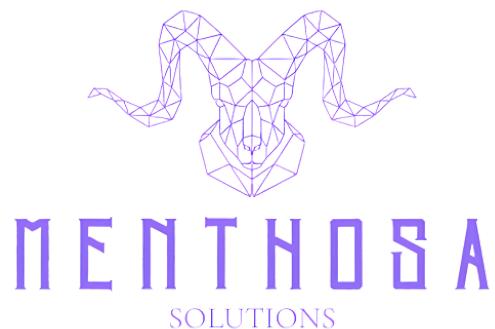
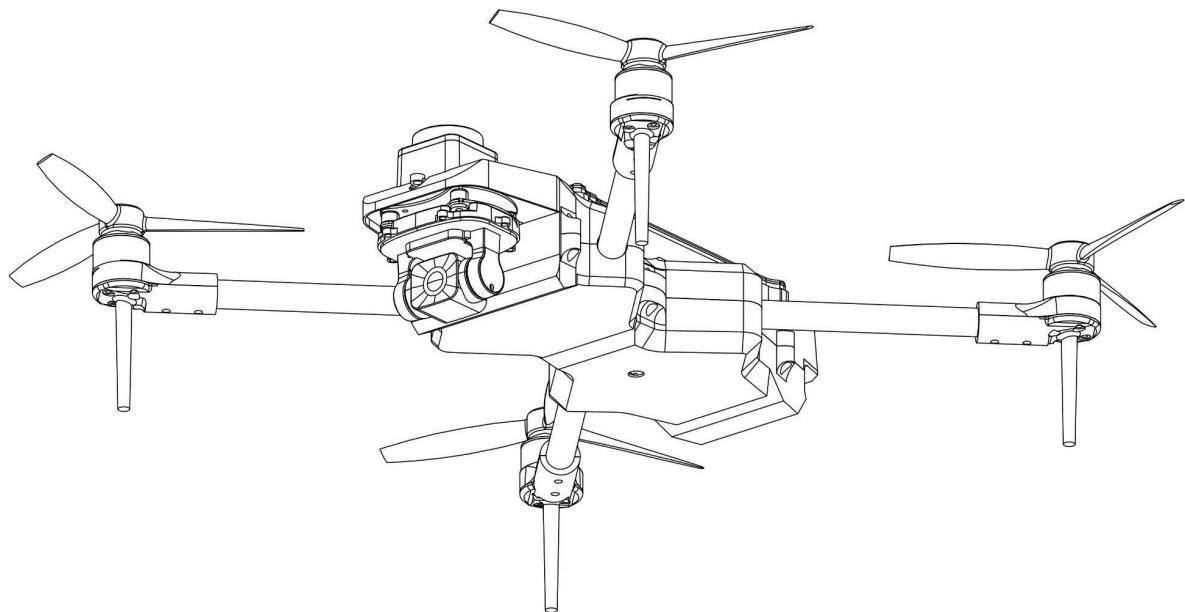


Suparna Training Manual

v1.0 *Feb 15, 2025*



 **Searching for Keywords**

Search for keywords such as “battery”, “install”, “Flight” to find a topic. Press Ctrl+F on Windows or Command+F on Mac to begin a search.

 **Printing this Document**

This document supports high resolution printing.

 **Best View in Digital Form**

This document supports digital reading and indexing. Best readable in any browser supports PDF Reading or Adobe reader.

 **Contains Clickable Link**

This document contains clickable links for external references.

Revision Notes

v1.0	15-02-2025	Initial Version
------	------------	-----------------

Using this Manual

Legend



Warning



Important



Hints and Tips



Reference

Read Before the First Flight

Read the following documents before using the **Suparna 5G Drone**:

1. User Manual
2. Flight Manual
3. C2 manual
4. Charging Manual
5. Indoor Flight Consideration Manual
6. Charging Manual

Additional Manuals :

1. Landing Gear Replacement Guide
2. Payload Flight Consideration

! It is recommended to watch all tutorial videos on the official Menthosa website and read the disclaimer and safety guidelines before using for the first time. Prepare for your first flight by reviewing this training document and refer to other manuals for more information.

! The operating temperature of this product is 0° to 40° C. It does not meet the standard operating temperature for military grade application (-55° to 125° C), which is required to endure greater environmental variability. Operate the product appropriately and only for applications that meet the operating temperature range requirements of that grade.

Content

Know Your Aircraft	6
Technical Information	6
Technical Sensor Placements	6
Joystick Control Mapping	6
Software	8
iDronam Installation	8
Flights	10
Indoor Flights	10
Outdoor Flight	16
Contact Us	21
Contact	21

Know Your Aircraft

Quadcopter's components, flight dynamics, limitations, and safety protocols for optimal performance and control.

Know Your Aircraft

Technical Information

To Know about the technical information please Refer : [User Manual](#) : Aircraft Section For Technical Specifications.

Technical Sensor Placements

To Know about the technical sensors placements please Refer : [User Manual](#) : Aircraft Diagram.

Joystick Control Mapping

To Know about the Joystick Mapping please Refer : [User Manual](#) : Joystick Section for Joystick Button Mapping.

Software Installation

Software Installation and Necessary Setup.

Software

iDronam Installation

To Know about the Software installation please Refer : [Flight Manual](#) Software Installation For Detailed Steps.

Flight

Environment Setup for Indoor and Outdoor Flights.

