LXNAVIGATION

# PowerFLARM Eagle

## user's manual


www.lxnavigation.com

# PowerFLARM Eagle 2022


***Device manual***

- LX navigation -

May, 2025

LXNAVIGATION

Tkalska ulica 10
SI-3000 Celje
Tel.: 00 386 3 490 46 70
Fax.: 00 386 3 490 46 71
info@lxnavigation.com
www.lxnavigation.com

# Document information

## 0.1 Abstract

This document represents the user manual for the PowerFLARM Eagle 2022. The installation manual, technical datasheet and additional info can be found on **www.lxnavigation.com**.

## 0.2 Document status

**Document status: PUBLIC**

| Document status | Explanation |
|---|---|
| Internal | Intended only for LX navigation staff |
| Public | Available publicly to all |
| Personal | Intended for a specific person and/or company, noted on this page |
| Dealer | Intended for a specific dealer, noted on this page |
| Manufacturer | Intended for a specific manufacturer, noted on this page |

## 0.3 List of applicable products

| Device | HW Version |
|---|---|
| PowerFLARM Eagle 2022 | 1.0 |
| PowerFLARM Eagle 2022 | 2.0 |

## 0.4 Revision history

| Document name | Document revision | SW version | Build | Date | Revised by | Approved by | Notes |
|---|---|---|---|---|---|---|---|
| LX_FEUM | R1 | 1.1 | 321 | 6.1.2023 | A.S. | N.S. | initial edition |

# Contents

# Important notices

## 1.1 Using this manual

This manual has been created in LaTeX, giving us the possibility of linking up everything we find linkable. You will find references to other parts of the manual, to other manuals, webpages, etc. throughout the manual.

Linkable content will be **bold and underlined**, i.e. you can find additional info on how to take care of your Era in the **Taking care of your PowerFLARM Eagle** section of this manual (click on the underlined text).

**NOTE**
The most recent version of this manual will always be available at
**https://lxnavigation.com/support/**

## 1.2 Device operating limits

This instrument may be used under VFR (Visual flight rules) only! Any navigational information is provided for reference only. The pilot takes all responsibility and risk associated with the use of this device.

Have a nice flight.

## 1.3 Limited warranty

This device is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, LX navigation will, at its sole discretion, repair or replace any components that fail in normal use. Such repairs or replacements will be made at no charge to the customer for parts and labour, the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alterations or repairs.

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The manufacturer does not take the responsibility for possible mistakes or misprints in this text and gives no guarantee for accuracy of this manual. This manual has been written with the greatest care and we have done our best to avoid any mistakes but with all respect please check any doubtful statement and let us know. We would be very grateful and we thank you in advance for any comment.

## 1.4 Sunburned display

Damages to the device, especially the display part, are not covered by the warranty and will be considered as misuse of the device. To learn how to take care of your display and device in whole, check the **Taking care of your PowerFLARM Eagle** section of this manual.

## 1.5 Disclaimer/EULA

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# Getting started

## 2.1 Device overview

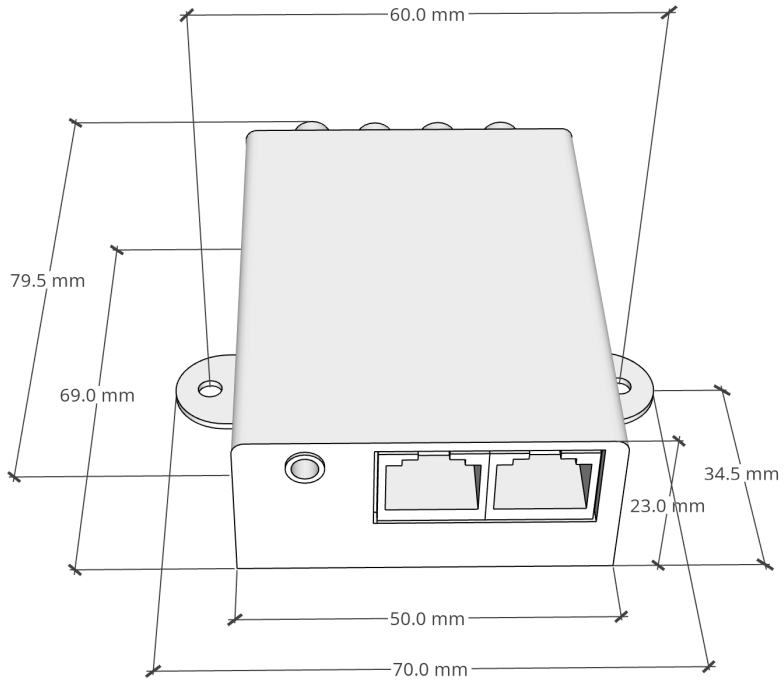


Figure 1. Dimensional overview

PowerFLARM Eagle is the latest PowerFLARM OEM product designed and manufactured by LX navigation with full functionality and connectivity. It has the smallest dimensions on the market.

FLARM is the traffic awareness and collision avoidance technology with over 50.000 active aircrafts. In Europe, essentially 100 % of gliders have FLARM® and would never fly without it.

FLARM® works by calculating and broadcasting its own future flight path to nearby aircraft. At the same time, it receives the future flight path from surrounding aircraft. An intelligent motion prediction algorithm calculates a collision risk for each aircraft based on an integrated risk model. When a collision is imminent, the pilots are alerted with the relative position of the intruder, enabling them to avoid a collision.

Each FLARM® system determines its position and altitude with a sensitive GPS receiver. Based on speed, acceleration, track, turn radius, wind, altitude, vertical speed, aircraft type,

and other parameters, a precise projected flight path can be calculated. The flight path, together with additional information such as a unique identification number, is encoded before being broadcast over an encrypted radio channel twice per second.

FLARM® is approved by EASA for fixed installation in certified aircraft. EASA supports FLARM® as it significantly decreases the risk of a mid-air collision between participating aircraft. FLARM® has been referenced in several EASA publications, including being approved as a Standard Change.

PowerFLARM Eagle features:

- IGC + ENL flight recorder
- Second FLARM® antenna (Diversity module)
- ADS-B in (With ADS-B collision warnings)
- External USB A port for data transfer
- WiFi ® connectivity
- Bluetooth ® connectivity
- FLARM Configurator WiFi Portal accessible with your smartphone for configuring your FLARM device and displayable data, export and import various files and connect with LX Cloud.

