



MADE IN FRANCE 



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USER'S MANUAL & INSTRUCTIONS

MOC2511 INTERNAL FTS FOR **dji** MAVIC 3 

FTS-MOC ZEPHYR MAVIC 3

SUMMARY

Internal FTS MOC2511 for DJI Mavic 3

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INTRODUCTION

by our CEO

"At Dronavia, we've been developing a wide, innovative range of accessories to secure your professional drones since 2015. Based in France, we think up all our products in our design office, before bringing them to life in our workshop, with unique technological know-how.

The result of more than 8 years of research and innovation, our new range of Zephyr FTS has been developed and tested to EASA standards to comply with MOC2511.

Thanks to its standardised safety accessories, Dronavia ensures that remote pilots have the best risk management and safety measures at their disposal during their flying missions. You'll be flying your DJI Mavic 3 in complete safety.

Thank you for your confidence & enjoy your flight!



Ludovic Pelletey, Dronavia's CEO.



GENERAL presentation

Dear customer,

Congratulations on your purchase of the new MOC2511 Zephyr internal FTS for your DJI Mavic 3 drone.

You've chosen the device that we're confident is the best performing system of its kind. Extensive research and testing have gone into making it as safe and effective as possible.

Based in Remiremont, France, DRONAVIA is at your service to advise you on the purchase of your MOC2511 Zephyr internal FTS for Mavic 3 and to answer any questions of a technical or commercial nature.

GENERAL presentation

The MOC2511 Zephyr internal FTS system for Mavic 3 has been developed to meet the requirements of MOC 2511 published by EASA:

"A Flight Termination System (FTS) is a system which, when activated, terminates the flight. By its very nature, it is an emergency measure and not a precautionary one. Its purpose is to ensure that an out-of-control UAS does not enter adjacent areas with an indefinite trajectory but, on the contrary and preferably, that it stops, and that its crash/debris zones are kept strictly within the ground risk buffer zone."



The aim of these requirements is to enable the remote pilot to intervene in the event of the drone escaping due to a failure of the flight controller or its sensors. In such situations, autonomous FTS systems can make the difference between a simple scare and a more serious accident. The MOC2511 Zephyr internal FTS for Mavic 3 can be activated in less than a second.

GENERAL

presentation

TO BE READ CAREFULLY

These emergency devices do not protect the integrity of the equipment or prevent damage to property or persons; they are a safety feature that complements other safety features. DRONAVIA and its distributors may not be held responsible for any malfunction or operation deemed insufficient or even ineffective.

Any use on a drone other than a DJI Mavic 3 is prohibited. The configuration of the FTS system must not be modified so as not to affect its correct operation.

Triggering a drone FTS module is not a harmless, risk-free operation. It should only be carried out in an emergency situation.

WARNINGS

& precautions for use

TO BE READ CAREFULLY

Dronavia may suspend the warranty and disclaim all liability to any person who fails to observe the basic safety instructions set out below.

Before handling the MOC2511 Zephyr internal FTS system for Mavic 3, you must read this manual carefully. It provides information on how to use the fuse. In addition to the important notes and information given in this manual, the owner of the device must observe all the important instructions given below.

WARNINGS

& precautions for use

TO BE READ CAREFULLY

The MOC2511 Zephyr internal FTS for Mavic 3 is a safety device which, under certain conditions, prevents the drone fitted with it from leaving its regulatory flight envelope by cutting its engines.

Activation of the FTS inevitably results in the drone crashing.

This equipment does not prevent technical problems occurring on the drone. Any flight with a drone implies the existence of a danger for the equipment and people in the vicinity, regardless of the safety equipment used. The use of the MOC 2511 Zephyr internal FTS for Mavic 3 should in no way increase your risk.