Flights

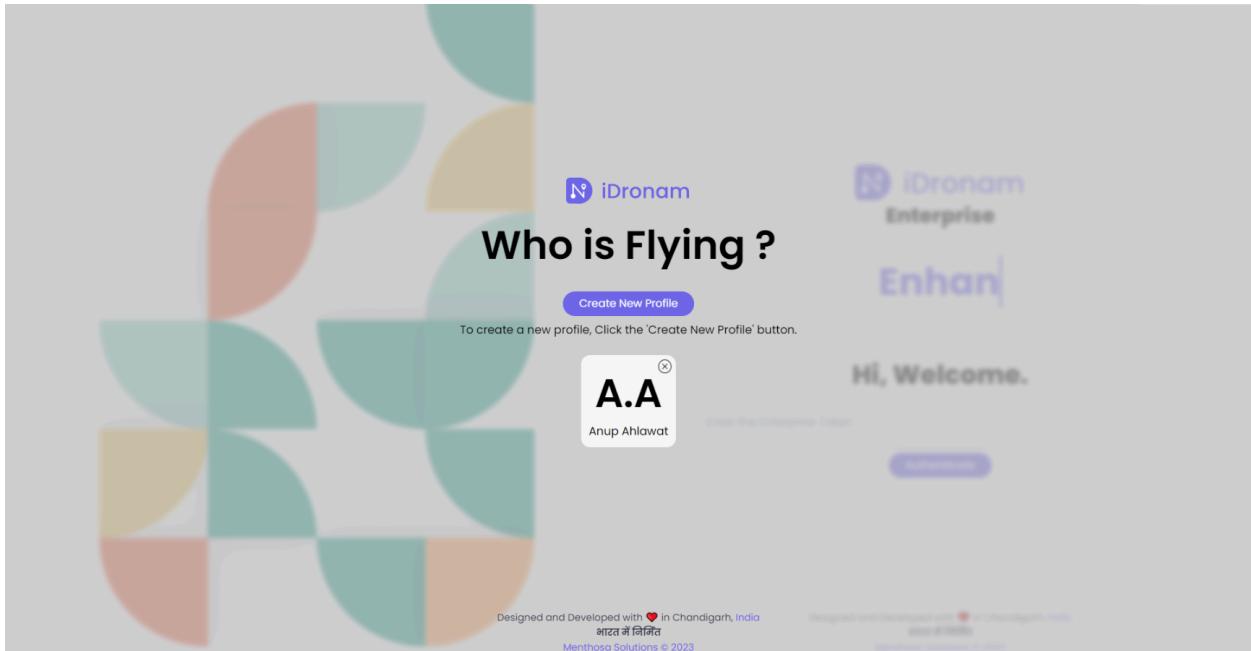
Indoor Flights

Indoor flight requires some parameters to set up before flight.
Follow the steps below before taking the flight to ensure safe indoor flight.

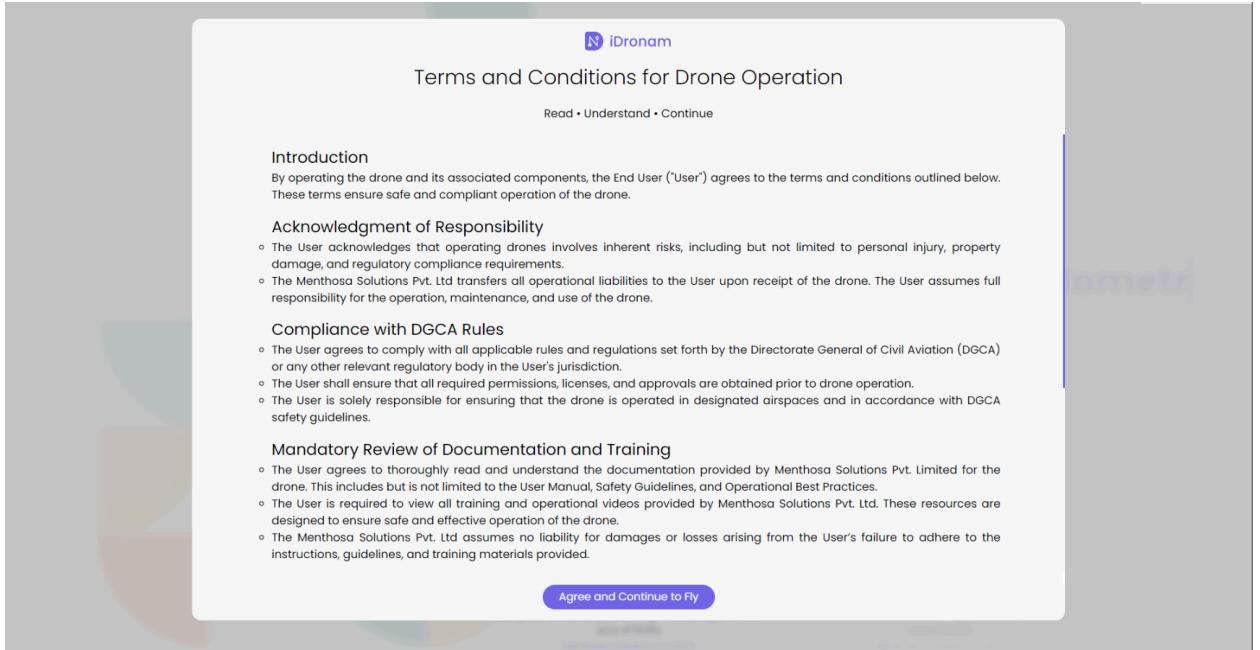
- Please read "[Indoor Flight Consideration](#)" documents before proceeding further.

- Please perform preflight check before every flight as mentioned in [Flight Manual : Pre Flight Checks](#)

