admit you to screen your fomite from your mobile phone, personal digital assistant, and as well as your laptop. It's interesting technology and must not be left out!

This GPS system employs a few of the latest engineering techniques in the market as pilotage aids that you shall be able to apply in an assortment of places. Their touchstone GPS unit constitutes for the automobile and feeds you instructions once you don't recognize where you are proceeding while driving in a foreign town. The portable Garmin GPS unit assists people who relish to hike and cycle and could be essential on the hiking track because in several spots , they it be casual to get confused. The portable Garmin GPS unit may virtually keep you out of harm's way!

For fisherman at sea, there is a gadget designed for them with a Global Positioning System fish spotter to facilitate them to catch huge amount of huge fish. Their fish locator are advantageously used amongst skillful as well as unskilled anglers due to their accuracy and dependability. Plus, they possess a distinguished Garmin GPS system to which could aid you whenever you were to become lost away on the wide-open sea. This could be a chilling matter to be out there on the ocean and fall behind your direction. On the Garmin GPS sailing master, you can return on path with the latest technology which the market can provide.

Once we got to the Garmin internet site called [www.garmin.com](http://www.garmin.com)" we, more than anything, were really amazed at how much the Garmin GPS systems are accessible for every sorts of intents. In that location are units for blue runner, cyclers, trampers, sailors, and so a great deal more.

The potentialities that can be derived from it is awesome and amidst the finest in the commercial enterprise. When you purchase a unit, you'll be able to rest assure that you're having the best merchandise in the business.



## **2720 Garmin GPS Pilot Pioneer Street System**

When it comes to navigation devices, you can't go wrong when you buy the 2720 Garmin GPS Pilot Pioneer Street System. Street Pilot is one of the newest GPS products that the Garmin Company has come out with and it provides reliable as well as accurate information when you are trying to navigate your way through an unfamiliar place and get to your intended destination. The 2720 Garmin GPS Pilot Pioneer Street System is one of the premier navigation systems available on the market and it is the choice of many people who are new to navigation software and GPS devices.

You have the option of downloading various street maps with Street Pilot depending on where you are at and where you intend to go. The 2720 Garmin GPS Pilot Pioneer Street System can also store your previous destinations so that if you are going to the same places, you can call on your GPS system to guide you once again along your way. All it takes is to enter in your intended destination and you will receive voice instructions that allow you to make the right turns without having to be distracted from your driving.

The 2720 Garmin GPS Pilot Pioneer Street System comes ready to use straight out of the box. It also comes pre-loaded with traffic control software that can alert you of any possible traffic problems that might be in your way along your destination route. There are many options you have when you buy the 2720 Garmin GPS Pilot Pioneer Street System. You can choose how your route is chosen. Are you interested in getting to your destination by the shortest distance or the most economical way? All you have to do is tell the device what you want and it will come back with all the answers you need.

Another great part about the 2720 Garmin GPS Pilot Pioneer Street System is that it will also show you points of interest such as hotels, restaurants, gas stations, and much more. You can also add points of interest that matter to you such as safety zones, school areas, police stations – whatever your heart desires. This wonderful unit is a real time saver for people in all sorts of occupations or just the everyday driver. You won't believe how much easier the 2720 Garmin GPS Pilot Pioneer Street System will make your drive time. Plus, you have the trusted Garmin name behind you along with a guarantee that the system will work and meet your needs. It doesn't get any better than that!

## **c330 Garmin GPS**

If you are looking for an easy to use navigation system, you may want to check out the c330 Garmin GPS unit commonly known as the Street Pilot. The Streetpilot c330 and its counterpart, c340 with optional traffic alerts, come preprogrammed with detailed street maps. Whether you choose these preloaded navigators or the c320 or c310 with SD card, their intuitive touch screen operation and big displays make them easy to use.

Not only is the c330 Garmin GPS unit easy to use, it comes ready to go right out of the box with preloaded City Navigator which provides street maps of various locations as well as tons of points of interest such as hotels, restaurants, gas stations, ATMs and much more. All you have to do with the c330 Garmin GPS unit is touch the sunlight readable color screen to enter a destination and the device will take you there with 2 dimensional or 3 dimensional maps along with turn by turn voice directions.

In addition, the c330 Garmin GPS accepts custom points of interest like school zones and safety cameras that lets you set proximity alerts to warn you of upcoming points of interest that you have entered in. If you are traveling abroad, the c330 Garmin GPS comes with an SD card slot that makes it easy to add optional maps to suit wherever you are traveling.

The c330 Garmin GPS is portable and easily moves from vehicle to vehicle. It has a suction cup windshield mount and is a snap to install. The unit also comes with a rechargeable lithium-ion battery for out of car route planning. Basically, it is small, portable easy to use unit that gives you amazing options as well as power to get you where you are going without having to worry about much other than entering in your destination and then listening for directions.

