FLYING EYE

User Manual

Parachutes & Flight Termination System (FTS)

DJI Matrice 350 RTK

Made in France

Summary

FLYING EYE

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DJI Matrice 350 RTK

Description

Manual release parachute

DGAC S1-S2-S3 approval.
Homologation C5 (European regulations)
The price includes the FTS module for Matrice 350, as well as approval documents (certificate of conformity and design certificate).
The FTS module is external to the drone.

Quick assembly and disassembly

Content

Kit contents

Trigger remote control

FTS kit

Type design certificate

Type conformity certificate

Operating and maintenance manual

Parachutes x2

Requirements

- Compatibility: This kit is specially designed for the DJI Matrice 350 RTK.
- Make sure you use the right accessories for this model of drone.
- Carefully follow the installation instructions provided to correctly attach the parachute circuit-breaker to the drone.

Specifications

- Weight of complete system: 710g
- Impact energy: 106 Joules
- FTS transmission frequency: 869MHz
- Redundant power cut electronics
- Double trigger button on remote control
- Encrypted frames (256 bits) – checksum to authenticate the frame. Bidirectional association
- Logs on micro-sd card in remote control (user-readable, non-alterable text file containing date/hour/min/sec, reception quality, triggering requested by user, triggering received by receiver,remote control acknowledgement, drone battery voltage, voltage and current through the 2 circuit-breaker chips, and remote control battery voltage)
- 40-hour remote control autonomy (1800mAh lipo battery rechargeable via micro-USB)
- Auto power Off (after 30 minutes without connection)
- Battery voltage display on remote control
- Emergency power supply for parachute activation up to 1 minute after loss of drone power
- Firmware update via micro-USB
- Secure remote control switch-on and switch-off (like a DJI battery)
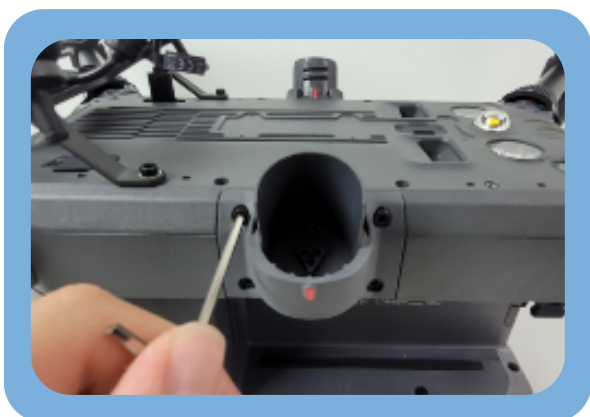- Up to 4 remotes can be paired per drone

1. **Parachute system installation**

Turn the drone over and place it on a soft surface to avoid damaging it.
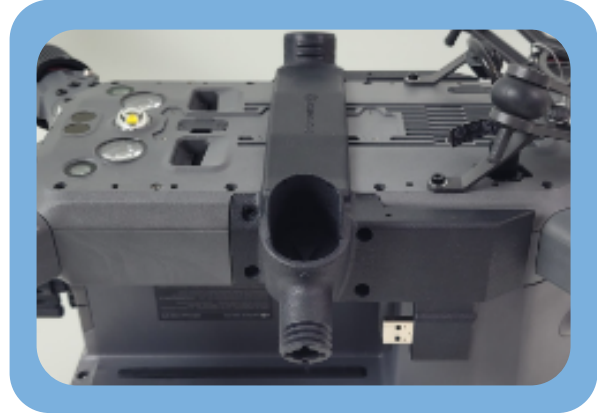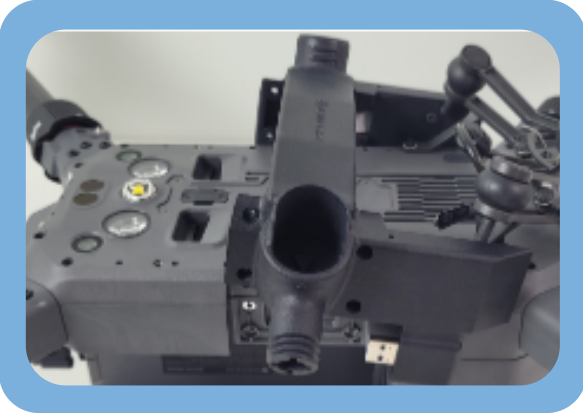

Unfold arms

Unscrew the 4 axle support screws using a wrench.