- Select Profile

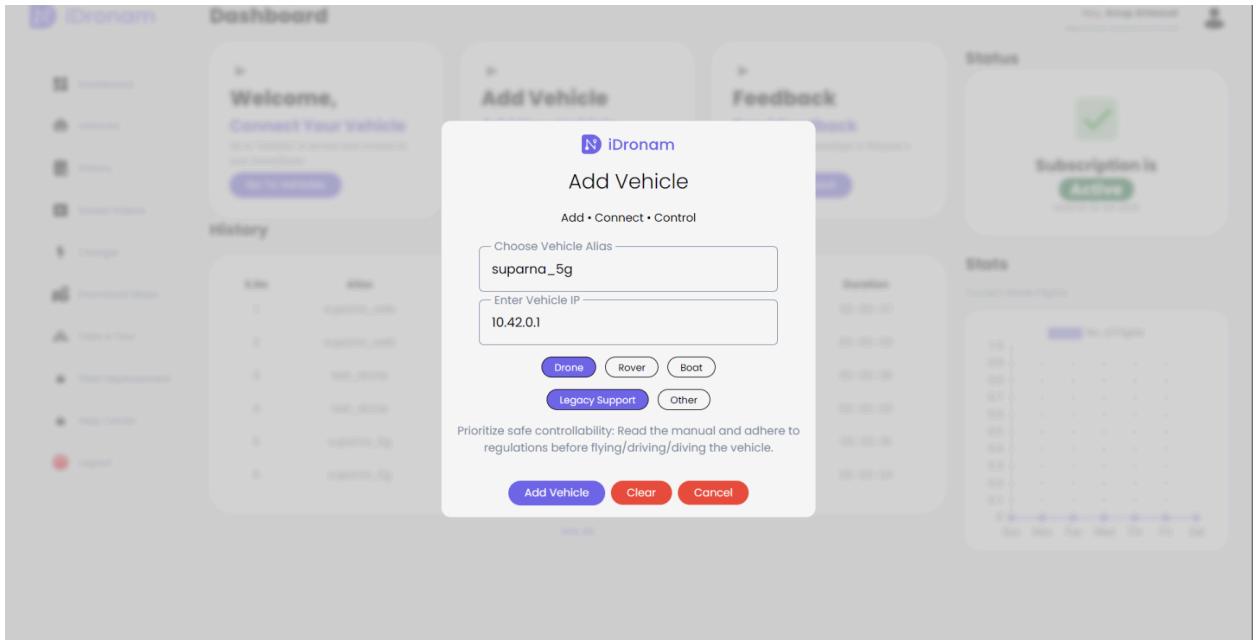


- Accept Agreement

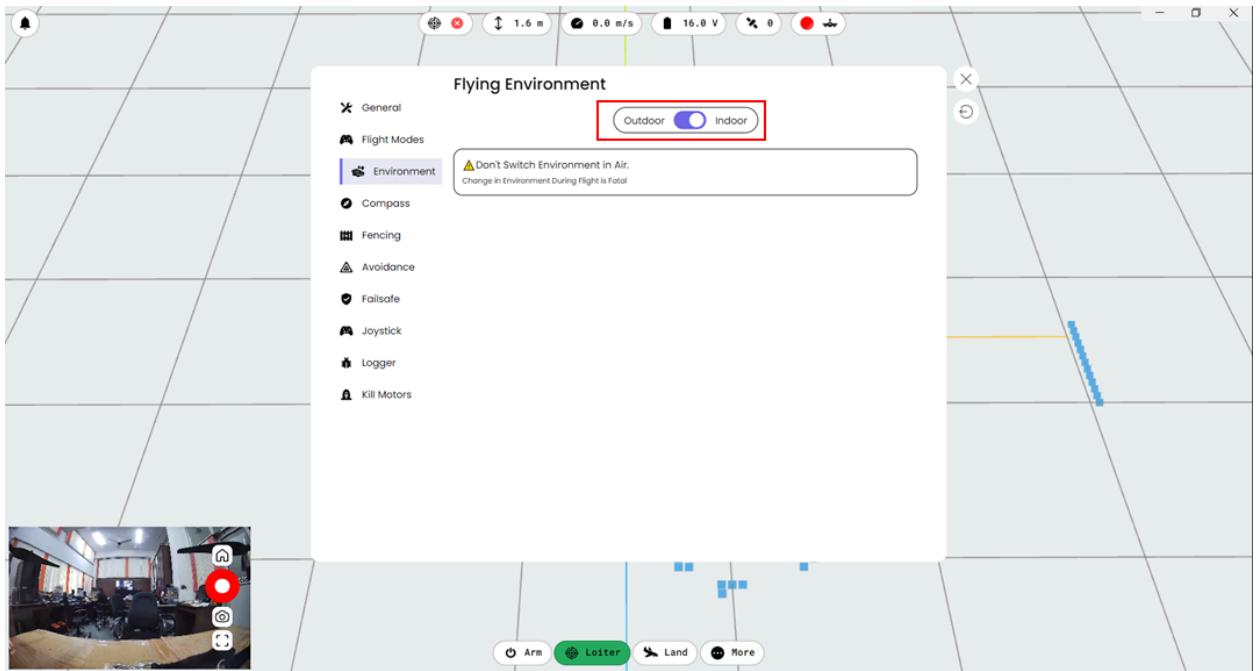


- Add Drone (Over WiFi Or 5G) and connect to it.

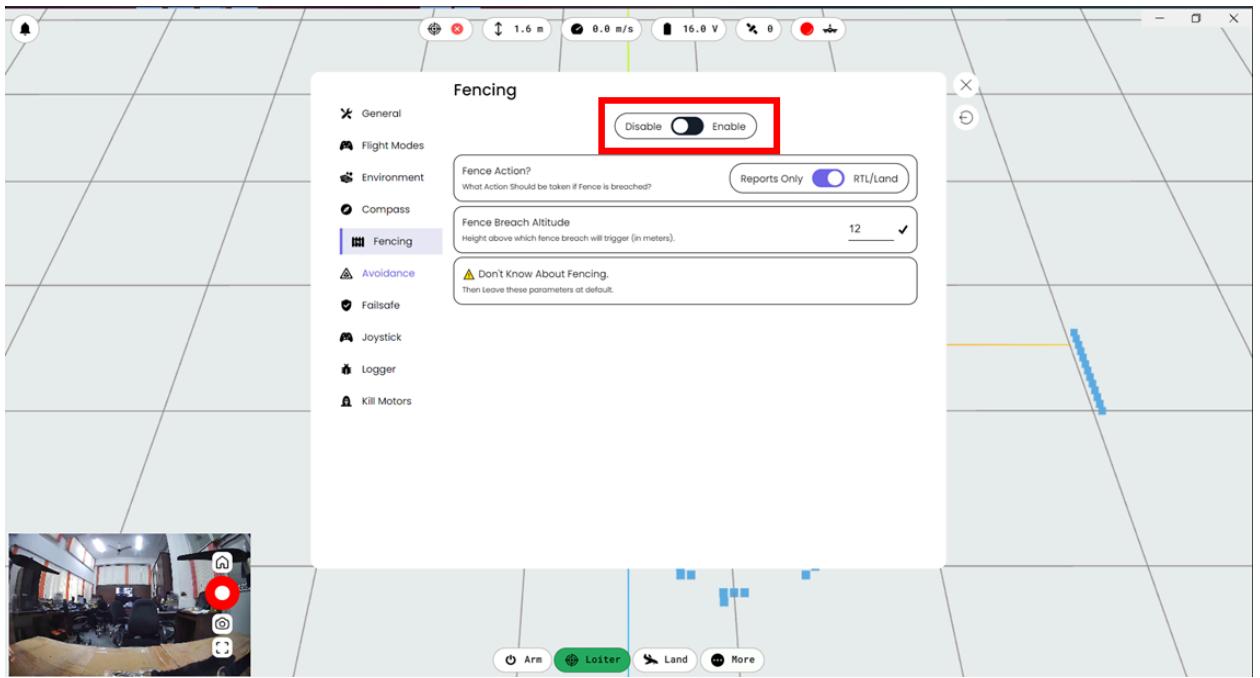
! Drone must be powered ON and GCS needs to be connected to the same interface.



