



FLYABILITY
COCKPIT
USER MANUAL

VERSION 2.3
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1 Overview and setup

Cockpit is the Flyability official application used to pilot the ELIOS 1 and ELIOS 2 systems.

Its primary use is to serve as a cockpit, allowing to view the video feed from the aircraft, thus enabling FPV flights.

In addition, a dashboard with a useful flight and camera telemetry is shown to the pilot.

1.1 First-time installation

1.1.1 System requirements

Cockpit is developed and tested work on Samsung Tab A and Active 2 tablets, running Android 8. Other tablets and operating system versions are not guaranteed to work.

1.1.2 Get the application

The application is distributed as a standard Android application file (.apk), available on my.flyability.com.

Using the USB connection of your tablet, copy the APK file to a place you can browse to, using a file explorer on the tablet. An alternate solution is to copy the file on an SD card, especially for Mac users.

From Cockpit 1.2 onwards, an automatic updater is available to keep you up to date when new releases are available and make them installable at the click of a button.

Note: some tablets do not have file explorers provided; you may get a free one on the Google Play store.

1.1.3 Allow unknown sources in Android

Go to the settings screen on your Android tablet.

Based on your tablet brand, the architecture of settings menus may vary and may not be exactly named as in this manual. However, the steps are similar and may just bear different names on your specific model of tablet.

Go to Lock screen and Security.

Check if “Unknown sources” is enabled; tick it if it is not. A warning may appear about application security concerns; you can acknowledge it.

1.1.4 Install the application

Using the file explorer on your tablet, browse to the APK file location you have just copied from your computer. Tap the file to run the software installer. Some confirmations about access to specific features may appear; you can acknowledge without concerns.

A Flyability icon should now be available in your application menu and your home screen!

1.2 Updating an already installed application

Updates to an already installed application can be done in two different ways.

1.2.1 Internet update process

Be sure your device has Internet access. As you start Cockpit, the availability of updates is checked.

Should a more recent version be available, you will be notified and prompted to proceed with the update or decline it. If you proceed, download of the newer installation file begins automatically.

Please note, at the next time you will connect your aircraft to the system, the application will prompt you to perform a firmware upgrade. Read the [Aircraft firmware upgrade](#) section for more details on that process.

1.2.2 Manual update

Follow the steps noted in the "[Installing the application for the first time](#)" section.

1.3 Setting up the remote controller

If you already used a remote controller with your tablet, typically with the DJI GO app, some setup is necessary to enable Cockpit to recognize it without other applications taking over the connection.

1.3.1 Reset default application for the controller

You can skip this step if you never used the remote controller on your tablet since purchase or latest factory reset.

Each time the remote controller is plugged and turned on, the tablet runs the default assigned app to handle it, and other compatible apps will not see it. The default app must be reset in such cases.

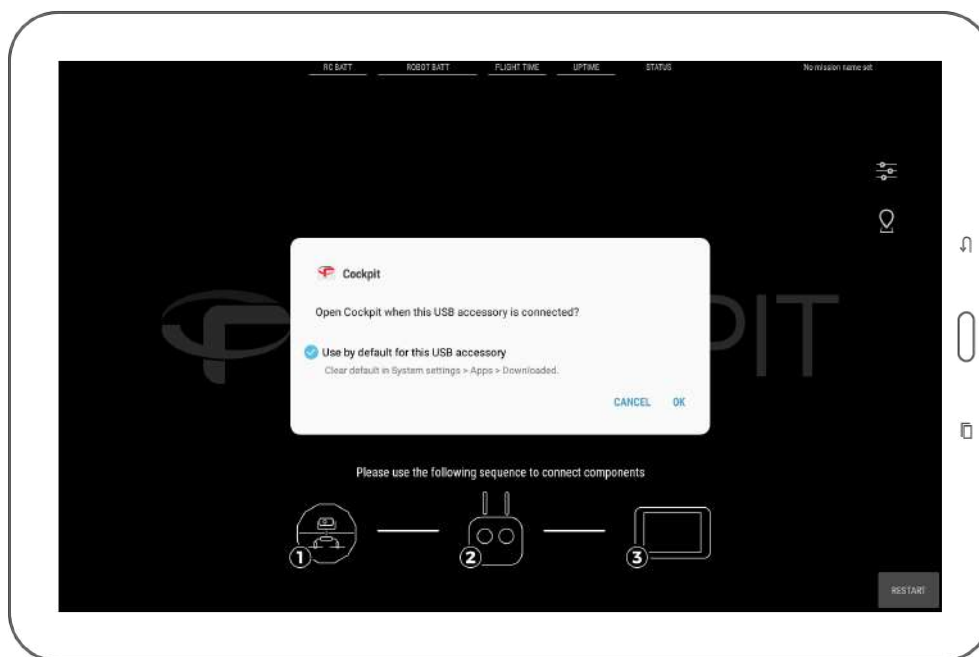
Open the Settings menu of your tablet.

1. Go to Applications.
2. Open Applications Manager.
3. In the list of apps, locate DJI GO or the one you have used before. Tap it.
4. In the next screen, select Set as default (the name is ambiguous).
5. In the next screen, tap Clear defaults.
6. The default application for the remote controller is now reset.

1.3.2 Set Cockpit as default application

Turn the remote controller on, make sure it has enough battery, and plug a USB cable between the full-size USB port of the controller and the micro-USB port of the tablet (or USB-C if applicable).

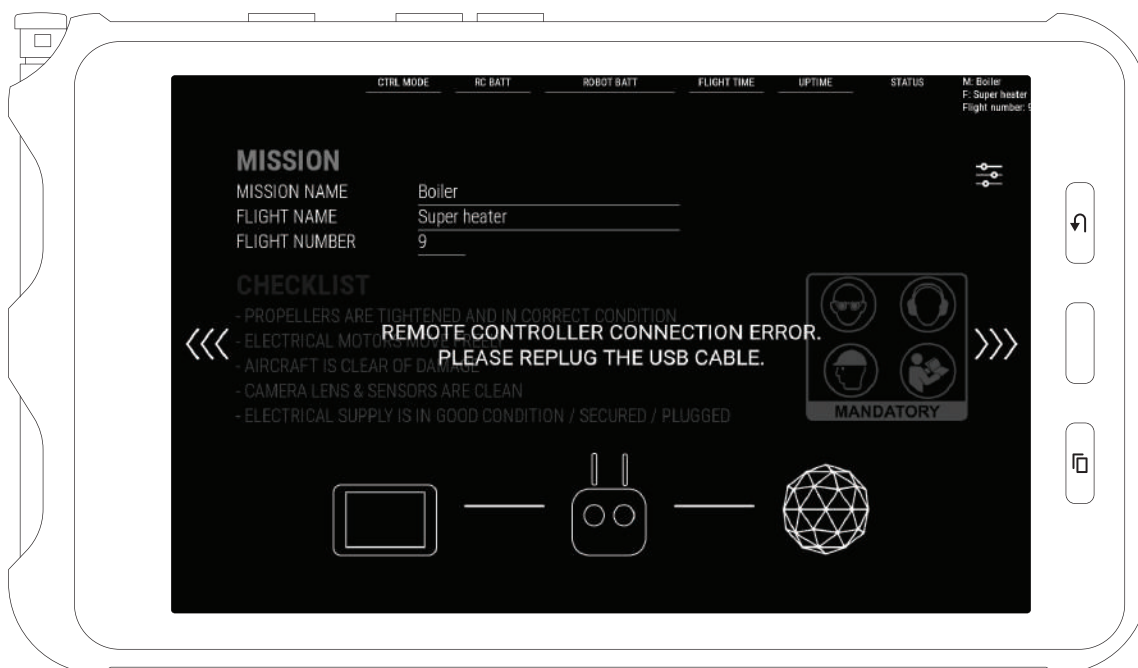
If multiple applications able to handle the controller are present, a popup window asks you to pick one. Depending on the tablet models, another option, "Just once" or "Always" is selectable. A checkbox mentioning "Always use" can alternately be proposed.



It is recommended to choose Always / Use by default, as you can later perform the actions in the section above to reset the defaults.

1.3.3 Remote controller connection error

Upon connection, the tablet may fail to recognize the Remote Controller. In this case, the user is asked to unplug and re-plug the USB cable to re-initialize the connection.



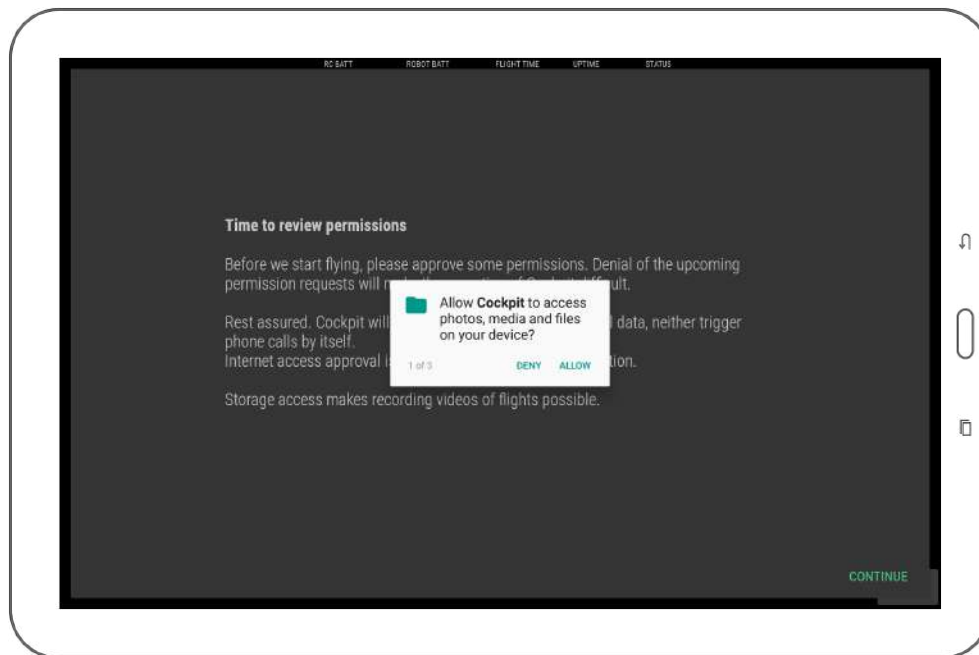
1.4 First launch

Upon a fresh install or unboxing of your Flyability aircraft, steps that are specific to the first launch may be encountered.

Please be patient when the application starts for the first time. Initialization of long-standing components should take place; this is normal behavior. Some of the long procedures run during the first launch only.

1.4.1 Authorizations

Be sure to accept all requested Android system authorizations.

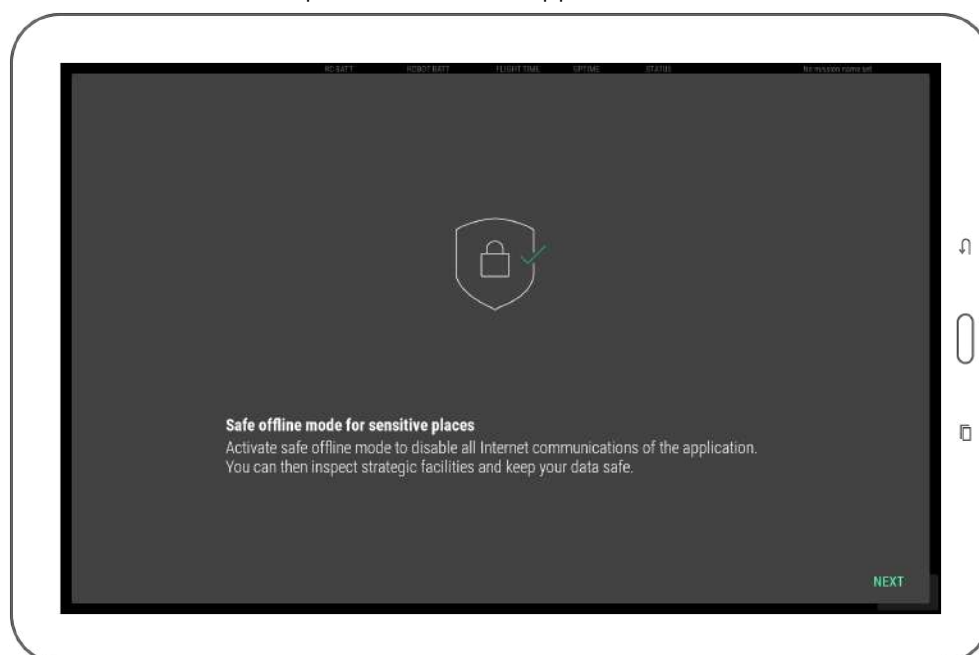


Cockpit keeps your data safe.

- It will never initiate paid phone calls or contact paid services on its own
- It will never upload videos, flight logs, data from the Android device. The only data that is uploaded is minimal aircraft identification data for servicing purposes, for the sole use of Flyability. A safe offline mode is available to block such data transfers if this is a concern.

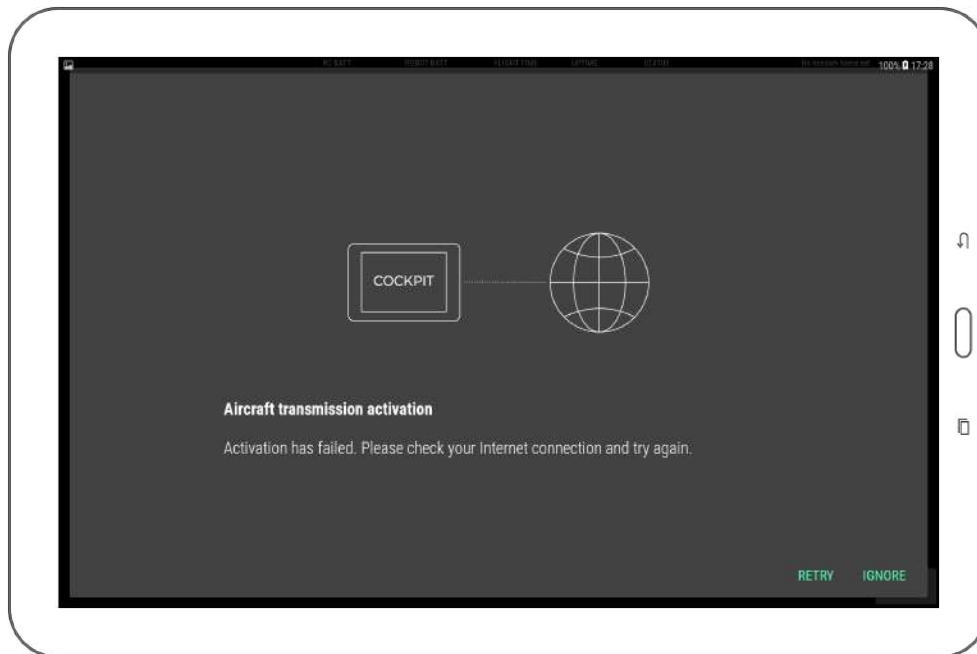
1.4.2 New features

Every new version of Cockpit presents its newly added features in a slideshow. Read through to understand and get acquainted with the latest improvements of the application.



1.4.3 Transmission activation

The transmission system must be activated one time. Afterward, there is no more need to activate it even after app upgrades. If purchased from Flyability, you receive your tablet with Cockpit pre-installed and activated. When removing Cockpit from the tablet completely you don't need to re-activate manually as long as your tablet has internet connection while doing the install. Else, it will prompt you to re-activate.



Be sure to have Internet connectivity for activation to succeed. Without activation, Cockpit functions cannot be used. A reminder appears if activation cannot succeed.



1.5 Aircraft firmware upgrade

Only on ELIOS 1, a warning appears on the screen if an upgrade is necessary. It is highly recommended to perform the upgrade so that you can benefit from all the new features and bug fixes. If you keep your aircraft with outdated firmware, some of the newer features of Cockpit will not be enabled. The warning is visible as an example on the screenshot below.



By clicking on the "Upgrade now" button on the warning, you can access the upgrade tool.

Make sure to use a full battery for running the upgrade process. It will minimize risks of the aircraft turning off in the middle of a file transfer.

The upgrade tool tells you:

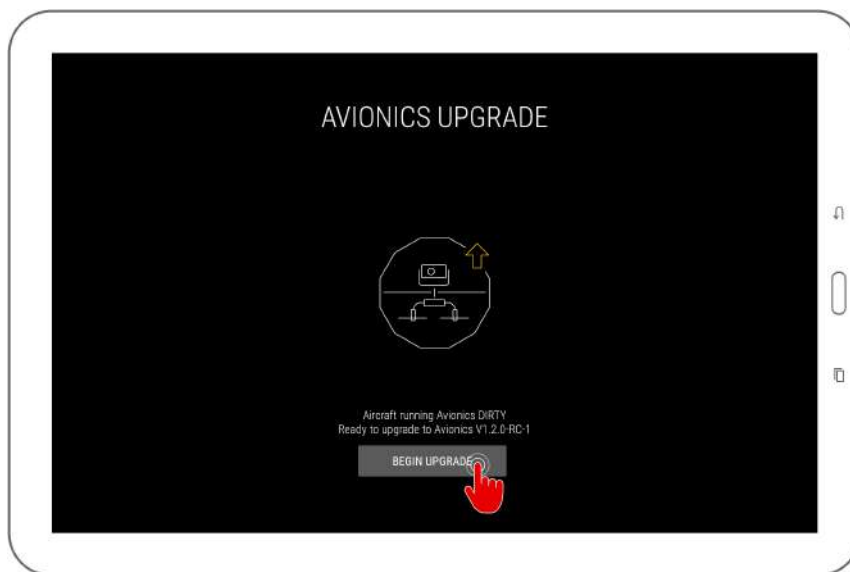
- The current version of Avionics on the aircraft.
- The new version of Avionics ready for transfer.

In case of older aircraft or those not maintained for a long time, the use of an SD card for firmware upgrade can still be mandatory. In such case, Cockpit mentions it on screen.