INSTRUCTIONS

to follow

- 1 It is forbidden to carry out any manipulations other than those specified in the manual.
- 2 The device should only be used by or under the supervision of a responsible adult. Always keep the device out of the reach of children. Do not let them play with it.
- 3 Under no circumstances should you dismantle the various parts of the device.
- 4 Do not place the device in a damp or wet environment and keep it out of direct sunlight.
- 5 Do not expose the system to high temperatures, strong shocks, shock hazards, contact with chemicals or acids, or long-term storage in a high-humidity or dusty environment. The maximum operating temperature is 40°C and the minimum operating temperature is -15°C.
- 6 The condition of the MOC2511 Zephyr internal FTS for Mavic 3 should be checked before each use. Do not use the device if it is damaged or malfunctions. If necessary, contact your dealer.
- 7 The MOC2511 Zephyr internal FTS for Mavic 3 cannot prevent the drone from malfunctioning.
- 8 Any flight with a drone implies the existence of a risk for equipment and people in the vicinity, with or without a MOC2511 Zephyr internal FTS for Mavic 3.

TO BE READ CAREFULLY



INSTRUCTIONS

to follow

9

The use of a MOC2511 Zephyr internal FTS for Mavic 3 should in no way increase your risk.

10

The MOC2511 Zephyr internal FTS for Mavic 3 must be actively triggered by the user. Regular training is necessary to be able to react correctly in an emergency. For the safety of the equipment and third parties, carry out a dummy ground exercise once a day.

11

After switching on the system, if the LED changes to a steady red, the system will not be operational. Contact your reseller for assistance.

TO BE READ CAREFULLY

MOC 2511
COMPLIANCE 



ZEPHYR SYSTEMS

MOC2511 INTERNAL FTS FOR **dji** MAVIC 3 

COMPONENTS

presentation

FTS module
integrated into the
DJI Mavic 3 drone



Klick trigger
remote control

ADDITIONAL ACCESSORIES SUPPLIED



Micro-USB cable

ZEPHYR MVC3

Technical specifications

| | |
|-------------------------------------|---|
| WEIGHT | 3 GRAMS |
| WIRELESS RADIO COMMUNICATION | SRD860 WITH ENCRYPTED KEY (869 MHz / 100 MW) |
| RANGE OF THE TRIGGER REMOTE CONTROL | 1500 METERS |
| AUTONOMY TRIGGER REMOTE CONTROL | 30 HOURS |
| OPERATING TEMPERATURE | -25°C À 40°C |

ZEPHYR MVC3

Minimum size of buffer zone for ground-related risks (in metres)

| OPERATING VOLUME LIMIT | | SOIL-RELATED RISK BUFFER ZONE |
|------------------------|-----|-------------------------------|
| | 30 | 136 |
| | 40 | 144 |
| | 50 | 152 |
| | 60 | 158 |
| | 70 | 164 |
| | 80 | 169 |
| | 90 | 174 |
| | 100 | 179 |
| | 110 | 184 |
| | 120 | 188 |
| | 130 | 193 |
| | 140 | 197 |
| | 150 | 201 |

Custom ground risk buffer can be calculated with different UAS parameters and assumptions. Please refer to the dedicated document ground risk buffer, if you need to calculate more precise ground risk buffers in accordance with your application.

ACTIVATION

of the FTS system

To activate the FTS, follow the instructions below in order:

Instructions

- 1 Switch on your DJI Mavic 3 drone. The FTS will switch on automatically.



- 2 Switch on your Klick remote control. When the FTS system is properly connected, a green LED flashes on the remote control and on the FTS module.



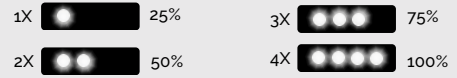
ACTIVATION

of the FTS system

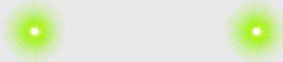
The different LED states



System initialisation



Battery level indicator



FTS only connected



**YOUR FTS IS ACTIVE
AND OPERATIONAL!**

KLICK

manual tripping of the FTS

Consult our Klick user manual



PROCEDURE

FTS system test

Before the flight or before the first flight of the day, you can test the FTS system. Follow the instructions below in order:

Instructions

1

Check that the LED on your FTS and remote release is flashing green. If your drone is fitted with a parachute, check again that it is switched off.