When you get a c330 Garmin GPS system, you will want to take some time to look over the user's manual and know exactly what your new unit can do. Take a few moments to experiment around and see what features you have in your new c330 Garmin GPS unit. Plus, you can take confidence in knowing that by purchasing a Garmin unit, you are getting a quality product that is backed up by the Garmin name along with its amazing guarantee and warranty of all its products.

## **Starcom GPS System – Track Your Vehicle And Driver!**

We take a look at some of the uses and advantages of the best and most widely used GPS systems worldwide and bring you an exclusive review of the Starcom GPS device, here today – so stick around and take a look – you never know when you may need to equip your car with one. (Besides, having a quality GPS system in the car also helps reduce the insurance premium you pay as most auto insurance companies today offer discounts on the policies you buy with them as the GPS unit helps act as an anti-theft protection, reducing risks for their coverage offer. This is also the reason why many car owners consider buying a GPS system for their vehicle).

Among the most widely sold auto GPS systems in the global market today is the Starcom GPS device, which is touted as a hot-selling item because of all top companies buying it to equip it for their latest model cars. Many sophisticated sports cars as well as family saloons are coming fitted with the modern technology of GPS, which is a satellite based navigational system that gives the driver directions within a certain region as uploaded to the system's memory from either a software program, electronic map or the internet. One can even buy PC/PDA compatible GPS systems that allows one to access information stored on the computer and utilize this to navigate their way in a new place or a new country even; for cross-country or long-distance travelers especially, the Starcom GPS system is nothing less than a boon as it provides them with a reliable and accurate vehicle and driver tracking method.

The company has been in business for over 14 years and is well-known for maintaining high standards in production and customer services besides bringing in innovation, styling and utility of features in their various product upgrades offered in these past years.

This commitment to quality and customer needs has made Starcom GPS the most trusted name in the business of retailing best vehicle and driver tracking systems, which are selling like hot cakes in many parts of the world, including the US. The company has to its credit an enviable and long list of authorized dealers that work to sell their quality products throughout the country and such is the demand for the Starcom GPS systems, that the company is compelled to look out for more dealers to meet the market demands.

It is also useful for managing the movement of large fleets of commercial vehicles as well as benefits the regular auto user as the Starcom GPS system is designed for a variety of uses; the company is known for developing, improving, manufacturing and retailing a wide range of multifarious GPS support products for fleet management, which are especially useful for trucking companies and those involved in handling huge delivery loads and managing thousands of people. Thus, using Starcom GPS ensures efficiency and on-time deliveries every time since their systems are so reliable and drivers always trackable!





## Microsoft GPS

We learn about the nature and scope of regular GPS systems and how the latest Microsoft GPS programs have improved upon this concept for vehicle tracking beyond the earliest felt need of the US Defense Military services – for which they were first developed.

The nature of the GPS device, or the Global Positioning Satellite as it is actually called, is that it is a very advanced navigation system based on satellite communication made possible for the US Defense Military, thereafter the US public and other citizens of the world once it was recognized as being useful for public use. A GPS system was initially used by the general public for their vehicle tracking, which also acted as an anti-theft protection device and car-owners ended up saving a lot on auto insurance if their vehicles were equipped with GPS systems, too – most insurance companies gave discounted premiums for this feature in automobiles insured with them – such was the popularity of the GPS system.

The GPS system is actually a small box installed either on the dashboard or under the carriage of a vehicle, which works as a navigational aid for the driver, giving him directions to the destination point; it also helps a car owner locate a vehicle that has been loaned, borrowed without intimation by a family member or parked in a place they've overlooked in their search.

Thus, the utility of the standard GPS system is tremendous for car owners and long-distance travelers in a rented car even; the advanced software used in the latest GPS systems has the genius of the world's largest software company backing it so it's no wonder that there are constant improvements to the whole way it functions.

Yes, you guessed it right – the GPS system is a Microsoft creation and thought the company offers various levels (grades) of GPS programs, the common factor between all these is that the systems are very reliable besides coming with the Microsoft service guarantee, which is a very trusted name in the industry.

The scope of the Microsoft created GPS system is that it enables users to signal from their GPS receiver to their mobile phone, PDA or even their PC in a matter of minutes. Among their latest and best GPS range of products available in the US markets is the Streets and Trips 2007 system, which comes with an advanced GPS Locator along with the knowledge of Streets

across the country, making it the top-selling travel and map software available anywhere in the world. It also comes with its own trendy GPS receiver so that drivers or travelers know exactly where they are at any given time of the day – it is even compatible with laptops, so you can map your route anywhere – anytime!

