

USER'S MANUAL & INSTRUCTIONS

MOC2511 INTERNAL FTS FOR



INTRODUCTION

- o1 Introduction by our CEO
- O2 General presentation
- ⁰⁵ Warnings and precautions for use
- o7 11 safety instructions to follow

99 **2** FTS ZEPHYR FOR MAVIC 3

- 10 Components presentation
- ¹¹ Technical specifications
- ¹² Minimum size of buffer zone for soil-related risks
- 13 System activation
- 17 Test procedure
- 19 System shutdown and reset
- 20 System disassembly
- ²¹ FTS resetting



- 23 4 USEFUL LINKS
- 24 5 CONTACT US

 \mathcal{O} avic > \cap ∟ 0 Ŧ -1 ŝ N C 0 Σ ഗ nternal FT our

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!





DESENTATION

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

Dear customer,

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.

COMPLIANCE

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.

GERNAR Dresentation

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.

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

GERNER Dresentation **CONTRACTANTA CONTRACT** & 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.

& precautions for us

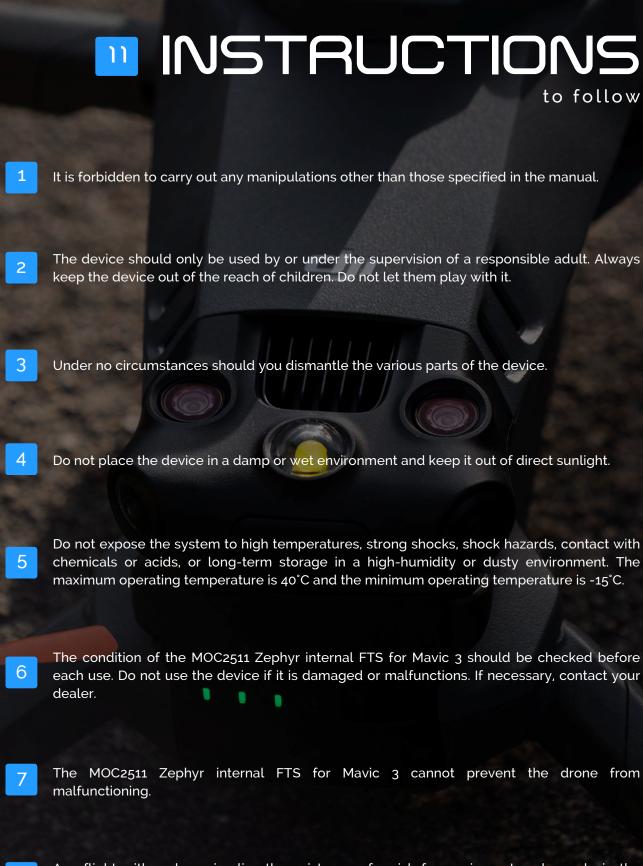
Ð

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.



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.

8

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



ZEPHYR SYSTEMS MOC2511 INTERNAL FTS FOR 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
	1
AUTONOMY TRIGGER REMOTE CONTROL	30 HOURS
	1 1
OPERATING TEMPERATURE	-25°C À 40°C



ZEPHYR MVC3 Minimum size of buffer zone for

ground-related risks (in metres)



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

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



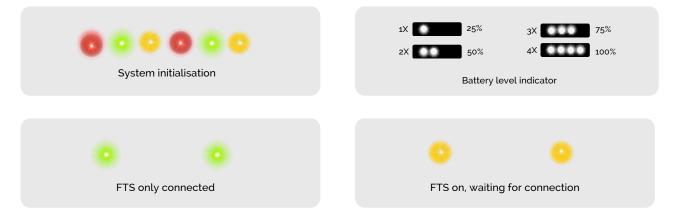


Switch on your Klick remote control. When the FTS system is properly connected, a green LED flashes on the remote control and on the FTS module.



ACTIVATION of the FTS system

The different LED states



YOUR FTS IS ACTIVE AND OPERATIONAL!

HLICH

manual activation of the FTS

Consult our Klick user manual





new version

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



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



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





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.







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

Instructions



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





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.

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.



guarantee

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.



to know

CONTACTUS

 \sim



+33 (0) 354 40 00 78

distri@dronavia.com



www.dronavia.com



Dronavia Channel