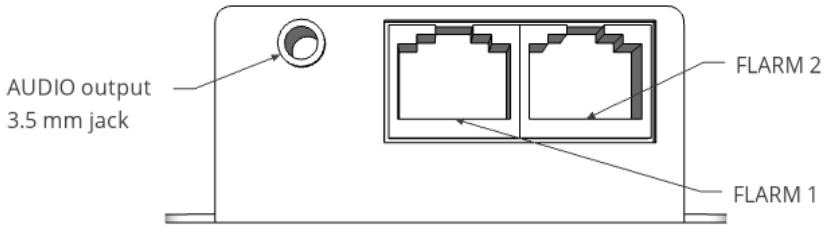


Figure 2. Front side connections

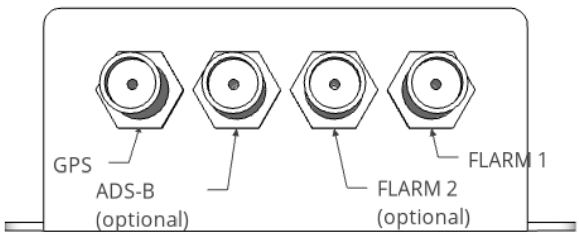


Figure 3. Back side connections

**NOTE**

For mounting and installation instructions please refer to the PowerFLARM Eagle Installation manual (Document LX_FEIM)

# Basic operation

## 3.1 Turning the unit on

To turn the unit on, provide the unit with the power supply. Unit will turn on automatically when power is applied. Power supply can be provided on any of the two available data/power ports (RJ45). Device is typically operational within 1 minute after applying power if sufficient GNSS reception is provided.f
For more details on the power supply please refer to the PowerFLARM Eagle installation manual (Document LX$_{F}EIM$).

## 3.2 Operation mode

Some PowerFLARM Eagle units are equipped with operation mode switch.

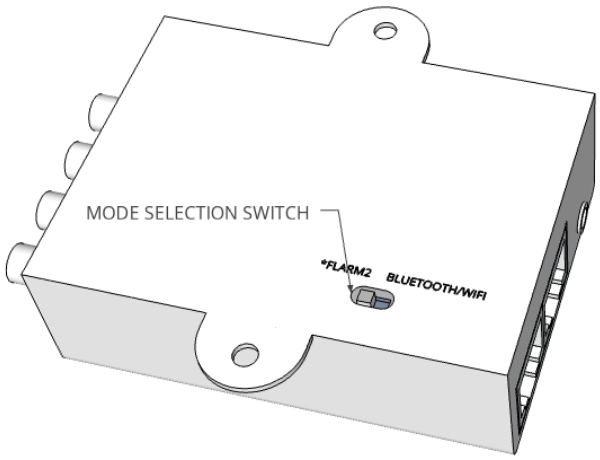


Figure 4. Operation mode switch location

Operation mode slide switch is located on the bottom side of the unit. The position of the switch can be changed using a pen or similar pointy object. This prevents the switch from accidentally changing position.
There are two modes of operation:

- BLUETOOTH/WIFI
- *FLARM2

In case WIFI mode is selected, the PowerFLARM Eagle itself is the configuration device. FLARM module can be configured by the user using built-in WiFi configuration portal. In such

a case *FLARM2 port can be used as an output port only. This means we can connect only monitor devices to the *FLARM2 port.
In case *FLARM2 mode is selected, the *FLARM2 port acts as a fully operational configuration interface (output and input). This means that devices with capability to configure the FLARM module can be connected to the *FLARM2 port. In this case the WiFi portal can not be used for configuring the FLARM module.
However in case your PowerFLARM Eagle is not equipped with Operation mode switch, it means it is capable of operating the the hybrid mode. In this mode FLARM module can be configured both via *FLARM2 port or through WiFi portal.

## 3.3 Device interface

When PowerFLARM Eagle is turned on it creates WiFi access point. Access point name (SSID) consists of text "LX FLARM Eagle" and serial number of the unit (Exp. LX FLARM Eagle 1234). The network authentication key/password can be found on the back side of your unit.
After joining the network using a personal device (tablet, smartphone, PC, etc), the Power-FLARM Eagle built-in WiFi configuration portal shows up automatically.
WiFi portal then serves as the main user interface for configuring the unit, checking it's status, perform updates, access logbook, etc.
More about the portal functions in the Advanced operation section.

**NOTE**
In case the portal is not shown automatically, open a web browser and enter url: 192.168.4.1

## 3.4 Audio/Voice

PowerFLARM Eagle features audio warnings which are being output on the 3.5 mm standard audio jack. This provides an audio signal to an audio panel, an intercom or an external speaker (max power 5W).

The audio/voice output volume is adjustable as well as warning types enabled/disabled in System Configuration.

## 3.5 Performing an update

PowerFLARM Eagle is constructed from two modules: Flarm module, Eagle module. Each module is updatable by procedures described below.

### 3.5.1 Updating Flarm module

The Flarm module can be updated in two ways. Either using a USB key or via built-in WiFi configuration portal.

There three types of updates that can be uploaded to Flarm module:

- Firmware
- Obstacle database
- License file

Each type of update is performed in the same way.

The Flarm firmware update file is published on www.lxnavigation.com under section “Support”.

**NOTE**
Obstacle database and License files are created by FLARM and depend on module serial number. Therefore they are not published on the LX Navigation website.

**Updating using USB key:**

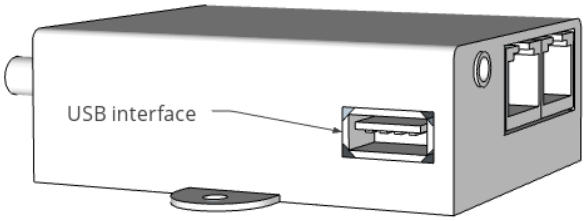


Figure 5. USB interface

In order to update Flarm module, follow the steps:

1. Save the downloaded update file to the root of the USB key.
2. Insert the USB key into the unit.
3. Turn the unit on.
4. Wait. The unit will update on its own. Typical duration is less than 5 minutes.
5. After an update the unit will restart and boot into a new version.

**Updating using WiFi portal:**
WiFi configuration portal is accessible by connecting to the unit’s access point using a personal device (tablet, smartphone, PC, etc). After successful connection, the portal shows up automatically.

**NOTE**
In case the portal is not shown automatically, open a web browser and enter url: 192.168.4.1

In order to update Flarm module, follow the steps:

1. Save the downloaded update file to the device you will use while connecting to the portal.
2. Connect to the portal.
3. Go to “Transfer” > “Update FLARM module” (check note below).

4. Choose the previously downloaded file and click “Upload”.
5. Status message at the bottom of the page will indicate the progress of the upload. At the end message: “Finished uploading. Please, restart the device.” shows up.
6. Restart the unit manually.

**NOTE**
For uploading an Obstacle database or License file go to “Transfer” > “Update database” or “Transfer” > “Update license” in step 3.

### 3.5.2 Updating Eagle module

Eagle module firmware is user updatable via built-in WiFi configuration portal only. WiFi portal is accessible by connecting to the unit’s access point using a personal device (tablet, smartphone, PC, etc). After successful connection, the portal shows up automatically.

**NOTE**
In case the portal is not shown automatically, open a web browser and enter url: 192.168.4.1

Eagle module firmware update contains two files: application part and file system part.