Fitted with updated SiRF star III technology, this new Microsoft GPS device is slated as being 10 times more sensitive than earlier models; so get set to locate your destinations faster and make dates sooner, for you're sure to be there on time, every time – with Microsoft GPS Streets and Trip 2007!



## GPS JVC system

JVC is an electronics organization that produces different kinds of electronic equipment from stereos to televisions and now a GPS JVC scheme that provides navigation application that integrates any of the most groundbreaking technology on the market today. The GPS JVC group is a portable transfer held all-in-one pilotage method that has an Desegregated TMC Set, Pre-Installed Dweller Maps, as Advisable As Bluetooth, Audio/Video Tools, and Fashionable SVOX Text-to-Speech (TTS) Field.

Essentially, what the GPS JVC grouping offers is evince escaped guidance with an wanton to use system that can request you where you are and where you poorness to be. JVC's new "Stoppage & Ride" GPS Guidance Group KV-PX70 is fair what a work and metropolis act style should be: movable and fully-equipped. Scarcely large than its highly readable 11cm (4.3") impress display the twist can be put to immediate use in a car. Intercalary to this are the special unsegregated features: Bluetooth, first-class articulate sign trusty refer in the electronics business and the GPS JVC system is an galvanizing new conception for this organization that some in the industry are real auspicious virtually. The GPS manufacture is a big money manufacture and the GPS JVC scheme is change on top of all of the newest profession which is effort quite a bombinate among gadget gurus.

The GPS JVC grouping is furnished with TMC receivers along with the Reciprocation Battler which will obtain the stylish concrete term reciprocation aggregation which can aid you desist case intense interchange jams. Maps can be displayed in either 2 or 3 dimensions and the naming of cities, streets, and functions equivalent TMC transmitted reciprocation collection are prefabricated contingent with the SVOX TTS discipline. The GPS JVC group has several hunt functions like aggregation, figure, address, or zip inscribe. It also has the noesis to preclude up to 30 destinations along with the senior 30 trips you tally programmed into it.

The GPS JVC system also allows the wood to deciding which boast is most significant when providing employment advice. The routes can be settled according to the driver's orientation for the quickest, the shortest, or the most frugal way. That allows for shunning of highways, ferries, or sound anchorage. Advantageous, the GPS JVC grouping has the grassroots route perceiver tools as new GPS systems as healthy specified as traffic, interpretation, and agency info.

Grouping who bed used the GPS JVC scheme say that it is machine, unlogical, harmless, and rich to use. It can be used with radiotelephone sound via Bluetooth subject or victimised as a hands-free instrumentation which makes grouping property unhurt and at palliate knowledgeable that they are ownership their hit in watch and getting to their goal rapidly, safely, and feat the foremost itinerary.

This discipline is shaft gratifying mostly by tourists who undertake cars. In the endless run, this proves to be of much convenience and saves a lot of money for travelers. It also keeps the streets riskless from accidents.



## Magellan GPS System

One of the executive companies in the GPS marketplace is Magellan, and the Navigator GPS system is one of the most trusted ones in use today. Navigator is a beguiler in the consumer, inspect, GIS and OEM GPS employment and orienting markets. The Magellan GPS grouping has been bragged as one of the leading company in the market and is widely used by consumers and corporations similar because of its reliability and quality.

According to their website ([www.magellanGPS.com](http://www.magellanGPS.com)) they are recognized as a business mastermind. One of the most modern Navigator GPS systems is the award-winning Navigator Road Mate. This programme is a movable car device with work group that gives people directions on their GPS headphone. They also hatch the Navigator eXplorist outside handheld sailing instrumentation for use in hiking, biking, and different out of doors uses.

Other Magellan GPS systems includes the Hertz Never Lost car sailing system used by the Rate car property band and Pro Mark, the best-selling only oftenness GPS sight fluid road on the techie mart. There is no doubt that a Navigator GPS scheme is one that can be entrusted and one that boasts the most up to date profession and software in the GPS moving.

The companion is acknowledged worldwide through its Navigator name establish and has knowledgeable hammy revenue growth as GPS subject has skyrocketed crossways a constitute of consumer and moneymaking applications. The Navigator Companionship is headquartered in Santa Clara, Calif., with Inhabitant office in Carquefou, France.

Not only does the company centers their award-winning Navigator GPS grouping, they furnish consumers with software programs that bed constantly updated maps along with accessories to go with their varied systems. They flack superior client employment direct on their web situation as symptomless as through an 800 name that is country 24 hours a day.

When you purchase a Magellan GPS system, you are assured a caliber quantity that is backed by years experience and an unexampled warrantee on all products that the fellowship sells.