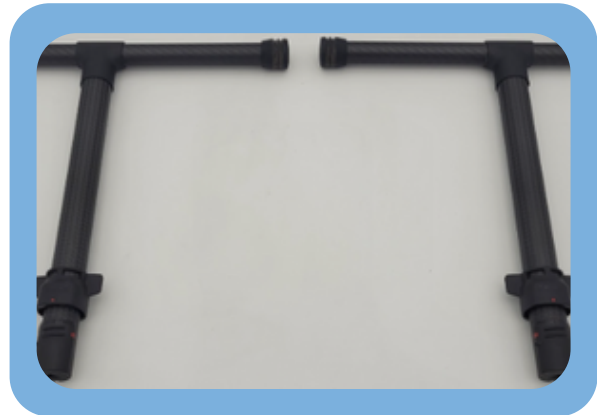Remove the landing gear support and do the same on the other side.

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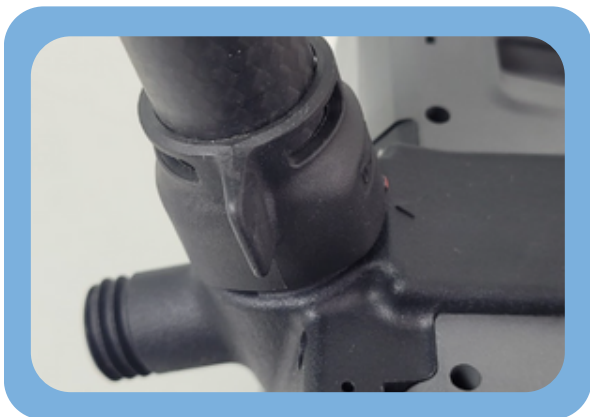Take the landing gear support and insert it

Screw on both sides

Take both landing gear

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Retract the landing gear into its support

Tighten the landing gear on both sides
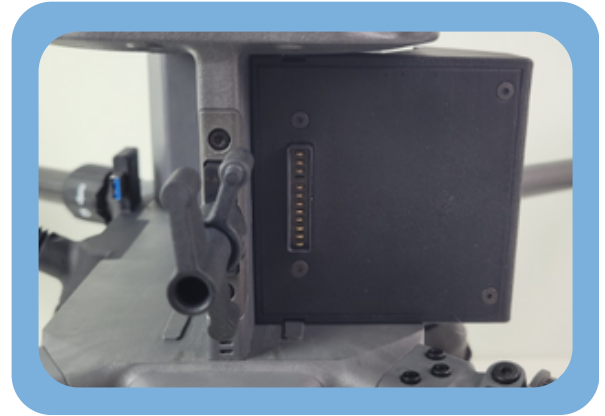
Turn the drone

Take the right module

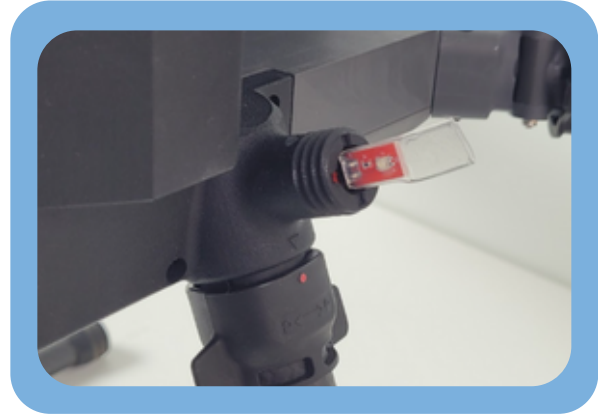Insert the module into the battery slot the right way round (there's a rail for sliding the module in).