**Check the current firmware version**
In order to check the current firmware version (application and file system parts) follow steps:

1. Connect to the portal.
2. Go to “System info”.
3. Under the section “System” there are attributes “Firmware version” (application part) and “File system version” (file system part).

**Update application and file system part**
The latest firmware is published on www.lxnavigation.com under section “Support”.

Download and extract the archive. There are separate binary files for application and file system part. Save those files to the device you will use while connecting to the portal (smartphone, tablet, PC, etc).

**NOTE**
It is recommended to first update the application and then file system part.

To update application follow the steps:

1. Connect to the portal.
2. Go to “Transfer” > “Update Eagle”.

3. Under the “Application” section choose the application file. (named FlarmEagle_ESP32_1.0.160.bin or similar).
4. Click “Upload” (button in “Application” section).
5. Status at the bottom of the page should now show the message: “Uploading... This might take a while”. Wait until the message “Finished uploading” pops up. The unit will then automatically restart.

**NOTE**
The latest versions use file extension .app instead of .bin for application update.

To update file system follow the steps:

1. Save the downloaded update file to the device you will use while connecting to the portal.
2. Connect to the portal.
3. Go to “Transfer” > “Update Eagle”.
4. Under the “File system” section choose the file system file. (named FlarmEagle_esp32_spiffs_1.0.161.bin or similar).
5. Click “Upload” (button in “File system” section).
6. Status at the bottom of the page should now show the message: “Uploading... This might take a while”. Wait until the message “Finished uploading” pops up. The unit will then automatically restart.

**NOTE**
The latest versions use file extension .sfs instead of .bin for file system update.

## 3.6 Turning the unit off

To switch off the device, cut off the power supply. There are no special procedures required to switch off the unit.

# Advanced operation

This section will cover the complete specter of unit's built-in WiFi configuration portal.

Detailed description on how to connect to configuration portal is described in section Device interface.

There are 7 primary menu items in the portal main menu a.k.a. dashboard. The items are listed as follows:

1. **System info**
2. **Status**
3. **Configuration**
4. **Transfer**
5. **Logbook**
6. **Traffic Monitor**
7. **Range Analyzer**

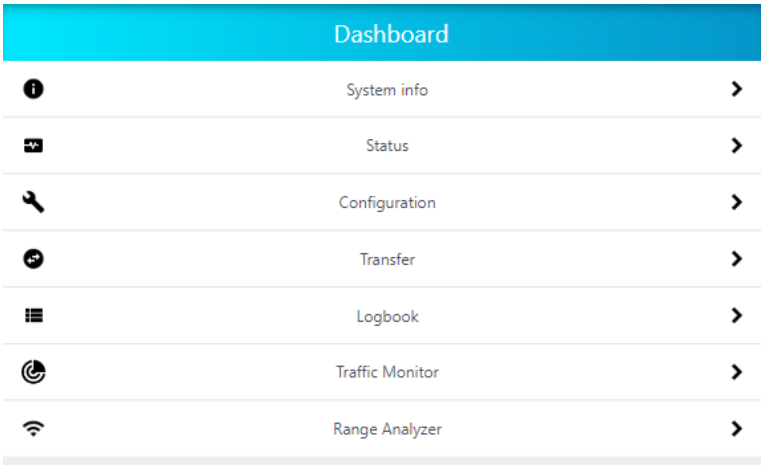


Figure 6. Dashboard overview

## 4.1 System info

This page displays detailed information about the unit and it's components. As mentioned in section Performing an update, unit consist of FLARM module which actually performs traffic awareness and collision avoidance functions and Eagle module which serves connectivity and configuration purposes.
Information is divided into four logical sets:

- **FLARM** - contains FLARM module related info,
- **System** - contains Eagle module related info,
- **Database** - shows current obstacle database info,
- **Development** - shows development information used for debugging and possible issue analyzing.

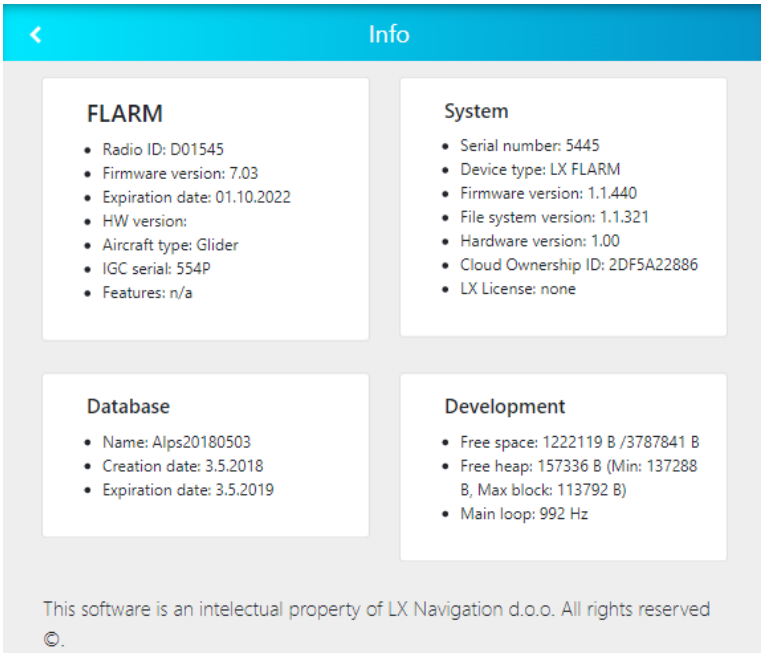


Figure 7. System info page

## 4.2 Status

Status page serves a focal point for checking the current unit's operational state. There are two colour indicators separately showing current FLARM and GPS signal status (green for OK and red for BAD signal).
There are two additional colour indicators which are by default gray and blink green when signal is transmitted or received on FLARM antennas.

There is a separate set of attributes related to GPS status. For 3D position a signal from a minimum of 4 satellites have to be received. However 6 or more is desirable.

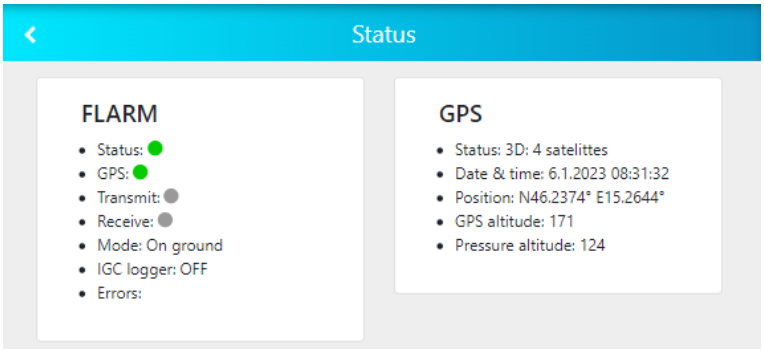


Figure 8. Status page

**NOTE**
When installing GPS antenna follow guidelines from PowerFLARM Eagle Installation manual (Document LX$_{FEIM}$).

## 4.3 Configuration

The main feature of PowerFLARM Eagle is it's capability and ease of configuring the unit via WiFi configuration portal.

