

# LX Mini Map

## Short form catalogue

### LX Mini Map

LX Mini map is **Windows CE 5.0** running device which is supported by **sunshine readable** color display with **backlight** and **touch panel**. Aluminum housing makes the unit extremely robust and reliable. One back mounted 9P SUB D type connector is used for power and also for data input. The unit hasn't build in GPS receiver and needs external GPS source.

The unit is **designed and produced** by LX navigation and therefore meets all glider pilot requirements. Only high quality materials and components are used and this fact guaranties a long life time and also availability for many years.

SD card solution makes possible to run navigation programs **directly from SD card**, after using of auto run function, which is factory implemented. Immediately after power on, the unit is ready for use without any pilot manipulation and inputs.

Suitable **mounting frames** are also available and those devices makes possible to realize a panel integral solution. Otherwise the unit can be installed anywhere in the cockpit.



LX Mini Map

**Technical data:**

Size: **80 x110 x 27** mm

Weight: **350 g** without cable set

Display: **4,3 inch** (10.9 cm) 800x480 pixel, with touch panel

Power supply: **12V** DC

Consumption: **400 mA** @12 V DC

**CPU:**

Marvell PXA320 **806 MHz**

**Connectivity:**

1x RS232

1x SD Card

1x USB 1.1 device

**Running programs:**

SeeYou Mobile (PNA version), Sky map, Winpilot (PNA version beta)

## **LX Mini Map KB**

A plug and play **keyboard module** can be added to any LX Mini Map unit. The module consists of two rotary switches and 5 keys (two of them are parts of rotary switches). The signals from the rotary switches and keys are converted into PS2 commands and in that form sent to the CPU. Conversion is realized via microcontroller which is a standard part of the unit and under full LX Navigation control.



**LX Mini Map KB as “portrait”**



LX Mini Map KB as “landscape”

**Technical data:**

Size: **80x133 x27** mm

Weight: **360 g** without cable set

Display: **4,3 inch** (10.9 cm) 800x480 pixel, with touch panel

Power supply: **12V** DC

Consumption: **400 mA** @12 V DC

**Keyboard** module (5 push buttons, 2 rotary switches)

**CPU:**

Marvell PXA320 **806 MHz**

**Connectivity:**

1x RS232

1x SD Card

**Running programs:**

SeeYou Mobile (PNA version), Sky map, Winpilot (PNA version beta)

1x USB 1.1 device

# LX Mini Map KB-V

An **extension to LX system bus** makes possible to connect LX Navigation Vario module as a part of the system. Such a configuration builds a real **Vario/Navigation** system. Vario unit is controlled by knobs and rotary switches, which are built into LX Mini Map keyboard module and therefore the Vario module doesn't need any input devices. A **Junction Box** is a part of the system and makes possible to connect Vario unit, GPS source and some other bus participants to the LX Mini Map.



LX Mini Map KB-V as “landscape”



LX Mini Map KB-V as “portrait”

**Technical data:**

Size: **80 x133 x 27** mm

Weight: **360 g** without cable set and Vario unit

Display: **4,3 inch** (10.9 cm) 800x480 pixel, with touch panel

Power supply: **12V** DC

Consumption: **400 mA** @12 V DC

**Keyboard** module (5 push buttons, 2 rotary switches)

**Junction box** for bus extension and GPS input

**CPU:**

Marvell PXA320 **806 MHz**

**Connectivity:**

1x RS232

1x SD Card

1x USB 1.1 device

**Running programs:**

SeeYou Mobile (PNA version), Sky map, Winpilot (PNA version beta)

