



MADE IN FRANCE 

USER MANUAL & INSTRUCTIONS

MOC2511 FLIGHT TERMINATION SYSTEM FOR  T50 / T25

Flight Manual (MOC2511) - FTS-MOC KRONOS AG V1.0

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External Flight Termination System for DJI T50

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WE MAKE YOUR DRONE SAFER



Since 2015, Dronavia has been designing and manufacturing innovative safety accessories for professional drones in France. Developed in our workshops, the Kronos range of devices, including Parachute Recovery Systems (PRS) and Flight Termination System (FTS), are the result of 10 years of research and development and meet the highest standards set by EASA.

Thanks to these solutions, which comply with European regulations, professional drone operators benefit from the best guarantees in terms of safety and risk management for their flight missions.

Thank you for your trust and have a good flight.

Ludovic Pelletey, CEO of Dronavia



VERSION NOTE

Version 1.0

- Initial version

DRONAVIA UPDATER

Dronavia has recently launched an innovative software solution specifically designed to simplify the updating of Kronos systems. Thanks to this new software, Dronavia customers can now manage and update their systems more quickly and easily.

Download Dronavia
Updater software



GENERAL presentation

Dear Customer,

Congratulations on purchasing your new MOC2511 FTS-MOC Kronos AG External Flight Termination System (FTS) for your DJI T50 & T25 drone.

You have chosen the device that we are confident is the most effective system of its kind. Extensive research and testing have been carried out to make 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 FTS-MOC Kronos AG External Flight Termination System (FTS) and answer any technical or commercial questions you may have.



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GENERAL presentation

TO BE READ CAREFULLY

This emergency device does not guarantee the preservation of equipment integrity nor the prevention of damage to property or persons. It is a safety feature designed to complement other security systems. Dronavia and its distributors cannot be held liable for any malfunction or for performance deemed insufficient or ineffective.

Use of this system on any drone other than the DJI T50 or DJI T25 is strictly prohibited. The configuration of the Flight Termination System must not be altered, as doing so may compromise its proper functioning.

Activating a drone Flight Termination System is a critical action that carries inherent risks. It must only be used in emergency situations.

Warning

The Kronos AG flight termination system is compatible only with the DJI T50 and T25 drones, and is not yet supported on the DJI T25P.

COMPLIANCE

with MOC2511

The MOC2511 External Flight Termination System FTS-MOC Kronos AG, for DJI T50 & T25, was developed to meet the requirements of MOC 2511 published by EASA:

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



The purpose of these requirements is to enable the drone operator to intervene in the event of the drone escaping control due to a failure of the flight controller or its sensors. In such situations, autonomous can make the difference between a minor scare and a more serious accident. The MOC2511 FTS-MOC Kronos AG external Flight Termination System for DJI T50 & T25 can be activated in less than a second.

WARNINGS & safety precautions

TO BE READ CAREFULLY

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

Before handling the MOC2511 FTS-MOC Kronos AG External Flight Termination System for DJI T50 or DJI T25, you must carefully read this manual. This manual provides information on how to use the Flight Termination System. In addition to the important notes and information mentioned in this manual, the owner of the device must comply with all the important instructions set out below.

WARNINGS

& safety precautions

TO BE READ CAREFULLY

The MOC2511 FTS-MOC Kronos AG External Flight Termination System for DJI T50 or DJI T25 is a safety device that, under certain conditions, prevents the drone equipped with it from flying outside its regulatory flight envelope by cutting its engines.

Activation of the Flight Termination System inevitably causes the drone to fall.

This equipment does not prevent technical problems from occurring on the drone. Any flight with a drone involves a risk to equipment and people in the vicinity, regardless of the safety equipment used. The use of the MOC 2511 FTS-MOC Kronos AG External Flight Termination System for DJI T50 or T25 must not under any circumstances increase your risk-taking.

11 SAFETY

instructions to follow

TO BE READ CAREFULLY

1

It is prohibited to perform any operations 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 reach of children. Do not let them play with it.

