

4. FLIGHT PREPARATION

Difficulty Level: Moderate

Completion Period: 1 course hour

Objectives

This module aims to equip students with the necessary skills to expertly prepare for UAV flight operations through a combination of practical exercises and theoretical understanding. By the conclusion of the module, students will be capable of proficiently executing pre-flight procedures for drones. The objectives encompass comprehending essential pre-flight checks, including assessing environmental conditions, verifying control and power systems. Through hands-on experience and guided instruction, students will develop the knowledge and abilities required to ensure safe and successful UAV flights.

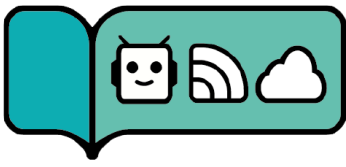
Achievements

The skills that our students will gain are:

- Understanding the significance of pre-flight preparation in ensuring safe and successful UAV operations.
- Identifying key environmental factors to assess before flight, such as wind conditions, weather, and obstacles.
- Collaborating effectively in pairs or small groups during pre-flight preparation exercises.
- Demonstrating responsible and diligent pre-flight preparation practices to guarantee safe and successful UAV flights.

Required material

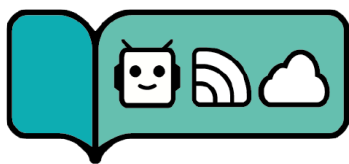
- Drone Mavic Pro
 - DJI Mavic Pro Remote Controller
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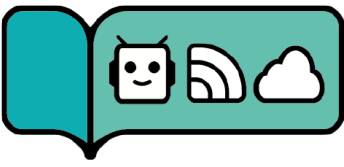


Implementation – Flight preparation

Remove the storage cover, unfold the arms one by one, and make sure that the propellers are installed properly

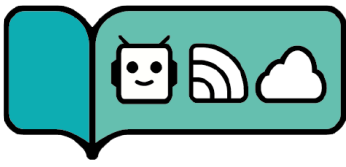






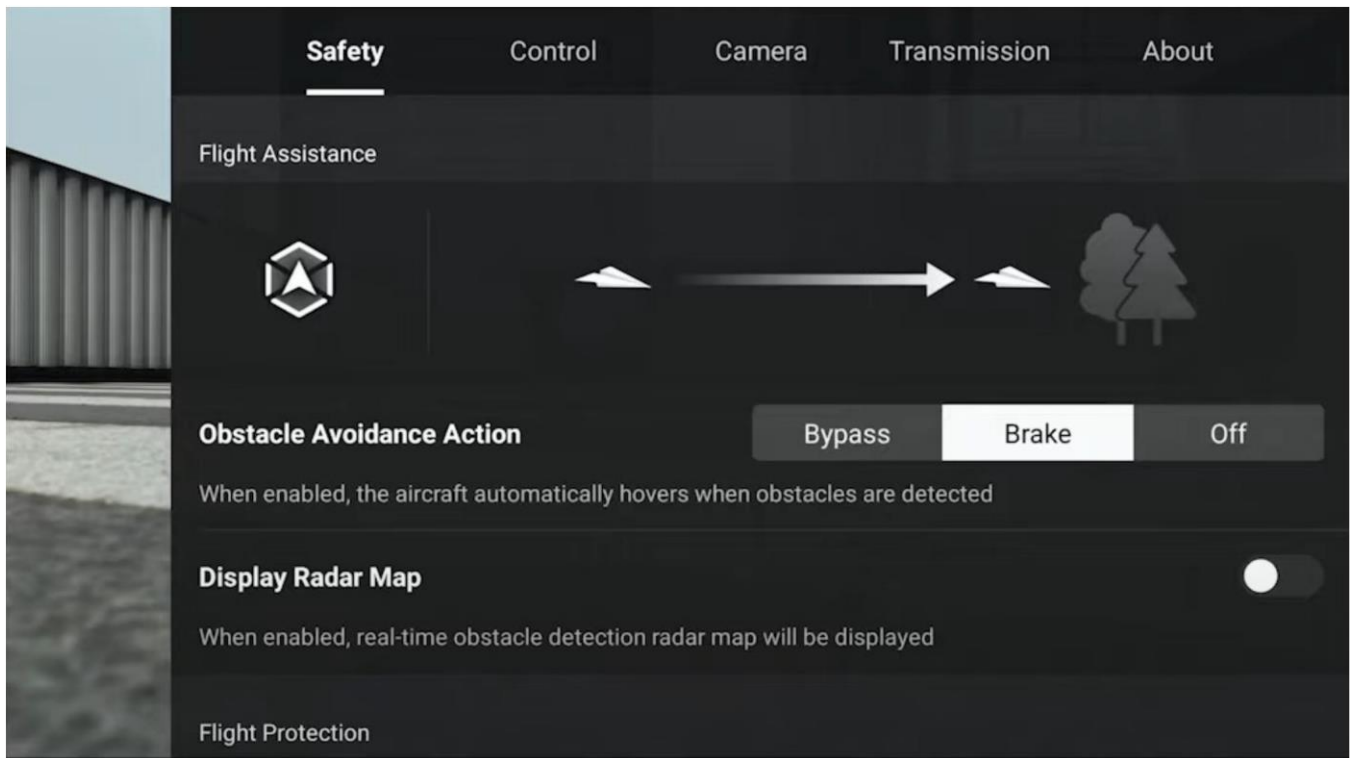
Place the aircraft on a fiat surface with the back facing you

