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1 Introduction:

SDG-812 is a GPS with Bluetooth interface and an integrated built-in memory, which provides an impressive data capacity. SDG-812 is not only a GPS receiver, but also a SD memory card. You can easily organize, store, and share files or documents.

The dimension of SDG-812 is **the smallest one in the market**, you can easily bring it with your handheld device without occupying much space, and SDG-812 equipped with helix Antenna, you can complete the GPS fix in your car either at front seat or back seat easily.

It also allow for tracking signals and large map data according to the mapping software usage. It's sleek and stylish design of look can go with any kind of the Pocket PC. With the smallest dimension and light and handy appearance, it is convenient for you to put it in pocket and bring it to anywhere you go.

Just plug it into your Pocket PC, and use it to receive the GPS signal right away! Its cylindrical antenna can receive the signal from all directions by 360 degree. It satisfies a wide variety of applications, including car navigation, personal touring navigation or tracking and even marine navigation purpose.

With our professional manufacturing technology along with the cutting edge, SiRF Star III chipset, this receiver has provided higher sensitivity, lower power usage and much more rapid time-to-fix.

1-1 Feature

- SiRF Star III high performance and low power consumption chipset
- Built-in high sensitivity GPS antenna
- LED to show GPS fix or not fix
- Built-in super capacitor to receive system data for rapid satellite acquisition
- Bluetooth interface
- Operating platform: Windows CE , Windows mobile ,Windows XP, Symbian ,
Linux , Palm and Mac

1-2 LED Function

GPS Status LED(Blue)

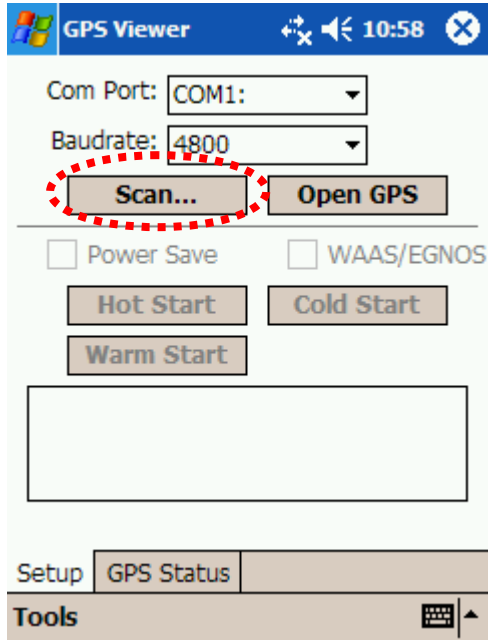
- Blink --- GPS position is not fixed
- Solid --- GPS position is fixed



