

# 1 Introduction

The program Version 1.2 was developed to meet the latest **departure procedure** requirements which are used by today's competitions. Ground speed and altitude are monitored at the departure (line crossing) and the pilot gets consequently very clear information about his start. A new **Competition Mode** may be used by competition pilots and this new feature will help to optimize LX 7007 manipulation during a competition flight to a minimum. Some new very useable features are also available:

- **Off course** indicator in Task, TP and APT graphic page
- **Steering** information also in all three graphic pages
- **Attitude gain** information during climbing period
- **Total average** info about the last thermal, during straight flight
- Setting of **AAT sector** radius up to 999,99 km

## 2 Detailed information

### 2.1 Competition Mode

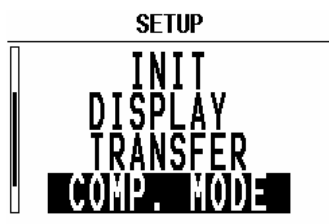
To relieve the pilot during competition flight some LX 7007 modes of operation are deactivated, immediately after Competition Mode is **enabled**. In this configuration, LX 7007 offers following modes of operation:

- Turn point
- Task
- Statistics
- Setup

All other modes are **not available** during Competition Mode active time, of course the Competition Mode can be any time **disabled** and all LX 7007 modes will be immediately ready.

#### 2.1.1 Competition Mode Enable

To enable Competition mode is necessary to use SETUP/ COMP. MODE menu and select Competition Mode enabled.



#### 2.1.2 Competition Mode Disable

The same procedure as enable.

## 2.2 Start line crossing info

The latest competition regulations include also **ground speed limitation and altitude limitation**. Exceeding of one of them means bad start and causes penalties as a minimum. LX 7007 1.2 monitors both parameters at the moment of start line crossing. If one or both parameters are out of limit, a **warning** will be activated which clearly informs the pilot about bad start. Both parameters should be previously entered by pilot in TSK menu. Opposite a good start will be accompanied by info about speed and the altitude.



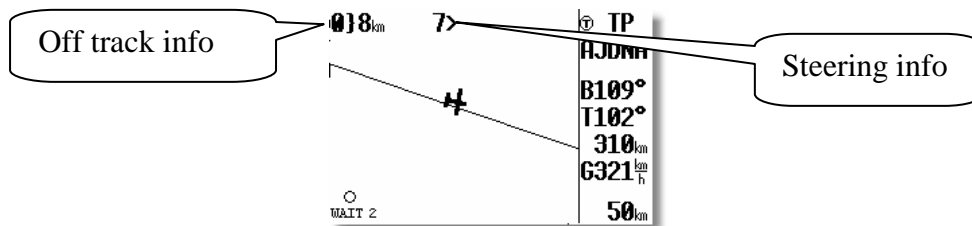
Good start



Bad start

## 2.3 Extended graphic page

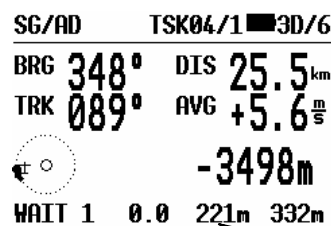
**Off track** information is for competition pilot very usable and important information. This information is now available in every graphic page, mode of operation doesn't matter.



Steering info consists of an **arrow symbol** and a **numerical figure**. The arrow may be oriented left or right and the orientation depends on direction to which the pilot should steer to come back to the course. The number informs about off course in degrees, it shows difference of actual track and bearing.

## 2.4 Altitude gain indicator

As the glider will **start circling** the altitude gain indicator will become active and will show continuously **altitude gain** of the actual thermal.



Altitude gain

As the glider will leave the thermal and will continue straight away a total average of the last thermal will be shown until next circling.

## 2.5 Total averager

This information is also available in the first navigation page of APT, TP or TSK, exclusively during straight flight. VAR/SC status doesn't matter. A T accompanied with figure and appropriate units shows division of altitude gain and time spent in the last thermal.

AIGEN	AIGEN	LOXA	APT
BRG	085°	DIS	292 km
TRK	360°	AVG	+0.0 $\frac{m}{s}$
	◦		-5243m
WAIT	2	0.0	10.0% 854m

Total average

Total averager may be also inquired during climbing period, it is necessary to switch into SC for a short time.