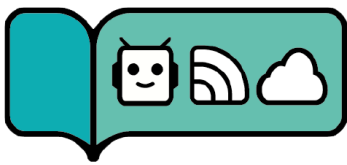




Open the DJI Fly App

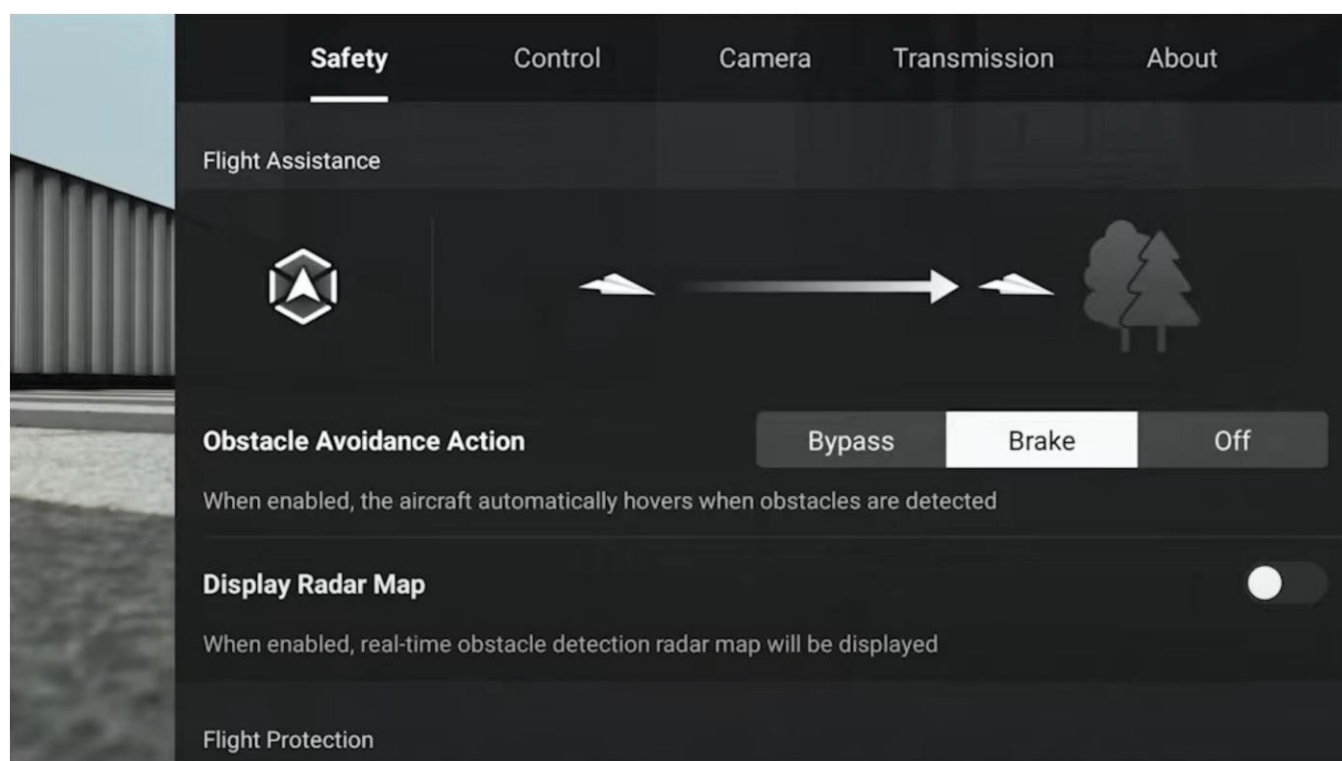
Open setting and go to / **Safety** / tab

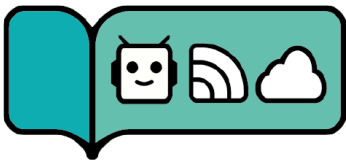




Adjust the Obstacle Avoidance

Action to / **Bypass** / or / **Brake** /





Adjust the/ **Auto RTH Altitude**/ to a height higher than the tallest objects nearby