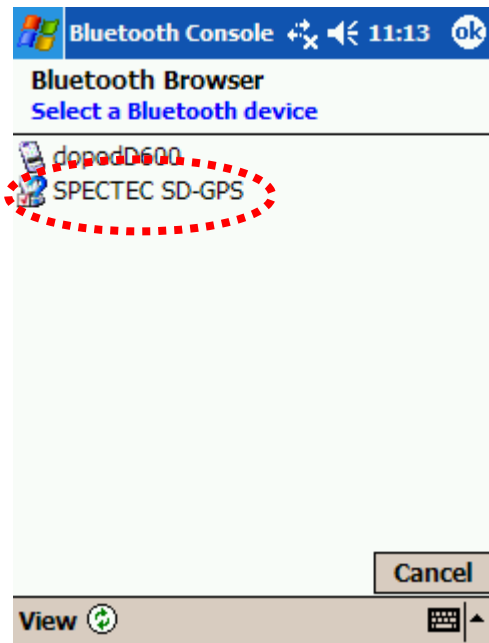
2. GPS setting and pairing

Install Free GPS utility Gps Viewer

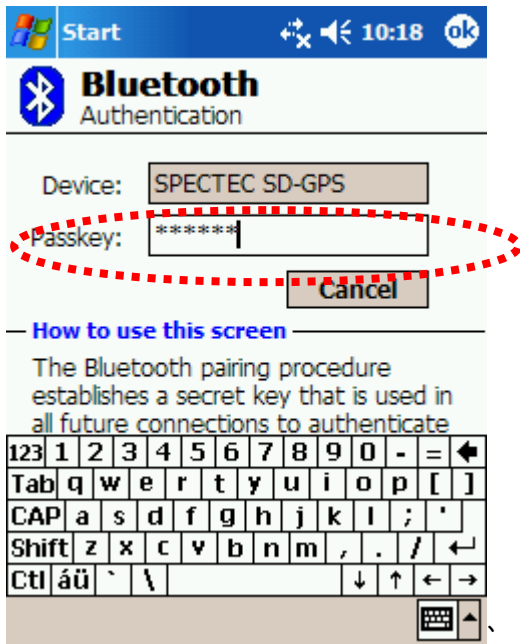
- a. Open the Bluetooth function
- b. Running the GPS Viewer and click scan



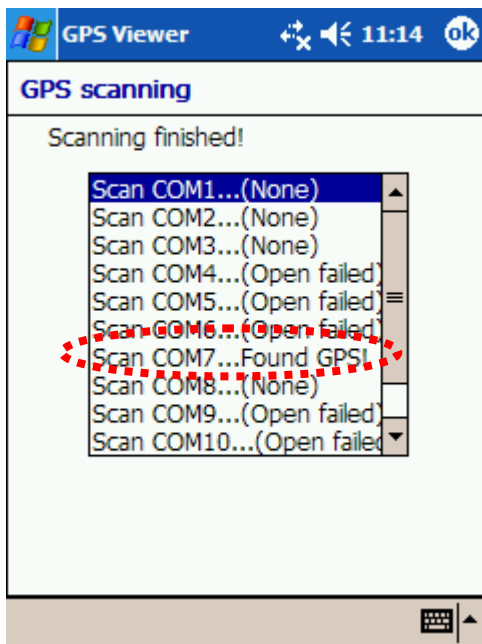
- c. The Bluetooth will search and pairing , Select SPECTEC SD-GPS when search finish



d. key in the pin code "000000"