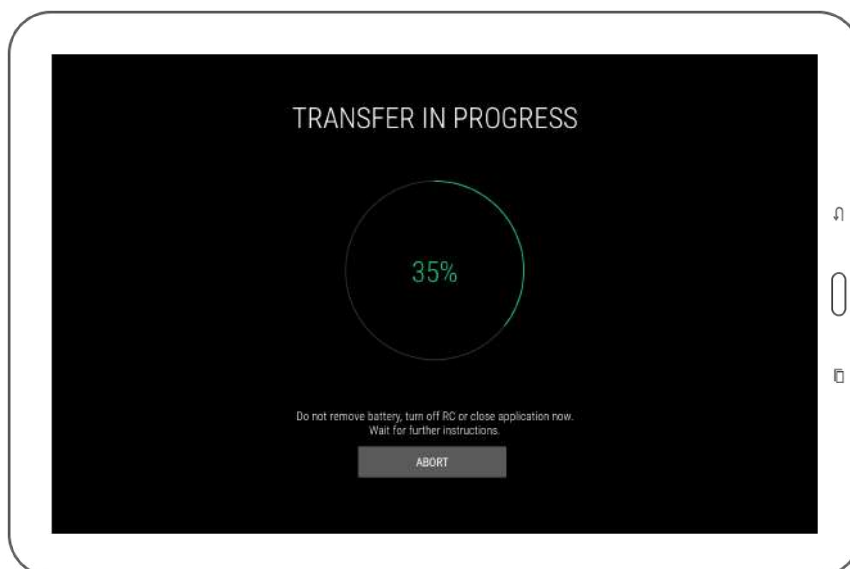
1.5.1 Upgrade using over-the-air file transfer

If the tablet shows “Ready for upgrade” and the start button is available, all conditions are met to start the upgrade.

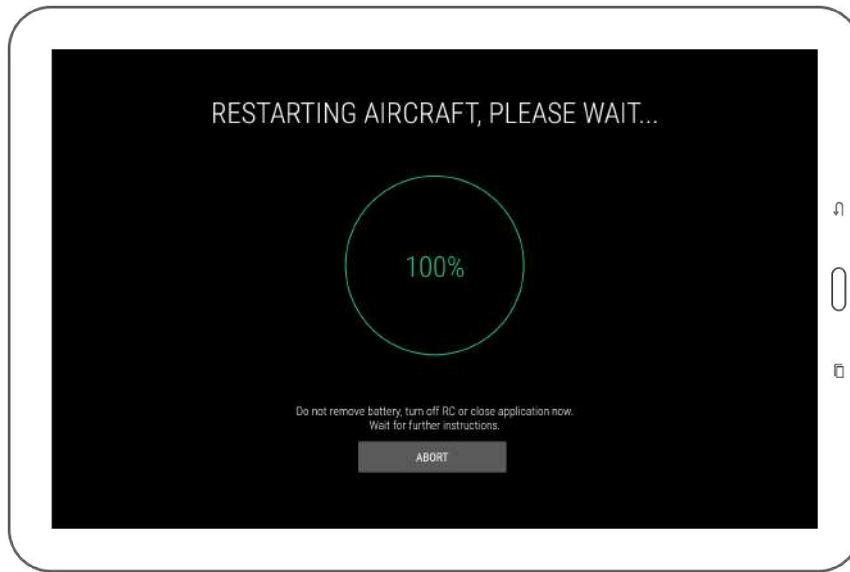
1. Make sure the aircraft is close to the Remote Controller, ideally on the same table.
2. Make sure there is an SD card with free space in the log slot. Without this, the upgrade cannot succeed.
3. Press the “Begin upgrade” button on the tablet.



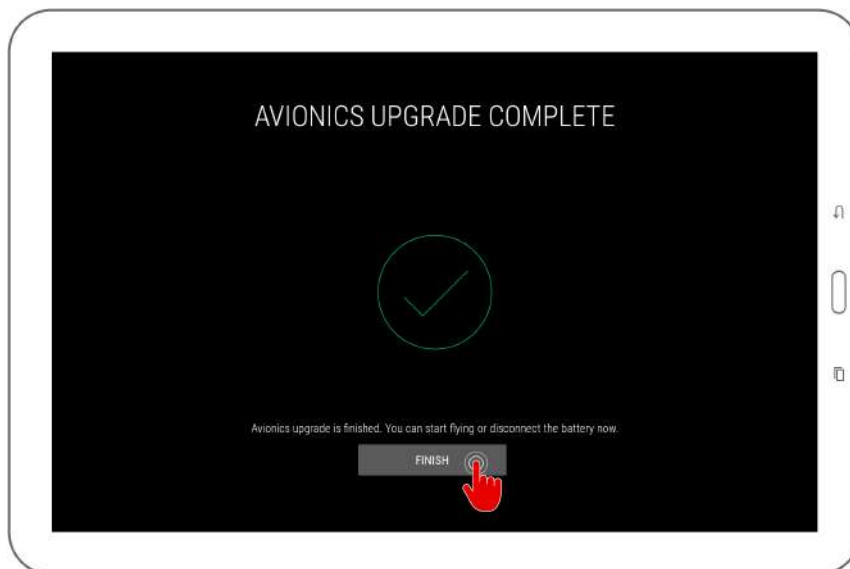
4. Let the upgrade run until the progress bar reaches 100%. In optimal situations, this process is expected to last for 6 minutes. Do not disconnect any component while the transfer is running.



5. The screen now informs us of an imminent aircraft reboot process.



6. Wait for the aircraft to restart, and check that a rapid blinking LED sequence is visible at a particular moment. This fast LED blinking sequence corresponds to the moment the new firmware package is actually being written on the system.
7. When the upgrade is successfully finished, the application should display a success message
8. Press the "finish" button to go back to the main screen



9. Open the About panel in the settings menu; you can now verify that the latest version is present (no upgrade invitation message is shown).

2 User interface reference

2.1 Home screen



When starting the application, the user arrives on the Home screen. The home screen is enabling the user to:

MISSION

The flight location naming window records the mission name, flight name, and flight number of the current or upcoming flight.

Mission name and flight name can be 40 characters long at most.

Flight number must be between 1 and 255; this flight number is automatically incremented for the next flight upon disarming once it is filled out. If the field is left blank, it will not be automatically incremented.

It is possible to change flight location naming multiple times throughout the flight; data that is considered as definitive naming for the flight is the one being active at the moment of disarming. Each field is optional. Simply let the field blank to unset the value for the next flight.

For post-mission analysis, all information entered in this dialog box can be retrieved later on a computer using Flyability Inspector 1.4 and above.

CHECKLIST

Short and comprehensive checklist to make sure your system is good to fly

SAFETY REMINDER

Flyability recommends the user to wear eye protection, ear protection, and a hard hat while operating the aircraft. The user **MUST** have read the aircraft user manual prior using the system.

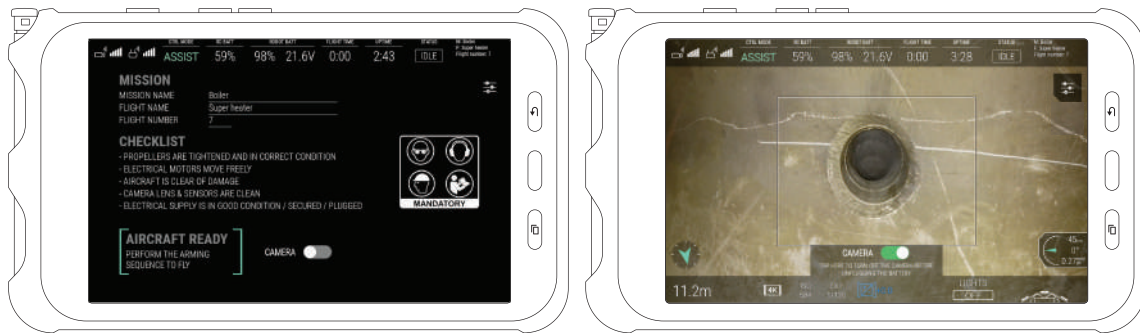
CONNECTION STATUS

Tablet icon: represents your tablet in the connection order. If wi-fi streaming is used, and this tablet is used as a viewer, the tablet icon flashes when no connection is established to the emitting tablet. See [Streaming video and telemetry to a second tablet](#) for details.

- Controller flashing: the controller is being searched.
- Aircraft icon flashing: the controller is recognized and is now looking for the aircraft.

On the above image, the application is waiting for a controller and aircraft to connect.

Once the aircraft is connected and ready, the Home page allows the user to toggle the camera preview by tapping on CAMERA.



2.2 Main instrument panel

The instrument panel is fully shown once the connection is established, and the application has received data from the aircraft.

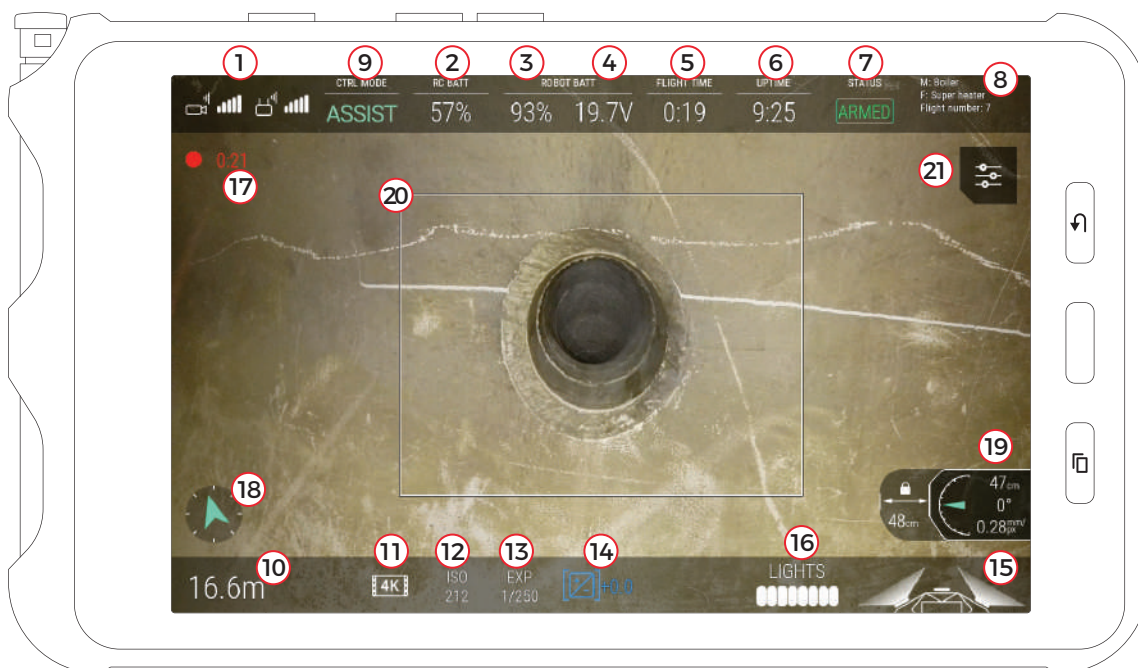


Figure 1: ELIOS 2 cockpit

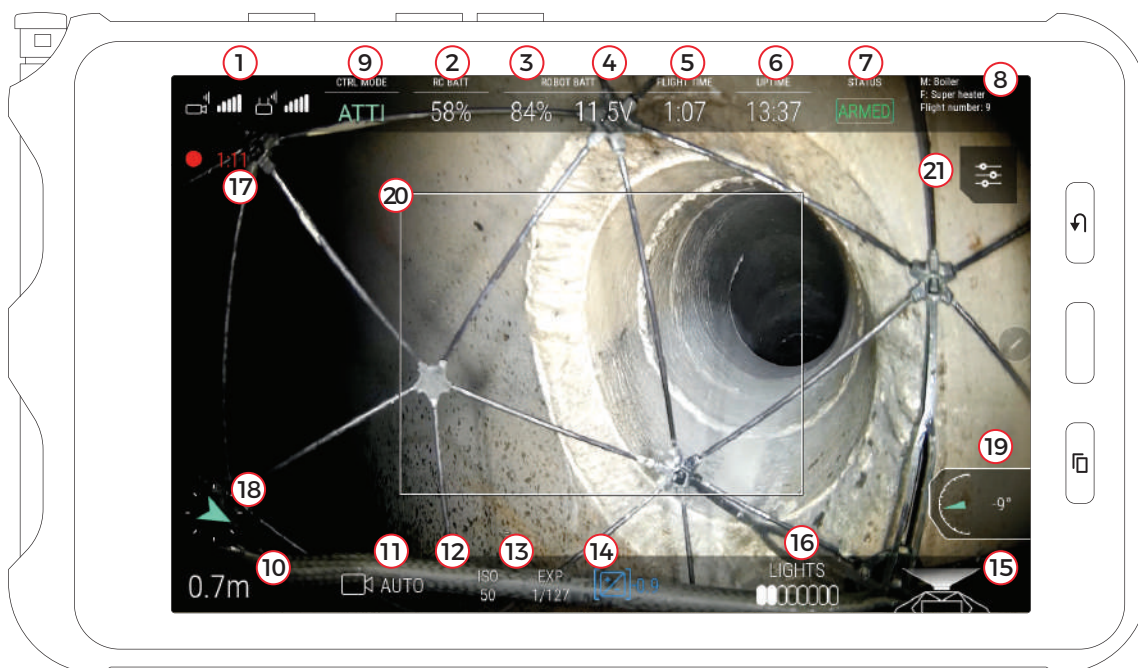


Figure 2: ELIOS 1 cockpit

1. Signal strength (left: video reception quality / right: command transmission quality)
2. Remote controller battery charge
3. Aircraft battery charge
4. Aircraft battery voltage
5. Flight time
6. Uptime (time elapsed since the battery is plugged in)

7. Flight status
8. Mission and flight information
9. Control mode
10. Altimeter (tap to reset the altitude to zero)
11. ELIOS 1: Camera mode
ELIOS 2: Camera recording resolution
12. Camera ISO
13. Camera exposure time
14. Camera exposure value
15. LED lights status
16. LED lights power indicator
17. Camera recording length
18. Heading (tap to reset the heading and use the current aircraft heading as the new reference)
19. Payload info (camera pitch, front distance to surface, ground sampling distance)
20. Thermal camera field-of-vision frame
21. Settings button (opens [settings](#))

2.2.1 Signal strength

Signal quality reading includes:



Video reception quality



Command transmission quality

When signal quality becomes low, a warning appears to inform you. Make sure to fly closer to the remote control to regain some signal quality and reduce the risk of losing communication. Alternatively, for your next flight, use a range extender to increase the obtainable range.

For detailed data about the signal quality, refer to the [radio settings panel](#).

2.2.2 Battery status

When the aircraft is not able to estimate its own percentage of battery charge left, question marks "???" are shown instead. In such situations, keep attention to the readings nearby to estimate remaining flight time. You should rely on voltage reading to know when it is time to finish the current flight; please refer to Elios instructions for information about the appropriate voltage levels to watch out for. Aircraft running up-to-date Avionics firmware still notifies you when the battery is critically low in this case.

Battery charge indicator changes colors to warn when the charge becomes too low.

White	Battery charge is good
Yellow	Battery charge is low. If in flight, consider finishing the current flight.
Red	Battery charge is critically low. Land immediately to avoid damaging the battery.

The voltage level can raise warnings as well, independently from the battery charge level. If the voltage indicator is red, you should land immediately.

2.2.3 Camera and video recording

Only on **ELIOS 1**, Camera mode indicator (11) is related to the current mode set by the pilot using the camera mode switch marked (C2-C1-A) on the remote controller.



Auto mode



Manual low / high ISO

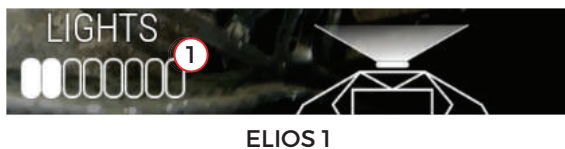


Thermal camera

Both Cockpit and aircraft begin recording the video stream as soon as the arming sequence is performed. When recording is active, an indicator on-screen shows a timer in red and a recording symbol. The time shown corresponds to the aircraft video recorder; the Android device is also recording a backup video for immediate review and backup purposes. You can view the backup videos in Flyability/Cockpit/Recordings; this process is detailed in [Checking video recordings](#).

Please note: The best video quality is always found on the onboard video SD-card. Due to the nature of the transmission link, the video received by the Android device has a higher compression rate, which adversely impacts the video quality.

2.2.4 LED lights status



ELIOS 1



ELIOS 2

The LED lights status display the power given to the lighting system and which panels are lit on ELIOS 2.

1. Light power
2. Strobing light is disabled
3. Left panel is ON
4. Close up panel is OFF
5. Left panel is ON
6. Auto close-up is enabled

Note that you cannot set the LEDs to full power until the aircraft takes off. This is due to the heat generated by the LEDs that are cooled down by the propellers' airflow while flying.

2.2.5 Control mode

Depending on the situation and pilot wishes, the aircraft can be in different modes. Please refer to the aircraft user manual to learn more.

2.2.6 Payload information



ELIOS 1



ELIOS 2


ELIOS 2
WITH DISTANCE LOCK

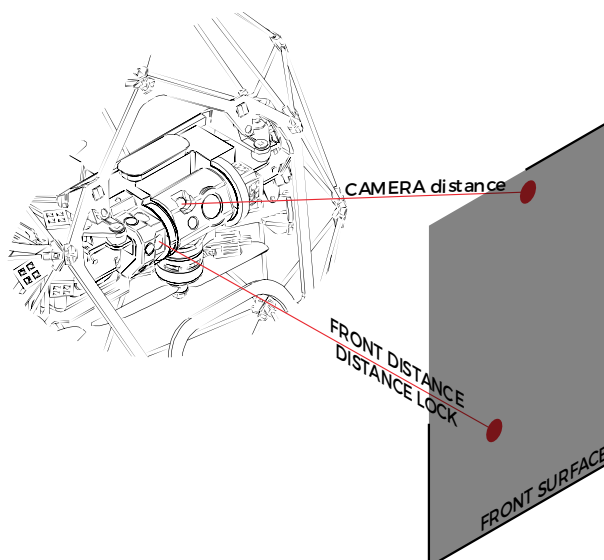
1. Tilt gauge of the camera head
2. Angle of the camera head

3. Only on **ELIOS 2**, camera distance to the surface in front. The distance sensor is parallel to the optical axis of the camera head; hence, its value depends on the angle of the camera. If the measurement quality is poor or the distance out of range, no value is displayed.
4. Only on **ELIOS 2**, Ground Sampling Distance (GSD). Resolution user can expect on the center of the image provided no motion blur affects the image. The color indicates the image quality.