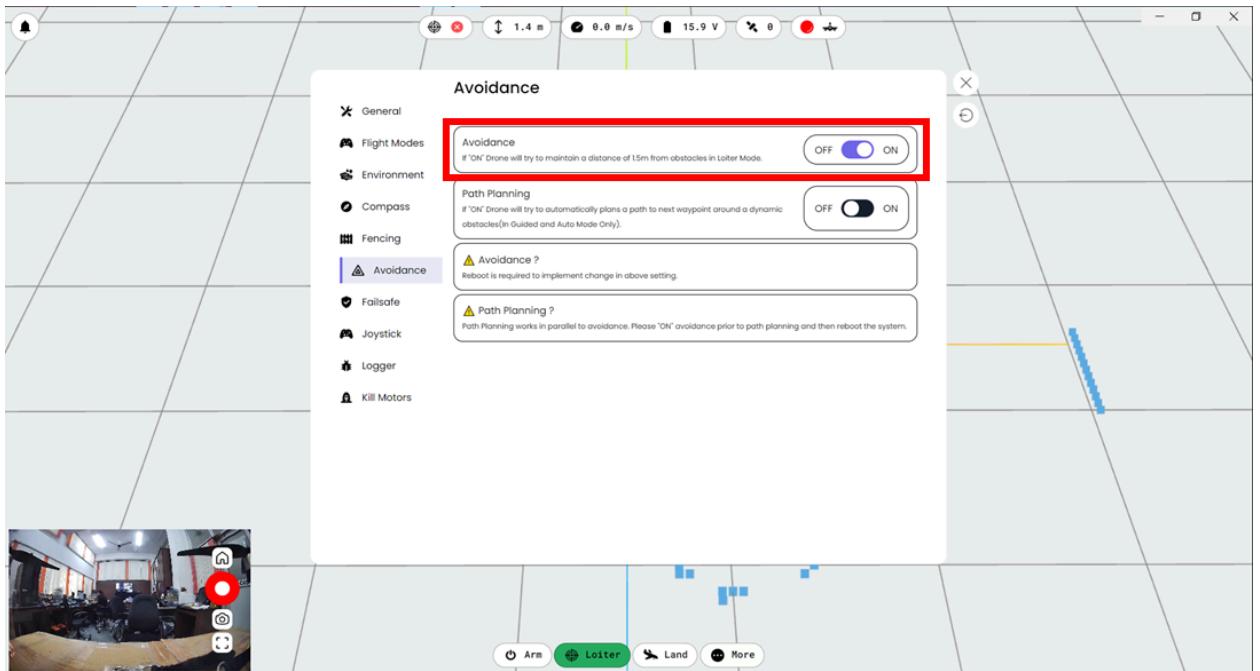
- Click More Options and Set Environment to “Indoor”.



- Disable “Geo Fencing”

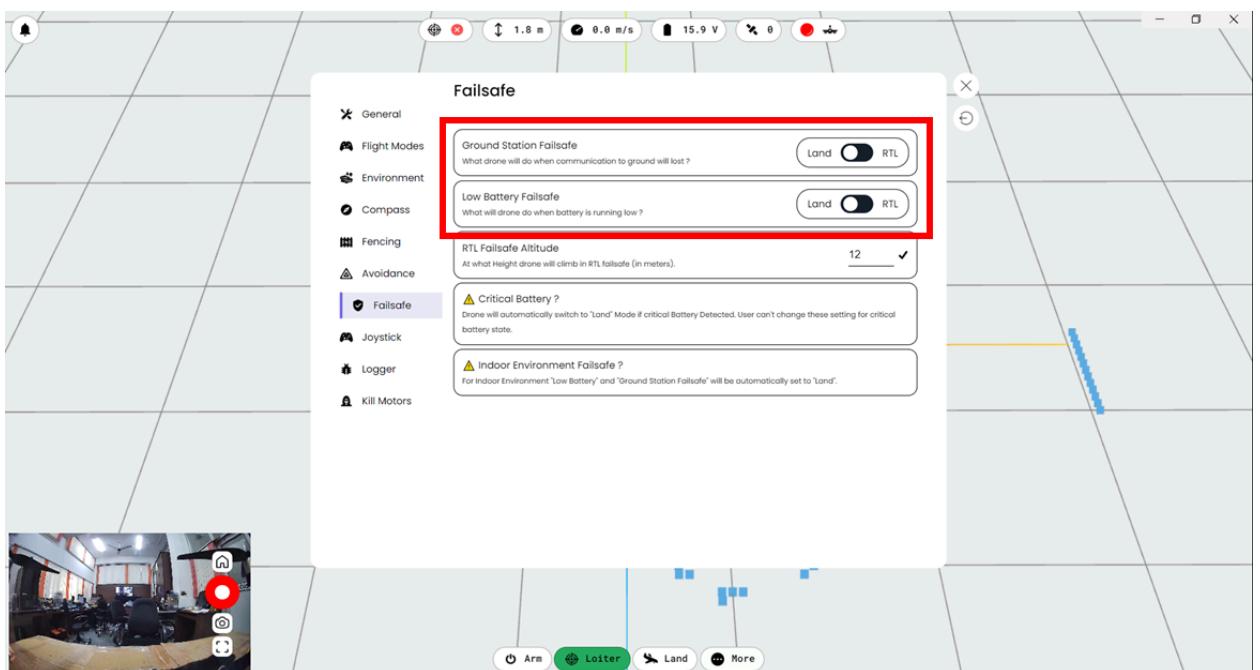


- Enable “Avoidance”

