

# Bluetooth GPS Speed Camera



## Key Functions & Feature

- Bluetooth GPS receiver and GPS data logger all in one
  - Optional Flash memory 4 MBytes/8 MBytes/16 Mbytes
  - Data upload/download via mini USB
  - Motion sensor for auto power saving mode: the device switches on/off when it is moving/motionless.
  - Power mode setting: GPS on only or bluetooth and GPS both on
- 
- Support Speaker Sound, LED indications
  - Ultra low power consumption, up to 22hours of continuous use with battery fully charged
  - Rechargeable 1100mA Li-ion battery with the original made-in-Japan battery cells
  - Cold/warm/hot start (42/38/3~6 seconds)
  - 16 channels "All-in-View" tracking.
  - Compatible with bluetooth enabled devices with Serial Port Profile (SPP)
  - High sensitivity: -152dbm
  - Build-in High Gain antenna
  - Data format: longitude, latitude, speed , UTC
  - GPS trace interval time setting from 1sec ~ 30 minutes
  - GPS Trace data by distance interval 2~65535 meters

## Power Consumption for Different Power Setting Mode

Mode	Status	Max.	Min.	Avg.
GPS+BT	BT connecting	89.1mA	42.9mA	50.4mA
GPS+BT	BT disconnecting	67.3mA	42.2mA	46.1mA
GPS only	GPS connecting	45.8mA	40.2mA	41.1mA
GPS only	GPS disconnecting	43.8mA	38.2mA	39.1mA
Auto power saving	Power off	0.42mA	0.41mA	0.41mA

## Specifications

<b>General</b>		<b>Accuracy</b>	
GPS Chip	NEMERIX GPS Module	Position	3meters CEP (50%), without SA (Horizontal) 7 meters (90%)
Frequency	L1, 1575.42MHz	Velocity	0.1 m/sec. without SA
C/A Code	1.023MHz chip rate	Time	±100 ns synchronized to GPS time
Channels	16 CH all in view tracking	<b>Datum</b>	
Internal Antenna	Built-in low noise	WGS-84 (or by demanded)	
I/O	External antenna port MMCX Mini.USB 1.1/2.0( 12Mb)	<b>Sensitivity</b>	
Audio Output	Speaker: 1Watt / 8 ohm	To – 152 dBm	
LED:	bluetooth, GPS, power status	<b>Dynamic Conditions</b>	
<b>Acquisition Rate</b>		Altitude	<18,000m
Cold Start	45 sec, average	Velocity	<515m/sec
Warm Start	35 sec, average	Acceleration	<4g
Hot Start	5 sec, average	Motional Jerk	20 m/sec.
Reacquisition	1 sec, average	<b>Interface</b>	
<b>Power</b>		<u>Communication Protocol</u>	
Built-in rechargeable 1100 mAh Li-ion battery	5 V DC input	Communicate with host platform via Bluetooth (class 2) serial port profile	
Operation Current 45 mAh (Typical)	Operation Time 22 hrs, fully charged	Bluetooth communication distance 10 M. TYP.	
Charging time 3 hrs. (Typical)		<u>GPS Protocol</u>	
<b>Environmental</b>		NMEA-0183 (V3.01) – GGA(1), GSA(3), GSV(3), RMC(1),VTG(1), Baud rate 38400 bps, Data bit: 8, stop bit : 1(Default) *	
Operating Temperature	- 20 °C to + 60 °C	* (1): 1sec output 1msg , (3): 3sec output 1msg	
Relative Humidity	5% to 90% non-condensing	<b>Device Size</b>	
<b>Accessories</b>		Dimension: 76 (L) X 46 (W) X 20 (H) mm	
Car charger (12V in, 5V output)		Weight: 50g (without battery)	
AC adaptor (5.3V output, 500ma)			

## UI Function