PROCEDURE

FTS system test

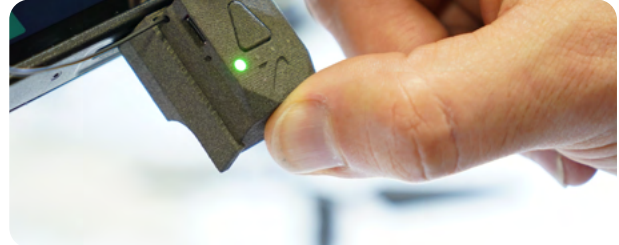
2

Arm the motors and initiate rotation while keeping the drone on the ground.



3

Stop the rotation of the motors by pressing the Klick triggering button on the Klick remote trigger control. Check that the motors stop correctly and that the green light on the Klick remote control and on the FTS flashes rapidly.



STOP

& resetting FTS system

To stop, switch off and reset the FTS, follow the instructions below in order:

Instructions

- 1 Switch off your DJI Mavic 3 drone and the FTS system will shut down automatically.



- 2 Switch off your Klick remote control.



DISASSEMBLY

of the FTS system

Dismantling the FTS requires a visit to the workshop so that our experts can carry out the operation.

Warning

If you dismantle or modify the FTS yourself, Dronavia disclaims all liability and will void the warranty on your system.

RESETTING

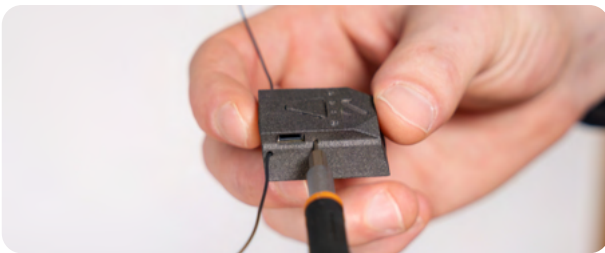
of the FTS system

In the event of a malfunction or any other bug, follow the instructions below in order:

Instructions

1

To reset the Klick remote control, you'll find a small hole on the left-hand side. Insert a paper clip or other thin object into the hole and press it down briefly.



Warning

If the malfunction persists, contact Dronavia customer service or your reseller.

MAINTENANCE

& guarantees

STORAGE

Store the MOC2511 FTS Zephyr MVC3 system for DJI Mavic 3 in a dry place, at a temperature between 10°C and 30°C, clean and protected from UV light.

GUARANTEE

Dronavia takes great care in the design and production of its products. We guarantee our FTS systems for one year from the date of purchase against any defect or design fault that may arise during normal use of the product. Any abusive or incorrect use, or exposure to aggressive factors (high humidity, excessively high temperatures, etc.) that could lead to damage will invalidate this warranty.

NOTICE OF LIABILITY

Flying a drone, whether manual or automatic, is an activity that requires attention, specific knowledge and good judgement. Be cautious, get trained in appropriate structures, take out insurance and comply with the requirements defined by the DGAC decrees of 11 April 2012 and 17 December 2015 and the EASA.



Ask our sales team your questions



LINKS to know

For France, we recommend that you consult the website of the Ministry of Ecology, Sustainable Development and Energy if you have any doubts or questions. For Europe, we recommend that you consult the EASA website. Remember that you are flying under your own responsibility.

Website of the Ministry of
Ecological Transition and
Territorial Cohesion



Details of MOC 2511
published by EASA :



The IGN map of
restricted areas for
drones



Details of the M2 MOC
published by EASA :



The French Civil Aviation
Authority (DGAC)



European Union Aviation
Safety Agency (EASA)



Ask our sales team your questions



CONTACT US



+33 (0) 354 40 00 78



distri@dronavia.com



www.dronavia.com



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