3

Under no circumstances should you dismantle the various components of the device.

4

Do not place the device in a damp or wet environment and keep it away from direct sunlight.

5

Do not expose the system to high temperatures, significant shocks, risks of impact, contact with chemicals or acids, or long-term storage in a highly humid or dusty environment. The maximum operating temperature is 40°C and the minimum operating temperature is -5°C.

6

The condition of the Flight Termination System must be checked before each use. Do not use the device if it is damaged or malfunctioning. If necessary, contact your reseller.

7

The Flight Termination System cannot prevent the drone from malfunctioning.

8

Any flight with a drone involves a risk to nearby equipment and people, with or without a Flight Termination System.

11 SAFETY

instructions to follow

TO BE READ CAREFULLY

9

The use of a Flight Termination System should not increase your risk-taking behaviour in any way.

10

The Flight Termination System 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, perform a simulated trigger exercise on the ground once a day.

11

After switching on the system, if the LED turns solid red, the Flight Termination System will not be operational. Contact your dealer for assistance.

KRONOS AGRAS

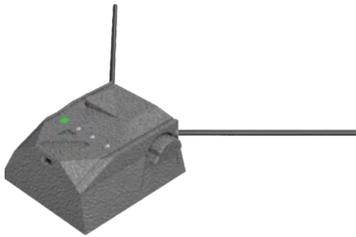
FLIGHT TERMINATION SYSTEM FOR **dji** T50 & T25 

MADE IN FRANCE

FTS-M20C-Kronos-A1

COMPONENTS

presentation

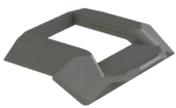


Klick trigger remote control



Flight Termination System Module

ADDITIONAL ACCESSORIES PROVIDED



Klick remote control support

SYSTEM

LEDs states

 AUDIBLE BEEP



1

Initialising the remote control



A sequence of six colored circles representing the LED state: red, green, yellow, red, green, yellow.

Battery level indicator

| | |
|---|-----------|
|  | 1X : 25% |
|  | 2X : 50% |
|  | 3X : 75% |
|  | 4X : 100% |

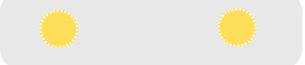
2

Battery level indicator



3

FTS awaiting connection

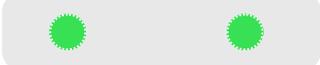


A sequence of two yellow circles representing the LED state.



4

FTS Connected



A sequence of two green circles representing the LED state.

 AUDIBLE BEEP



FTS triggered



A sequence of six green circles representing the LED state.

SIGNAL

LEDs states

Lost signal



LONG BEEPS
FIXED LED

Weak signal



DOUBLE BEEP
FIXED LED

Medium signal



FIXED LED

strong signal



FIXED LED

KRONOS AGRAS

Technical specifications

| | |
|------------------------------|---|
| TOTAL WEIGHT | 810 GRAMS |
| COMMUNICATION WIRELESS RADIO | SRD860 WITH ENCRYPTED KEY (869 MHz / 100 MW) |
| RANGE OF THE REMOTE CONTROL | 1700 METRES* |
| BATTERY LIFE REMOTE CONTROL | 30 HOURS |
| OPERATING TEMPERATURE | -5°C À 40°C |
| DIMENSIONS | 127 X 150 X 80 MM |

**The range can reach up to 1.7 km under optimal conditions and in an environment free of obstacles and interference.*

KRONOS AGRAS

*Minimum Size of the Ground Risk Buffer
(GRB)*

| | | | |
|---------------------------------|-----|-----|-------------------------------|
| OPERATING VOLUME VERTICAL LIMIT | 30 | 75 | SOIL-RELATED RISK BUFFER ZONE |
| | 40 | 79 | |
| | 50 | 82 | |
| | 60 | 85 | |
| | 70 | 88 | |
| | 80 | 91 | |
| | 90 | 93 | |
| | 100 | 96 | |
| | 110 | 98 | |
| | 120 | 100 | |
| | 130 | 102 | |
| | 140 | 104 | |
| | 150 | 106 | |

The ground risk threshold can be calculated based on various drone parameters and assumptions. Please refer to the document dedicated to calculating the ground risk threshold if you need to calculate more accurate ground risk thresholds based on your application.

