INSTRUCTION MANUAL
GSM-010 GPS SPEED METER

SKYRC

Stop wondering how fast your RC car can run and how high your RC Airplane or helicopter can fly. Now all these data come at your finger with the GPS SPEED METER by SkyRC.

The popularity of GPS devices inspired SkyRC to design this gadget at about 41g. The Speed Meter is the result of SkyRC's ongoing development efforts, boasting an ultra compact GPS module with hidden antenna design, the high-sensitivity GPS receiver chip can do quick positioning, a robust controller IC to keep recording speed and altitude in real time.

This gadget is ideal for RC racing/flying and casual biking, driving and long journey. User could easily view the screen while working out data such as speed, altitude total mileage/kilometer, longitude/latitude.

The gadget records the top speed and top altitude for instant recall after the running. It will help RC fans much to fine-tune their RC gadgets to achieve better performance.

FEATURES

- Compact and easy to carry
- Speed meter with top speed memory
- Top altitude
- GPS Coordinator
- Built-in 4M flash (recording time: 6 hours)
- UTC timestamp logged for each track point
- Built-in rechargeable, LiPo bettery 200mAh (Operating time: 150 minutes)
- Support both Metric and Imperial system of measurement
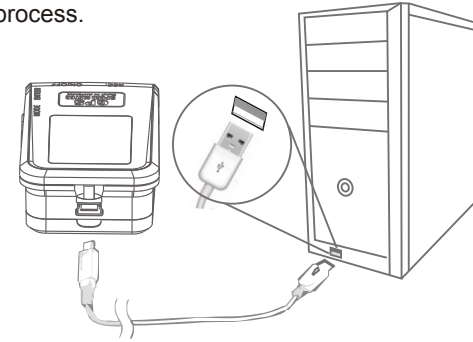- PC link for data logging & google map
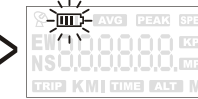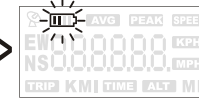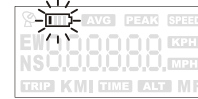- Firmware upgradable
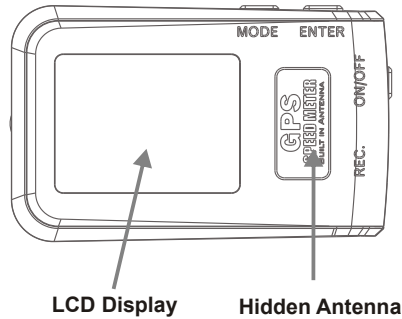
LCD Display   **Hidden Antenna**
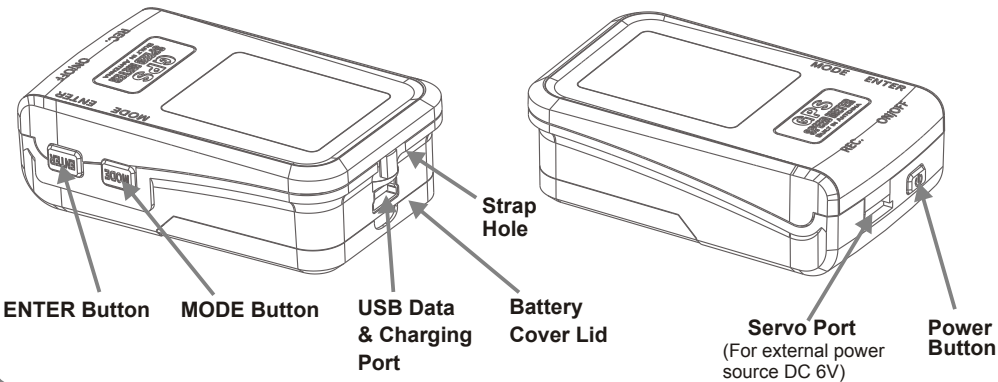
ENTER Button   **MODE Button**   **USB Data & Charging Port**   **Battery Cover Lid**   **Strap Hole**   **Servo Port** (For external power source DC 6V)   **Power Button**

CHARGING BATTERY

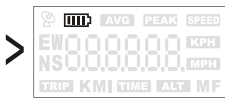Connect the USB cable to your computer and GPS speed meter. The battery icon will blinking during the charging process.
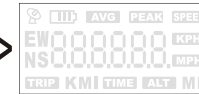

Charging   *Fully Charged*

POWER ON

Press the POWER BUTTON to turn it on.

POWER OFF

Press and hold the POWER BUTTON for 6 seconds, "OFF" will be displayed on the LCD screen. Relese the POWER BUTTON and the device will be power off.