Camera distance	Indicator & color	Meaning
<20cm	Too close	The camera is too close from the surface, and the image will most likely be blurry.
≥20cm - <30cm	GSD	The image is a bit blurry, but the GSD is best.
≥30cm - ≤40cm	GSD	30cm is the focal point of the camera; the image is sharp with good GSD.
>40cm	GSD	Above 40cm, the image is still sharp, but the GSD reduces with the distance.

The GSD is based on the camera distance measurement. If no camera measurement is possible, no GSD can be displayed.

5. Only on **ELIOS 2**, Distance lock set distance. Displayed if the Distance Lock is activated. The displayed distance is the normal distance from the drone to the surface measured from the front distance sensor. It does not depend on the camera head angle. See illustration below.



2.2.7 Altimeter

Zero-level of the altimeter is the altitude at which the aircraft is present when the battery is plugged in. It is possible to set a new zero reference by tapping the altimeter.

Altitude units (meters or feet) can be changed in the settings (see Image settings section)

2.2.8 Heading

Keep in mind that by default there is no sensing of the North and the heading is thus relative to the aircraft startup heading unless absolute heading is enabled (only on ELIOS 1).

At any moment, it is possible to set the current aircraft heading as the new reference heading. Tap the compass to make the arrow point upwards for the current aircraft heading. Both heading and altitude information are stored in the logs and can be used in our Inspector software to help orientate and create situational awareness.

On ELIOS 1, an absolute heading option is available, taking advantage of the onboard magnetometer. Refer to [flight settings](#) for more information. When the aircraft is armed, and this option is active, the compass aligns with the magnetic North.



HEADING DRIFTS OVER TIME DEPENDING ON AIRCRAFT AND ENVIRONMENTAL CONDITIONS. IT IS A NAVIGATION AID, NOT AN ACCURATE MEASUREMENT TOOL. THE ABSOLUTE HEADING OPTION IN THE FLIGHT SETTINGS MAY IMPROVE THE ACCURACY IN SOME CONDITIONS.



ABSOLUTE HEADING CAN BE DISTURBED BY METALLIC STRUCTURES

2.2.9 Settings button

The Settings button opens the [Settings screen](#).

2.2.10 Flight location naming button

The Flight location naming button opens the [flight location naming dialog](#). Use it to reference your flight for later review using Flyability Inspector.

2.2.11 Thermal camera target

The frame (20) shows the field of view of the thermal camera. Only the objects inside this frame will get their thermal images recorded. The frame can be changed and/or hidden in the settings menu; refer to the [Image settings](#) section.

2.2.12 Settings wheel focus

On the entire screen, some values shown can be altered using the parameter wheel on the remote control. The currently focused value is shown in blue between brackets, when this is the case.

The focused value depends on the camera mode choice and activation of the thermal camera feed. Lights intensity is controlled by keeping the Fn button pressed.



Focused setting (example: EV correction value)



Unfocused setting

2.3 Thermal camera instrument panel

When the thermal camera view is active, the thermal camera target enlarges to the entire screen size so that the viewer keeps track of the reduced field of view.



White display the hottest temperature and black the coldest on the current frame. The range is always automatically scaled from the coldest to the hottest temperature measured on the current frame.

The only available image setting in this mode is the contrast of the thermal image.

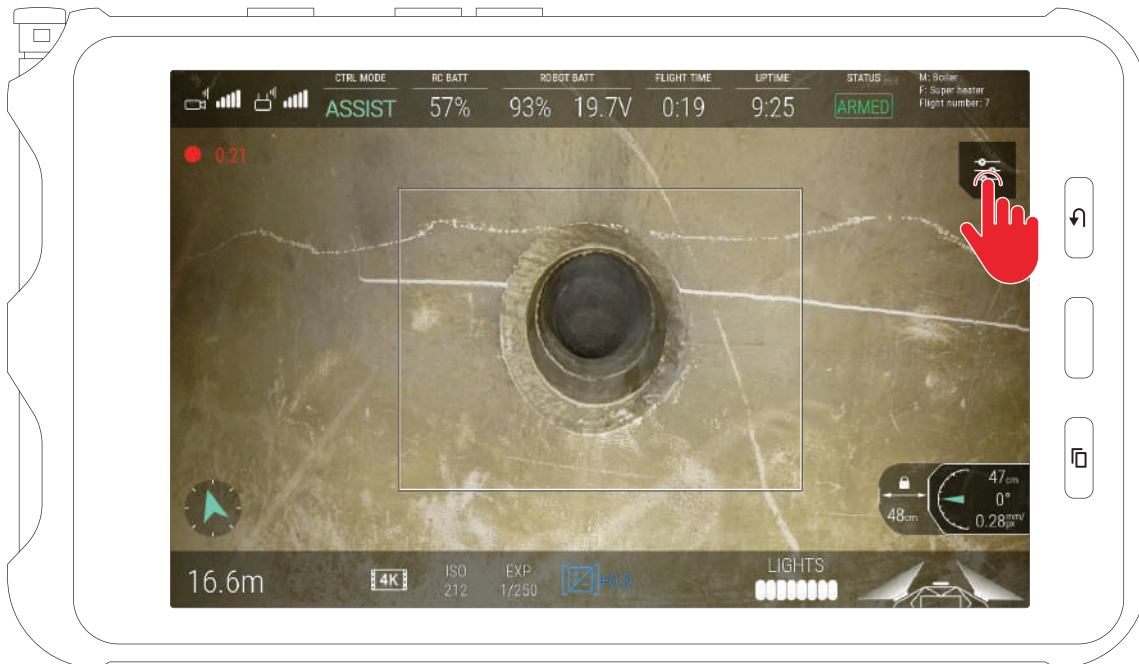


Scroll the settings wheel to change the contrast between the highest and lowest temperatures on the image.

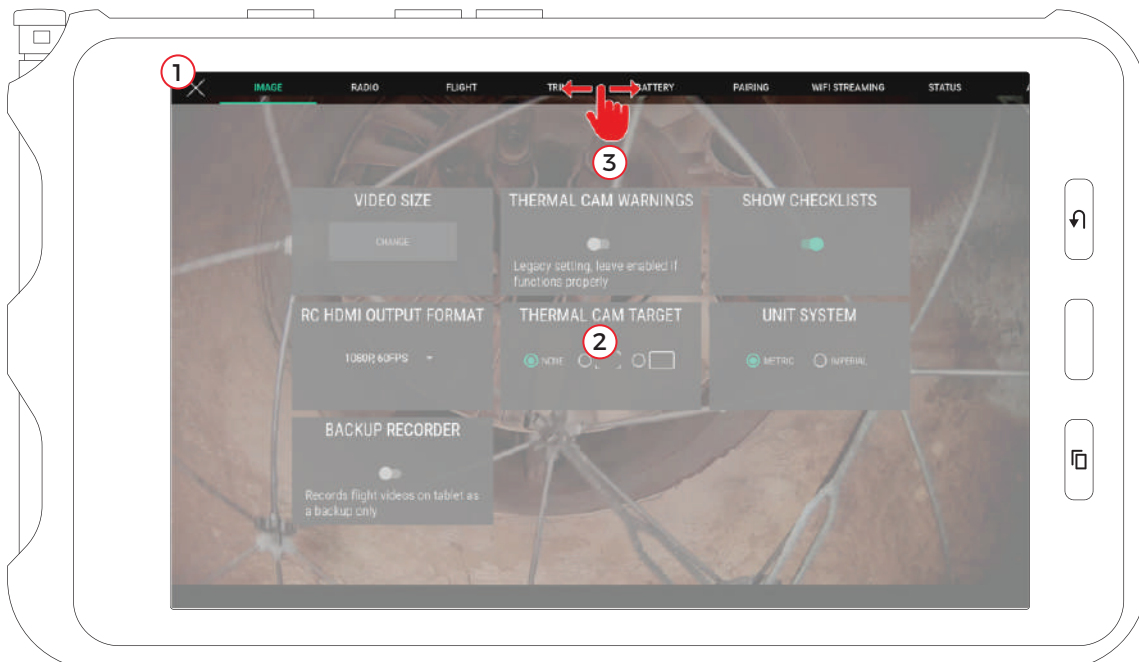
Switching between thermal and optical image does not alter the video recordings on the aircraft, as both are always recorded on the LOG and CAM SD cards respectively for later review. The same principle is valid for the thermal contrast setting.

3 Settings

The settings screen consolidates all changeable options in Cockpit and various parameters.



Press the Settings button on the main screen to open the settings screen.



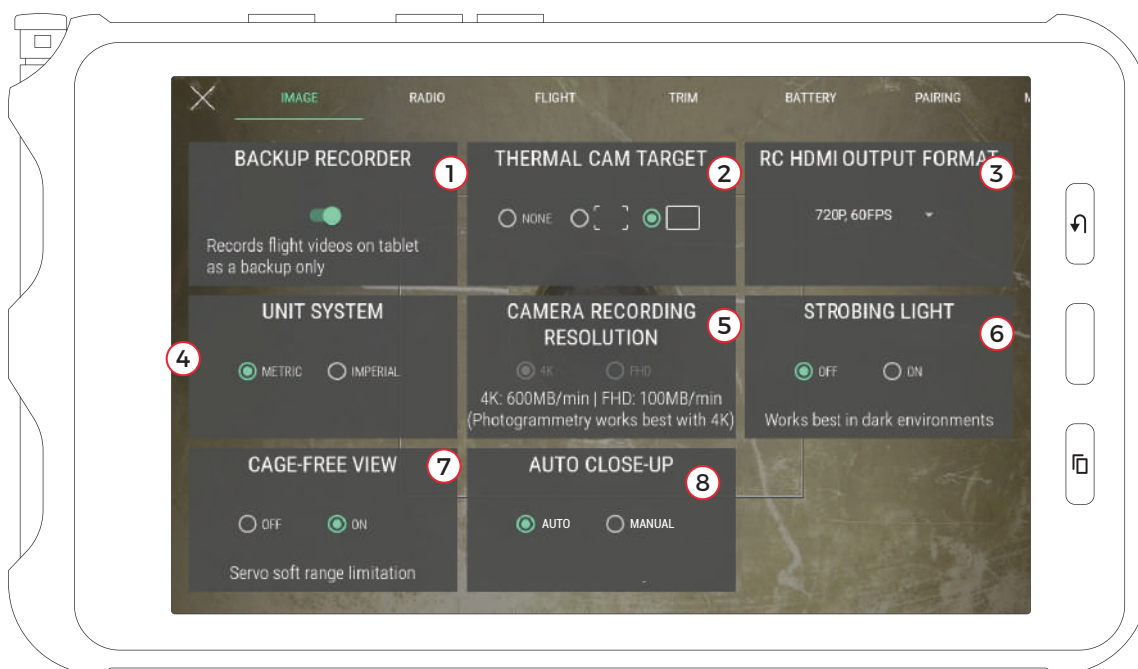
To close the setting screen and go back to the main screen, press the back button on the tablet or the on-screen close button (1) in the top left corner.

The settings screen shows multiple panels with settable parameters, which are detailed inside this section. Panels contents appear in the middle (2).

Tabs at the top give access to each panel. You can click on the tabs to view the corresponding panels or make a horizontal finger swipe gesture to go from one to another.

More tabs are available than shown on screen. A horizontal swipe gesture on the tab strip (3) scrolls its content to reveal the additional tabs.

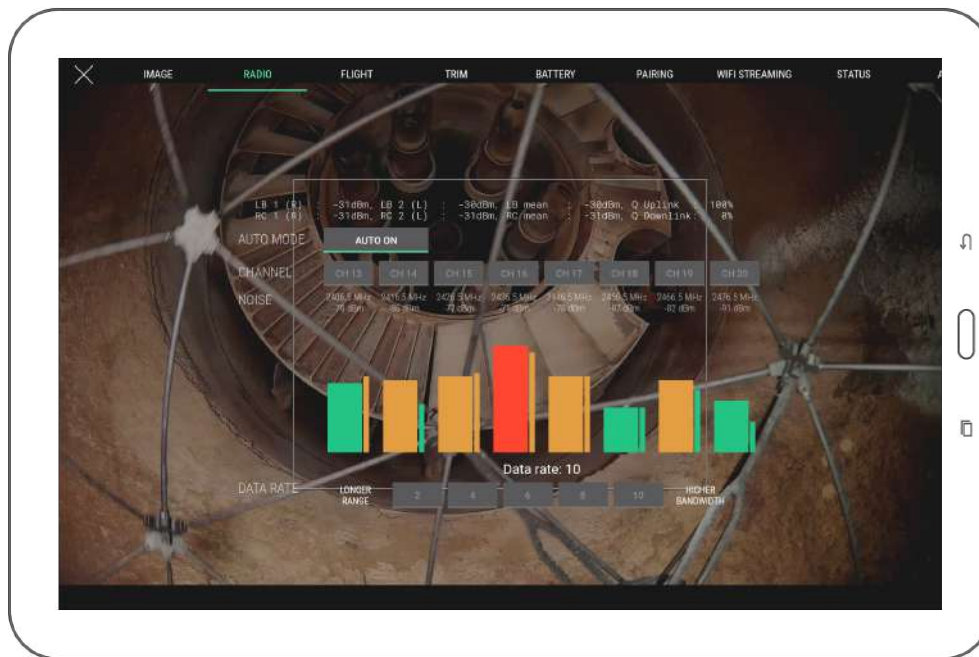
3.1 Image panel



1. Backup video recorder toggle (if on, the application will automatically record the live video stream when aircraft is armed). We highly recommend letting this on as recorded video is useful in case aircraft is lost. By default, video recording is enabled, except on specific tablet models on which this video recording feature is known to create instability.
2. Thermal camera field-of-vision delimiter shape, with the option to hide it
3. Remote controller HDMI output format* (sets video signal attributes for external monitor plugged on the remote controller HDMI port).
4. Unit system for altimeter (metric = meters, imperial = feet)
5. Set the camera resolution recording (Only on ELIOS 2 if idle)
6. Only on ELIOS 2, strobing light is enabling the lighting to be 60% more powerful using 80% less power. As a result, your ELIOS 2 is flying longer, delivering brighter and sharper images. Besides, it simulates the capability of a global shutter helping the camera to provide footage without rolling shutter to improve your photogrammetry results. **DISCLAIMER:** The light is flashing at 30Hz and might create discomfort, dizziness or put epileptic persons at risk.
7. Only on ELIOS 2 – seeing the cage is detrimental for photogrammetry, a soft limitation on the camera panning can be enabled. If enabled, the camera range is limited to +75° to -15°. The pilot is still able to access the full panning range by forcing the panning either by holding the control wheel or by resetting it to 0 and moving it again.
8. Only on ELIOS 2 – The close-up LED can be handled automatically by the aircraft or controlled manually.

* Only the output signal from the remote controller is affected; the onboard camera of Elios delivers 30 frames per second even if the HDMI port video mode is set to a higher framerate

3.2 Radio panel



This panel displays detailed data about the radio link quality between the controller and the aircraft.

Regular flight operation should not require changing settings shown here. However, if you are in an environment challenged by parasite radio signals, have other aircraft flying in the same area or have particular constraints by plant radio equipment, you can select a specific channel.

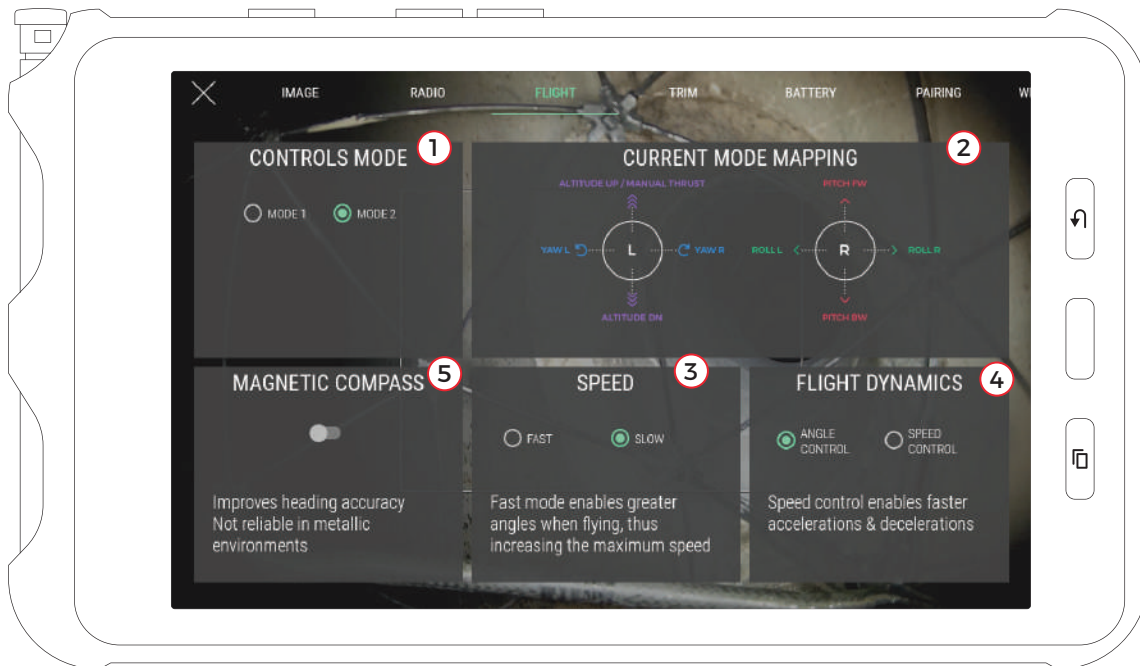
This screen shows the noise on each radio channel which the underlying system is able to use to stream the video feed. By default, the automatic mode is enabled, making an automatic jump to a different channel if the current one is deemed too busy for a quality link. You can force using a specific channel by tapping the corresponding button.

