LX 7000 Display unit

Couple your Cambridge 302 to a proven, state of the art Graphical Display

1 1 System description

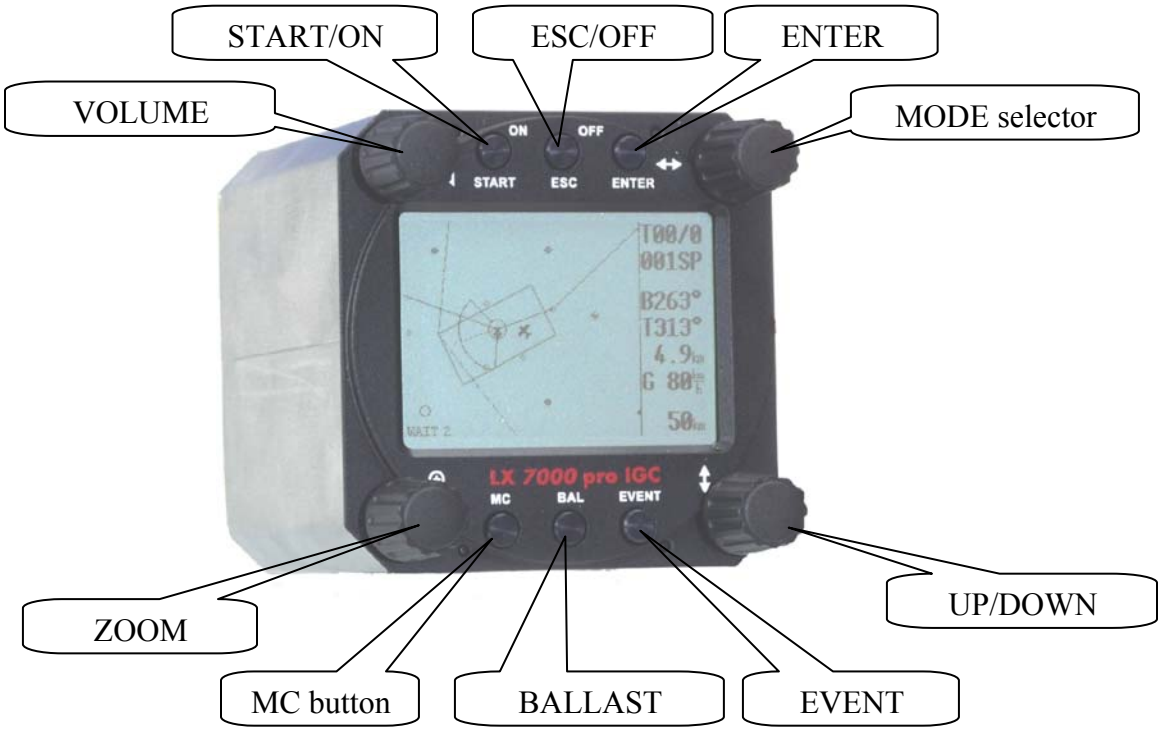
While the Cambridge 302 is a good variometer, it needs a graphical display unit if it is to be used as an effective soaring vario and navigation system. The Cambridge solution is to couple a PDA to the 302. However, there are many ergonomic problems with this solution and it is not ideal for mounting in a glider cockpit. Now LX Navigation have solved these problems by using the display of the LX7000 Pro and coupling it with a simple serial cable to the 302. The LX7000 display has all the functionality of a PDA but with improved ergonomics and many added features; all contained in a package that fits a standard 80mm (3") panel cutout.

2 2 LX 7000 Display Unit - Main Features

The LX 7000 display unit has an excellent pedigree as it is based on the well known LX7000 Pro vario navigation system which is a market leader.

2.1 2.1 Technical data

The most impressive features are the high resolution graphic display (160x240 pixels), coupled with the well known LX philosophy of using intuitive controls comprising four rotary switches and six push buttons.

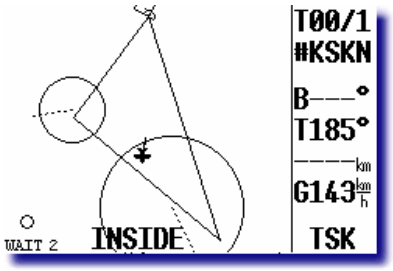


- Mounts in a standard 80mm (3") instrument cutout, with a length of only 90mm
- Requires only a 12 volt supply and a data cable to the 302

2.2 2.2 Gliding computer features

- Memory capacity for about 5000 airfields (US and European data bases available)
- Near airport function
- American, Canadian and European airspace data bases available
- Airspace warning

- Altitude warning
- Importing and editing airspace can easily be done using LX data base or DAFIF free data base
- Capacity for 600 pre programmed turn points
- Capacity for 100 pre-programmed tasks using the well known LX .DA4 format
- Full Assigned Area Task (AAT) capability using the 'zone' and 'move' functions



- Team function
- Five methods of wind calculation
- Final glide calculator, based on 302 pressure altitude
- Does not compromise the 302 IGC flight recorder capability
- Excellent statistics during flight based on the MC setting and vario indications giving accurate ETA and ETE, which are particularly useful during an AAT task
- Logbook and flight statistics available for analysis after the flight
- LXe Windows program for basic PC flight analysis, TP manipulation, task preparation and data transfer

3 3 System Highlights

- • Communication between the LX7000 DU and the 302 is based on the published Cambridge proprietary format
- • No special settings or modifications required on the 302, and all Cambridge functions, including the IGC approved recorder still operate.

- **Data received from the 302:**
  - GPS position
  - TAS
  - Vario reading
  - Pressure altitude

- **Commands sent to the 302:**
  - MC setting
  - Ballast,
  - Audio volume (volume on 302 can be changed rotating knob on LX 7000 DU)
  - IGC task **declaration** can be sent from LX 7000 DU directly to 302