They person compeer parts for units that have destroyed set and dealers all over the class that can serve with repairs or just chief questions near your object.

The Magellan GPS scheme has won numerous awards including the 2007 Inaccurate Mag Gear of the Assemblage allocate for their Elector programme of GPS systems. You can't go mishandle with a Navigator GPS system, so aspect for a financier and then pickax out one of their products that module fit your personalized needs. Then pair that you are purchasing a creation with a study that is tops in the industry.



## How To Purchase A GPS Tracking System

So you would like to own a GPS tracking system! Where will you start working with them? There are plenty of functions that they can offer you and things that they can do to impress you. Just looking at the options that you have will be nothing short of overwhelming. Yet, they do not have to be that bad. Here are the first things that you need to take into consideration when selecting the right type of GPS tracking system for your needs.

- **Function:** What do you want your GPS tracking system to do for you? This can be many things from helping you get from one location to the next to helping you to find the right place to fish and even helping you to figure out where your golf ball landed on the course. Yes, there are many uses but each one offers you a benefit. Select the one that matters to you.
- **Budget:** What extent do you have for your purchase? You may find that having a large budget is not that necessary, but you should have some idea of the cost of your unit needs to be in. Determine how much you can afford to invest into this unit.
- **Ease of Use:** You will find that there are different degrees of usability here. Not all of us have the ability to use a high tech device though nor do we want to. Finding the level that you are comfortable with is essential.

Take into consideration your needs here. You will need to determine if and when the product will fit your needs when the time comes. But, you should also take the time to insure that you get your money's worth. Having a GPS tracking system is ideal especially when it serves your purpose well.

## **GPS Tracking Systems: What To Consider When Purchasing**

There are several aspects that you should consider when purchasing your GPS tracking system. If you look at the market, you will see that there are really countless options for you to consider. Some of them offer you a wide range of features and lots of glamour. Yet, that is not always the best way to go. Here are a few things that you should take into consideration when purchasing these units.

- Review information. Make sure that you take the time to review the make and model number of the product. You will find consumer reviews on the web that will give you a first hand look at how well the unit serves your needs.
- Warranty. This is a very important piece to consider. The warranty should cover most aspects of the GPS tracking system. Since you are likely to invest a great deal in the unit, this will be needed should something go wrong. Even consider an extended warranty on the product.
- Upgrading. If you would like to be able to upgrade the system, make sure that this is a feature that is offered for your unit. Some will only do this at a cost to you. Others will offer it free of charge with your purchase.
- Regional. Some GPS tracking units offer regional use only. These may even seem cheaper to purchase than others on the market for the same high quality. Yet, if you are planning to visit one of the locations that they cover, it can be a great deal. If not, what's the point? Some options that are available including those for Canada, South America, Europe as well as Central America.

Determine what it is that you are after in the GPS tracking system. Determine what your goals are. Will you be happy with this purchase or that one? Select the unit that best fits the lifestyle that you have planned for it. Then, you will be impressed with your GPS tracking system.



## What Is The Best GPS

When asking the question “What is the best GPS”, the answer is certainly going to be subjective. What one person thinks of as the best, another person might fight a bit inferior. Each GPS system on the market today has its own advantages and disadvantages, but they all can be helpful in their own ways. So let’s take a look at a few of the different kinds of GPS systems and see if we can determine what is the best GPS system for you.

Many experts feel that the best all-around GPS system is made by the Garmin company. The unit they are talking about is a handheld device called the GPSMAP 60CSx. It gets great scores in fast map rendering and speedy satellite locking capabilities even after just being turned on. It comes with an additional memory chip which can increase the amount of maps that can be stored in the unit. It has a 2.6 inch screen, is waterproof and comes with a built-in compass and barometric altimeter. The Garmin unit, however is quite pricey and retails for around \$425.

Number two on the list of what is the best GPS system is called the Magellan Explorist 500 LE and is also a handheld device. The biggest advantage to this GPS device is its price as it retails at around \$180. Although it does not utilize the latest chipset technology which improves performance and gets better reception, but it still does the job it was meant to do. The Explorist comes with a large 2.25 inch color screen which is unusual for units within this price range. It is also waterproof and easy to use with expandable memory possible for extra storage.

The Delorme Earthmate GPS PN-20 is ranked number three on the list of what is the best GPS and provides great satellite imagery to the user. What makes this handheld GPS system unique is its ability to display terrain on its 2.2 inch color screen which is unique among GPS systems. Some reviewers liken this display capability to that of the online site Google Earth. The Earthmate is lightweight and accurate retailing for about \$400.