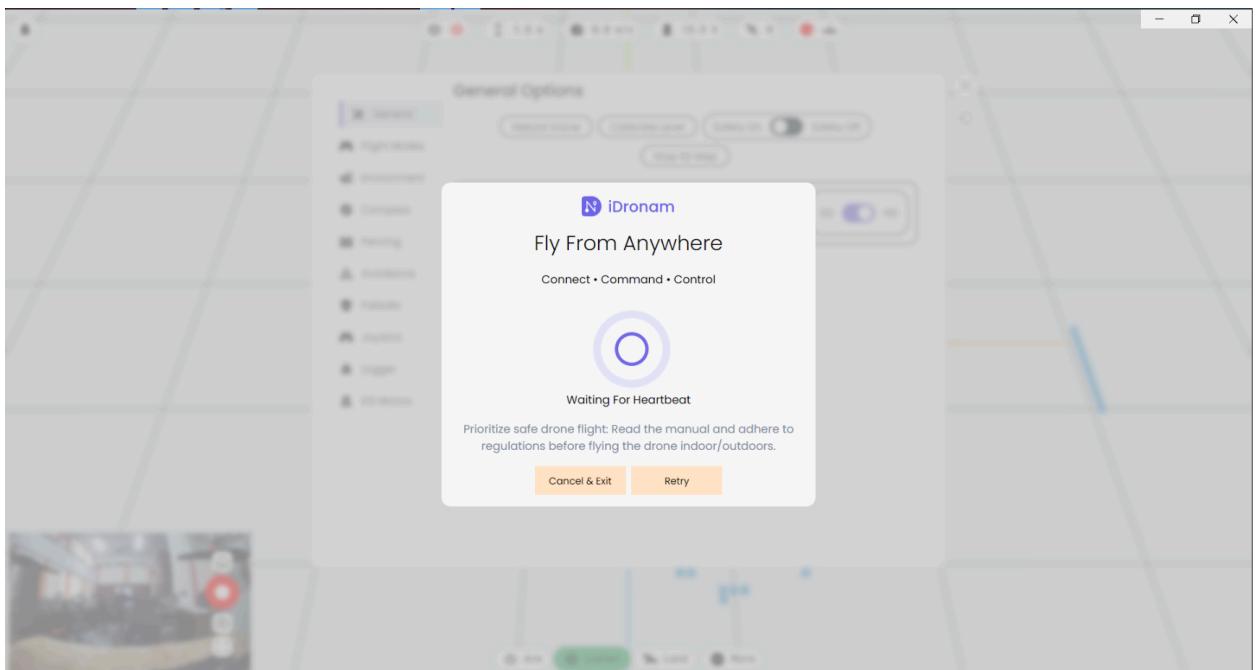
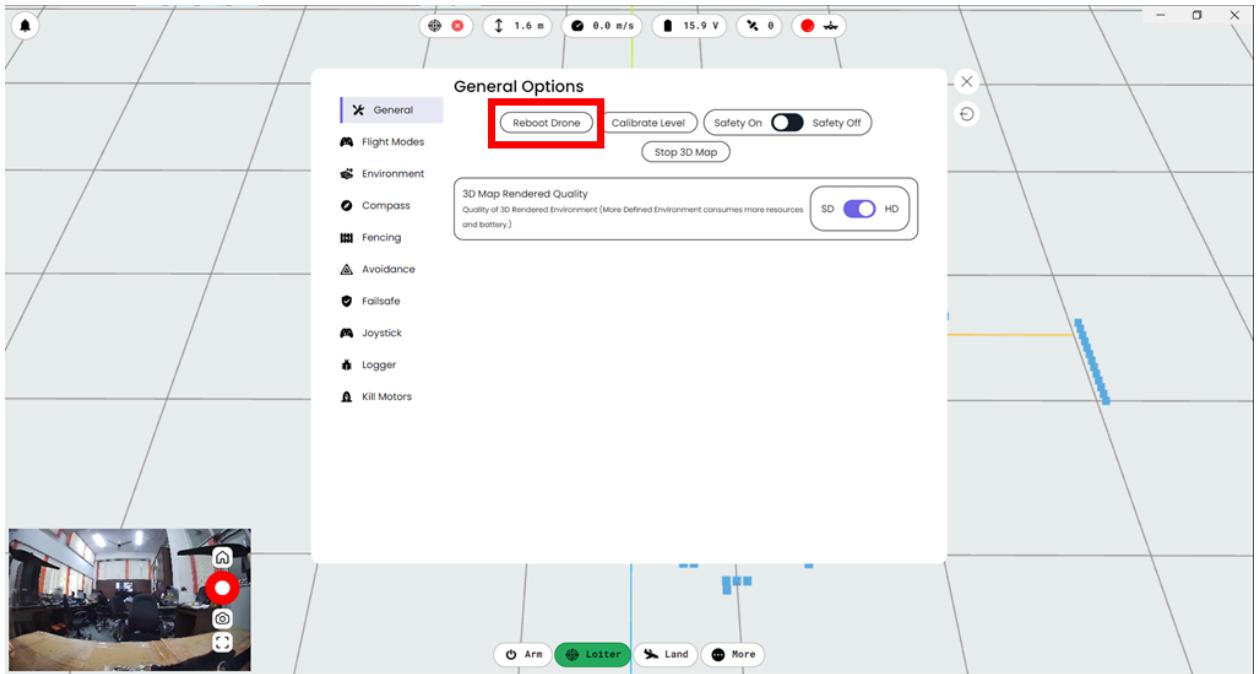


