





MADE IN FRANCE 



WWW.DRONAVIA.COM | +33 (0) 354 400 078 | VERSION 1.2

USER'S MANUAL & INSTRUCTIONS

MOC2512 (M2) PARACHUTE RECOVERY SYSTEM & MOC2511
FLIGHT TERMINATION SYSTEM FOR  INSPIRE 3 

PRS-FTS-MOC KRONOS AD INSPIRE 3 (MOC)

SUMMARY

Kronos I3 MOC M2/MOC2511

01 1 INTRODUCTION

- 01 The CEO's words
- 02 General presentation
- 05 Certifications by EASA
- 06 Warnings and precautions for use
- 08 15 safety instructions to follow

09 2 KRONOS I3 PARACHUTE

- 11 Components presentation
- 12 The system in images
- 14 The system elements
- 15 System states
- 17 The system in figures
- 18 Technical specifications
- 19 Operational limits
- 20 Dimensions and weights
- 21 Minimum size of buffer zone for ground-related risks
- 22 System installation
- 26 System start-up
- 28 System activation
- 29 System deactivation
- 31 Parachute deployment
- 32 Autonomous parachute deployment
- 33 Manual deployment of the parachute

- 35 System stopping and resetting
- 37 System dismantling
- 39 Battery checking
- 40 Battery charging
- 41 Parachute resetting

42 3 ANNUAL MAINTENANCE

- 43 Mandatory maintenance procedure
- 44 Listing of deployment failures
- 45 Listing of voluntary and unintentional deployments
- 46 POD use-by date
- 47 POD return procedure
- 48 POD system dismantling

49 4 PARACHUTE REARMING

- 50 Parachute rearming
- 58 Used POD returning procedure
- 59 CO2 cartridge characteristics
- 60 15 instructions to follow

SUMMARY

Kronos I3 MOC M2/MOC2511

⁶¹ 5 KRONOS I3 FLIGHT TERMINATION SYTEM

⁶³ Components presentation

⁶⁴ Technical specifications

⁶⁵ System installation

⁷⁰ System activation

⁷⁵ Test procedure

⁷⁷ System stopping and resetting

⁷⁸ System dismantling

⁷⁹ FTS ressetting

⁸⁰ 6 MAINTENANCE & GUARANTEE

⁸¹ 7 USEFUL LINKS

⁸² 8 CONTACT US

9 APPENDICES

INTRODUCTION

by our CEO



Ludovic Pelletey, Dronavia's 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 fruit of more than 8 years of research and innovation, our new range of Kronos parachutes and FTS has been developed and tested in accordance with the standards imposed by the EASA and the DGAC, to comply with MOC2511 and the MOC2512 (M2).

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 Inspire 3 in complete safety.

Thank you for your confidence & enjoy your flight!

GENERAL

presentation



Dear customer,

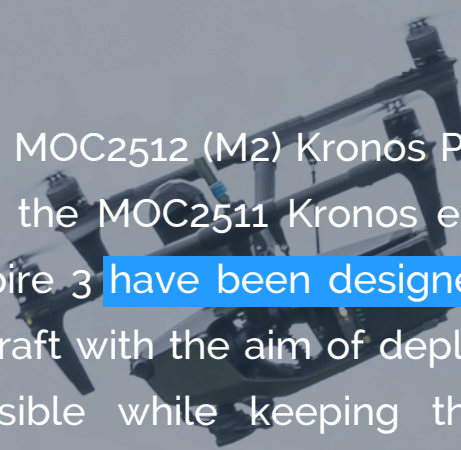
Congratulations on the purchase of your new accessories **MOC2512 (M2)** and **MOC2511**, including a **Parachute Recovery System (PRS)** & a **autonomous external Flight Termination System (FTS)** for your DJI Inspire 3 drone.

You've chosen what we're sure are the best performing systems of their type. **Extensive research and testing have gone** into making them as safe and effective as possible.

Based in Remiremont, France, DRONAVIA is at your service to advise you on **the purchase of your safety accessories MOC2512 (M2) and MOC2511**, for DJI Inspire 3 and to answer any **questions of a technical or commercial nature.**

GENERAL

presentation



The MOC2512 (M2) Kronos PRS for DJI Inspire 3 and the MOC2511 Kronos external FTS for DJI Inspire 3 have been designed for DJI Inspire 3 aircraft with the aim of deploying as quickly as possible while keeping the sink rate to a minimum.