Configuration is divided into three logical sets.

### FLARM

FLARM configuration is a set of parameters that are being send directly to FLARM module. Besides portal, these settings can be configured by the use of the config file stored on the USB flash drive or via FLARM port using FLARM data port interface protocol as well. Please check section USB configuration or FLARM document FTD-012 Data Port Interface Control Document.

Keep in mind that some parameters shown on the figure FLARM configuration depend on the FLARM module features and loaded licenses. For example ADS-B ranges are available only if ADS-B in license is loaded.

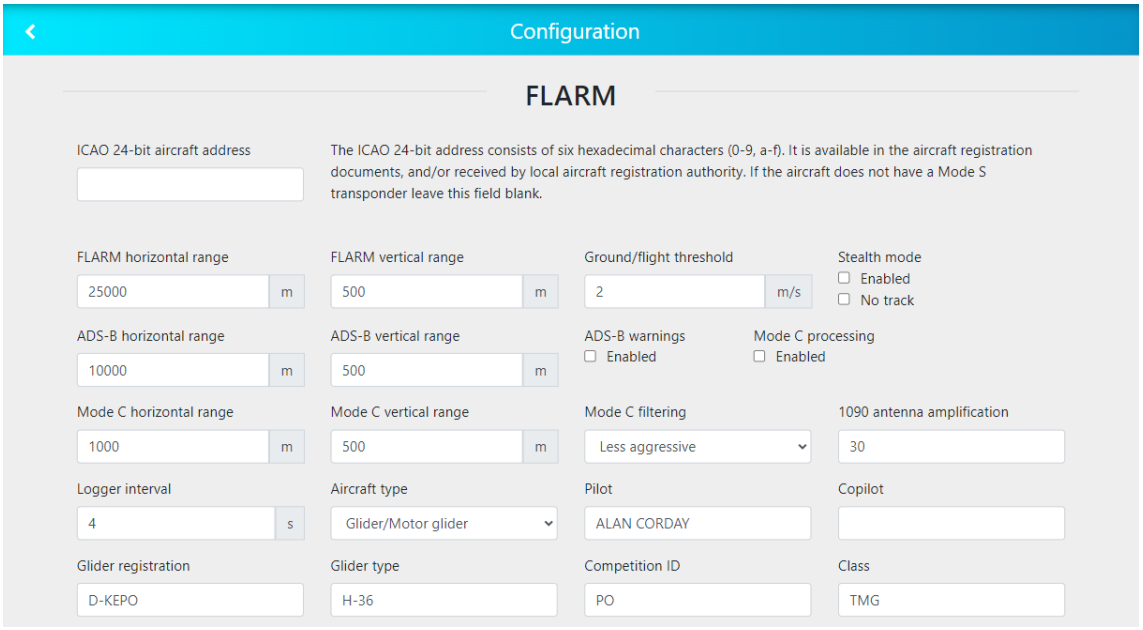


Figure 9. FLARM configuration

### System

System configuration is a set of settings related to connectivity and voice/audio features.

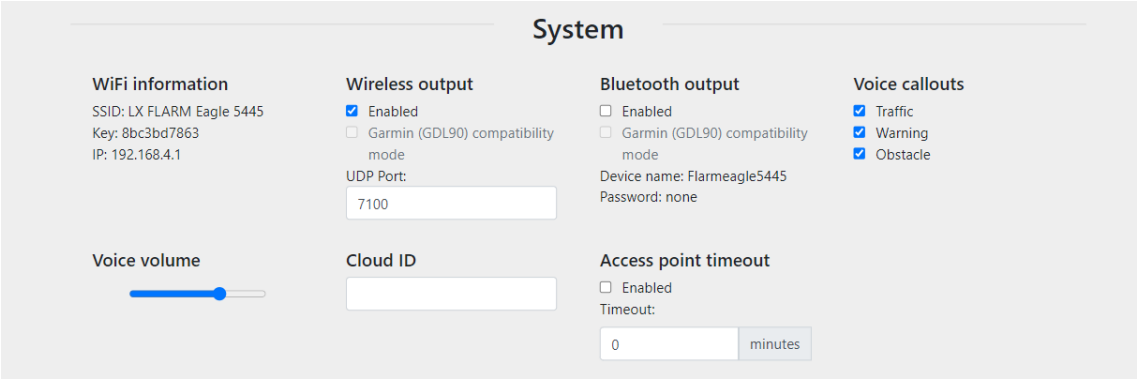


Figure 10. System configuration

### Units

Unit settings are used for personalizing Traffic Monitor display.

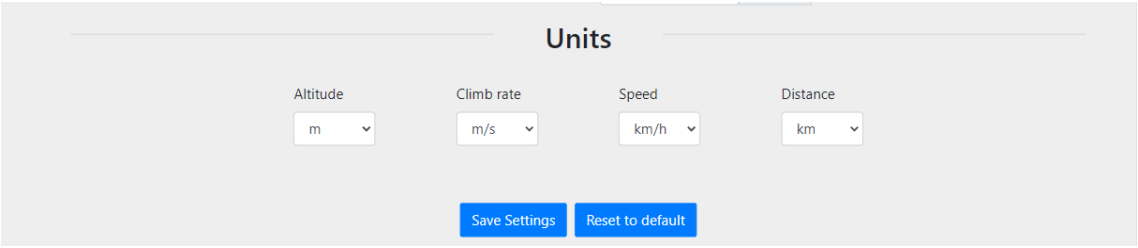


Figure 11. Units

## 4.4 Transfer

This page features a sub-menu for uploading and downloading files from the unit.

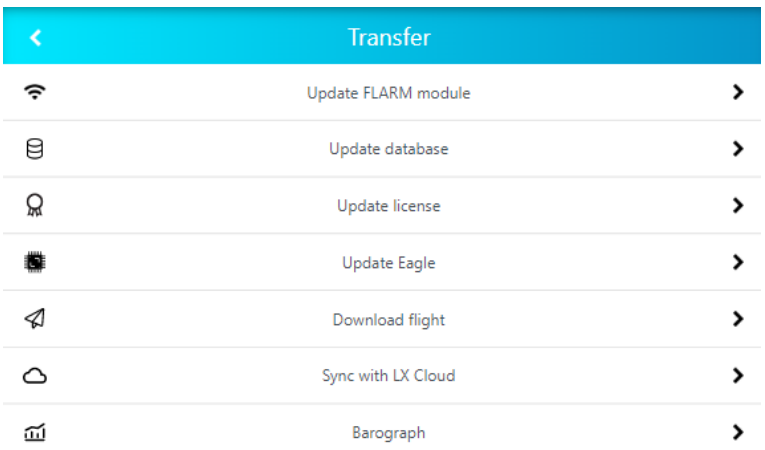


Figure 12. Transfer sub-menu

### FLARM firmware, obstacle database and license

Flarm module firmware, obstacle database and license files can be uploaded/updated using these pages.
The desired file is selected with system dialog after pressing "Choose file". The upload is initiated with button "Upload".
Status message at the bottom of the page will indicate the progress of the upload.