Noise readings are related to how busy each channel is. A higher reading probably means that other radio communications already operate on the same channel in the surroundings; the closer the radio operation happens, the bigger the noise. Below each channel, the large bar is an average reading, and the small one is an instantaneous reading. Colors go from green to orange, then red as the noise level is higher.

When manually choosing a channel, select one which has the lowest noise reading for best signal quality. Once you select the channel, you may see the corresponding noise level raising; this is expected behavior as radio transmission starts on the selected channel.

By tapping the Auto button, you can resume the automatic mode for channel choice.

3.3 Flight panel



This panel shows options related to flight controls and modes.

1. Controls mode (mode 1 and mode 2 are different mappings between stick axes and aircraft flight control axes)
2. Current mapping of the selected controls mode
3. Only on ELIOS 1: Maximum horizontal speed (not using the pro mode)
4. Only on ELIOS 1: Flight dynamics choice (changes acceleration and deceleration behavior of aircraft)
 - a. Angle control (default behavior)
 - b. Speed control (extra acceleration and braking assistance)
5. Only on ELIOS 1: Magnetic compass (enables more accurate reading of heading by using magnetometer)

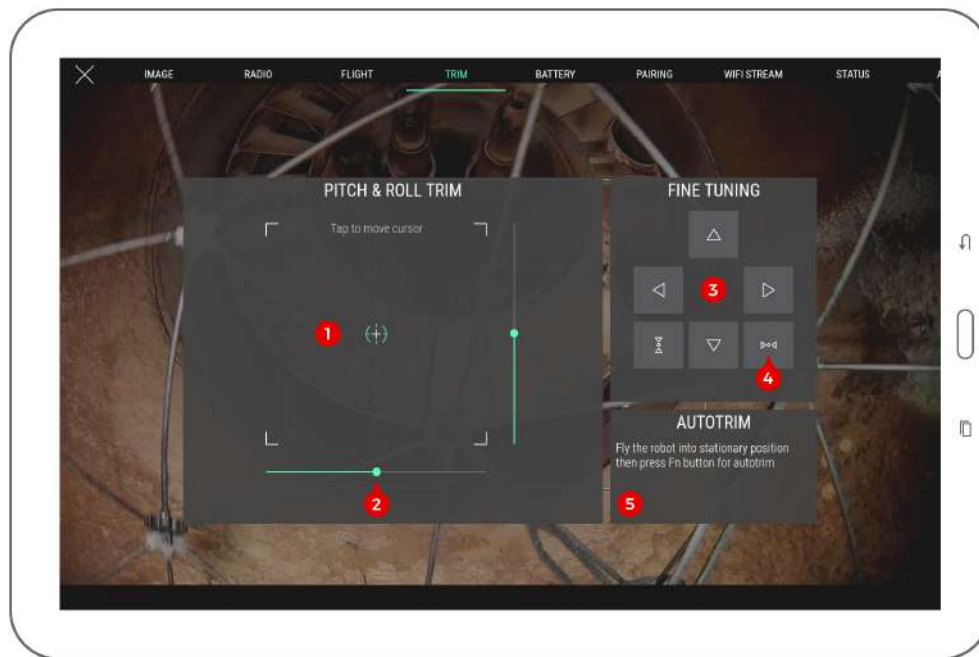
3.3.1 Magnetic compass considerations

Magnetic compass can be enabled for a more accurate reading of the heading using the magnetometer but should not be used in a metallic environment. Consider extra drift of the reading over time if disabled or in a metallic environment, as a metallic structure disturbs the magnetometer.



MAGNETIC COMPASS CANNOT BE ENABLED DURING A FLIGHT FOR CALIBRATION REASONS. IT IS POSSIBLE TO DISABLE IT IF AIRBORNE; AFTERWARDS, IT CANNOT BE ENABLED AGAIN UNTIL AIRCRAFT IS DISARMED.

3.4 Trim panel



This panel allows the user to trim a horizontally-drifting aircraft. Various controls are available to perform trimming.

1. Touch frame (tap to enable then drag the finger to set pitch and roll trim at once)
2. Pitch/roll sliders (drag to trim each axis separately)
3. Fine tuning buttons (tap arrows for small trim increments)
4. Trim axis reset button (reset trim to zero on each axis)
5. Autotrim function status (see autotrim procedure for more detail)

Trimming is usually performed while the aircraft is flying in a stable position in a wide open area to avoid turbulence.

To perform a proper trim operation, please refer to the [trimming procedure section](#).

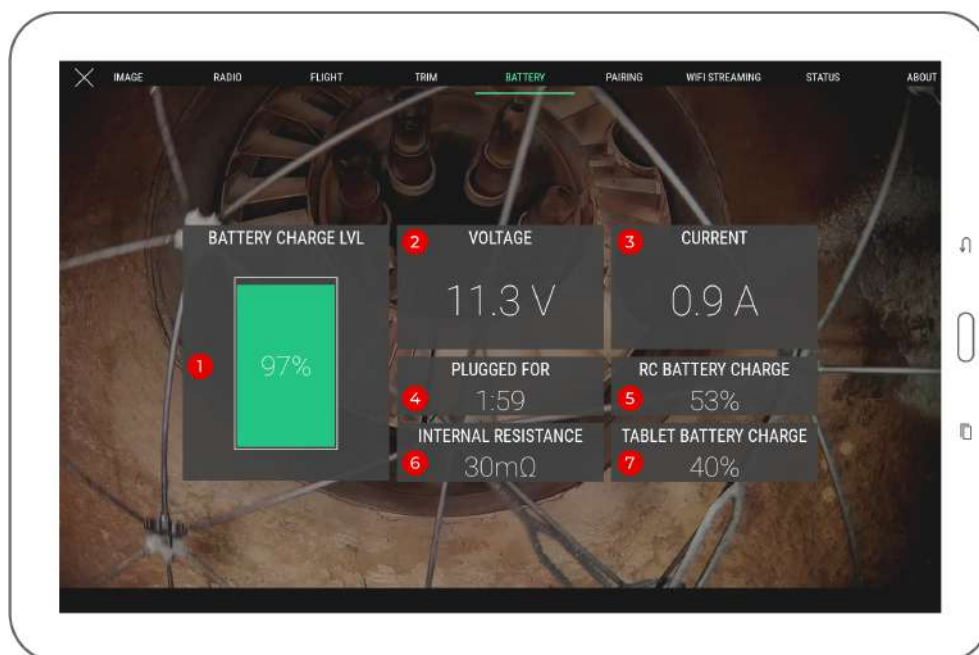


IF THE TRIMMING PROCEDURE OF DJI GO WAS USED IN THE PAST, PLEASE RECALIBRATE THE STICKS USING THE RECALIBRATE FUNCTION OF DJI GO BEFORE USING THE TRIM FEATURE IN COCKPIT.



TRIM RANGE IS VOLUNTARILY LIMITED TO A PART OF THE FULL CONTROL RANGE. THIS PREVENTS CASES SUCH AS ACCIDENTALLY PUSHING THE TRIM VALUE UP TO THE MAXIMUM HORIZONTAL SPEED WHICH MAKES THE AIRCRAFT DIFFICULT TO STOP. THIS BEHAVIOUR MAY DIFFER IF YOU HAVE EXPERIENCE USING THE TRIM FUNCTION OF OTHER RADIO-CONTROLLED VEHICLES OR AIRCRAFT.

3.5 Battery panel

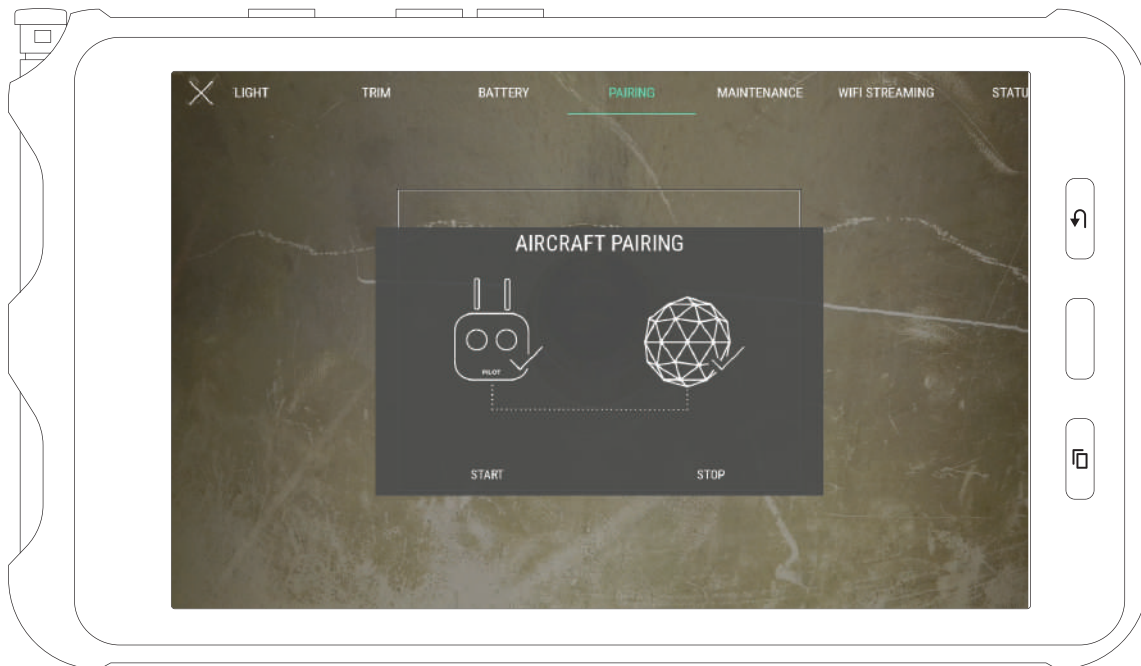


This panel shows data about the current battery status.

1. Aircraft battery charge
2. Aircraft battery voltage
3. Aircraft battery current
4. Time elapsed since aircraft battery was plugged in
5. Remote controller battery charge
6. Aircraft battery internal resistance (measured one time when a battery is plugged. If greater than 50mOhm, the battery is considered broken and can not be used for flying.)
7. Tablet battery charge

Please refer to the aircraft instructions for more detail about each of the above points.

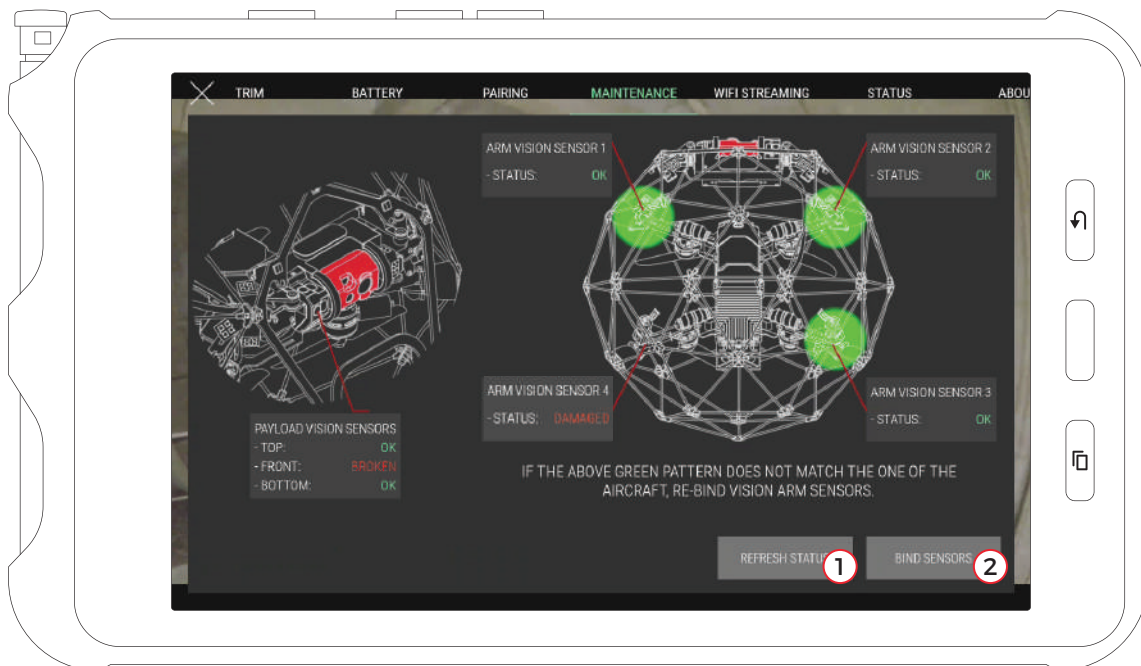
3.6 Pairing panel



This panel contains the commands to perform pairing operations between a controller and an aircraft.

To initiate a pairing sequence, press “start”. The ground unit starts beeping; push on the pairing button on aircraft. Pairing is complete when continuous beeping ends. Use the Stop button to interrupt the process manually.

3.7 Maintenance panel



Available only on **ELIOS 2**, the Maintenance panel is offering visibility on the Vision and distance sensors status.

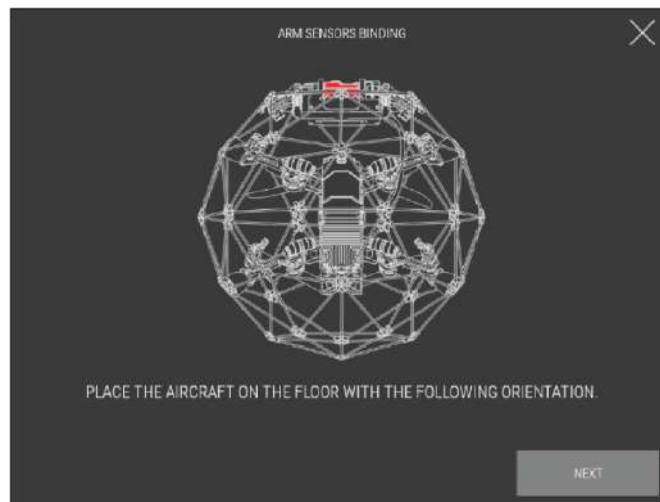
- 1- Refresh the status of all the sensors
- 2- Rebind all the sensors

The panel displays the status of the sensors. They can be:

- OK: Working properly
- UNBOUND: Working properly but not physically assigned on the aircraft
- DAMAGED: The sensor may not be working properly. Contact support.
- BROKEN: The sensor is not working anymore and has to be changed.

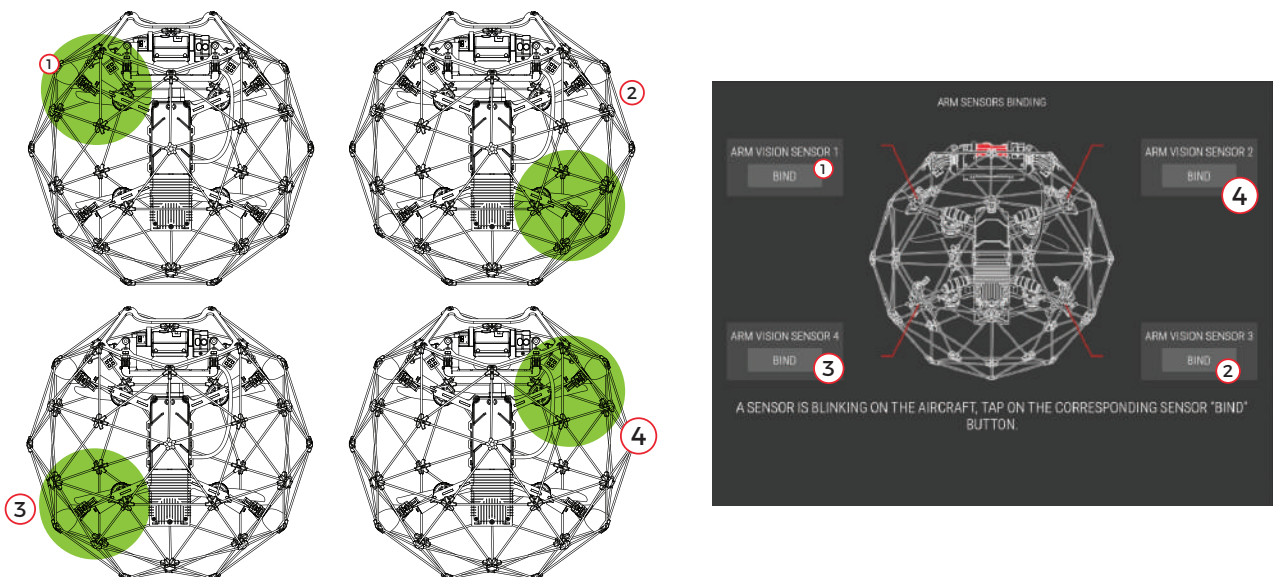
Note: It is possible to fly with damaged or broken sensors. But as the stability depends on those sensors, the performance of the aircraft ASSIST control might diminish.

If a sensor has been changed, the aircraft can't know the spatial location of the sensors. The user must be inputting this information. By tap on Bind sensor (2), the user will start the binding procedure and will be guided through the process.

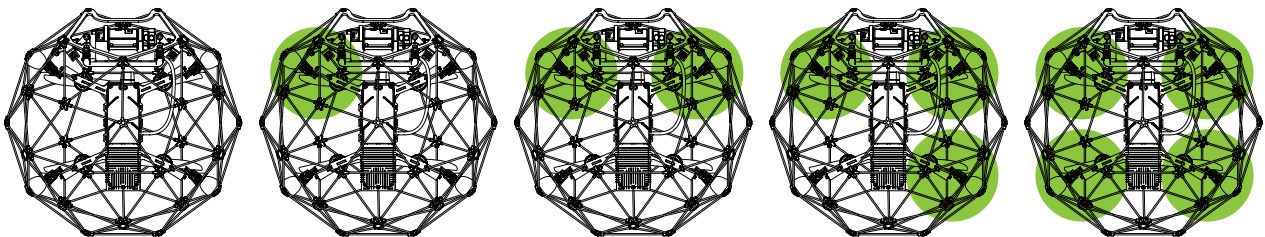


Place the aircraft as shown on the image.

Once ready, the aircraft will make the sensor blink one by one. By tapping on Bind (4) on the corresponding sensor in the application, the aircraft will understand the spatial location of each sensor.