- Configure Failsafe

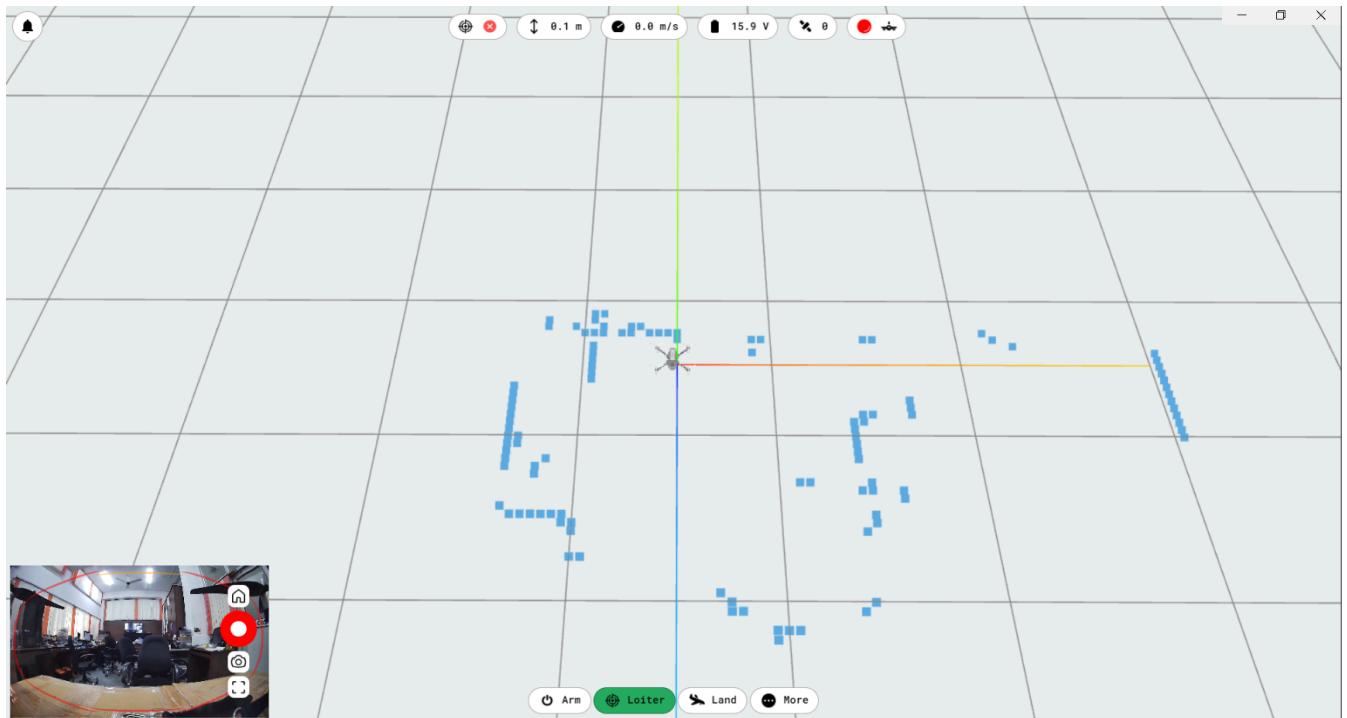
! For Indoor Configure it to "Land"



- Reboot The Drone and Retry



- Verify Map and Obstacle



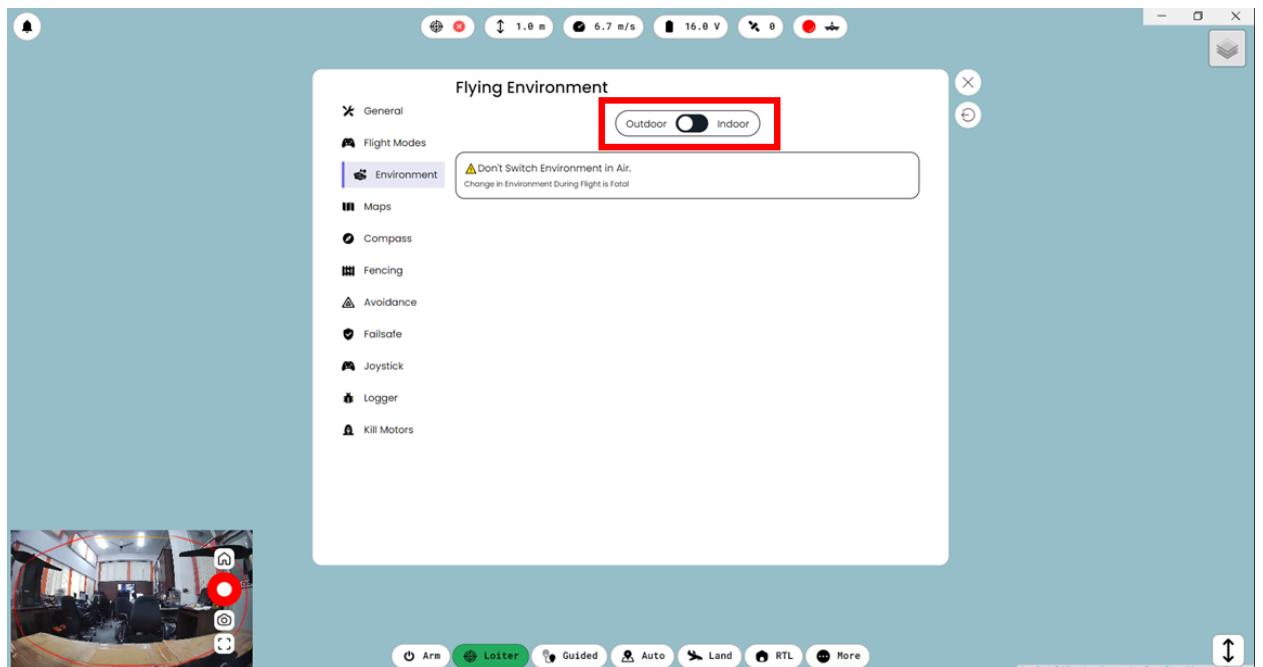
Verify Obstacle by lines : "Red" means obstacle very close.