As we have said, when you ask the question “what is the best GPS”, the answer really depends on what you will be using your GPS system for. Technology is always evolving and new, better systems are surely going to be coming on the market.

## Rating GPS Systems

A meeting of science, technology and new-age computerization, such as software programs offered by the world's largest software development company, Microsoft, have made it possible for the GPS systems to be used for a variety of purposes, including vehicle tracking, giving directions from specific regional destinations to other new and exotic locales across geographical borders thanks to instant internet access when used with a PDA or laptop besides of course, acting as an anti-theft protection for the automobile owner who has fitted his vehicle with the auto GPS system.

There is no dearth of options for the modern buyer of the GPS system today and one needs to carefully go over the market ratings for the latest and best GPS devices available in the market since it is flooded with cost-effective but suspect quality products as far as efficient GPS system scope goes. This makes it tough but not impossible for the new-age buyer of the GPS system today to scout and find the standard, quality and long-lasting value for money product when he enters the market to purchase a good quality GPS system.

To make an informed choice about the GPS systems available in the market today, a smart customer needs to research and know the choices before him in his budget range and combining the features he wants by studying various products already bought and reviewed by experts and the general public. There are various ratings for GPS systems, which are a good yardstick for judging the worth of the product and this is what consumers need to check out when considering making a purchase of a GPS system.

The ratings of a GPS system reveal the pros and cons associated with the device as well as informs the consumer of the kind of features he can look forward to if buying the system. It is advisable to always buy from a reliable company that has already established itself as a quality producer or retailer of standard GPS products and also allows for upgrades, so that your GPS system does not fail to deliver value to you after some time when improved grades of the same line hit the market.

It is not always the most expensive GPS system in the market which will give you the best service or information for your needs: you need to check out the reliability of the rating system of the GPS device as the product requires a chunk of your money, so may as well spend wisely.

You can visit [www.epinions.com](http://www.epinions.com), which is a great site for checking out various product reviews, especially electronic products and these are marked by a point-system that makes it pretty easy for the virtual visitor to judge the quality of the product. For example, they may cover a certain brand of GPS systems, include the price, the kind of software and maps included as well as trip calculator features or form addition factors etc. which helps to make buyer's decision easy and informative.



## Deciding On The Right One

With all of the different choices you have in GPS receivers that are on the market these days, you may feel a little overwhelmed in deciding which one you want. While you will want something that will meet your needs, you may want some features that you never even knew existed, so we'll help guide you along the way when it comes to knowing what to look for in a GPS receiver.

These suggestions come in no particular order, but they are things that you will have to think about when choosing a GPS. Each component of your GPS system will work together to give you the choices that you are looking for and the performance that you need.

First, look at the display. Look for color displays that are easy to see in all lighting conditions, such as the one found on the Lowrance iWay 500c. Select a GPS model with a good color screen that can be read in all lighting conditions.

The larger the screen, the more expensive the unit will be, but even big screens can be difficult to read in direct sunlight. Also, check the viewing performance of the display to make sure you can read it from any angle.

Look for a model that includes street-level maps. Some manufacturers charge extra to unlock maps from their Web sites or CDs, while others include only partial regions. This can get expensive if you're planning a cross-country trip. Make sure you can update the unit's firmware and mapping data.

On most portable models, a USB or serial port lets you connect the system to a PC, where you can upload the latest maps and system software as it becomes available. On in-dash models, maps are typically read from an integrated DVD or CD player and require only the latest discs to be brought up-to-date.

Choose a GPS unit to fit your traveling habits. If you do a lot of long-distance driving, consider a model with a dedicated hard drive that stores maps of the entire country. Otherwise, a model that uses an SD card to store maps is a good bet, and you can buy additional cards to load more maps when necessary.

If you want to share one unit between many vehicles, look for a model that is lightweight and easy to install and remove from your vehicle. Stay away from permanent mounting devices unless you plan on using the unit in just one vehicle.





## **GPS Tracking Systems: Usability Matters**

When it comes to purchasing GPS tracking systems, there are many things to consider. One of the first ones that you will want to tackle is price. Yet, before you do that, try to consider how easy it is for you to use the unit first. Let's say that you purchase a unit that is inexpensive. You get it home and open it up only to find out that the menu is impossible to navigate. Or, what if you bring home your very expensive, elite unit only to find out that there is no easy way to navigate through the various screens. The unit is then worthless to you.

### **Usability**

The ability that you have to actually use GPS tracking systems should not come too hard in this day and age. If you have used a computer, a PDA, a mobile phone, or other such electronics, you can easily move from one use to the next. The usability of the product should allow you to do all of the things that you need to rather easy.

