



Tracker manual for Euroglide 2016 participants:

The trackers consist of 4 components:

- The housing (as little as possible)
- A GPS chip

The SiRF-Star 111 chip receives constant information. The output is a positioning in degrees/ minutes/ seconds and UTC time.

- SIMcard

Every ten seconds the card sends the position and time to the nearest cell tower. Only 25 Kb of information will be send per hour. The KNVvL has a global roaming contract, so the trackers will be able to communicate with every network. The data are send to the server of LiveTrack24.com. They are familiar with the numbers of our SIM cards, and gave them names (knvv1 to knvv60)

- A battery

An ordinary GSM phone battery should at room temperature last for at least 8 hours. In case of a malfunctioning battery it is advisable not to use the tracker anymore. The battery has to be replaced by a maintenance employee of the KNVvL. Do not open the tracker yourself!



Please note that the C, B and SOS buttons will not be used during the Euroglide.

LED information on the tracker:

RED LED – indicating Battery status	
Off	Tracker powered off
Flashing (every 0.1 second)	Low battery
On	Charging
Flashing (1 second on, 2 seconds off)	Working
BLUE LED – indicating GPS status	
On	A button is being pressed
Flashing (every 0.1 second)	The unit is being initialized
Flashing (every 0.1 second on, 3 seconds off)	GPS fix available
Flashing (every 0.1 second on, 2 seconds off)	No GPS fix available
GREEN LED – indicating GSM status	
On	Incoming or outgoing call
Flashing (every 0.1 second)	The unit is being initialized
Flashing (every 0.1 second on, 3 seconds off)	Connected to GSM network
Flashing (every 0.1 second on, 2 seconds off)	Not connected to GSM network



Use the trackers:

Like every cell phone, the tracker can interfere with your flight instruments. This depends on the location of the tracker.

The trackers should be placed at a location where GSM coverage is available. It is not recommended to place the tracker in the back of the fuselage, where GSM coverage is not possible.

To turn on the tracker, just press the power button on top of the device until the LEDs start flashing. The trackers will now start initialization. This may take up to several minutes, especially if it is the first time in a region, in border areas, abroad or not near a cell tower. IT IS IMPORTANT TO TURN THE TRACKER ON IN TIME! (push the button on top until the lights start flashing).

When the tracker is turned on, and initialized it should repeatedly give:
Red flash – blue flash – green flash – two seconds off

Initialization can take up to 5 minutes.

B-Button and SOS-button

After landing the pilot is able to give information via the tracker:

Pressing the B-button 3 times gives the signal: landed and OK.

Pressing the SOS-button 3 times gives the signal: landed and need help.

CAUTION: Those options will not be monitored by the Euroglide organisation. Please inform the organisation as written in the competition rules. In case of emergency contact the contest officials.

Charging the tracker:

Every tracker will be charged via the mini-USB plug. Teams will be provided with a USB cable. Be aware, there is no 220v to USB convertor delivered as they are not available from the KNNvL. Most of the GSM, IPAD and TomTom chargers have an USB port, therefore charging the trackers should not be an issue.

The charging cycle is about 3 hours.

Return the trackers to the organization

After the Euroglide, please return the trackers as written in the agreement. The refund of the deposit will only be made when a complete agreement form is available at the organization.

Follow the trackers online

A link to the correct webpage will be provided at <http://www.euroglide.nl>. Task information and daily progress reports will be provided on the Euroglide website only.