FLYMATE FIRMWARE UPGRADE

Whats new?

The FLYMATE Competition GPS now supports Albatross navigation and scoring app in addition to supporting the SkyNavigator app.

Getting started

You need a PC

First of all, you need a PC running Windows 10 to do the update.
The supplied update package is tested on Windows 10, it might work on older versions of Windows, but not supported.
As supplied, the update can't be done from a Mac or a Linux system, however the update application is available for Mac/Linux as well, but hasn't been tested https://www.pjrc.com/teensy/loader.html

You need a USB micro-B cable

A USB micro cable is required, make sure it is an USB **data** cable, not only a charging cable. Also make sure it has a 'slim' USB-micro connector, otherwise it won't be able to fit and get a connection.

A 'thick' connector can normally be modified with a sharp knife, proceed at own risk, and please only cut the connector, not your fingers :O

You need the new firmware

Download the firmware from
https://drive.google.com/drive/folders/14BiXM0KHlMndA4m000AVva4mk6ueYFsr?usp=sharing

Download the zip file and unpack it (it **must** be unpacked, the update can't run from the Zip file directly)
Unpack the zip file and open the folder.

You need to have your FLYMATE Glider AND Ground unit ready

The update requires both Ground AND Glider unit(s) to be updated.

To update the Glider unit, it needs to be powered during the update, either from a battery or if still in your glider from the receiver battery.

Check, check and check, ready to go 😊

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Updating firmware

Download zip file with firmware, unpack the zip file and open the folder.

- To update a glider unit, attach battery to it and attach USB cable.
- To update a ground unit, attach the USB cable and turn on the ground unit.

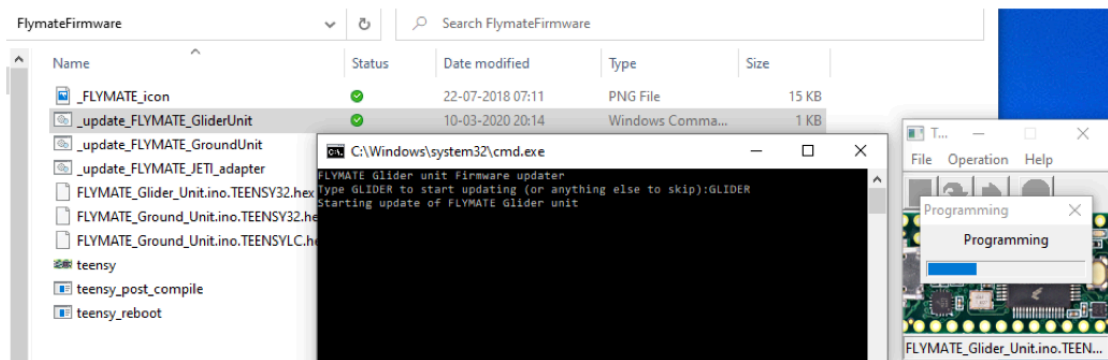When connected the PC will give the 'USB device connected' sound and start installing drivers the device.

Execute the relevant command file (double click)

- _update_FLYMATE_GliderUnit
- _update_FLYMATE_GroundUnit
- _update_FLYMATE_JETI_adapter

MAKE SURE YOU SELECT THE RIGHT FILE… uploading wrong firmware doesn't do any good..

To ensure you are running the right update you are prompted to enter GLIDER or GROUND or JETI, otherwise no update happens.

Next you will see the "Teensy Loader application" and shortly after it should be displaying "Programming" and then rebooting. It only takes a second or two, and you can run it more than once if in doubt.

DONE! Now go on and update the other units.

Please note that both glider and ground units must be updated !

FLYMATE FIRMWARE UPGRADE

Whats new?

Albatross and SkyNavigator supported

The FLYMATE Competition GPS now supports Albatross navigation and scoring app in addition to supporting the SkyNavigator app.

Serial number for use in Albatross is the FLYMATE ID in the range 201701-202099.

For Albatross a license key must be obtained from https://www.rc-electronics.eu/ and registered in the app.

Jeti Adapter, autodetection of 9 bit Jeti data or 8 bit rc-electronics

The Jeti adapter automatically detects whether data from Jeti transmitter is in standard 9 bit or rc-electronics modified 8 bit format. Meaning the adapter can be used both with the Jeti standard "PPM to Jack link - Tx Black (mono)" or the rc-electronics Jeti Cable.

Motor on detection via servo channel

If glider unit is connected to a servo channel for power and control of app, a signal of value 98-99% (2170-2200us) must be sent when motor is on.
This signal must be programmed in the transmitter.

Motor on detection via Jeti EX Bus

If glider unit is connected via Jeti EX Bus, it must be configured which channel is used for motor control, and at which value the motor is ON.

This configuration is done via the Jetibox application on the transmitter.

Example, Motor is on channel 1 and motor off is below 1250us (typically at -100% = 1000us on Jeti), control of Albatross (or SkyNavigator) on channel 16

Select JetiBox   go right to Mx

Go down   go right to setup

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Go down — Here the channel number for app control is setup

Go down — Here the channel number of the motor channel is setup
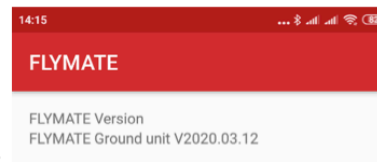
Go down — Here the value of motor ON is setup

Verification of update

On your phone/tablet, install "FLYMATE Competition GPS" from Google Play Store.

For connection to glider unit, it must be supplied with power for USB to work.

Use same cable as used for connecting to the ground unit.

Connect and check version, must be 2020.03.10 or later e.g.

Change log

2020-03-12 Autodetect of Jeti 9 bit standard data or rc-electronics 8 bit data from Jeti transmitter

2020-03-10 General support for Albatross, motor on logging implemented.

2018-03-01 10Hz GPS update rate, Jeti EXbus support for PRO glider units

2017-08-28 WM edition, improved frequency hopping algorithm.

2017-03-01 Initial release