INSTALLATION

of Flight Termination System

The Kronos Agras Flight Termination System for DJI T50 or T25 can be installed in just a few minutes. To install the Flight Termination System module, please follow these instructions in order:

Instructions

- 1 Switch off the DJI T50 or T25 drone, then remove the battery from the drone.



- 2 Carefully position the Kronos Agras Flight Termination System module on the battery connector, ensuring precise alignment to avoid any risk of damage to the connector.



INSTALLATION

of Flight Termination System

3

Connect the DJI T50 or T25 drone battery to the Flight Termination System module connector.

1



2



3



4



4

Your Kronos Agras Flight Termination System for DJI T50 or T25 is operational. 

INITIALIZATION

of Flight Termination System

To initialise the Kronos Agras Flight Termination System, please follow these instructions in order:

Instructions

1

Switch on the DJI T50 or T25 drone. The Flight Termination System will switch on automatically.



2

Switch on the Klick remote control. Once the Flight Termination System is correctly connected, a green LED will flash on the Klick remote control.



Warning

The Flight Termination System module features an indicator LED. Operating states are visible via this LED and via the LEDs on the Klick trigger remote control.

INITIALIZATION

of Flight Termination System

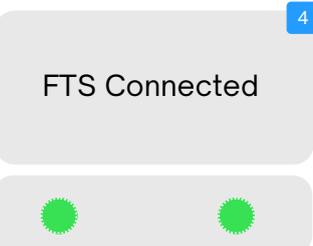
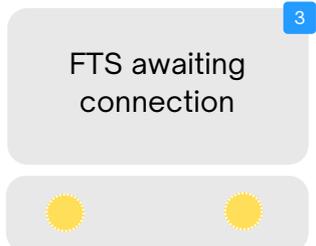
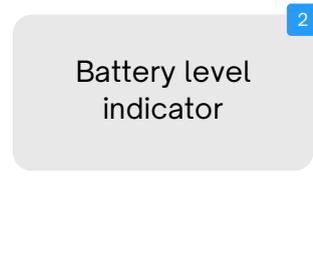
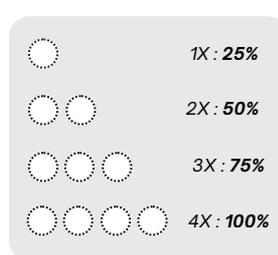
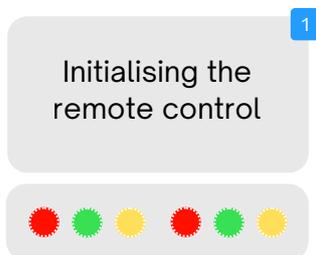
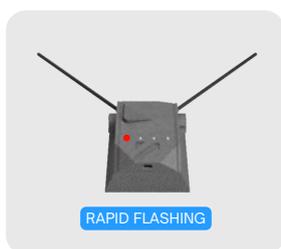
3 Your Kronos Agras Flight Termination System for DJI T50 or T25 is initialised. 

Warning

Once the Flight Termination System has been initialised, handle the Klick remote control carefully to avoid accidentally triggering the system.

The different LED states

 AUDIBLE BEEP



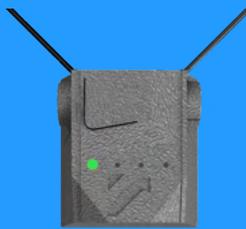


**▶ YOUR FTS IS ACTIVE
AND OPERATIONAL!**

KLICK

*Manual activation of the
Flight Termination System*

CONSULT THE KLICK USER MANUAL



PROCEDURE

of Flight Termination System Test

Before the flight or before the first flight of the day, you can test the Kronos Agras Flight Termination System. Follow these instructions in order:

Instructions

- 1 Switch on the DJI T50 or T25 drone. The Flight Termination System will switch on automatically.



