FLYABILITY

# ELIOS 3

# August public release notes

Bug fixes, new features and known limitations

August 29th, 2022

# Updated E3 components versions

Drone firmware: gaston_22-15.swu

Cockpit software: Flyability-Cockpit-3.1.0.22.15.-full-release.apk

Inspector software: InspectorSetup-4.1.0.177-x64-Release.msi

# What's new?

## Compass and altitude indicator can be reset

Just like with ELIOS 2 you can now reset the altitude indicator and compass in Cockpit by simply tapping on it once. ( Compass and altitude indicator don't work yet in Inspector though)

## Auto-descend when battery is empty

Just like with ELIOS 2 the user can select a battery percentage in Cockpit at which the drone will start to automatically descend to remind the pilot to land quickly. The pilot can choose between 0% and 10%.

## Drone 3D model in live map for increased sense of scale

To increase the sense of scale of the live map, a drone 3D model is shown in Cockpit when sufficiently zoomed in on the live map. Also the field of view of the camera is visible and follows the inclination of the camera to help the pilot interpret the live map.

## Live zoom on the video feed in Cockpit

With the usual finger gesture on the tablet you can now also zoom in on the live video feed in Cockpit to look at part of the video feed in more detail while you're hovering.

## Horizontal slicing of point clouds in Inspector

To be able to see through from the top of the point cloud, similar to what is available on Cockpit

## Live ambient temperature reading in Cockpit

For the drones that have compatible hardware, a live ambient temperature reading is shown in Cockpit during the flight to help the pilot ensure he flies his drones within the allowed temperature operating range. (note: the wrong temp is shown with the x4 proto customer drones and the x4 DV1 drones and x1 LL3 drones used in sales as demo systems.)

### Inspector can update automatically the drone

In the drone page users will be asked if they want to upgrade to the most recent release

### Cockpit can update the ground unit transmissions system FW easily

No need anymore to go through the debug tab

## Improvements

### Motor communication reliability

The motor firmware has been updated and is now more reliable than before.

### Simplified LED color scheme

The LEDs will now remain solid green when flying in ATTI and SPORT as well. Before the LED changed from SOLID GREEN to YELLOW when going from ASSIST into ATTI or SPORT. This simplification makes sure non-green colors are reserved for real warnings.

### Improved robustness of Inspector <-> Drone communication

Module communicating with the drone was improved in order to fix some issues that would prevent the drone to show up in Inspector (requiring Windows restart or session log out)

### Button LED also blinking during onboard-computer update

This results in increased update safety, as the customer is better aware when his drone is updating and thus should not be interrupted.

### No need to reconnect secondary tablet in WiFi streaming after each flight

This improves the workflow as you'll need to pair the two tablets once to perform any amount of flights.

## Improved live map shape quality

The risk for “banana” shape maps of assets is reduced.

## Improved wifi streaming reliability

Less hiccups and artifacts

## Live point cloud colorization

Rainbow color scale has been introduced to make it easier to perceive height.

# Bug fixes

## Live map and trajectory tilted in Cockpit and Inspector

In a rare occasion, the live map and trajectory could be tilted both in Cockpit as well as in Inspector.

## Video files can not be found by Inspector

On very rare occasions it can happen that the Xacti video files are not named correctly, making it impossible for Inspector to find them back.

## Drone restarts after it was shut down with button and USB cable is pulled out

When you push the button to shut down the drone, after having downloaded a flight, and then you unplug the USB cable, the drone restarts.

## Video feed in Cockpit does not recover after being lost

When the video feed is lost for whatever reason ( for example because you're flying out of RF-range ) Cockpit might fail to recover it. A manual restart of Cockpit is required in that case.

## Others

When ToF sensor distance readings are out of range, Cockpit still shows them

Low camera SD card space warning contains incorrect values

When disconnecting the drone after a flight, Cockpit still shows the transmission system version number on the info page