The above illustration is an example of the binding pattern going top-left, bottom-right, top-right, bottom-left. Please note that this is an example, and the binding pattern is random.



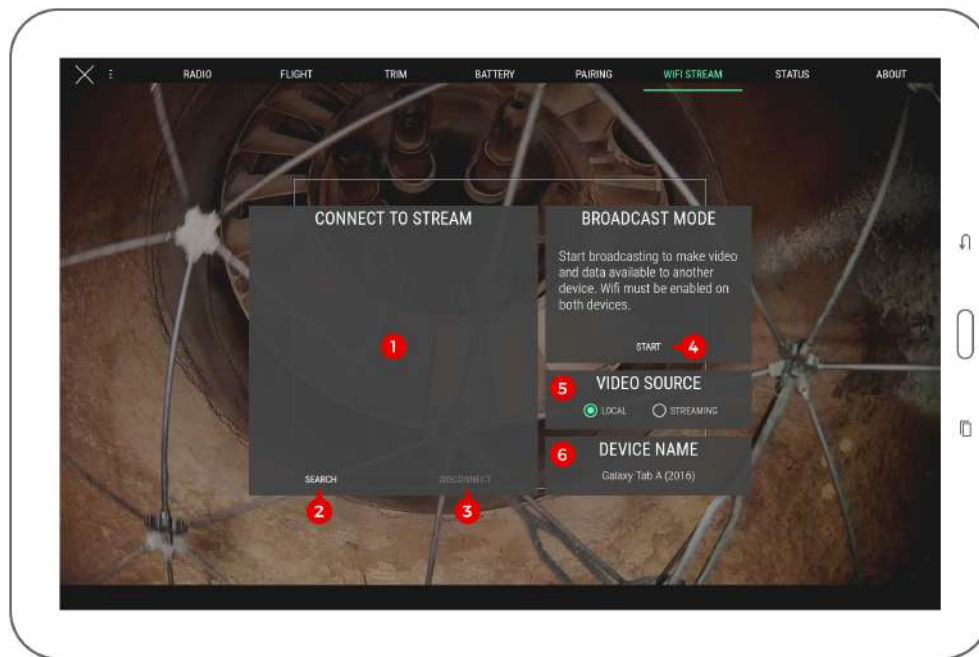
Upon completion, the user is asked to make sure the blinking pattern is the same as shown in the next panel.

If not, the binding process has to be started again.



NOT HAVING THE SENSORS CORRECTLY LOCALIZED BY THE AIRCRAFT WILL RESULT IN LOSS OF STABILITY AND UNPREDICTABLE FLIGHT BEHAVIOR. PLEASE FOLLOW CAREFULLY THE BINDING PROCESS.

3.8 Wifi streaming panel

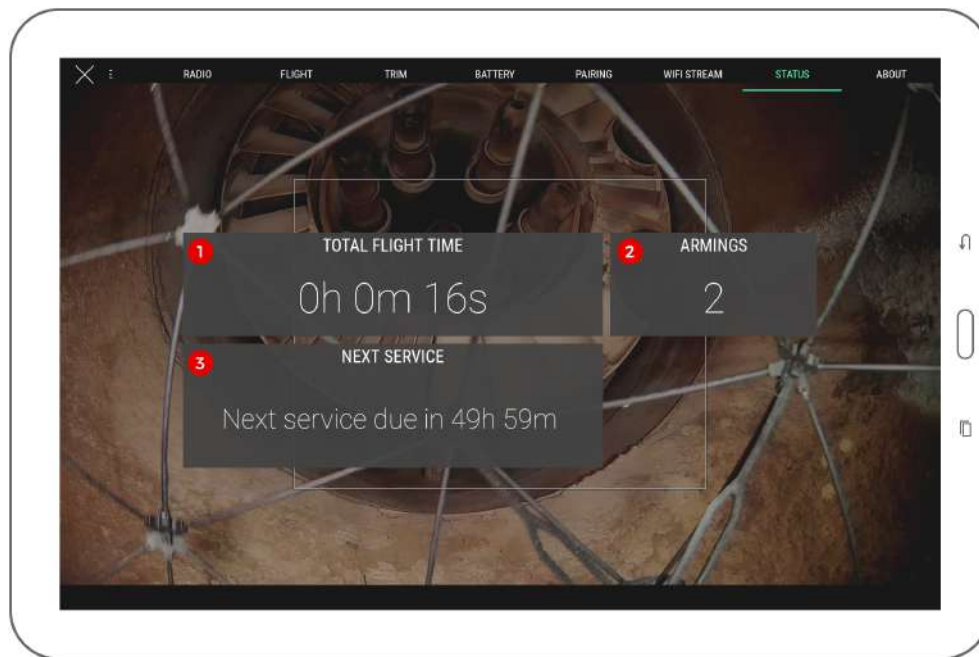


This panel controls everything related to data streaming between two devices through wifi. Wifi streaming allows using a secondary device as a simple viewer without needing to connect it to an actual remote controller; thus, two people can monitor a flight while using a single remote controller. Wifi streaming requires all devices to support Wi-Fi Direct.

Detailed processes on how to work with wifi streaming are explained in standard procedures. See the [wifi streaming procedures](#).

1. List of detected Wi-Fi direct devices (used to connect to a streaming device when in receiving role)
2. Streaming devices search button (starts a new search of devices around)
3. Disconnect button (disconnects active connection, available when a connection is established)
4. Broadcast start/stop button (starts streaming from the current device and makes it visible from other devices)
5. Video source selection for easy switching
6. Local: locally-connected RC and aircraft through USB cable (default)
7. Streaming: video streamed over wi-fi from another device
8. Name of this Android device as advertised in wi-fi system options; refer to this name when searching the current device from another device in receiving role.

3.9 Status panel



This panel shows the status counters of the aircraft, including total flight time, information about the next planned maintenance, and the number of armings.

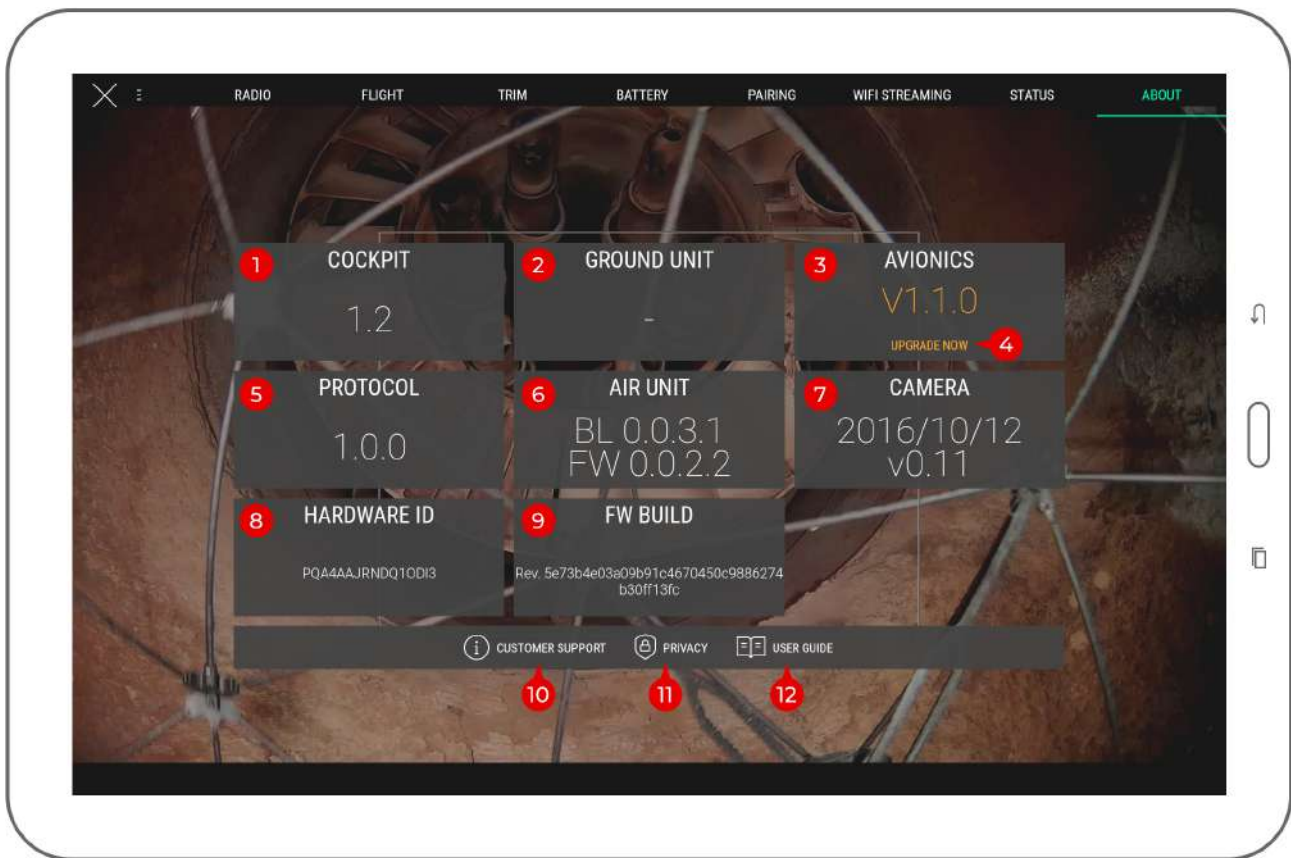
1. Total flight time counter
2. Total armings counter
3. Only on ELIOS 1, flight time left before next required aircraft maintenance

3.9.1 Flight time restriction

If the connected aircraft has a flight time restriction, an additional block is visible describing flight time left under this restriction. The flight time shown is not related to battery charge at all. To increase flight time, press the Add time button on the same block then enter the code given by your account manager. For the detailed process, refer to the [time unlocking process](#).

The block is not shown when the aircraft has no active restriction on flight time.

3.10 About panel

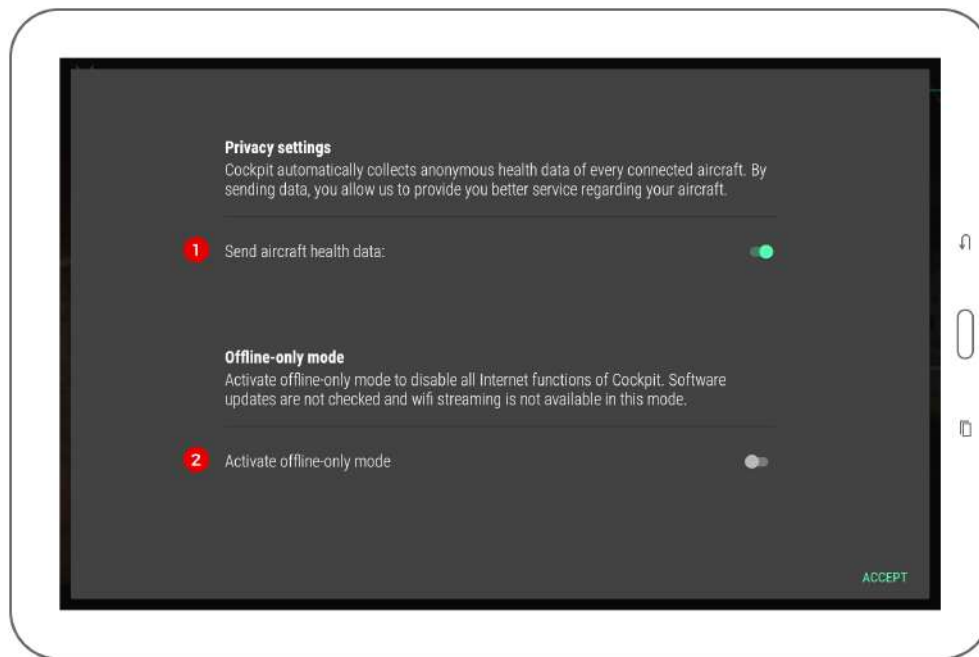


The different version numbers and identifiers of the Elios system are mentioned on this page.

In any incident report, please make sure to include the data shown here; this information helps Flyability to troubleshoot the issue you are experiencing and expedites incident response time.

1. Cockpit version
2. Ground unit (remote controller firmware) version
3. Avionics version of connected aircraft
4. Only on ELIOS 1 – Avionics upgrade button (visible if connected aircraft requires a firmware upgrade, open the firmware upgrade tool)
5. Protocol version of connected aircraft
6. Air unit version of connected aircraft
7. Camera firmware version of connected aircraft
8. Hardware identifier of connected aircraft
9. Build revision of connected aircraft
10. Customer support information button (shows support contact information)
11. Privacy settings button (opens the [privacy settings window](#))
12. User guide button (shows this user guide)

3.11 Privacy settings



Accessed from the About panel, privacy settings screen contains settings related to privacy and data security.

1. Send aircraft health data (enables Flyability to receive periodic updates about aircraft flight time and prepare better maintenance procedures)
2. Activate offline-only mode (disables all Internet-related features of Cockpit)

3.11.1 Offline-only mode

Operators in sensitive sites may have to disable all Internet access from their devices to comply with company policies.

Offline-only mode disables all Internet functions of Cockpit, including:

- Software updates check
- Sending aircraft health data to Flyability

You will need to actively check for software updates on your own to get them as they are available.

4 Common procedures

This chapter describes processes used in typical usage cases

4.1.1 Aircraft firmware upgrade

Refer to the Overview and setup chapter, in the [Firmware upgrade](#) section.

4.1.2 Calibrating / trimming aircraft

Trimming the aircraft is a mechanism to compensate for a horizontal drift while no controls are touched.

For a successful trimming, you need to be able to fly in a wide-open space with no obstacles or people in the area for safety reasons. Turbulence can occur if the area is too narrow.



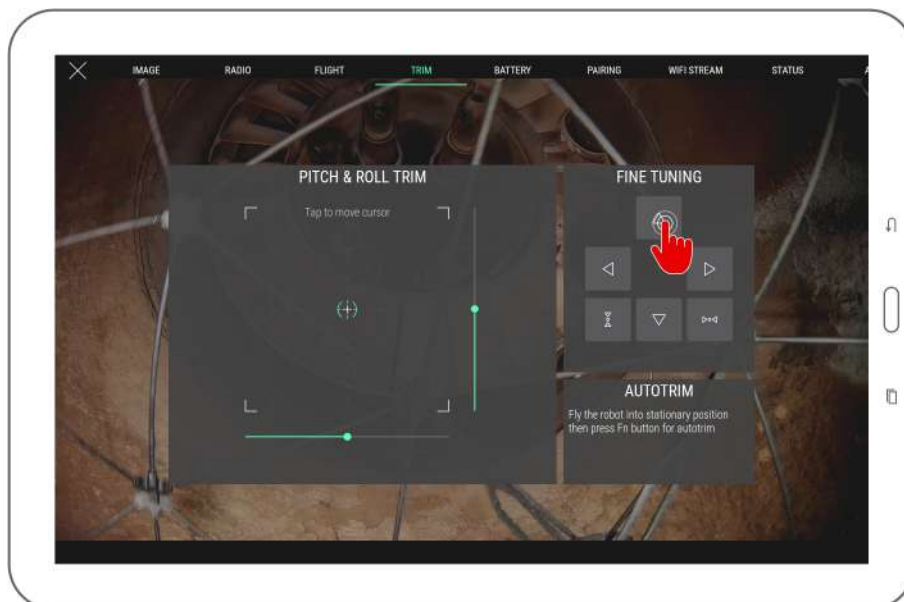
IF THE TRIMMING PROCEDURE OF DJI GO WAS USED IN THE PAST, PLEASE RECALIBRATE THE STICKS BEFORE USING THE TRIM FEATURE IN COCKPIT.



TRIM RANGE IS VOLUNTARILY LIMITED TO A PART OF THE FULL CONTROL RANGE. THIS PREVENTS CASES SUCH AS ACCIDENTALLY PUSHING THE TRIM VALUE UP TO THE MAXIMUM HORIZONTAL SPEED WHICH MAKES THE AIRCRAFT DIFFICULT TO STOP.

4.1.3 Manual trimming

1. Have the aircraft flying in a safe place, if possible open enough to avoid airflows from the propellers blow back on the aircraft.
2. Open trim panel in settings.
3. For accurate trimming, tap the arrows on the upper right pad. You can alternately use the trackpad to set a trim position.

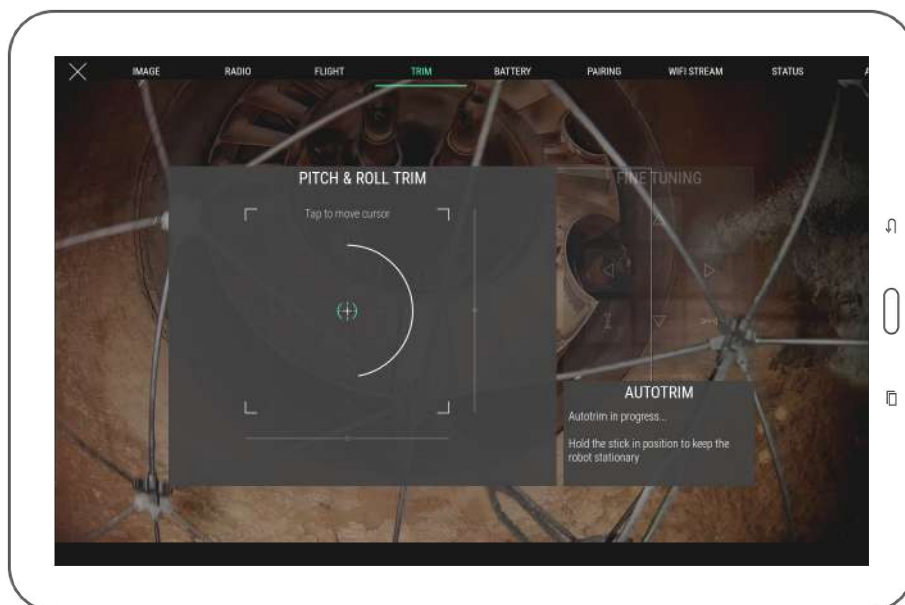


4.1.4 Using autotrim function

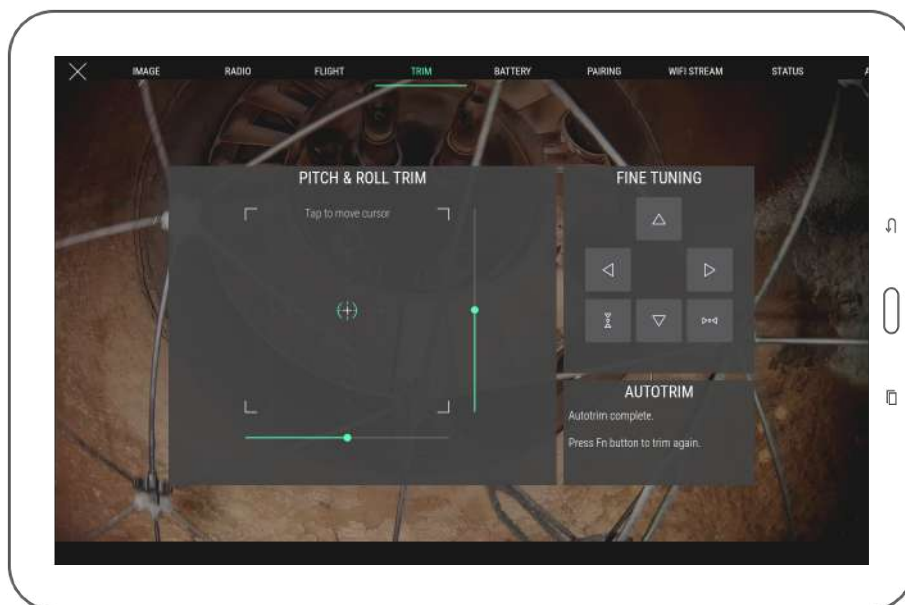
1. Have the aircraft flying in a safe place, if possible open enough to avoid airflows from the propellers blow back on the aircraft.
2. Open trim panel in settings.