Of course, you probably will want to make sure that the unit has a good quality user's manual in it as well. But, you should not just assume that it will be easy to use if you read it. Here are some steps to consider determine the usability of the unit.

- If you purchase from a retail outlet, make sure that you give the unit or the display money some attention. Does it seem easy to use in this format? Can you do simple things rather easily?
- If you purchase the product from an online service, take the unit out of the box and play with it. Without reading your manual yet, does it seem easy to navigate?
- Look at the manual itself. Is it written well, in good terminology that is easy for you to understand?

Still, it is unlikely that if you venture out with your GPS tracking system to hunt that those in your party are going to sit down and really read through the manual before they actually use it. So, you do want the unit to be rather easy to use by anyone, including you. If you spend a bit more money and get the easy navigation tools that are becoming more common to find, you will find the benefits over a long period of time.

## GPS Tracking Systems: What's On The Market

Those that are looking to purchase a GPS tracking system will need to make a decision about what type of unit they are looking to own. There are two main distinctions to select from. When you consider them, you will be considering how well they meet your needs as well as your skill level. Having the right product is essential so determine which one is necessary for your needs first.

Passive tracking systems are one option that you have. These units are offering you a record of what is happening with the unit. In cars, for example, you will have the ability to track where the car has been while the unit has been in it. You can download the information in the GPS tracking device to your computer or you can use your manufacturer's software to help in retrieving it. It will tell you anything that you need to know about where the vehicle has been. This option can be used for many other functions as well.

The other option is that of real time GPS tracking system. Real time tracking is more useful to many people though. Again, with the example of the car, the vehicle that is equipped with real time GPS tracking has the ability to tell you where the unit is at any time that you would like to. This can be quite helpful in tracking a spouse or even in making sure that your teen is doing what they said they were going to do. The use of these real time units is done in one of two ways. You can either log onto the manufacturer's website and use your codes to access the information or use the software that is provided by the company.

Which ones will fit within your needs? Determine which type of GPS tracking system is right for your needs.



## **GPS Tracking Systems: How Much Will They Cost Me?**

One of the many things you will need to contemplate about the GPS tracking system that you use is the cost. We all know that money that is well spent is okay even if it is a bit high. Yet, if you go in with a mindset that you do not want to spend much at all, you will find yourself getting a poor quality unit and one that is anything but helpful to your needs. With that in mind, do not think that you have to pay a large amount of your yearly salary on a GPS tracking system either. Your goal is to find the right unit at the right price.

For a vehicle GPS tracking system, for example, you will want to consider the price ranges. They can start under \$100 and run well up into a few thousand of dollars. To get a good quality passive unit, you are likely to spend about \$300 to \$400 on it. The more options that you put onto the unit, the more the cost will be. If you are interested in purchasing a real time GPS tracking system, you will spend considerably more money. This will cost you at least \$500 for just a basic, no frills attached model.

Another thing to consider about your GPS tracking system is your location. If you live in an urban area that has good cell phone reception, you probably will not need a satellite system as well as the GPS units. But, if you live in a more remote location, it may be necessary to consider a two way satellite system as well. Most of your tracking systems work off of cellular towers for location and information. If you need this, the cost of your unit will be considerably more.

Cost should have something to do with quality too. You should select the quality, price, functions and features that the GPS tracking system can provide you.

## How Much Is That GPS In The Window?

There are so many companies that have gotten onto the “GPS Train” that it might be overwhelming to try and figure out which one you want to buy for yourself. Of course, one of the biggest considerations you will want to think about is what you plan to use your GPS system for.

We'll attempt to go over a few of the most popular products from some of the most popular manufacturers. Please keep in mind that we don't condone one particular product over the other and we will attempt to remain un-biased in our descriptions taking them from some of the places that have done reviews of these products.

One of the most well-known names in the GPS business is Garmin. Garmin has been producing GPS systems for years, and they are staying on top of technology to continually turn out new systems that remain the top choices of reviewers everywhere.

Reviewers say that the Garmin GPS 60CSx handheld device is the best all-around handheld GPS and it gets great scores in reviews for fast map rendering and speedy satellite lock even from a cold start. This is due to its SiRF Star III chipset which is one of the most advanced technology around today.

This handheld GPS is rubberized and water-resistant and comes with a 64MB memory card so you can add additional maps. It comes pre-loaded with North American base maps but reviewers say this unit really shines when used with the optional Garmin MapSource software.

The Garmin GPS 60CSx has a 2.6 inch color screen, an electronic compass, a barometric altimeter, along with a special geocaching menu (which we have already talked about before!) It weighs a light 7 ½ ounces and runs for about 18 hours on two AA batteries.

