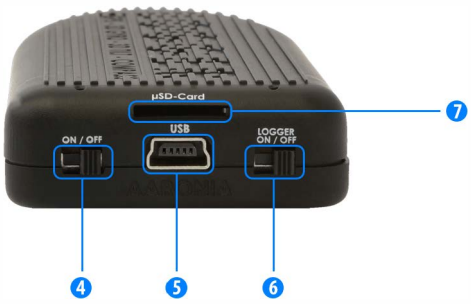
Quick Guide

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GPS logger only works if µSD-Card is inserted !

[max. 2 GB µSD-Card FAT16]





1 GPS-Indicator LED

- flashing red: None or not enough satellites found
- flashing yellow: Found enough satellites to get GPS information
- flashing green (faster): Found more satellites for higher precision in GPS information

2 Charge LED

The battery is charged via the USB port.

- off: Logger is not connected to a computer or power supply
- indicates the charging state of the battery. Red: battery is charging, Green: battery is fully charged

3 Power LED

- off: Power is off
- green: Power is on
- flashing green/red (slow): If Logger is on or off and power is turned on, the LED indicates missing micro SD card
- flashing green/red (faster): If Logger is on and power is on and µSD-Card is insert into µSD-Card slot the LED indicates the calibration mode. The flashing frequency corresponds to the selcted data rate

4 Power Switch

Turn device on or off

5 Mini USB Port

Connect the device via USB cable with your PC to use the device in streaming mode with our software and to load the batterie

6 Record / Calibration switch

The logger switch has two functions. If you turn it on before you power on the device, you´ll enable the calibration mode for the internal sensors. The Power LED flashes rapidly
If you turn it on when the devices is already powered on, you´ll activate the recording mode. The GPS-Sensor data will be written to the µSD-Card until you turn the logger off

7 µSD-Card Slot

Insert the µSD-Card into the slot. Please note that the device won´t work without a µSD-Card. Press the µSD-Card until you hear the „click". Also press the µSD-Card until you hear the „click" to enject it.

Device calibration

To calibrate the sensors of your GPS-Logger device, move the logger switch to position „ON" and turn the device by moving the power switch to position „ON". The power LED flashes fast and indicates that the calibration mode is enabled

Move the device like shown in the picture below for 30 seconds:



To complete the calibration, move the logger switch back to position „OFF"

Copy data from GPS - Logger Micro SD-Card

Turn off your GPS-Logger and remove the µSD-Card from the µSD-Slot. Put the µSD-Card into a usable adapter (SD-Card or USB adapter included in delievery) and connect it with your PC. Copy the recorded file in a folder on your hard disk (import directly from µSD card works too, but is faster if imported from harddisk). Now you can import the file in the software

ATTENTION: Operation only without USB connection - no continuous operation!

Disposal Notes

Do not discard LiPo packs in the domestic waste. Return defective or exhausted batteries to any retail outlet for batteries, or to your local authority's toxic waste collection point. Discharge batteries before disposing of them. Mask *off* bare contacts to ensure that there is no possibility of short-circuits.

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Ⓐ Software Installation

Double click the executable and follow the instructions of the installer. The Installer contains the software and the driver installation.

Ⓑ New Versions / Updates

We publish the newest version of the software on our developer website (http://www.spectran-developer.net) in the main category "Application Software" - > "Windows"

Ⓒ Softwaremodes

The Software can work in two different modes. The first mode is called "Streaming Mode" and the second mode is called "Data Mode"

❶ Streaming Mode:

In streaming mode you'll work with the GPS - Logger connected to a USB port to the PC. The data is sent directly to the software via USB. You can see all movements and changes of the Logger in the "Streaming Dialog".
You have the possibility to record the streaming data by using the Toolbar functions. The Streaming mode also allows you to start a replay of a recorded raw data file. To start a replay, use the entry in "File" menu -> "Open Recording as Stream"

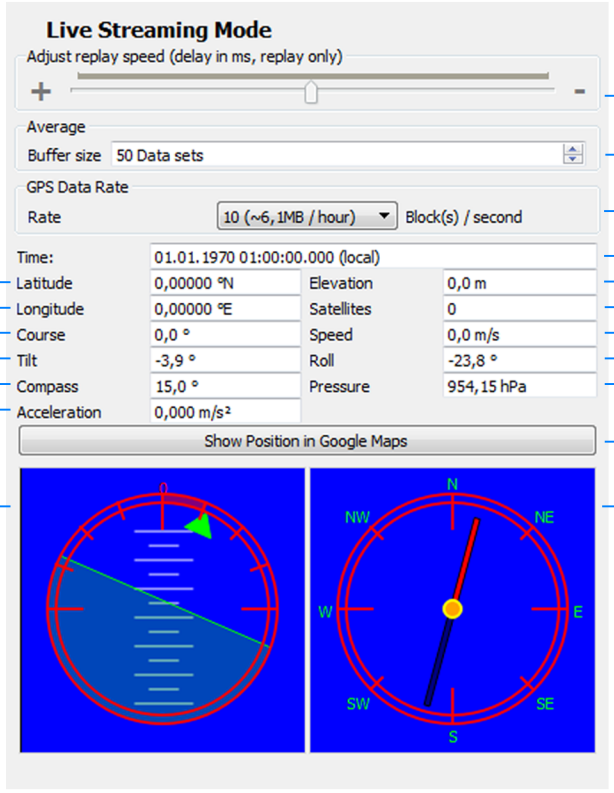
❷ Data Mode:

Data mode is the visualization of data which are loaded from files. Use the entry in the "File" menu -> "Open Recording for Map View". You can import two types of files
1. Raw data file - copied from the µSD-Card of your GPS Logger device.
2. MDR file - Recording from our MCS Spectrum Analyzer software.

Differences between the file types:

1. The raw data file from the GPS Logger contains all GPS and sensor information. You can visualize the waypoints, compass, tilt, roll, and speed on the map. The diagram will show the elevation.

2. MDR file contains the GPS information and measurement information on the track. The diagram will show a maximum measurement value on a waypoint. To create the MDR file, you have to connect a SPECTRAN and GPS Logger device to our MCS software. Record the measurement in the MDR format



Shows current latitude in degree
Shows current longitude in degree
Shows current course in degree
Shows current tilt angle in degree
Compass in degree
Acceleration in meter per second²
Roll and tilt indicator

Control is enabled if you open a recording for replay. Adjust replay speed by moving the slider left or right.
Shows current Average Buffer Size
Shows current GPS Data Rate
Current timestamp in local time
Shows current elevation in meters.
Shows current number of satellites
Shows current speed in meters per second
Shows current roll angle in degree
If you have a GPS signal, you can click this button to see your position in Google Maps
Compass

For more information, refer to the GPS-Logger manual