# *LX Mini Map Installation Solutions*

## 1 General

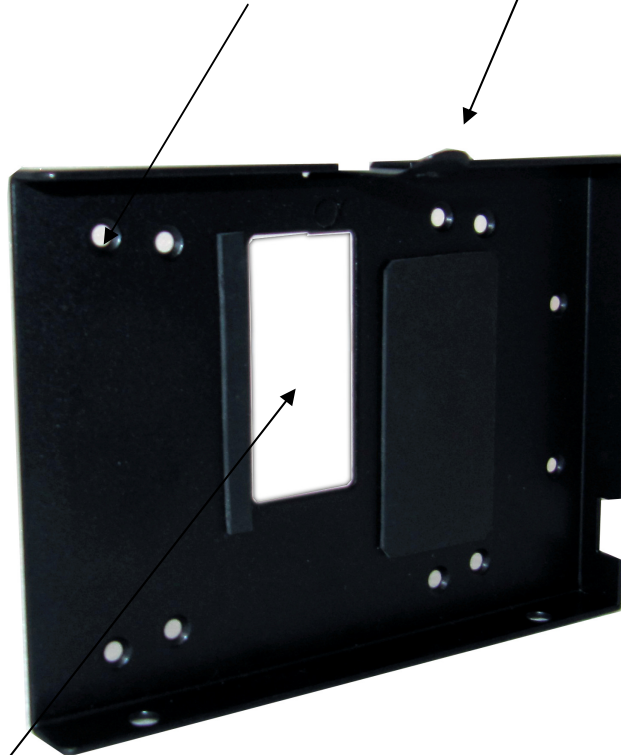
The unit comes with a suitable **mounting frame** which makes possible to install the unit in any cockpit. A **snap in fixation** system makes insertion and also reinsertion very easy. Delivery included is also a suitable **harness** which depends on mounting frame type. A part of harness is also a Junction Box and this device enables an absolutely plug and play installation of electrical connections.

## 2 Mounting frames

The mounting frames are black colored aluminum parts which are coming in several variants; the variant depends on installation intentions.

### 2.1 Basic mounting frame

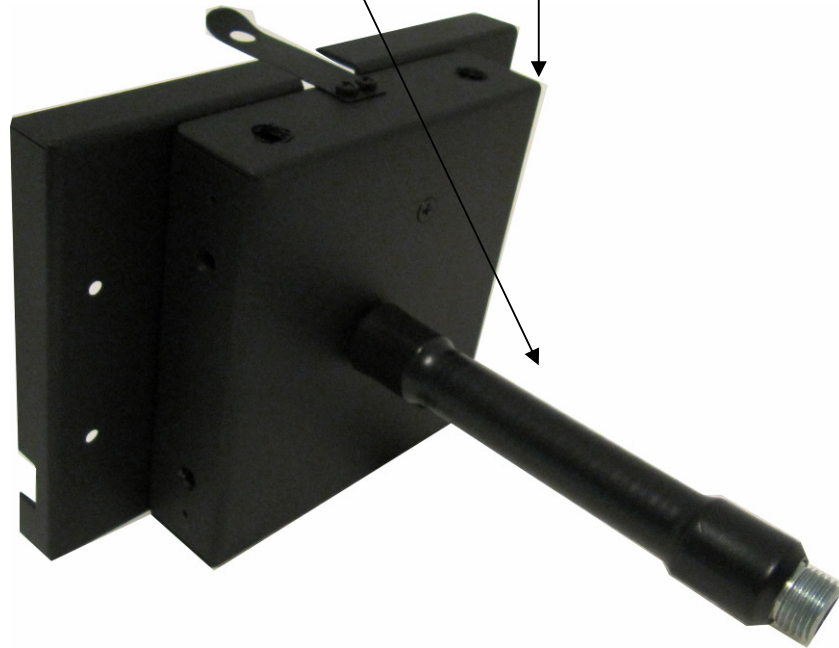
Consist of an aluminum black painted plate with snap in **fixation device** and four holes which makes possible to install the unit over **one 80 mm** standard cut out.



A cut out for **9 P connector** is situated in the central part of the frame. **Landscape** and also **portrait** orientation is possible.

## 2.2 Advanced mounting frame

This is an extension of basic version and can be used in cases where the Mini Map won't be installed on the panel surface. Another back mounted **aluminum part** is added to the basic version, where a 9P connector and a **gooseneck** are mounted. As the unit is snapped in also all electric connection are done automatically. This makes possible to use LX Mini Map in different gliders.