Insert as much as possible and do the same on the left

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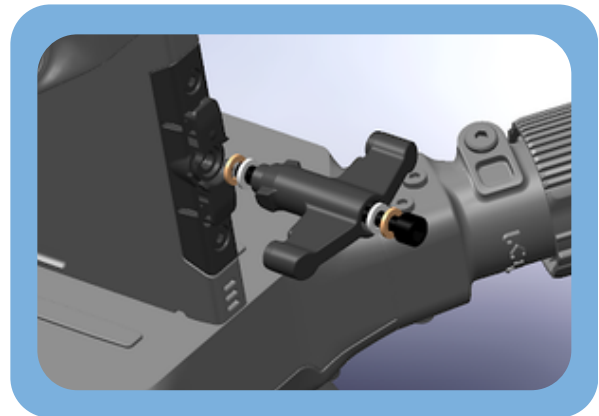

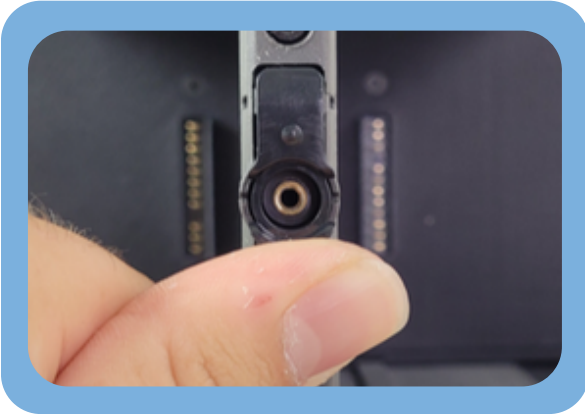Put the 2 Test LEDs in the load slots (for function testing).

Before inserting the batteries, unscrew the battery latch with a wrench.

Put the washers the right way round

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Replace the part with the springs in its slot by holding it.
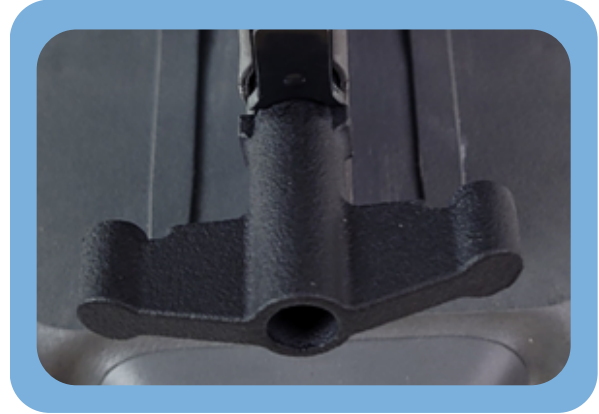
Screw on latch

Add batteries and close latch

Switching on the drone

Switching on the remote control

Switching on the parachute remote control

- A green tick appears on the remote control, indicating that the parachute system is activated.
- Activate the system by pressing the 2 red "FIRE" buttons
- The motors stop, the LEDs light up and the buzzer sounds. Then remove the drone's battery to stop the system.

Take the key

Locate the disarming
hole on the left module
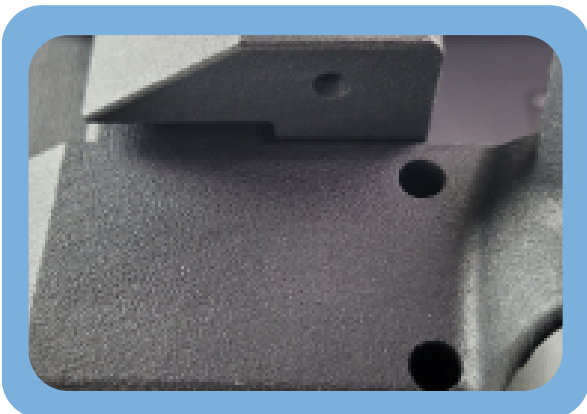
Insert the key into the hole

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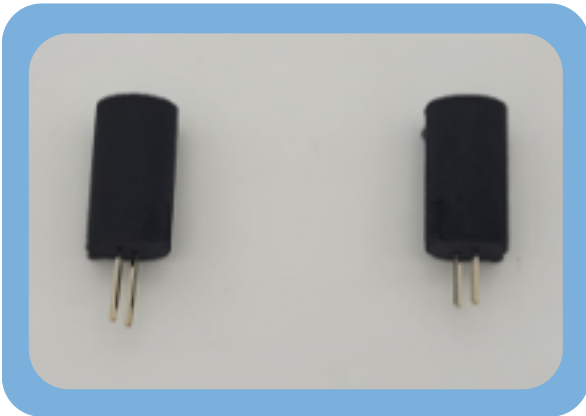
Take the loads and remove the Test LEDs previously installed