Outdoor Flight

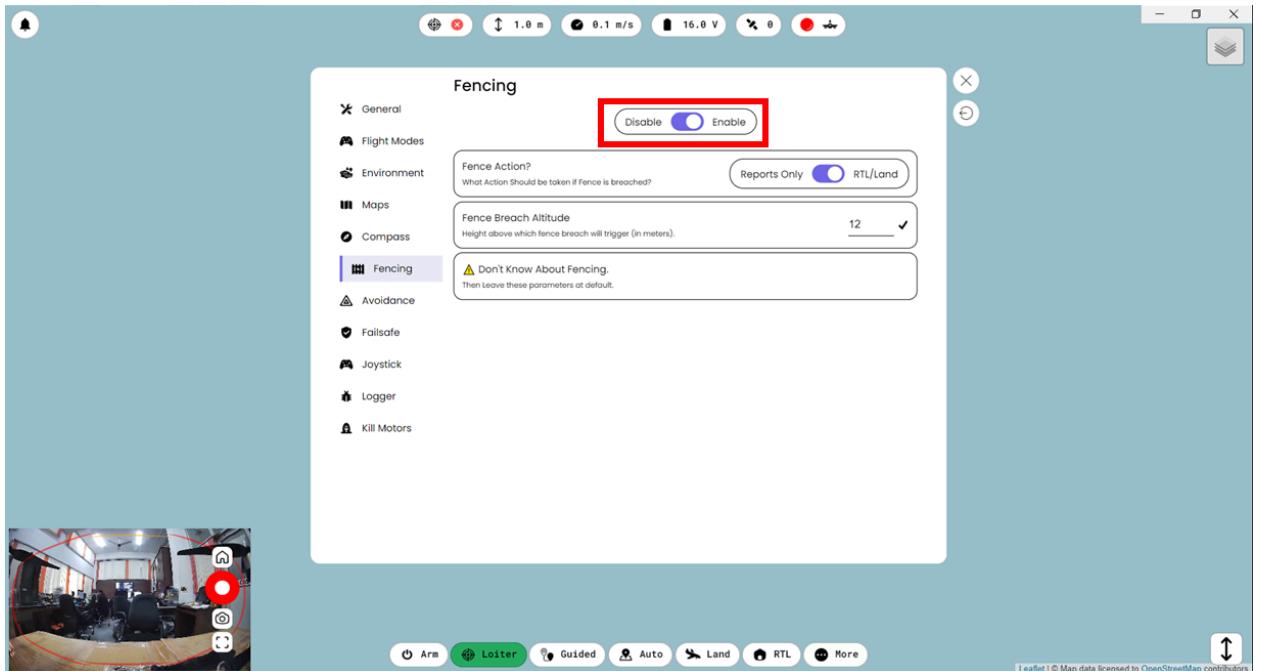
Outdoor flight requires some more parameters to set up before flight.
Follow the steps below before taking the flight to ensure safe outdoor flight.

- Please perform preflight check before every flight as mentioned in [Flight Manual : Pre Flight Checks](#)