Details on updating Flarm module can be found in section Performing an update.

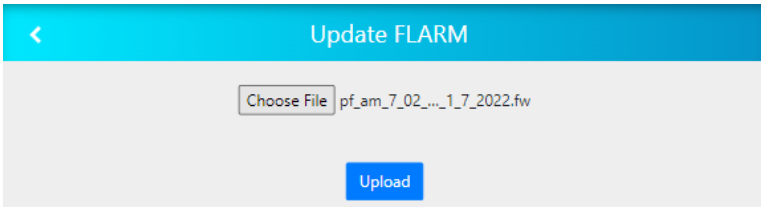


Figure 13. Flarm module update

### Eagle firmware and file system

Eagle module firmware and file system can be updated using these pages.

Details on updating Eagle module can be found in section Performing an update.

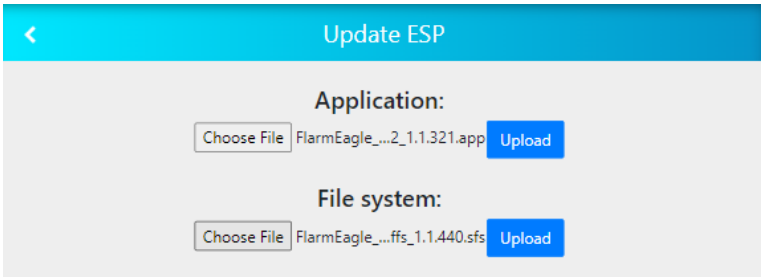


Figure 14. Eagle module update

### Sync with LX Cloud

Flights recorded on PowerFLARM Eagle can be synchronized to LX Cloud.

The unit will list the available networks as on figure Select network. In case the unit was previously already connected to the network that is currently available, it will first prompt user whether he or she wants to connect to that network or to select another.
If option to connect to the last network is selected, PowerFLARM Eagle will automatically connect using same credentials as previously. If other network is desired, user will be prompted to enter new network parameters. This is normally network authentication key/password only. In case the network uses static IP addressing, additional options display after checking "Static IP DNS" checkbox.

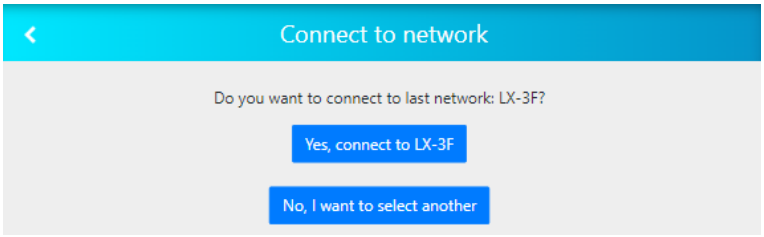


Figure 15. Connect to last network

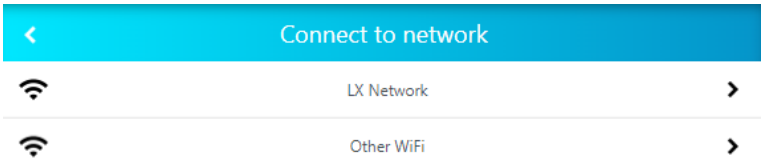


Figure 16. Select network

After the connection is established PowerFLARM Eagle uploads flights to LX Cloud.

In the mean time the portal will shutdown and unit's access point won't be accessible. This due to the fact the network module can only work either in the access point or client mode. But not both at the same time.

**NOTE**
Keep in mind that User Cloud ID has to be entered in System Configuration for this feature to work.

Details on LX Cloud features can be found in section Cloud services.

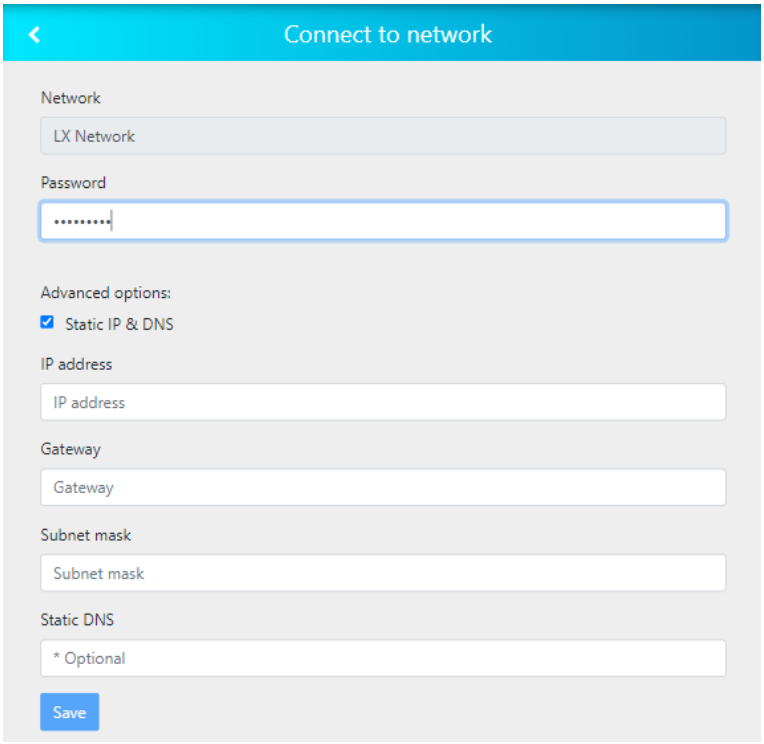


Figure 17. Set network parameters

### Barograph

Each unit with IGC logger features is simulated altitude tested in factory. The resulting barograph is supplied with the unit physically on the paper and electronically in the unit's internal memory.
Electronic version can be recalled using this menu (button "Download PDF"). In case the new altitude test is being performed in the lifetime of the unit, it can be uploaded into unit's internal memory using the same menu (button "Update file").

**NOTE**

If a new file is uploaded into PowerFLARM Eagle's internal memory, the old factory generated file is overwritten. It is strongly recommended that before new file is uploaded, the old one is downloaded and safely stored.