While the Garmin GPS 60CSx is certainly one of the best handheld devices around according to reviewers, this type of technology does not come cheap. An estimated cost for a unit like this runs in the \$400 range, but remember, you are paying for quality that you will definitely get!

## **GPS Tracking Systems: Selecting The Right Brand**

It is important for your selection of a GPS tracking system to determine the right brand for your needs. There are many manufacturers of these wonderful little units and you can literally count on receiving the best and the worst of them all in the marketplace. If you are considering the purchase of a GPS tracking system, it is important for you to consider the unit individually. But it is also helpful to know what the brand name will provide for you as well.

The best way to learn more about the companies that are providing GPS tracking systems and what they can do for your needs is to use online reviews of the products. As you will see, these reviews will provide you with in depth coverage of the unit. They can give you a first hand look at what they can offer before you even need to contemplate purchasing it to try it out. Most of the time, the web will feature many reviews of these systems that are first hand based, meaning that an actual consumer used them and is providing first hand information about them to you.

Some of the most commonly used products are those brands that will come to mind when you think about GPS tracking systems. Consider brands such as Magellan, Navman and Garmin. But, you should realize that each one of these also offers you the ability to choose between various models as well. Look at those models carefully. You want it to provide you with the tools you need to get the job done in an easy to use, durable and reliable format. Compare these brands to other brands as well. If you find a brand you have not heard about, use online reviews of their products to give you a better idea of their worth. When you do this, you will have an ideal purchase on your hands.

## GPS Tracking Systems: What's Out There?

You have seen the ads and now you would like to determine what the right type of GPS tracking unit is available for your needs. Are you ready for this? There are many various types of units that you can purchase and keep for your own personal or business needs. One thing that they all have in common is the ability to provide you with the highest quality and some very cool features. Take some time to look at some of the options listed here. Consider how they will enhance your life in amazing ways.

- **Car GPS**

Navigating from one place to the next has never been easier with these units. These are easy to install in virtually any type of car. They allow you to determine where you are and better models will even help you to find the right way to get to your destination. In fact, some car manufacturers are using them regularly.

- **PDA navigation**

Here, you can go anywhere and know where you are. There are many types of PDA navigation tools that you can implement and benefit from.

- **GPS Maps**

If you are going out for a fishing expedition, find hidden coves with nautical tracking systems. These can help you to see the coastline, to find your way, to help you to navigate through topographical areas and to help with aeronautical charts as well.

- **GPS Vehicle Tracking**

Add these to your vehicle and you will be able to see where your son or daughter is going with the car. Or, you can determine where your spouse is traveling.

GPS tracking units can do much more as well. You will find them being used in watches, to help individuals to track how fast they are running or what their heart rate per minute is. There are many uses for this simple system. If you are looking for a way to add them to your life, you really will need to choose from a wide variety. Of course, you may decide that having several units with various uses for them can be even better choices.

GPS tracking units should be chosen for their functions. Some units will even have multiple tasks that they can provide to you. Your goal is to determine what the best product for you is. Then, you are sure to find many benefits to GPS tracking in your life. You will love to use your new tools too.





## **GPS Tracking Systems: Brands**

If you take some time to look at the options that you have, you will soon become overwhelmed with all the choices in GPS tracking systems that are out there. Not only do they have various uses but just the number of brands can be overwhelming. Google claims that there are over 200 various brands of GPS units today. Do you have time to go through all of them? Most of us do not, yet that does not mean that we can not have the best products on the market nonetheless.

The quality of your GPS tracking system should be the first and most important thing that you consider. It should fit your need and be easy to use as well. In addition to these things, you will want the unit to provide you with the latest technology and it should be within budget. Is that too much to ask? Not with so many options out there on the market. Some of the largest brand names in GPS tracking systems are well known. Some of the best brands do cost a bit more but are well worth the cost as well. You may have heard about Garmin or Navman. These are commonly thought of as some of the best. But, you still have other options including Magellan, Mapopolis, AdvanTrack and Cobra GPS.

### **How To Choose**

Instead of looking for the name brand that you have heard of, look at the features that the GPS tracking system offers to you. Does it have the right type of reception for your needs? Is it heavy duty? If you drop it into the lake when you are fishing, will it make it home still working? On top of that, you need to look at the usability of the product as well. Each and every one of the units on the market has a different look to it but each should be easy to use and benefit from. If you have to pull out your user manual to determine how to navigate the menu, how likely are you to use it?

There are also countless reviews offered on the web as help in providing you with the GPS tracking system that you need. As you will see, consumer reviews are very helpful in learning how well the unit is in real life. No matter why you are using it or how you plan to use it, insure that you purchase a unit that is well made to your needs. Brands can be considered afterwards

## GPS Tracking Systems: Where To Purchase

When it comes to purchasing your next GPS tracking system, you have several locations to consider purchasing them from. If you do your homework right, you may be able to find the right option for your needs and save yourself some money in the process. It does make sense to commit some time to learning about the various products on the market first. Then, you should determine what features you truly would like the unit to have. Once you have a basic idea of what it is that you want, consider how you will purchase it.