- Switch to Outdoor Mode

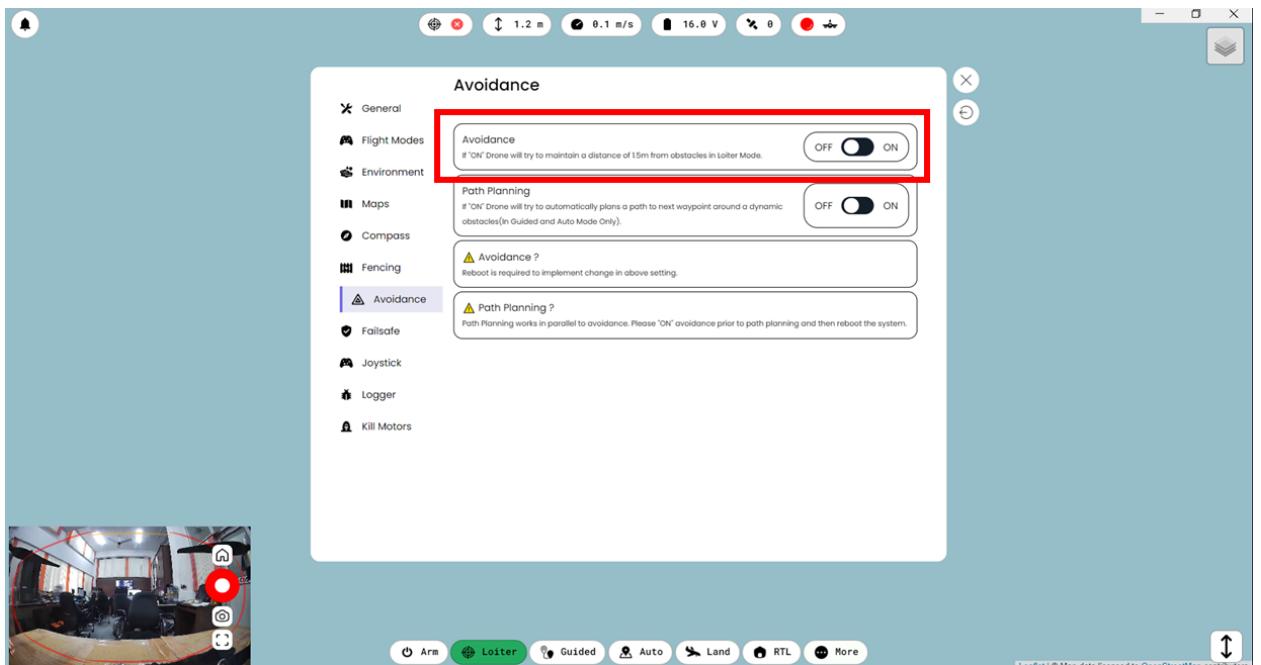


- Turn ON Geo Fencing

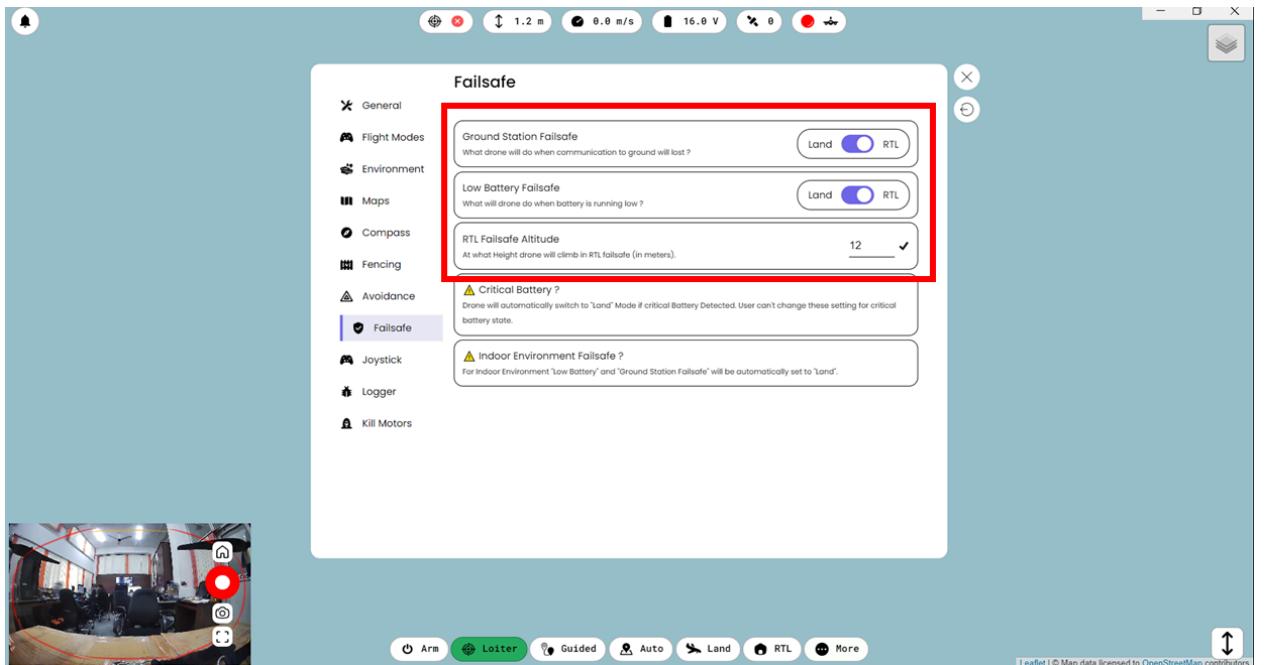


💡 Fence Breach Altitude is the altitude above which drone will not climb. “**Fence Breach Altitude**” is always higher than the “**RTH Altitude**”

- Turn OFF Obstacle Avoidance

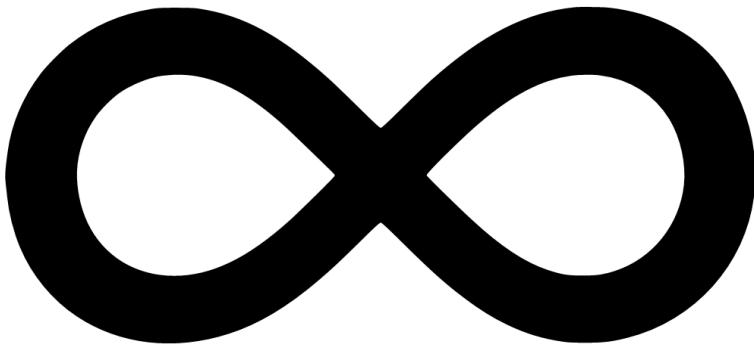


- Update Failsafes

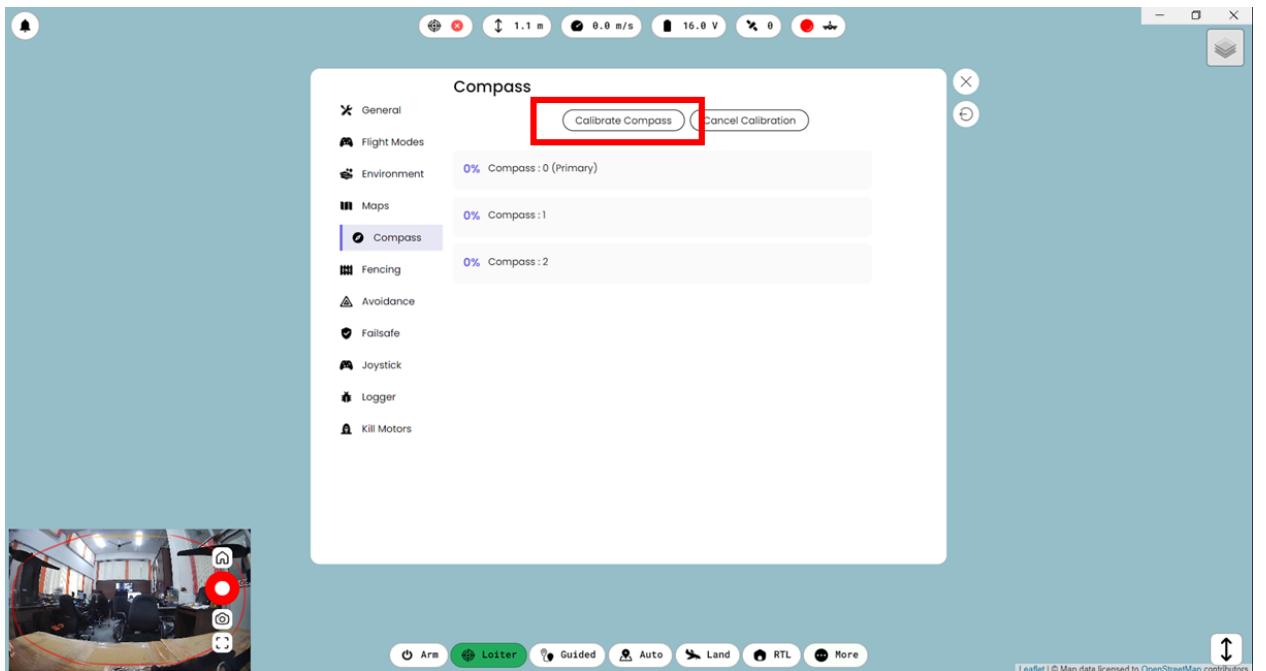


💡 RTL (Return to Launch) Mode:
RTL Altitude is the height the drone ascends to before returning to the launch site. It must be higher than any obstacles in the line of sight along the RTL path and lower than the Fence Breach Altitude.

- Calibrate Compass



💡 After pressing the “Calibrate Button”. Pick up the aircraft and move in the infinity shape and see calibration progress.



 Compass calibration must be performed before flight or when changing location, as it is affected by nearby magnetic interference. During calibration, the progress percentage increases. Upon successful completion, the drone reboots. If calibration fails, the percentage resets to 0, requiring users to retry.

Contact Us

Feel Free to ask us

Contact Us

Contact

Visit www.menthosa.com

For Software Updates and Downloads Visit <https://idronam.com/>

Sales Support : Mail us at sales@idronam.com

! This content is subject to change.

If you have any questions about this document, please contact Menthosa Solutions by sending a message to director@menthosa.com OR sales@idronam.com

----- END OF DOCUMENT -----