GPS INITIALIZATION (ACQUIRE SATELLITES)

After turn on the power, the meter will starting the process of satellite acquisition and tracking automatically. Before a position fix is calculated, the icon of Satellite Receiver will keep blinking. The meter takes about 30 seconds to achieve a position fix in normal.
It may take longer than normal to establish an initial position for the first time or if the meter has not been used for an extended period of time. If the meter is powered on in outdoors with a clear view of the sky this should not take more than 3-5 minutes.
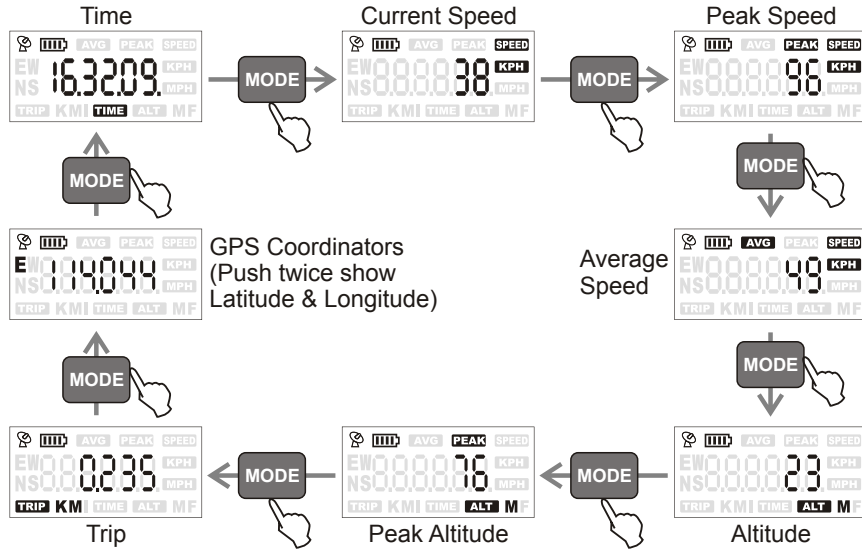If your meter is indoors, it may not acquire satellites.(OUTDOORS USED ONLY)
The icon of Satellite Receiver will keep blinking until a position fix is calculated. It is understood that satellite acquisition time depends on weather conditions and users location,
After a position fix has been calculated, the icon of satellite receiver and the UTC time will be shown on the screen as below.

Blinking

DIFFERENT MODE SWITCHING

Users can switch from mode to mode by pressing MODE button.

Time	Current Speed	Peak Speed

GPS Coordinators
(Push twice show
Latitude & Longitude)

Average Speed

Trip   Peak Altitude   Altitude

MOUNTING AND PREPARING FOR RC RACING OR FLYING

It is recommended to use VELCRO or other fastening tape to mount the speed meter onto your RC cars, planes or helicopters. The GPS antenna can pick up signals through glass and plastic but will not pick up signals through metal or other conductive surfaces. To avoid interference with the GPS signal, make sure that the GPS antenna is not covered or shielded by any object containing metal. Due to this fact, please try to mount the meter on top as possible as you can.

DATA LOG RECORDING

After powering on and the ICON of signal is shown on the screen, please use ENTER button to enter RECORDING mode to log data before you launch your RC trip.The recording process will be terminated if the ENTER button pressed twice.
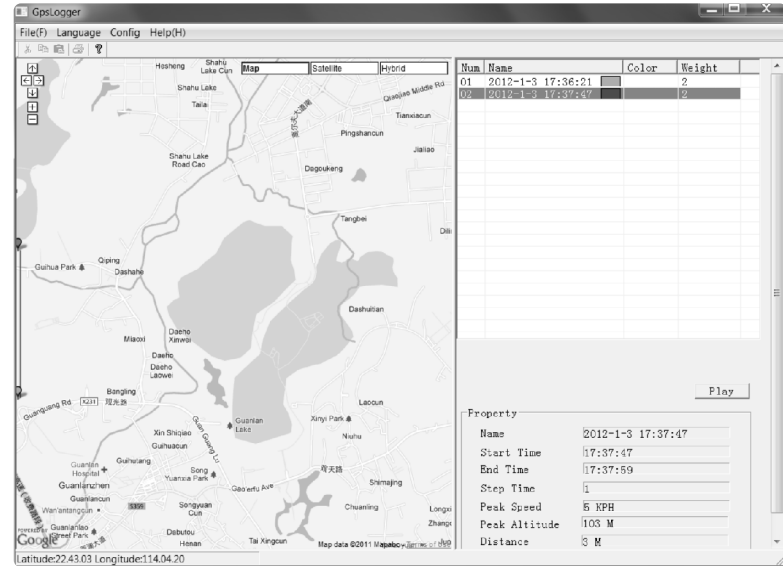

INSTALL 'GPSLOGGER' SOFTWARE

Power On the device and connect it to a computer with the USB cable.
Install the software 'GpsLogger' which can be download from
http://www.skyrc.com/download/gps/logger.zip

GPSLOGGER SOFTWARE

You can use SkyRC application software "GpsLogger"to transfer the log data to PC and easily export the log data to "Google Earth" Please visit Google Earth website
http://earth.google.com   for more information.

GpsLogger Software Application

● Transfer the log data to PC and show the track data on Google Earth
● Save the log data to PC
● Select the language between English and Chinese
● Change Metric and Imperial system of measurement
● GPS update rate selection
● Firmware upgrade

SPECIFICATIONS

● 32 parallel satellite searching channels
● Receiver: L1, 1575.42 MHZ
● Frequency: 1.023 MHZ
● Update frequency: 1 Hz.
● Antenna type: Built-in
● Satellite signal reception sensitivity: -159dBm

● Dimensions: 65.7X39.6X20.8mm
● Weight: 41g
● Operating temperature: 0℃ to +50℃
● Storage temperature: -10℃ to +60℃
● Operating humidety: 5% to 90%

Manufactured by
SKYRC TECHNOLOGY CO., LTD.
www.skyrc.com

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