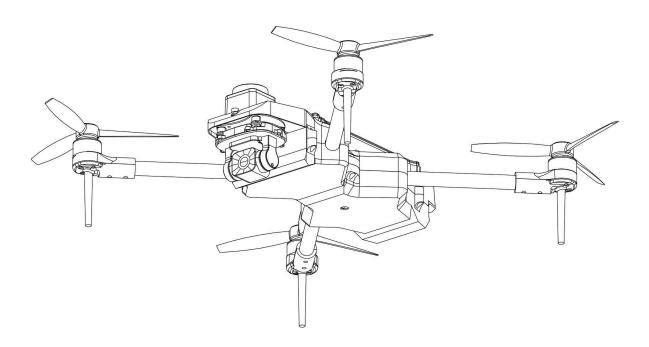
# **Suparna Payload Flight**

v1.0 Jan 30, 2025





Suparna Payload Flight



### **§** Searching for Keywords

Search for keywords such as "battery" and "install" 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.

Revision Notes		
v1.0	30-Jan-2025	Initial Version

## **Using this Manual**



### Read Before the First Flight

Read the following documents before using the **Suparna**:

- 1. Disclaimer and Safety Guidelines
- 2. Quick Start Guide
- 3. User Manual

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 the quick start guide and refer to this user manual 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.

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# Payload Flight

This section tells you about drone flight with payload.

# Payload Flight

### Payload Flight Requirements

The drone is capable of carrying a maximum of **500 grams solid payload**. There are 4 hooks provided onto which a platform can be mounted/ strings can be attached so that the force of the payload can be distributed equally thus maintaining a constant Centre of Gravity (COG) for a stable drone flight.

These hooks are not automated and the payload attachment/removal is a manual process.

No liquid payload (e.g. water bottles) should be attached to the drone. This will cause an unstable flight and may lead to drone crashes. No warranty will be provided if this is attempted.

The official 3D printed payload tray designed by Menthosa Solutions can also be used. If you require the tray or the STL file (if 3D printer is available to you) please refer to the contact us section of this document. The STL file will be provided free of cost.

To perform the payload flight, make sure to -

- 1. While performing pre-arm checks ensure the hooks are present and in good conditions.
- 2. Place the drone outdoors in an open environment with clear visibility of sky.
- 3. The drone is in **Outdoor** Environment Mode.
- 4. For optimal flight please ensure that the battery is fully charged to **16.75 Volts.**
- 5. Following the standard checks, arm the drone and take-off to an altitude of **~ 5 meters**, by giving full throttle at all times.

#### Suparna Payload Flight

- 6. Hover and observe the drone, if all looks stable continue with flight!.
- 7. Use **Land** mode to land the drone on a surface with enough clearance.

When doing the payload flight, the drone's flight time gets reduced according to the payload attached. So, do not expect a full 15 minutes of flight time.

• Drone is not meant to be flown in an **Indoor** Environment with payload attached. Do not attempt. No warranty will be provided if this is attempted.

! When flying with payload, drone's motors are spinning at **higher RPM** (Revolutions Per Minute) thus the drone will be **extra loud** and motors will be **hot** after the flight.

Do not touch the motors immediately after the flight!

- In the testing environment, with a ~ 700 grams payload (drone's payload capacity exceeded) the flight was recorded to be ~ 5 minutes.
- Do not try to replicate these results, as this may lead to a crash. No warranty will be provided if this is attempted.

# **Contact Us**

Feel Free to Contact Us

# **Contact Us**

#### Contact

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I This content is subject to change.

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

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