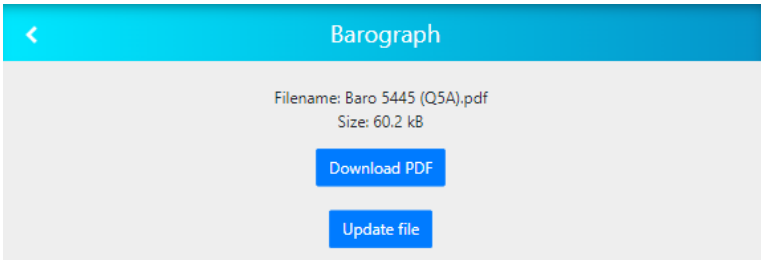


Figure 18. Barograph

## 4.5 Logbook

The most convenient way to download flight is via USB flash drive, as it is an automatic procedure. FLARM module will store all finished flights from internal memory to USB flash drive (if it is inserted). Stored flights can be viewed on PC (.igc format).

However if having USB flash drive inserted into PowerFLARM Eagle all the time is not convenient, flights can be viewed and downloaded directly to mobile device from configuration portal as shown on the figures: Flights overview and Flight details.

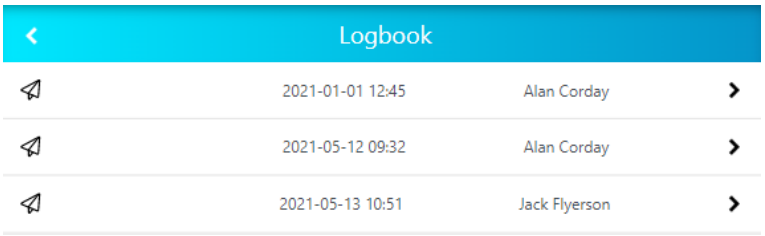


Figure 19. Flights overview


Figure 20. Flight details

## 4.6 Traffic Monitor

This page features a FLARM radar page that can be used for traffic awareness in case no dedicated FLARM compatible display is connected on the unit or for testing purposes.

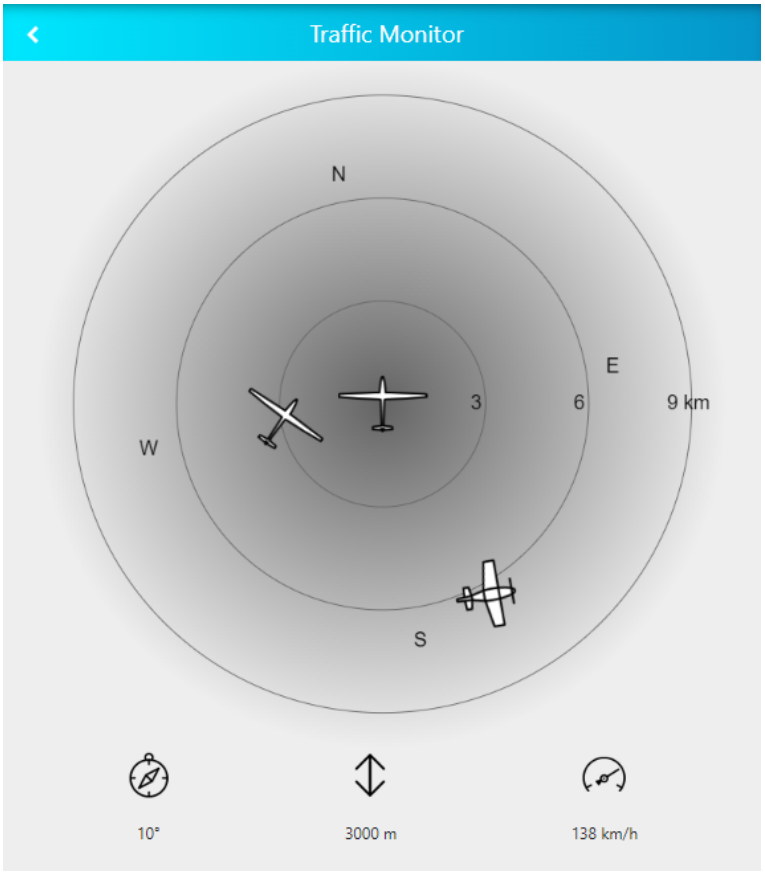


Figure 21. Traffic Monitor page

**WARNING**
This page does not feature any warning capabilities, only the traffic awareness bird view.

## 4.7 Range Analyzer

This page features a FLARM antennas range anylizer tool. It is highly useful for determining the antenna locations on the airplane. Range of each antenna is shown in 20 18° sectors in green and blue colour. The red line represents minimum recommended range for each sector.

For the tool to work, it needs previous contacts. Contact means a reception from other FLARM equipped airplanes. More contacts basically means better statistics. However if the period of recording is too long a recent degradation of antenna range stays hidden. It is therefore recommended to reset statistics at least once per year (annual inspection) or after a change in the airplane equipment is performed.

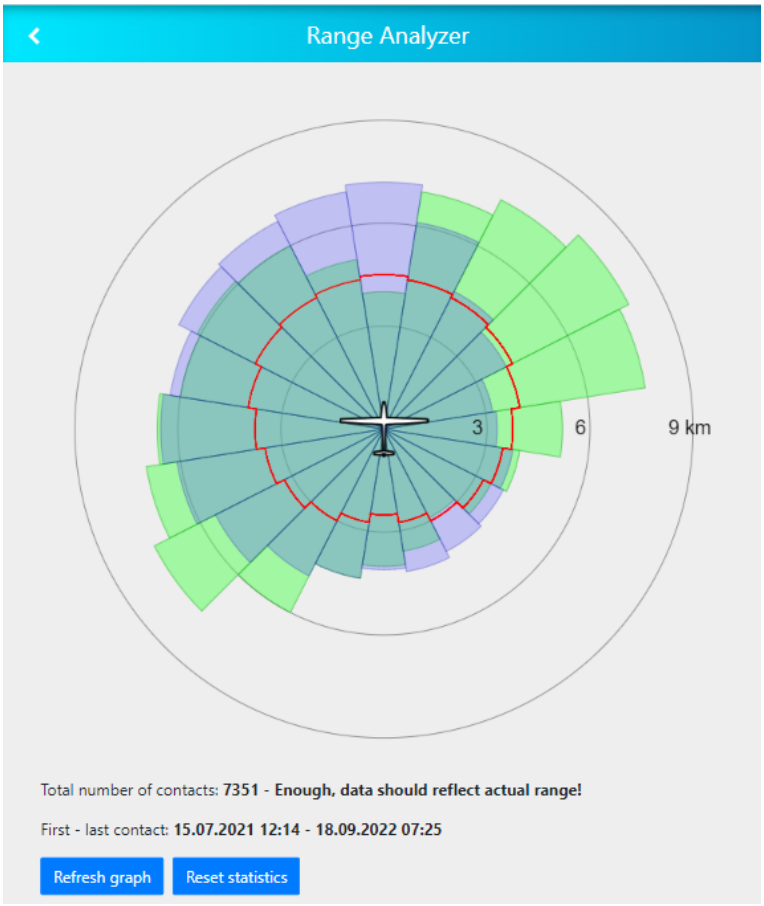


Figure 22. Range Analyzer page

## 4.8 USB configuration

Besides the WiFi configuration portal, PowerFLARM Eagle can be configured by the use of the config file stored on the USB flash drive as well. This is done using on-line software FLARM CONFIGURATION TOOL from flarm.com (can be found under Support/Tools Software.)