Using the pitch & roll stick, find the position in which the aircraft is stationary. The small cross indicates the current stick position relative to the current trim. Don't use aggressive stick motions, but instead try to find a constant stick position combination that stabilizes the aircraft and prevents it from drifting horizontally.

3. Press the Fn button on the remote controller to begin recording.
4. While the recording progress bar fills up on the screen, hold the stick into the position that makes the aircraft steady. During this moment, values from the stick are collected to compute an average that will be the new trim position.



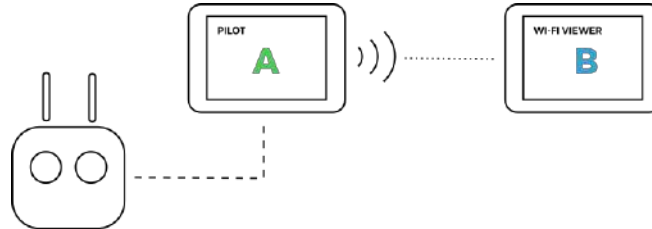
5. New position is then recorded unless the stick has moved too much during the recording. The trim target takes the position of the small cross when recorded. Success is confirmed by the message shown in the Autotrim box on the screen and a sound signal.



6. You can attempt autotrim as many times as you want in a row. Each autotrim take is relative to the previous trim setting; all that is needed is to fly the aircraft in the steady position, and the application takes care of saving it.

4.2 Streaming video and telemetry to a second tablet

Wifi streaming allows using a secondary device as a simple viewer without needing to connect it to an actual remote controller; thus, two people can monitor a flight while using a single remote controller. Wifi streaming requires all devices to support Wi-Fi Direct.



In addition, during the use of a range extender and a camera operator remote controller, it is usually not possible to receive video signal from the camera operator RC due to the way transmission works as it needs to be in direct line of transmission with the aircraft; only the controls will be working in such scenario as these are relayed through the pilot RC. Therefore, wifi streaming is a handy way to catch live video while using a camera operator RC and the range extender at the same time.

In this section:

- The Android device running Cockpit emitting the video stream, attached to the main pilot controller, is named as “device A”
- The Android device running Cockpit that receives the video stream is named as “device B”

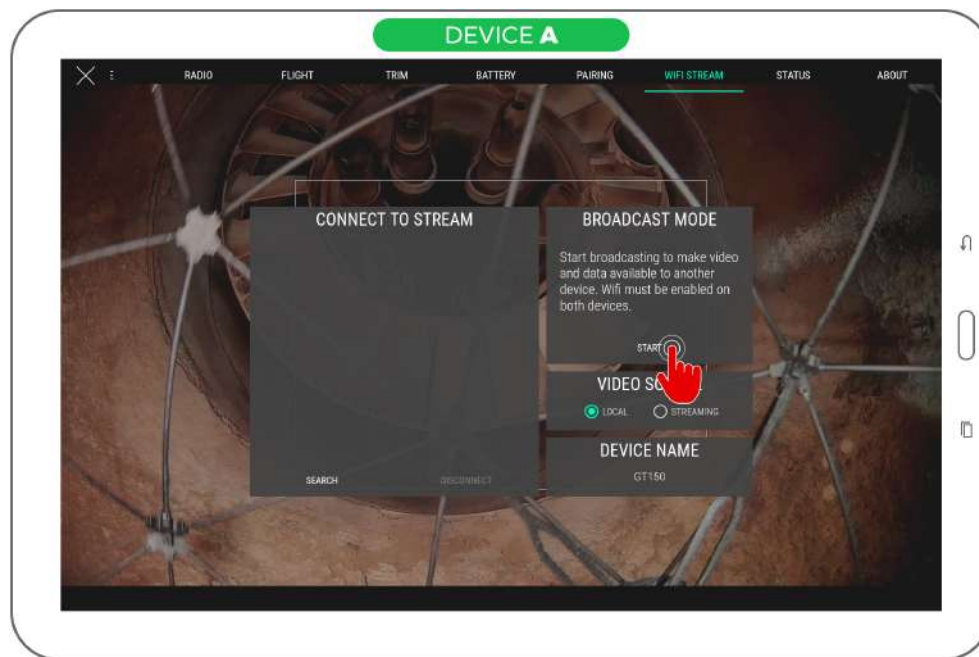
4.2.1 Starting a wifi streaming session

One remote controller and two devices running Cockpit are required. Device A is the one connected to the remote controller; device B is not connected to any controller and will receive the streaming video.

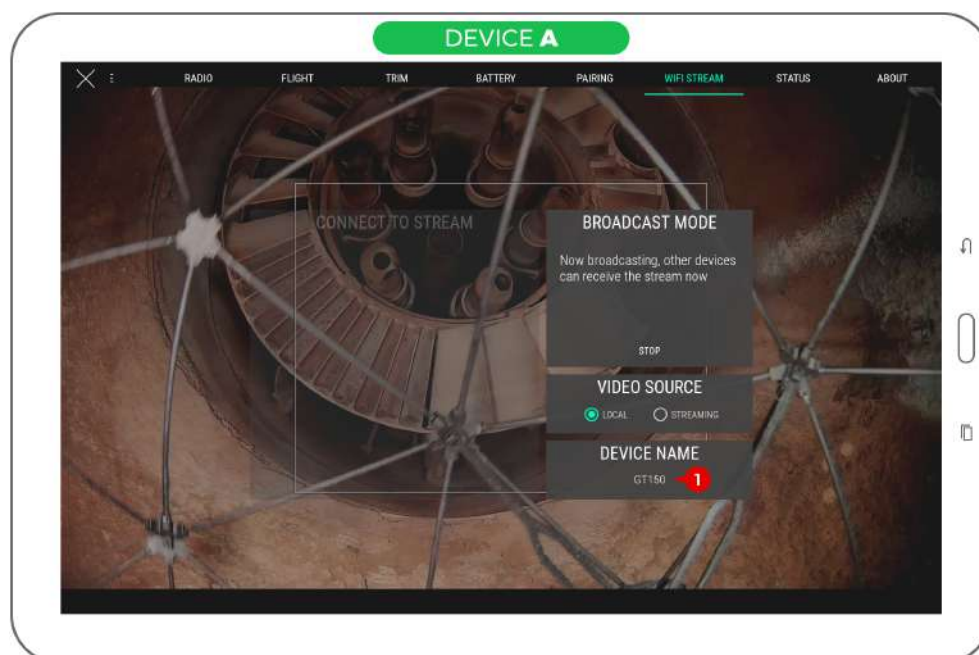


WIFI AND LOCATION HAVE TO BE ENABLED IN BOTH TABLETS

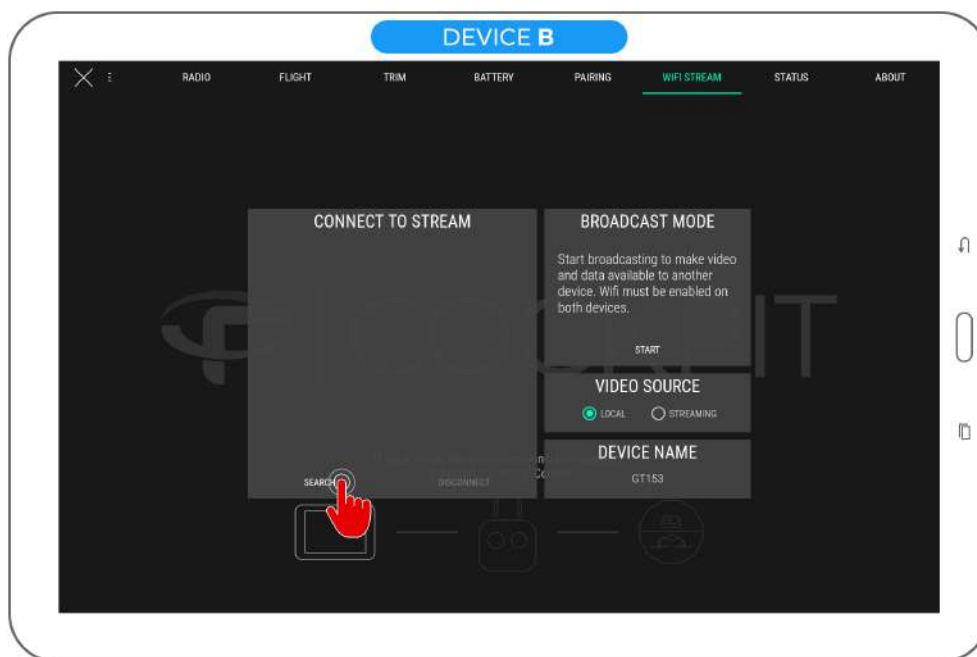
1. Connect device A to the remote controller. Start Cockpit on both devices.
2. Open Settings and go to Wifi streaming panel on device A.
3. Press Start (broadcast mode) button on device A and make sure the video source is set to “local”.



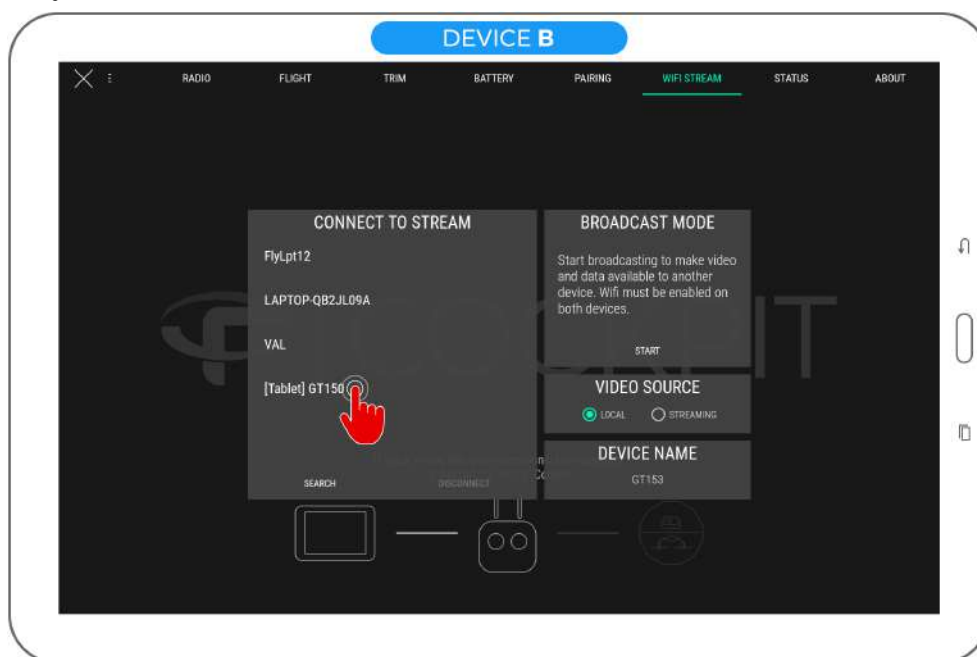
4. Broadcast mode block is now showing that broadcasting is active. Locate the device name (1); it will be the one we will select on the other side to initiate the connection.



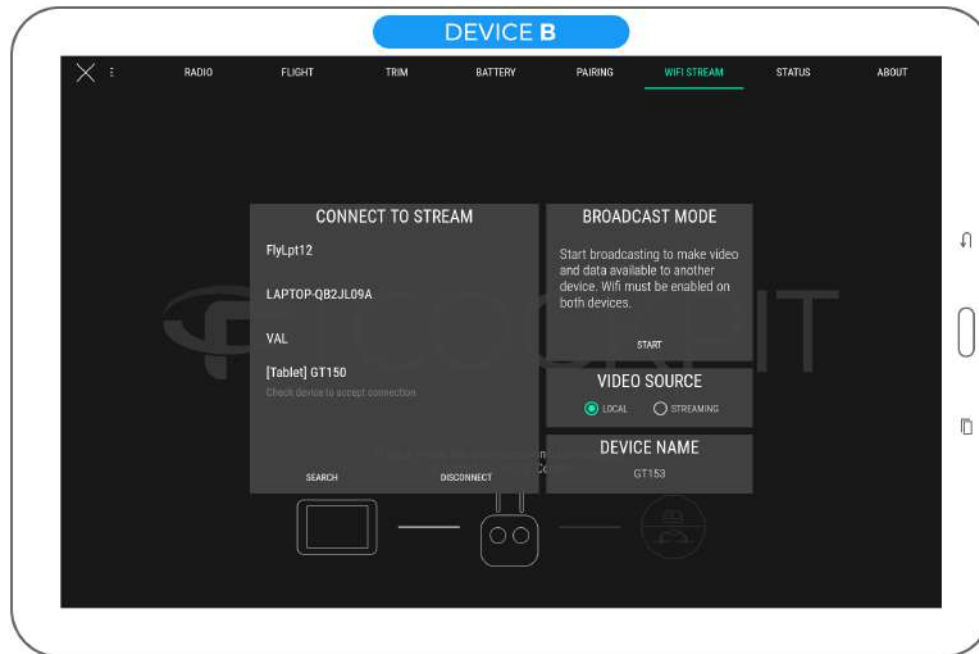
5. Press Search to begin searching for streaming sources on device B.



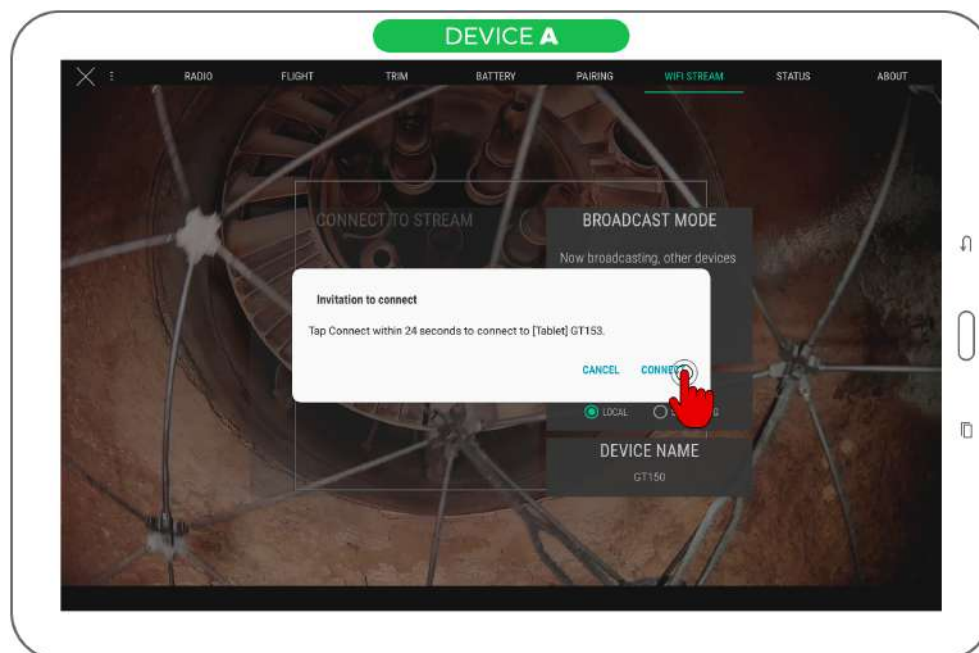
6. On device B, click the source named as previously seen on device A in the list. Be careful, some incompatible Wi-Fi Direct peripherals such as printers may be listed here. Be sure to match by name.