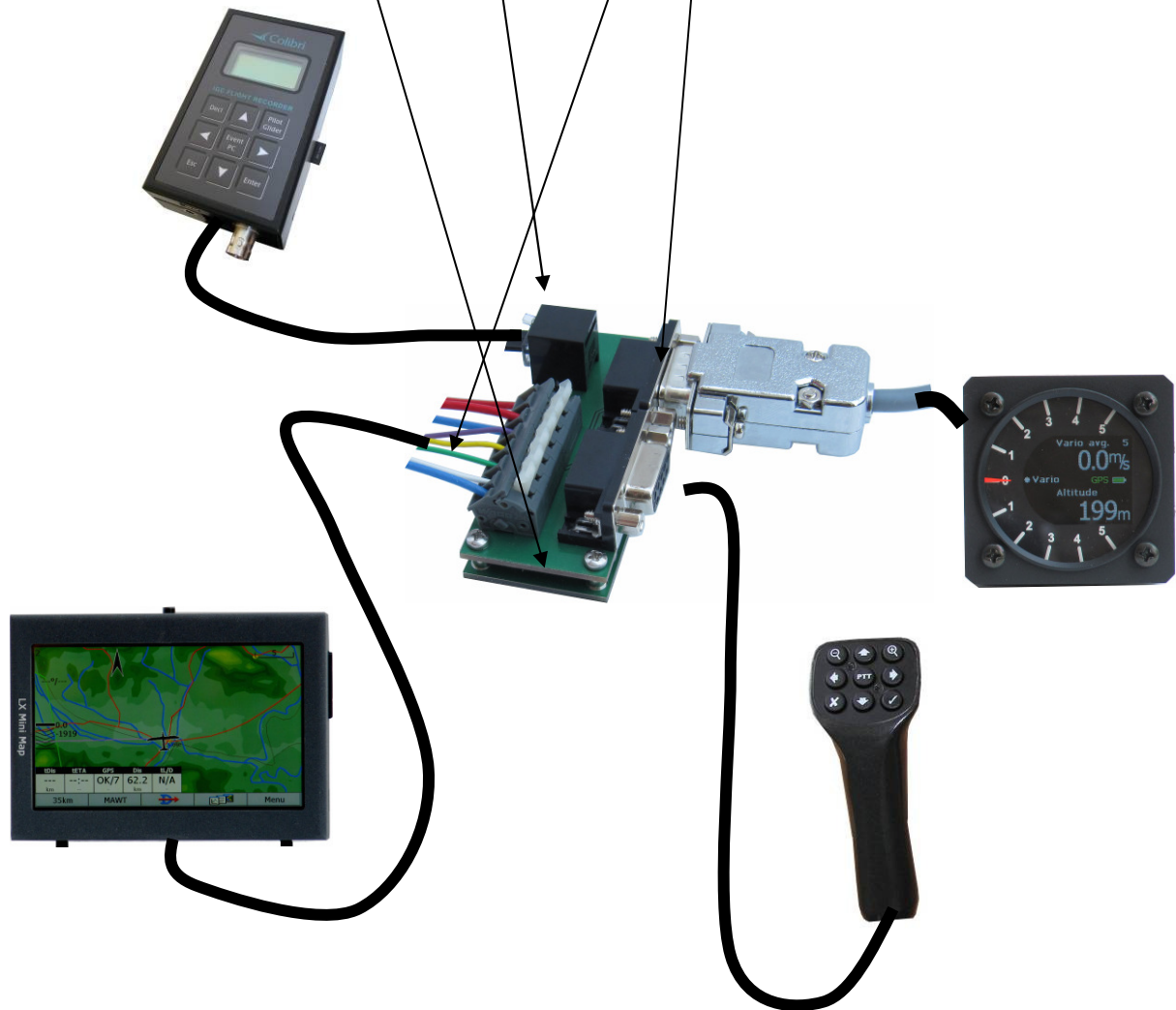


**Landscape** and also **portrait** orientation is possible.



### 3 Junction Box

Every unit comes with **Junction box**; this is in fact a printed circuit board with one 6P telephone type connector for **GPS connection**, two **9P SUB D** connectors for connection of vario unit and possible interfaces and a **spring terminal block**. The spring terminal block terminates the wires coming out of LX Mini Map.



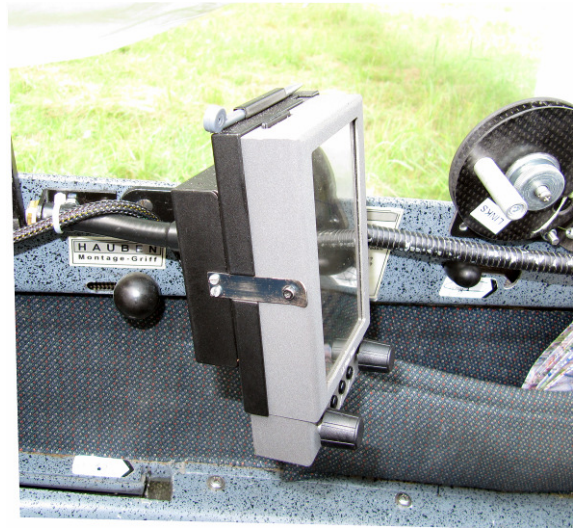
## 4 Gallery



On panel installation controlled by LX Remote stick



On panel installation controlled by keyboard module



Out of panel installation after using of gooseneck



Out of panel installation after using of existent PDA support