USB interface is located on the left side of the Power FLARM Eagle casing.

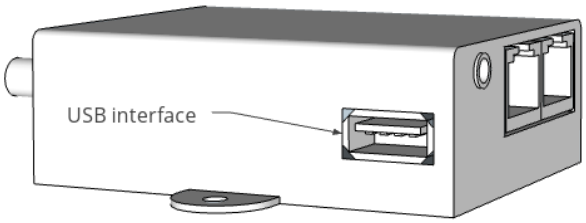


Figure 23. USB interface location

# Taking care of your PowerFLARM Eagle

If you were taken here by following the link from the introductory part of this manual, you can get back by clicking on the underlined text - **Using this manual**.

## 5.1 Device housing

By FAI IGC rules, visible external damages to the housing of the PowerFLARM Eagle can void your competition, record or badge flight, from being processed as valid. Care should be taken not to damage the housing and the 'Data not valid if seal is broken' stickers not to be torn up.

## 5.2 RJ connectors

RJ connectors (RJ12 and RJ45) on the front of the PowerFLARM Eagle are used for connecting FLARM compatible devices like dedicated displays, etc. If the cable is pulled out, without pressing the plastic security pin, the internals of the Eagle's connector may break and get ripped out. One should always be careful when taking the cable out, to press the security pin completely.

## 5.3 USB connector

The PowerFLARM Eagle features a USB 2.0 A interface on the left side of the device. The USB extension cables or flash drive should always be inserted and removed carefully.

## 5.4 SMA (antenna) connectors

SMA screw in connectors are used for all types of antenna connections. Make sure the cable routing is performed in compliance with PowerFLARM Eagle Installation manual (Document LX_FEIM). In any case avoid sharp bends.

## 5.5 Reverse polarity on power

One should note that the RJ connectors are not protected from reverse polarity and internal electronics can get damaged, if a power supply is connected to the wrong pins on the RJ connectors. Similarly, the PowerFLARM Eagle can damage external devices, if a wrong cable is used for connection, as the unit provides a 12VDC power supply to the FLARM ports.

# Cloud services

This section covers in detail everything regarding connectivity and cloud features of LX navigation.

To use LX cloud features, you will need to have a system or device that has access to the internet (a WiFi module inside). The following systems are capable of utilizing LX cloud features:

- Any **Zeus system** with the following variometers:
  - **Era 80**
  - **Era 57**
  - **Eos 80**
- **LX 10k -** with any vario unit
- **Era 80 -** standalone variometer
- **Era 57 -** standalone variometer
- **Eos 80 -** standalone variometer
- **Colibri X -** handheld flight logger
- **PowerFLARM Eagle 2022 -** FLARM transceiver (supports logbook syncronisation feature only)

If you have an older type **Zeus system** with a **USBD 60** or **Eos 57** variometers, you will need to acquire one of the variometers noted above. To get information on these units, feel free to contact **info@lxnavigation.com**.

The LX cloud system offers the following features to our pilots, depending on the system they have:

- **Database synchronisation**
- **Logbook synchronisation**
- **Automatic updates**
- **Weather information for the Zeus**
  - SkySight
  - Rain Radar
- **Mail**
- **OLC**
- **SeeYou Cloud**
- **Soaring spot**
- **WeGlide**

## 6.1 Cloud interface

**The LX cloud** is located under the following link: **https://cloud.lxnavigation.com/login**.

Once you've clicked on the link, you will be taken to the Login/Registration page. Fill out your registration or login if you've already registered.

We use a standard registration process, where you'll need to confirm your registration in an email we sent you. Be sure to check your SPAM folder if you can not find it.

Once registered, you will be greeted with the main page - the Dashboard.

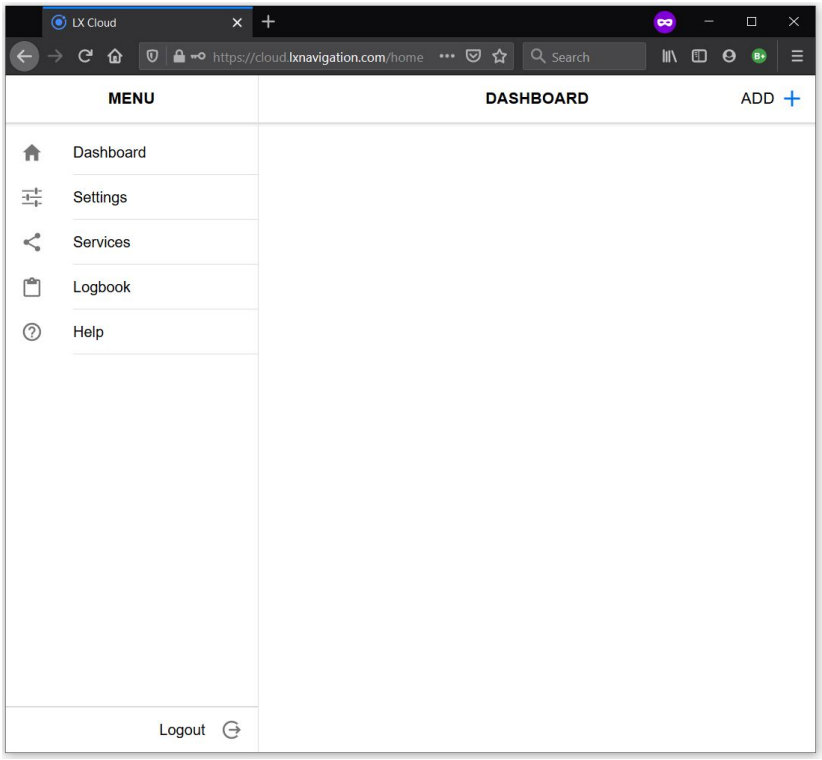


Figure 24. Dashboard overview

The Dashboard is used to display all devices you have registered to your name on the right and additional options and services to the left. Once you've added a device, it is displayed as pictured on the figure below.

### 6.1.1 Adding a device

It is important to note that the LX cloud recognizes two different types of users: *Administrators* and *Users*.