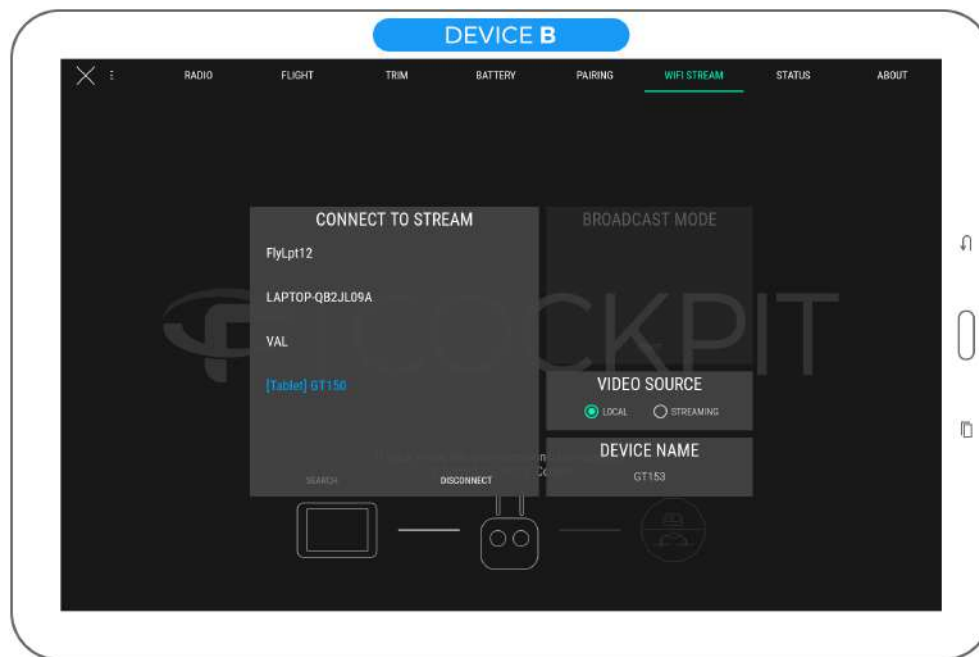
7. The device is now marked as waiting for acceptance from the other side.



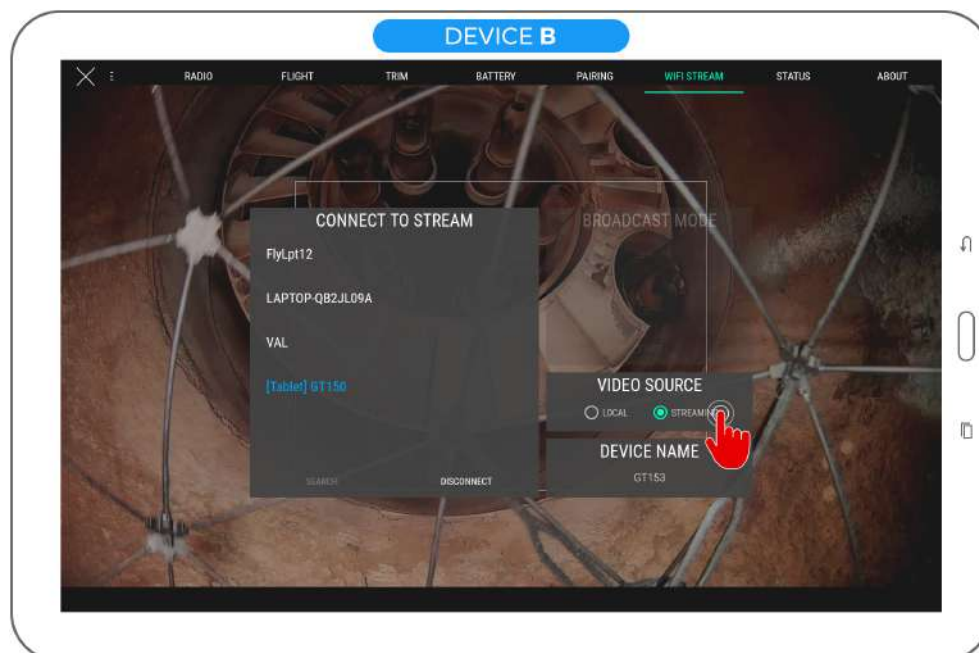
8. Accept Wi-Fi Direct connection on device A by acknowledging the system dialog requesting so.



9. When the connection is established, device A appears in blue on device B's list.

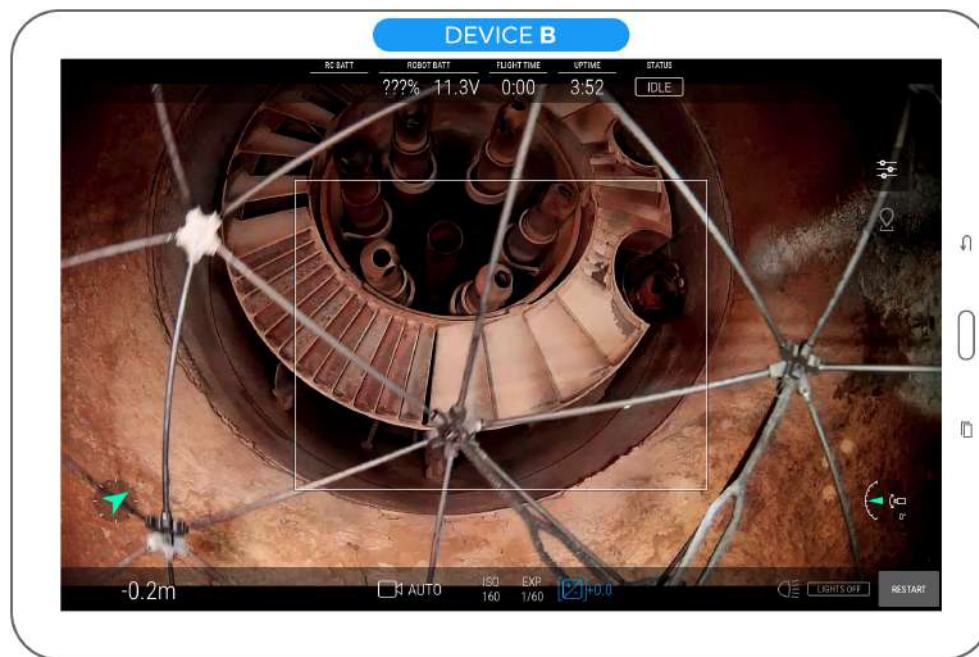


10. Set the video source to "streaming" on device B.



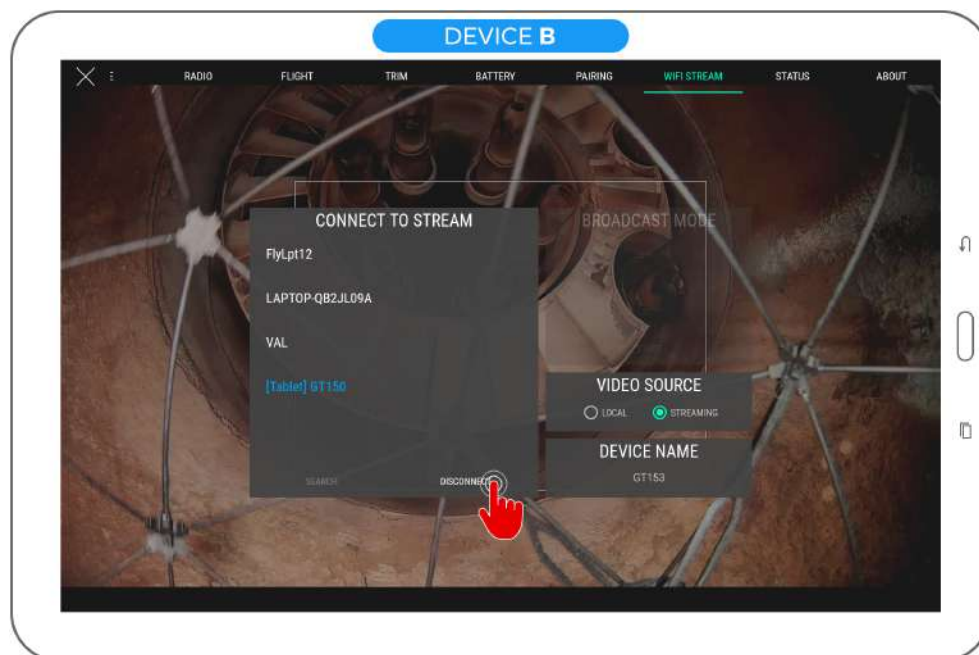
11. Video and telemetry should be visible on the screen of device B now. Exit settings to view telemetry.

12. Note: some information is not available as a wi-fi streaming receiver.

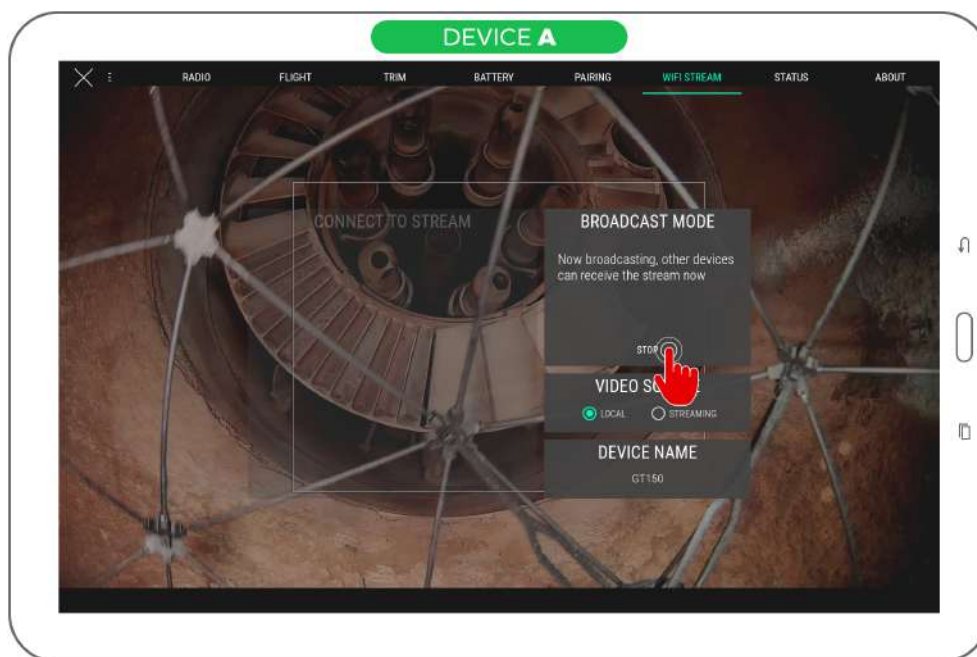


4.2.2 Stopping the streaming session

1. On device B, press the Disconnect button below the streaming sources list.



2. On device A, press the Stop server button in Broadcast mode section.



3. Select "local" video source on device B to resume viewing video from a locally connected RC.



4.2.3 Using a camera operator with range extender

Two remote controllers (one being pilot and the other being camera operator) and two devices running Cockpit are required, together with the Flyability range extender. We assume the pilot and camera operator pairing is already active; if it is not the case, see the section related to this to achieve pairing first.

The device attached to the RC used as pilot is named "Device A", while the one attached to the RC used as camera operator is named "Device B".

1. Connect device A to the remote controller used as pilot, device B to the remote controller used as camera operator. Start Cockpit on both devices.
2. Continue by following the steps in [Starting a wifi streaming session](#).

Now, at any time, you may switch to the "local" source to view footage coming directly from the camera operator RC. Switch again to "streaming" source to resume footage coming from device A.

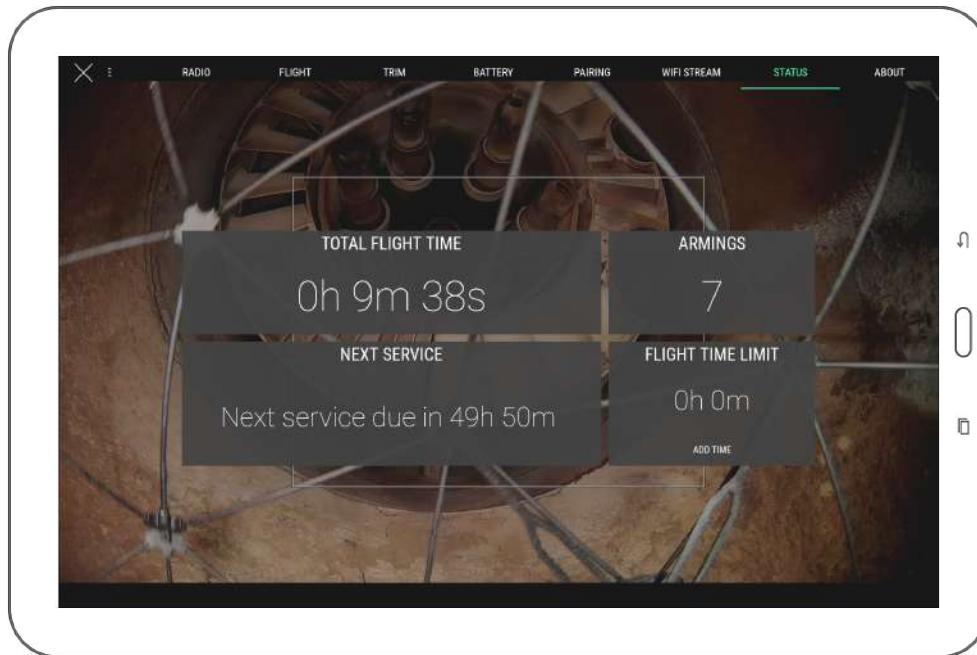
4.3 Aircraft with flight time restriction

In specific cases, aircraft can have a flight time restriction in correspondence with your contract. If it is enabled, Cockpit can help you see remaining time and increase it following the reception of a code.

4.3.1 Reading remaining flight time

With an aircraft connected, go to the Status panel in the settings.

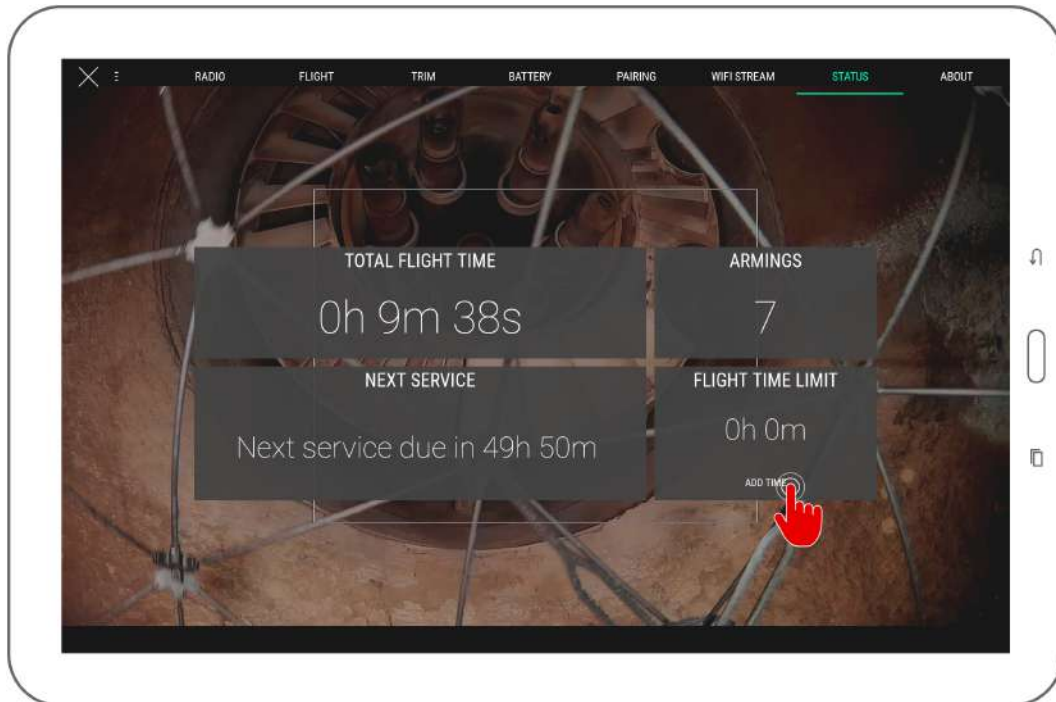
If the aircraft has a flight time restriction: the “Flight time limit” block can be seen on the panel as shown below. The block displays current remaining flight time.



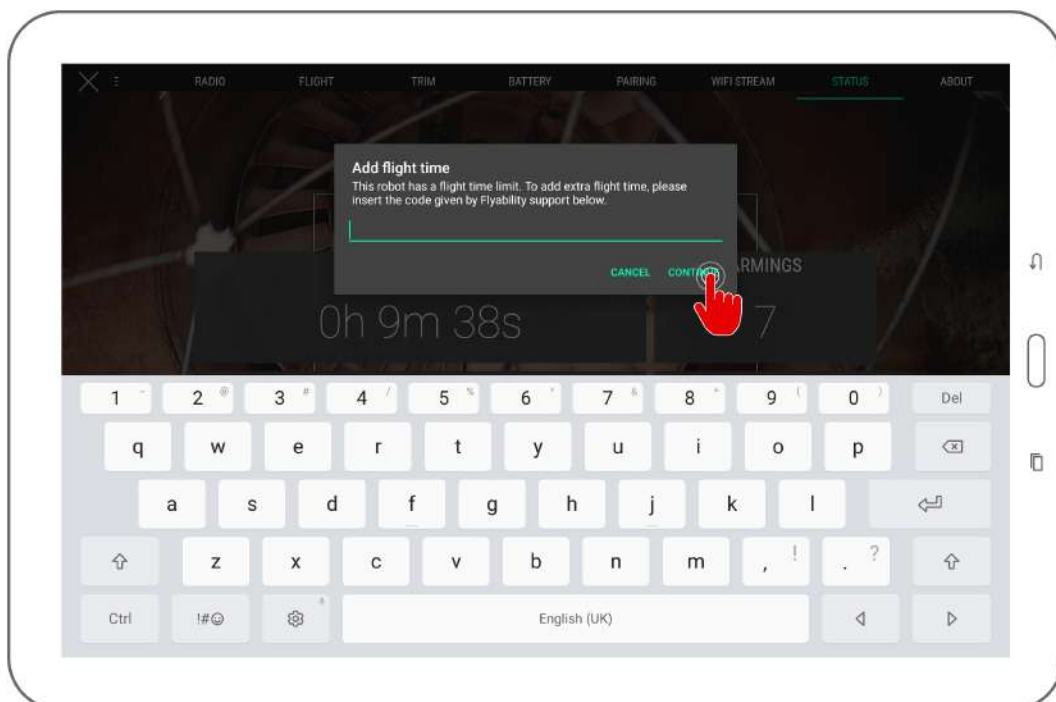
4.3.2 Adding extra flight time

Once you have received a code from Flyability support:

1. Connect aircraft, RC and start Cockpit
2. Wait for the connection process to finish
3. Open Settings, go to the Status panel
4. Press the Add time button



5. In the entry dialog that appears, type in the code given by support; Press Continue when the code is entirely typed in.