Insert loads instead

Then screw the 2 parachute pods to each side of the M350

The system is now correctly
installed

As soon as the drone is switched on, the radio control is switched on
and the parachute remote control is switched on

–> Remove the key
–> The green tick will appear on the parachute remote control
–> The parachute system is activated

Getting started

To switch on the circuit-breaker remote control,
short press then press and hold the power button.

Remote control charge level

Battery level is displayed directly on the remote
control screen

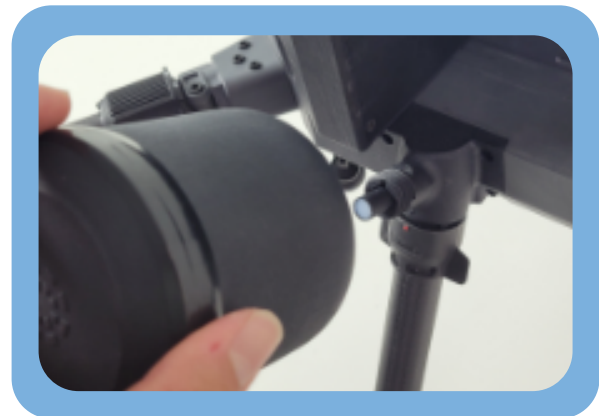### Trigger

The parachute is released by pressing the 2 "FIRE" buttons
simultaneously.

✔	SYSTEM READY
	LOSS OF LINK WITH THE DRONE
	TRIGGERING THE SYSTEM
	PYRO CHARGE MISSING

REMOTE CONTROL
SCREEN INTERFACE

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Pre-flight check :

Before each flight, make sure the FTS is correctly powered. Check the dedicated battery or the connection to the drone's main power supply.

Maintenance and care :

Cleaning: After each use, use a soft, dry cloth. Avoid solvents or chemicals that could damage materials.

Storage: Store the parachute and FTS in a dry place away from direct sunlight when the drone is not in use.

Purpose of Flying Eye maintenance:

Mandatory annual parachute canopy inspection

Annual load replacement

Parachute inspection :
- Parachute fabric
- Cables and lines
- Correct packing

Precautions

Flying Eye may suspend the warranty of any person who fails to comply with the basic safety instructions set out below.

Flying Eye declines all responsibility for damage or injury caused directly or indirectly by the use of pyrotechnic loads or by the use of pyrotechnic loads that do not comply with safety requirements and standards.

- It is forbidden to carry out any manipulations other than those specified in the manual.
- The device may only be used by (or under the supervision of) a responsible adult. Always keep the device out of the reach of children.
- Do not place the device in a damp or wet environment, and keep it away from UV light.
- Do not expose the system to high or low temperatures, strong vibrations, shock, chemicals, acids, or long-term storage in a humid or dusty environment. Improper use may cause the pyrotechnic cartridges to explode, endangering you. The maximum operating temperature is 40°C and the minimum operating temperature is -15°C.

Precautions

Check that the parachute system is in good condition before each use. Do not use the device if it is damaged or malfunctioning. If necessary, contact your dealer.

The parachute cannot prevent the drone from malfunctioning.

Any flight with a drone implies the existence of a risk for equipment and people in the vicinity, with or without a parachute.

The use of a parachute should not increase your risk.

The parachute must be activated manually by the user. Regular training is essential if you have to react correctly in an emergency. To ensure the safety of your equipment and of third parties, you should regularly perform dummy ground drills using the Test LEDs.

The ejection system works only once. It must be returned to your dealer for recharging.

Technical support

If you encounter any difficulties during installation, or if you have any further questions about using the Flight Termination System, please contact Flying Eye technical support.

Warranty

The FTS for DJI Matrice 350 RTK is covered by a 12-month warranty according to the conditions of purchase. The warranty covers manufacturing defects, but does not apply to damage caused by incorrect installation, accident or improper use.

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