

LX Flarm Color Display

Preliminary

1 General

The unit consists of a high quality color graphic display, microcontroller and a robust aluminum case.

A Flarm compatible 6P telephone type connector is used as a power and data input.

To operate the unit there is a **multifunctional push button** on the front of the unit. The button can execute 5 different commands (left/right, up/down and press). Two **LED** green and red are used for visual information and a beeper is built in for audio warnings.



The unit offers a broad setup menu where the pilots are able to realize their personal preferences.

2 Setup

Setup is one of the pages which are available after using the multifunction knob left/right. After the page is reached many options are offered, their selection follows after using the multifunction knob up/down.



- MUTE will deactivate or activate beeper
- NEAR MODE ON, or OFF*
- ZOOM will define range of the display
- VOLUME will set beeper intensity
- UNITS will set unit
- BAUDRATE to match baud rate with Flarm unit
- LCD FLIP will rotate display 180 degrees

* If near mode has been enabled (NEAR MODE ON), the red LED will always go ON when a signal from at least one Flarm-device will be received. If near mode is OFF, the red LED will be on only in case of a warning.

3 Description of functions

3.1 Status without collision warning

During this status a so-called Flarm “radar” screen is active. All detected Flarm-devices are visible on the screen, represented with glider **symbols** or **dots**. The symbol depends on the Flarm setting of near gliders (Stealth status). Setup is available without any limitations.



The green LED describes the GPS status of the Flarm unit: flashing means GPS status is bad. The red LED is active exclusively during warning status.

3.2 Collision warning

In case of a collision risk a special so-called “warning screen” becomes active. It is important to point out that the “warning screen” indicates only one glider at a time. More gliders with a warning status may be present!



The direction of the impacting glider is marked with a **yellow big dot** on the display and the **red LED** becomes active (flashing).

3.3 Near glider detailed information

If the pilot has interest to acquire some more detailed information about one of the near gliders, it is necessary to select the glider of interest by using the multifunctional knob **up/down** key. After selection, the data about **vario** and **relative altitude** of the near glider will be displayed.



Selection is visualized with the **line** which is connecting the centre of the display and the glider symbol. If the near glider is also a member of the list of customized gliders, its ID will appear in the upper-left corner.

4 Flarm ID customization

The unit is capable to store up to 50 glider completion numbers consisting of up to 3 characters. The ID will be displayed in the upper-left corner of the display when that glider's Flarm-device is detected. Manual input of a new glider ID is possible when the glider of interest is in the vicinity (meaning: displayed on the screen).

5 Installation

The unit doesn't require special installation works. Unit dimensions:

- 62x38x14 mm

5.1 Mechanical installation

On the back side there are two M 2.5 nuts inserted into the case which are designed to be used for fixing. A rectangular hole for 6P telephone type connector passage should also be made.

5.2 Electric installation

In general the unit should be connected to a Flarm unit via the 6p/6p telephone type cable.