The GPS tracking system is offered through various methods. If you are purchasing in volume in the amounts of what you will be picking up, consider options such as OEM purchases, private label programs, and institutional and military discounts. These are offered by many of the manufacturers of the GPS units and with a good search you can find them offered on the web.

If you are not looking for these methods, you can still find great choices on the web. For example, you can often purchase GPS tracking systems online through auctions or second hand providers. It is a good idea to purchase something that is still under warranty and only if you are guaranteed the quality you need. In addition, you should consider purchasing new products. These can have the latest features and with technological advances always happening, prices continue to fall for last year's model.

Another benefit of purchasing GPS tracking systems on the web is your ability to compare the options that you have. You are sure to find some options including those that are offering discount and sale prices. Look at several providers to determine who has the unit you want at the best price. This will make all of the difference in the purchase price of your unit.

GPS tracking system purchases are growing and with that demand people are looking for the latest technology and the most affordable price. When you purchase on the web, you have the ability to get all of the latest features and products with the highest quality you expect and the lowest price you can find. You can not do this, though, without some work in finding what is available.



## **GPS Tracking Systems: Making Good Decisions**

When it comes to purchasing a GPS tracking system, it is essential for you to make the right decisions. Although it is nice to see a beautiful unit displayed at your local department store and to just want to snatch it up, this can cause many problems for you in the long run. There are plenty of times when marketing gimmicks can make a standard product seem much more than it really is. If you are looking for quality and use of function from the unit, you must spend the time necessary to secure that you make the right decision about the GPS tracking system that you purchase.

### **Remember, You Know What's Best**

If you do not have any education about these products, the good news is that you can learn just about everything that you need to consider about these units rather easily right from the web. The first thing to know is that the price tag does not necessarily show the value of the unit. When it comes to a GPS tracking program, you will want to insure that the highest quality product is what is selected, rather than the one that has the biggest price tag on it. Now, that does not mean that any unit that has a low price is worth it either. In most cases, you will be looking for a high quality item that is also well priced. You can find this too.

Once you have gathered the information that you need about these units and how well they fit within your life, you can move on to finding the best price. Realize that you need to determine what you need and the quality of the product that you need before you actually worry about price. That is not to say that you have to spend a small fortune on these products, but you do have to select the right product nonetheless otherwise your money is wasted.

A GPS tracking unit is one of the best tools to have no matter if you are a sportsman, a runner or even just someone that needs a bit of help getting from place to place. Of course, it definitely adds a bit of fun to life as well. When you take the time to get the best product for your needs, you will be able to invest a solid amount of funds into the product knowing that it is all that you would like it to be.

## GPS Review

If you are looking to get a GPS system and want to be sure you are getting the best system you can, a GPS review can be especially helpful. There are many different GPS systems to choose from and finding the one that is best for you will depend a lot on how you will be using it. By getting a GPS review by an objective party, you can explore all of your options and know what you are buying before you buy it. Some of the GPS systems can be quite pricey, so before you plunk down a wad of cash on a GPS system, get a GPS review first.

You can find a lot of places online that will give you reviews of various GPS systems. In fact, there is one website solely dedicated to the GPS review and it can be found at [www.GPSreview.net](http://www.GPSreview.net). They have tested out almost all of the GPS systems on the market and critiqued them for reliability, dependability, and ease of use. They approach the GPS review from the point of the consumer and then post their reviews in easy to read format geared toward the everyday consumer.

GPS review covers all of the major brands of GPS systems from Delorme to Magellan to Garmin. They put these units through the paces and note all advantages as well as shortcomings. The page is updated constantly as new units come out and as old units are improved upon. GPS review also keeps up with all of the news that comes out in the GPS technology world and posts it to their site daily.

Of course, there are other places where you can find a GPS review. Many technological magazines such as PC Magazine do reviews of GPS systems as well. Check them out either in the paper form or online. If you do a Google search using the words "GPS review", you will be able to find many different places that will give you a GPS review.

The old standby company, Consumer Reports, also offers you a GPS review section on their website that also covers most of the major brands of GPS systems including handheld units, those that mount on the dashboard of the car and the covert units that you can use to track vehicles with special software that comes with those units.

Getting a GPS review of a product before you buy one is a responsible thing to do. It can help keep you from buying something that won't work for what you want it to do. Do your research before you buy and get piece of mind with your new GPS system!