If the entry is accepted by aircraft, a dialog confirms operation success. Your flight time is increased, and you may resume flying from now on if it was depleted before.

4.4 Checking streamed video recordings

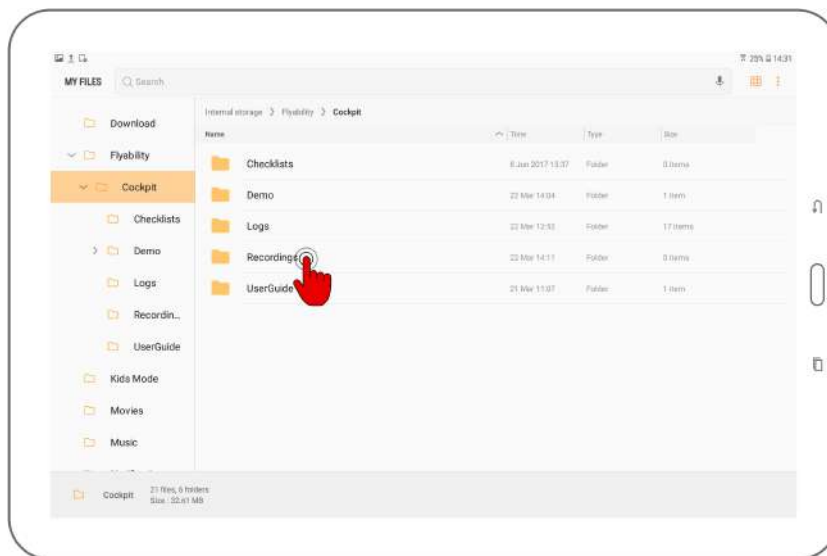
Cockpit automatically starts recording the tablet screen when the aircraft is flying and stops when the flight is over. Telemetry in the form of movie subtitles is also recorded.

Main uses of streamed video recordings are:

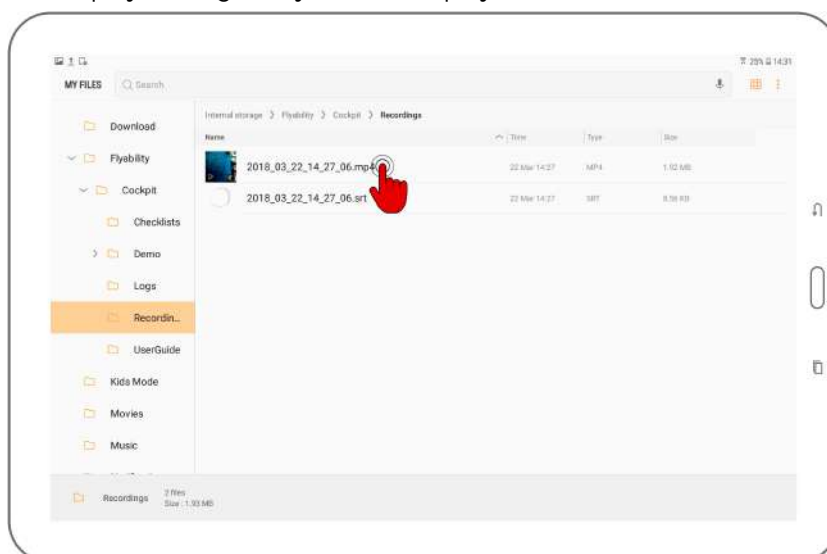
1. Immediate review of flight on the tablet, without extracting data from SD card
2. Backup in case aircraft cannot be recovered

Such recordings have lower quality than the onboard footage. To review those videos:

1. Open the file manager application on your Android device
2. Browse into Flyability/Cockpit/Recordings



3. Find the video files corresponding to your previous flights. Files are named by date and time of recording. SRT-files accompanies videos recorded with Cockpit 1.2 and later; they contain recorded telemetry in the form of subtitles.
4. Tap a video file to play it using the system video player.



4.4.1 Video storage limits

For performance and space management, once the total size of the recordings folder exceeds 4GB, the oldest videos are automatically deleted as new footage is recorded. Please mind doing backups of such files in a timely manner if you would like to keep them.

5 Warning messages

To ensure the best experience with Elios and prevent failures, the application will issue warnings when necessary. It is essential to take action as described in the table below when such warnings appear.



FAILURE TO TAKE THE NECESSARY ACTIONS AFTER A WARNING CAN HAVE CONSEQUENCES RANGING FROM DIFFICULTY TO OPERATE TO SEVERE DAMAGE, LOSS OR PERSONAL INJURY.

5.1 Warning types

Multiple levels of importance are given to different warning messages, expressed using different colors.

COLOR	SEVERITY	EXPLANATION
Blue	Information	Advice for improving the user experience of the Elios system; gives recommended actions which are good for most cases but can be ignored depending on the pilot skill level.
Yellow	Warning	Point that requires attention.
Red	Critical / Error	Point that requires immediate action. Safety of aircraft, people, and property can be impacted, or flight can be made impossible.

5.2 Audible warnings

Low battery warnings trigger a flashing frame around the screen and an audible tone.

Make sure the System sound level of the tablet is raised so that the alarm tone can be heard, especially if flights take place in a noisy environment. The use of headphones can help.

5.3 Message explanations

Following is a mention of actions that should be taken when an error or warning messages are seen throughout the application.

MESSAGE	REQUIRED ACTION / EXPLANATION
Critically low battery - Land now	Aircraft battery has reached a very low level. This is critical; immediately land the aircraft in safe conditions and replace the battery with a fully charged one to continue flying. Discharging a battery to a too low voltage can damage it irreversibly
Battery level unknown - Use voltage and time	The battery that was plugged was not full, and the Elios is not able to evaluate its real charge. It is advised to cancel the flight and use a freshly charged battery instead. If the problem persists even when the battery was freshly charged the battery is worn out and should be replaced. With an aircraft running the latest firmware, when the critical battery voltage level is reached, the corresponding warning is shown anyway with the associated alarm sound

Controller battery low	Controller battery is low. Even if the controller does not discharge as fast as the aircraft, consider charging it soon
Cold or damaged battery - Cannot fly	<p>The onboard system has evaluated the battery as risky. Batteries with the same conditions can have critical issues during flight, including loss of power during flight and crash even if still charged at a good level. Arming is impossible in this situation for safety reasons.</p> <p>Replace the battery before flight.</p> <p>If you are in a cold environment such as during winter, the battery can be faulty due to the low temperature, although in good condition. Replace the battery with one at a normal ambient temperature (typically 10°C to 30°C). One possibility to keep batteries warm is by using a special LiPo-safe bag with built-in electric warmer. Please refer to the battery safety guidelines for more information.</p> <p>Please refer to the Elios instructions for more information about battery handling specifics.</p>
Log SD card error	Either the SD card used for log recording is faulty, or the aircraft has stopped recording log files. If this message persists, the current SD card can be damaged; this can be checked easily by using a different SD card.
Camera SD card error	Error concerning camera SD card operation. Can be caused by a corrupt card.
Manual thrust engaged. Move switch down before arming and for altitude hold	The altitude control lever is in the thrust position. Dismiss this warning if you are comfortable flying in this advanced mode, or switch to altitude hold mode instead.
Service overdue by __ s - Warranty may be void	The service of the aircraft is overdue. Please contact Flyability.
Thermal camera error - Restart robot	The thermal camera cannot record at the moment. Restart the robot to restore recording. If the issue persists, please contact support.
Manual transmission channel set. Use auto if quality is low.	Radio transmission channel choice is set to manual on the current aircraft, likely during a previous flight. This is a reminder of this setting since manual channel choice can decrease the video quality in comparison with the automatic mode. Onboard video recording quality is not affected by this. You can safely fly with the current transmission setting. If video quality is low at some point, you can set the channel choice mode to automatic to attempt to get better quality.
SD card slow for logs - Possible loss of data	The inserted SD is not able to write fast enough. User may try to reformat it according to the aircraft user manual or contact Flyability.
Propulsion system failure	<p>Failure detected in the aircraft propulsion system.</p> <p>Check that propellers are in good condition, tightly attached to the motors and each one is mounted to a motor with the correct direction of rotation. A propeller may be broken, loose, or in the wrong place; can also signal a motor failure. If you are confident with the proper tightening of propellers and correct state of motors, restart the aircraft to be able to arm it again.</p>
Camera error	The camera is encountering a problem that can affect the recording. Also caused by old camera firmware version; consider upgrading the camera firmware especially after an aircraft firmware upgrade.
Stability sensor unresponsive - Poor ASSIST stability expected.	One of the Arm vision and distance sensor is damaged or not functioning correctly. If restarting the aircraft does not fix the issue, change the sensor, or contact Flyability.

Tablet temperature high	<p>The internal components of the tablet on which Cockpit is running are hotter than during operation in normal conditions. It is likely that an external source is heating it up, such as direct sunlight or hot ambient air inside the facility. Take action to protect the tablet from overheating to keep an acceptable transmission quality.</p> <p>Normal operating temperature ranges depend on the tablet itself. Please refer to the tablet specifications and instructions to know the recommended temperature range.</p>
Dead battery - remove and discard safely	<p>Aircraft battery is discharged beyond minimum voltage and cannot be used anymore. Remove it from aircraft and dispose of it according to the instructions given by Flyability. Do not attempt to charge it, contact support for more information.</p>
Magnetometer calibration failure	<p>The magnetometer has failed to calibrate during the arming sequence. This can be caused by the aircraft being moved. Do not move the aircraft while the calibration takes place, and make sure it is on a stable surface.</p>
Allowed flight time over - contact support	<p>The aircraft has an active flight time restriction; flight time left has reached zero. Contact support for instructions on how to activate your aircraft for additional flight time. If you already received a code, follow the procedure to add flight time.</p>
Old firmware - please upgrade	<p>The aircraft runs an outdated version of Avionics. To the benefit of all the newest features of Cockpit, please upgrade the aircraft with the latest Avionics version. You typically see this warning after installing a new version of Cockpit.</p>
Not in ASSIST mode. Move switch to C1 - ASSIST mode, to be able to arm the drone.	<p>ELIOS 2 can't be armed if the control mode is not ASSIST. Place the top left control mode switch on the remote control to C1 - ASSIST.</p>
Video recording error - restart aircraft	<p>The camera failed to record correctly the current video. You may need to restart the aircraft.</p>
Video recording error - camera SD card full	<p>The camera SD card is full. The aircraft is not able to record video anymore. Remove some videos to allow the aircraft to record the flight properly.</p>
Heading calibration in progress, do not block aircraft rotation	<p>The aircraft is performing the calibration of its magnetometer for a more accurate heading measurement. Do not touch, move, or interfere with the aircraft rotation.</p>
High vibrations - check propellers	<p>Damaged propellers may increase the vibration levels of the aircraft resulting in less stable flights and faster mechanical damaged of some parts. Change the propellers shortly.</p>
Low Android storage space - will not record next flights, performance can reduce, delete files before flying	<p>Available storage space in the internal memory of Android device is low. Free some storage space by deleting unwanted files. System and Cockpit see their performances significantly reduced when internal storage gets full: more latency, bad video quality, slow user interface. The built-in video recorder will not record when this warning is active. Minimal free space (1GB) is required for the recording to start, as it takes additional buffer space into account for the actual recording. Be sure to have freed enough space before you resume flying.</p>
Pro mode engaged. Release button to slow down.	<p>Flying in Pro mode is difficult and voids the warranty.</p>

Weak signal - fly closer	Radio signal is getting weak, bring your aircraft back, or you may lose its control.
Critically low battery voltage - Land now	Aircraft battery has reached a very low level. This is critical; immediately land the aircraft in safe conditions and replace the battery with a fully charged one to continue flying. Discharging a battery to a too low voltage can damage it irreversibly.
Camera SD card almost full - free up __ GB to do a flight	Make some room on the camera SD card to ensure your subsequent flight will be correctly recorded.
Avionics SD card error	Either the SD card used for log recording is faulty, or the aircraft has stopped recording log files. If this message persists, the current SD card can be damaged; this can be checked easily by using a different SD card.
Payload temperature high	The electronics of the aircraft is warming up. The electronics will shut down to protect itself, making the pilot lose control of the aircraft. You must bring your aircraft back in a colder environment.
Motor communication error - drone cannot fly	A communication issue occurred between the aircraft and its motors. You must try to restart the aircraft and try again. If the problem persists, contact Flyability.
Drone firmware updating - do not unplug battery	The aircraft is updating their firmware. It is critical not to turn off the aircraft, or the motors will be irreversibly damaged.
Payload communication error	The payload had a communication issue. Please restart the aircraft. If the problem persists, please contact Flyability.
Drone initializing - keep it still on the ground	The IMU is doing some background calibration. Please wait until completion. Upon the disappearance of the message, the aircraft can be armed.
Lighting hot - do not touch	The LEDs are hot and may burn you. If you need to touch them or manipulate the aircraft, please wear gloves.
Camera is storing pictures - do not unplug battery	After recording a video, the camera needs to write and close the files correctly. If the battery is unplugged during this procedure, video footage and still images may be lost.
Battery temperature too high - drone cannot fly	The battery is too hot. Cool it before flying.
Battery temperature too low - drone cannot fly	The battery is too cold, Warm it up before flying
Battery temperature high - flight time and performance diminished	The battery temperature is high - flight time and performance might diminish. Please fly in a colder environment to save flight time and performance.
Battery temperature low - warm the battery or fly with caution	The battery temperature is low. The battery performance is diminished as well as its reliability. Please fly in a warmer environment and watch the battery voltage closely.
Battery temperature too high - land immediately	The battery temperature is dangerously high. It may result in fire or explosion hazard if temperature keeps increasing.

Do not fly - unreliable data transmission! Restart Cockpit, RC and drone. If the issue persists, please contact Flyability Support.<	The telemetry received by Cockpit is delayed and results in inconsistent information. It is dangerous to fly the aircraft. Cockpit should be restarted. If the issue persist, contact support.
Camera not working	The camera had an issue. Please restart the aircraft. If the problem persists, please contact Flyability.
Old firmware - Refer to the manual to learn how to upgrade your aircraft	The aircraft firmware has to be updated.
Avionics SD card missing - cannot fly	Please insert an SD card in the Avionics SD card slot to be able to fly.
Avionics SD card full	Please empty the Avionics SD card to be able to fly or insert a new empty SD card in the Avionics SD card slot
Log SD card missing	Please insert an SD card in the LOG SD card slot to have your telemetry data saved.
Log SD card full	Please empty the LOG SD card or insert a new empty SD card in the LOG SD card slot to have your telemetry data saved.
Camera SD card missing	Please insert an SD card in the CAM SD card slot to have your video footage saved.
Camera SD card full	Please empty the CAM SD card or insert a new empty SD card in the CAM SD card slot to have your video footage saved.
Too strong signal - increase distance between R/C and drone.	The wireless transmission signal received by the GCS is too strong. Increasing the distance between the drone and the GCS might fix the issue. If the problem persist, restart aircraft and GCS.
Stability sensor unresponsive - Poor ASSIST stability expected.	Multiple stability sensors are not responding. The stability of the aircraft in ASSIST might diminish drastically. If the issue persist after restarting the aircraft, the sensor must be changed. Contact Flyability support to help you.
Stability sensor unresponsive - ASSIST stability performance diminished.	One stability sensor is not responding. The stability of the aircraft in ASSIST might slightly diminish. If the issue persist after restarting the aircraft, the sensor must be changed. Contact Flyability support to help you.
Stability sensors damaged - Poor ASSIST stability expected.	Multiple stability sensors infrared light are not working. The stability of the aircraft in ASSIST in dark environment might diminish drastically. If the issue persist after restarting the aircraft, the sensor must be changed. Contact Flyability support to help you.
Stability sensors damaged - ASSIST stability performance diminished.	One stability sensor infrared light is not working. The stability of the aircraft in ASSIST in dark environment might slightly diminish. If the issue persist after restarting the aircraft, the sensor must be changed. Contact Flyability support to help you.
Sensor unbound - Binding procedure required	The stability sensors' mapping is compromised most likely due to firmware update or a replacement of sensor. Go to the maintenance panel to re-assign the mapping.

6 Troubleshooting

This is a reference for typical issues and their solutions.

A MESSAGE ABOUT ACTIVATION FAILED APPEARS

Make sure the Android device has access to the Internet for the activation procedure. This only needs to be done once.

ALL COMPONENTS ARE TURNED ON AND CONNECTED, BUT COCKPIT IS STILL SHOWING A BLACK SCREEN WITH THE CONNECTION BAR.

Check connection of every component, including the USB cable. The cause can be a bad contact on either end.

COCKPIT IS SHOWING VIDEO FROM AIRCRAFT, BUT THE CONNECTION PROGRESS BAR IS BLINKING INDEFINITELY

Turn off aircraft, RC and quit Cockpit. Then, turn all these components back on using the following order:

1. Turn aircraft on and wait for red & green LEDs to blink alternately in a slow rhythm.
2. Turn remote controller on and wait for the green LED on it
3. Start Cockpit

VIDEO QUALITY IS BAD

Make sure you have a right signal level from aircraft; check the signal meters on screen. Weak signal is a cause for low video quality.

If Android device storage is full or nearly full (less than 1GB remaining), applications have more difficulty to run correctly, and this can affect video quality.

VIDEO IS SLOW / MORE LATENCY IS OBSERVABLE

Screen recording software, applications running background processes (see notifications) and widgets like on-screen CPU meters may affect performance. Shut those down if not needed.

If Android device storage is full or nearly full (less than 1GB remaining), applications have more difficulty to run correctly, and this can affect video quality.

AIRCRAFT FIRMWARE UPGRADE IS SLOW

The upgrade process should complete in about 6 minutes. If it is much slower:

1. Make sure aircraft is close to the remote controller. A low signal can make the upgrade procedure longer.
2. Quit and restart Cockpit, then try again.

In general, we highly recommend restarting Cockpit after a failed upgrade attempt.

MY FLIGHT VIDEOS HAVE DISAPPEARED FROM THE RECORDINGS FOLDER

When there are 4 GB of recorded videos or more on the tablet, older recordings are automatically deleted. Make sure you save videos in a different place soon enough to keep them.

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