Here are the differences between **administrator** and **user** accounts: **Administrators can:**

- **Backup device files**, which can be used in case there is an issue with data corruption

- **Set glider number of hours and flights**, the LX cloud will then show the current total hour and flight count for the glider in question and choose device administrator email
- **Set which database files are in use**, these files will be automatically uploaded to the device, once online
- **Access ALL flights in the device's memory**, regardless of which pilots have actually flown the flight

**Users can:**

- **Backup device files**, which can be used in case there is an issue with data corruption
- **Remove device from LX cloud profile**
- **Access flights in the device's memory**, which have been made by the user's LX cloud profile (if the Cloud ID has been properly used)

In a club environment, the administrator would be the person designated by the club to keep all devices up to date and all database files current, as well as the person who needs to be able to check **all** flights flown on the glider. Each pilot still has the full freedom to choose in his own pilot profile on the device, which files is he going to use.

#### 6.1.1.1 Adding a device as Administrator

Firstly, we need to acquire the information required for adding a device. The following info is needed:

- **Cloud ID -** found in our LX cloud web-application under the following link: **https://cloud.lxnavigation.com/login**. It can be found under the Settings tab. Is different for every Cloud user account.
- **Cloud ownership ID -** found on device itself by going to **Setup** > **Service** > **Device info**. Is different for every device.
- **Serial number -** found on device itself by going to **Setup** > **Service** > **Device info**. Is different for every device.
- **Administrator email -** if you wish to add additional administrators.

In order to add a device as an administrator, click on the **ADD +** button in the upper right corner in LX cloud. On your device, go to **Setup** > **Service** > **Device Info**, where you will find the **Serial Number** and **Cloud Ownership ID** needed for registering your device.

If the device you're adding is part of a system (like a Zeus-Era system), you only need to add the Era and it will in turn now that a Zeus is connected and report it automatically. Both devices in a system (Zeus and Era) share the same Cloud ownership ID.

If the device is part of a club, the designated club administrator's email should be added. You can add as many administrators as you wish and they will all share the same administrator

privileges as noted above (useful for co-owned gliders).

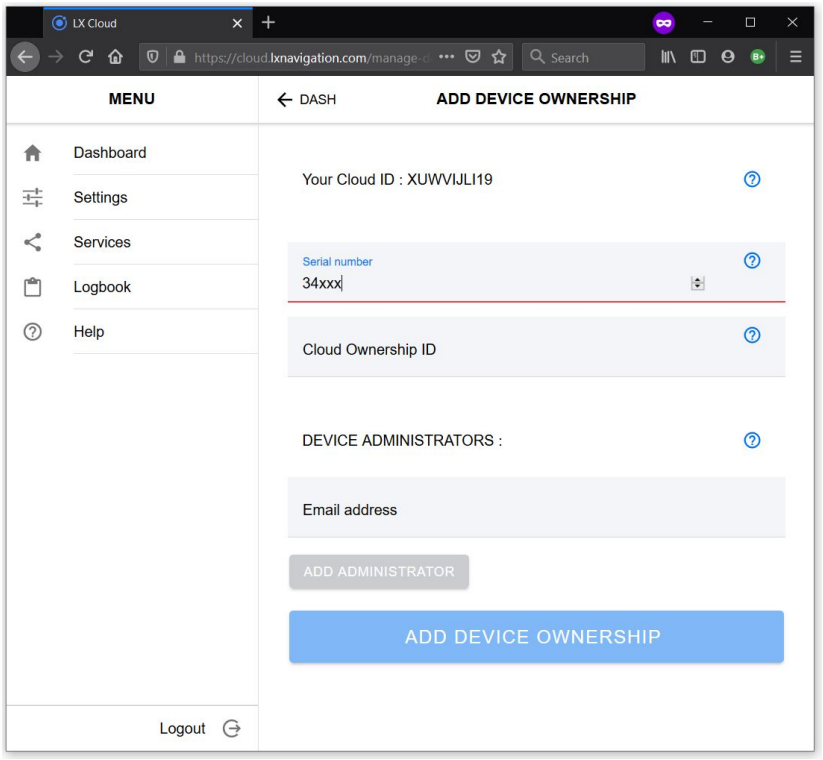


Figure 25. Adding a device as administrator

Once finished, press 'ADD DEVICE OWNERSHIP' and your unit will be added to your LX cloud pilot profile. Now, the unit is shown on your dashboard and additional options are available.

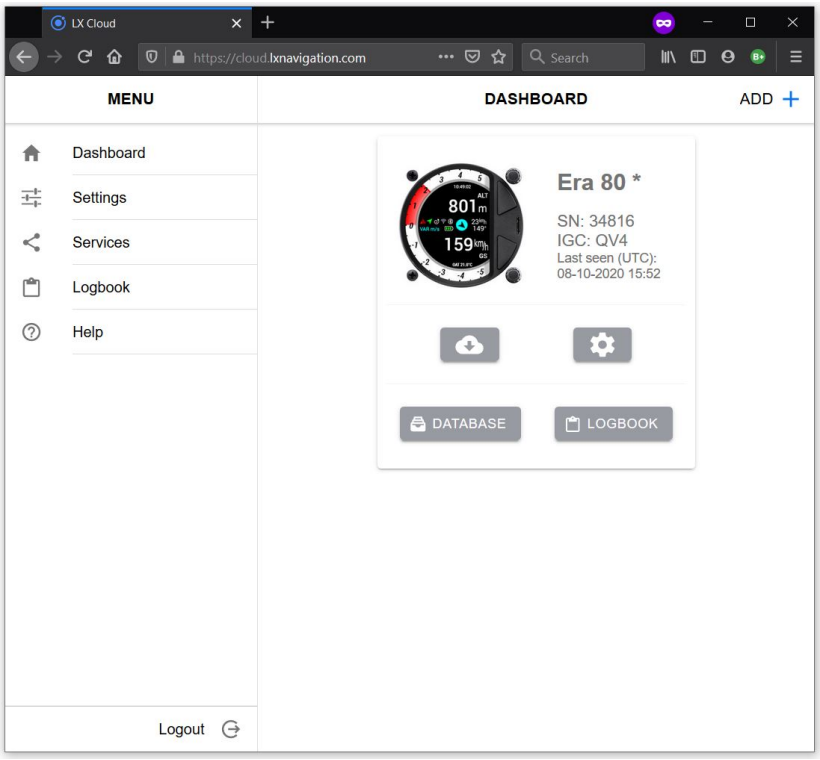


Figure 26. Dashboard overview with a device

#### 6.1.1.2 Adding a device as User

On your device (Era, 10k, Eos 80, Colibri X - the IGC logger in your system), go to Setup > Pilot and type in the Cloud ID found in the cloud web interface under Settings. The device will connect your pilot profile on the device with the cloud profile.

A device will appear on your dashboard.

# Contact

**Headquarters**
LX navigation d.o.o.
Tkalska ulica 10
SI-3000 Celje
Slovenia

**VAT ID**
Company is registered in Slovenia,
EU under the VAT ID: SI40539601

**Webpage**
www.lxnavigation.com

**Phone**
+386 (0)3 490 46 70

**Fax**
+386 (0)3 490 46 71

**Sales**
sales@lxnavigation.com

**Support**
info@lxnavigation.com

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