- 2 Switch on the Klick remote control. Once the Flight Termination System is correctly connected, a green LED will flash on the Klick remote control.



Warning

The Flight Termination System module does not have any indicator LEDs. Operating statuses can only be viewed via the LEDs on the Klick remote control.

PROCEDURE

of Flight Termination System Test

3

Start the engines and initiate rotation while keeping the DJI T50 or T25 drone on the ground.



4

Stop the motors from rotating by pressing the double trigger button on the Klick remote control. Check that the motors stop correctly and that the LED indicator flashes green rapidly on the Klick trigger remote control.



5

Perform a final flight test with the Flight Termination System switched on, but without activating it. If the flight proceeds normally and you do not receive any error messages, the Flight Termination System is operational.

Warning

This final flight test (step 5) does not involve activating the in-flight Flight Termination System. For this step, simply fly the drone and check whether an error message appears during the flight. Please note that activating the Flight Termination System in flight will inevitably cause the drone to crash.

STOP

of Flight Termination System

To stop, turn off, and reset the Flight Termination System, follow these instructions in order:

Instructions

- 1 Stop the DJI T50 or T25 drone. The Flight Termination System will shut down automatically.



- 2 Stop the Klick remote control.



DISASSEMBLY

of Flight Termination System

To remove the Flight Termination System, follow these instructions in order:

Instructions

1

To remove the Flight Termination System, simply follow the installation instructions in reverse order. The Klick remote control can remain installed on the DJI T50 or T25 remote control without affecting its operation.

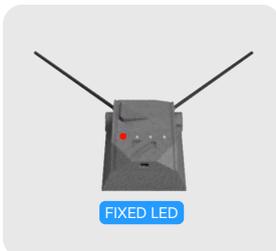
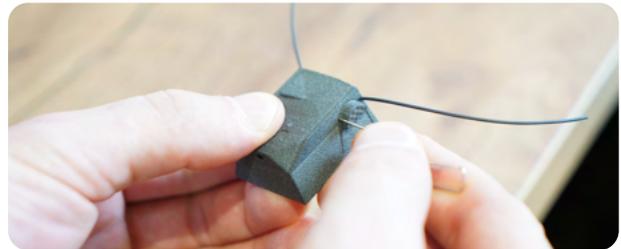
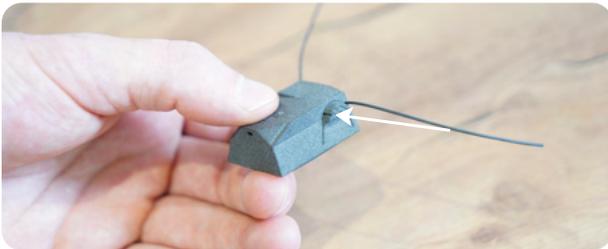
RESET

of Flight Termination System

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

Instructions

- 1 To reset the Klick remote control, locate the small hole on the left side. Insert a paper clip or other thin object into the hole and press briefly.



System error



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

MAINTENANCE & warranty

STORAGE

Store the Kronos Flight Termination System in a dry place, at a temperature between 10°C and 30°C, clean and protected from UV rays.

WARRANTY

Dronavia takes the utmost care in the design and production of its products. We guarantee our Flight Termination Systems for one year from the date of purchase against any manufacturing or design defects that may arise during normal use of the product. Any misuse or improper use, or exposure to aggressive factors (high humidity, excessive heat, etc.) that may cause damage will void this warranty.

NOTICE OF LIABILITY

Flying a drone, whether manually or automatically, is an activity that requires attention, specific knowledge and good judgement. Be careful, train at suitable facilities, take out insurance and comply with the requirements set out in the DGAC decrees of 11 April 2012 and 17 December 2015 and by 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



European Union Aviation Safety Agency (EASA)



The French Civil Aviation Authority (DGAC)



Ask our sales team your questions



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