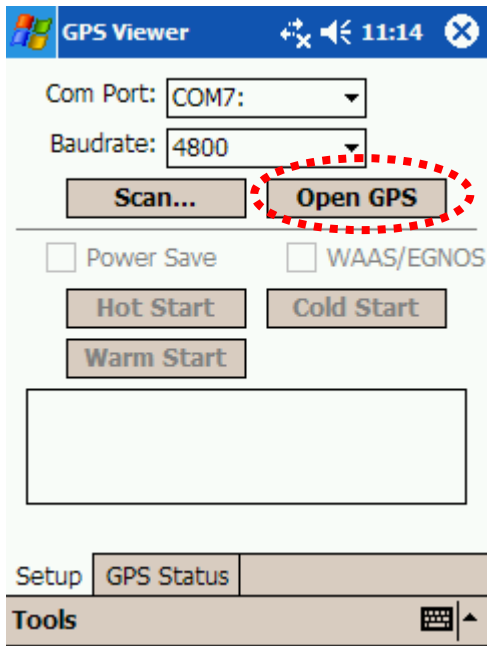


e. The GPS comport will be found

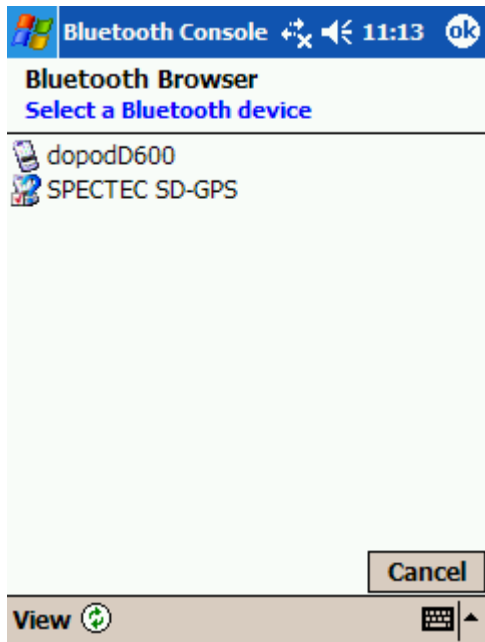




f. Click Open GPS

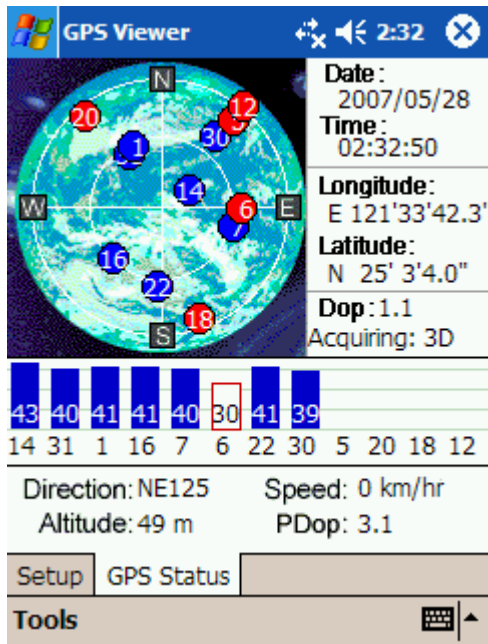
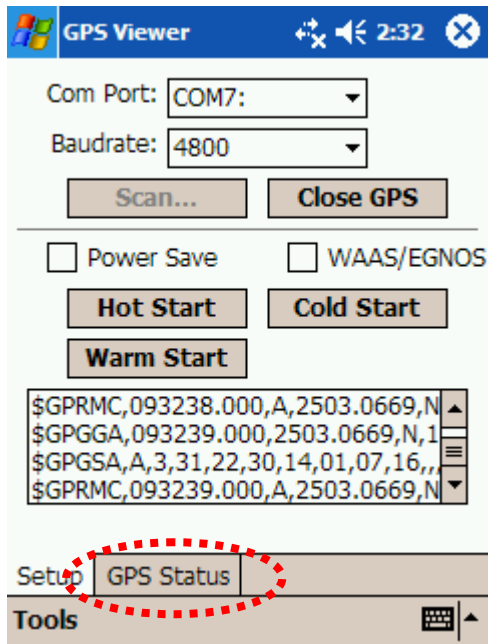


g. Select incoming device " SPECTEC SD-GPS "





h. Click *GPS Status*





NOTE: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference

to radio communication. However, there is no grantee that interference will not occur

in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on,

the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device

must accept any interference received, including interference that may cause undesired operation.



3. SDG-812 Specification Table

Electrical Characteristics (Receiver)	
Chipset	SiRF Start III
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Accuracy	
Position Horizontal	10 meters, 2D RMS 1~5 meters, 3D RMS with WAAS, EGNOS corrected
Velocity	0.1m/sec
Time	1 micro-second synchronized to GPS time
Datum	
Datum	WGS-84 (default)
Protocol (customized protocol can be made if the offer is for more than 1000 pcs)	
GPS Protocol	NMEA 0183 (default)
GPS Output format	GGA(1 sec), GSA(1 sec), GSV(5 sec), RMC, 9600bps
Dynamic Condition	
Acceleration Limit	Less than 4g
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/sec (1,000 knots) max.
Jerk Limit	20m/sec**3
Temperature	
Operating	-40°C ~+85°C
Humidity	5~95% non-condensing
Power	
Voltage	3.3V
Power Consumption	<95 mA
Physical Characteristics	
Dimension	62 mm * 24 mm * 2.1 mm
Weight	Approximately 30 grams
Memory: Expansion Slot Micro SD card (TransFlash Card) memory Size : 512MB, up to 2GB	
Other Characteristics	
Hot start < 1 sec., average; Warm start < 38 sec., average; Cold start < 42 sec., average	
Reacquisition 0.1 sec. average	
Certification	
FCC, CE, RoHs	
Bluetooth Specification	
• Bluetooth V2.0 compliant	
• Supply voltage : 2.8~3.7V	
• Frequency Range: 2.402~2.480GHz	
• Receiver Sensitivity : -78dBm	
• Transmit Power: Class 2	
• Transmitting Range: 6~10 m	