Multi-rotor UAVs, even when properly used and maintained, can sometimes find themselves in a critical emergency situation where immediate rescue is required, due to severe weather conditions, radio transmission failure, technical failure of the propulsion system, loss of GPS signal, and soon.

In such situations, the FTS coupled with the quick-release PRS can make the difference between a simple scare and a more serious accident. The MOC2512 (M2) Kronos PRS for DJI Inspire 3 and the MOC2511 Kronos external FTS for DJI Inspire 3 can be activated & deployed 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. Neither DRONAVIA nor its distributors may be held responsible for any malfunction or operation deemed insufficient or even ineffective.



CERTIFICATION by EASA

The Kronos Inspire 3 MOC2512 (M2) PRS has been developed to meet the requirements of the **Means of Compliance with Light-UAS.2512** published by the EASA:

The Light-UAS.2512 standard offers several options for complying with the SORA's M2 mitigation measures. M2 mitigation measures are designed to reduce the effect of ground impact once control of the operation is lost. This is done by reducing the effect of the UA impact dynamics (i.e. area, energy, impulse, transfer energy, etc). "



The Kronos Inspire 3 MOC2511 FTS has been developed to meet the requirements of the **Means of Compliance with Light-UAS.2511** published by the 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. "



WARNINGS

& precautions for use

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.

Dronavia accepts no responsibility for damage or injury caused directly or indirectly by the use of CO2 cartridges or by the use of CO2 cartridges that do not comply with safety requirements and standards.

Before handling the Kronos systems for DJI Inspire 3 you must read this manual carefully. It provides information on how to use the PRS and FTS. 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

& precautions for use

TO BE READ CAREFULLY

The Kronos systems for DJI Inspire 3 consists of 2 safety devices which, under certain conditions, prevent the drone fitted with them from leaving its regulatory flight envelope by cutting the power supply to the engines, and prevent the drone fitted with them from free-falling.

Activation of the FTS and/or PRS inevitably involves the drone falling.

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. Using the Kronos FTS and PRS for the DJI Inspire 3 should in no way increase your risk.

15 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 Do not under any circumstances dismantle the various parts of the device, except when resetting it in accordance with the instructions in this manual.
 - 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. Incorrect use could cause the CO₂ cartridge to burst, endangering your life. The maximum operating temperature is 40°C and the minimum operating temperature is -5°C.
 - 6 The condition of the Kronos PRS and FTS for Inspire 3 should be checked before each flight. Do not use the device if it is damaged. If necessary, contact your reseller.
 - 7 The Kronos PRS and FTS for Inspire 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 the Kronos safety systems for Inspire 3.

TO BE READ CAREFULLY

15 INSTRUCTIONS

to follow

9 The use of a Kronos PRS and FTS system for Inspire 3 should in no way increase your risk.

10 The Kronos PRS system for Inspire 3 attempts to prevent a malfunctioning drone from free-falling. However, there are fall situations in which the effectiveness of the Kronos PRS system for Inspire 3 may be limited or impeded.

11 The Kronos PRS and FTS system for Inspire 3 must be actively activated by the user. Regular training is necessary to be able to react correctly in an emergency.

12 The CO2 cartridge and ejection system work only once. You can recharge the system yourself by following the instructions in this manual. It is your responsibility to ensure that the system is covered by warranty.

13 When reloading, it is forbidden to do so with people nearby, and especially with the barrel pointing in their direction. You must take the same precautions as when handling a loaded rifle. In the event of accidental firing during this stage or mishandling, the firing pin could be ejected and cause serious injury. Safety glasses must be worn.


14 After the device has been deployed, it is advisable to inspect each component carefully to ensure its integrity. If in doubt, contact your reseller.

15 After switching on the system, if the LED changes to a steady red, do not use it and contact your reseller for assistance.

TO BE READ CAREFULLY

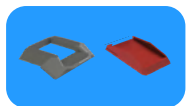
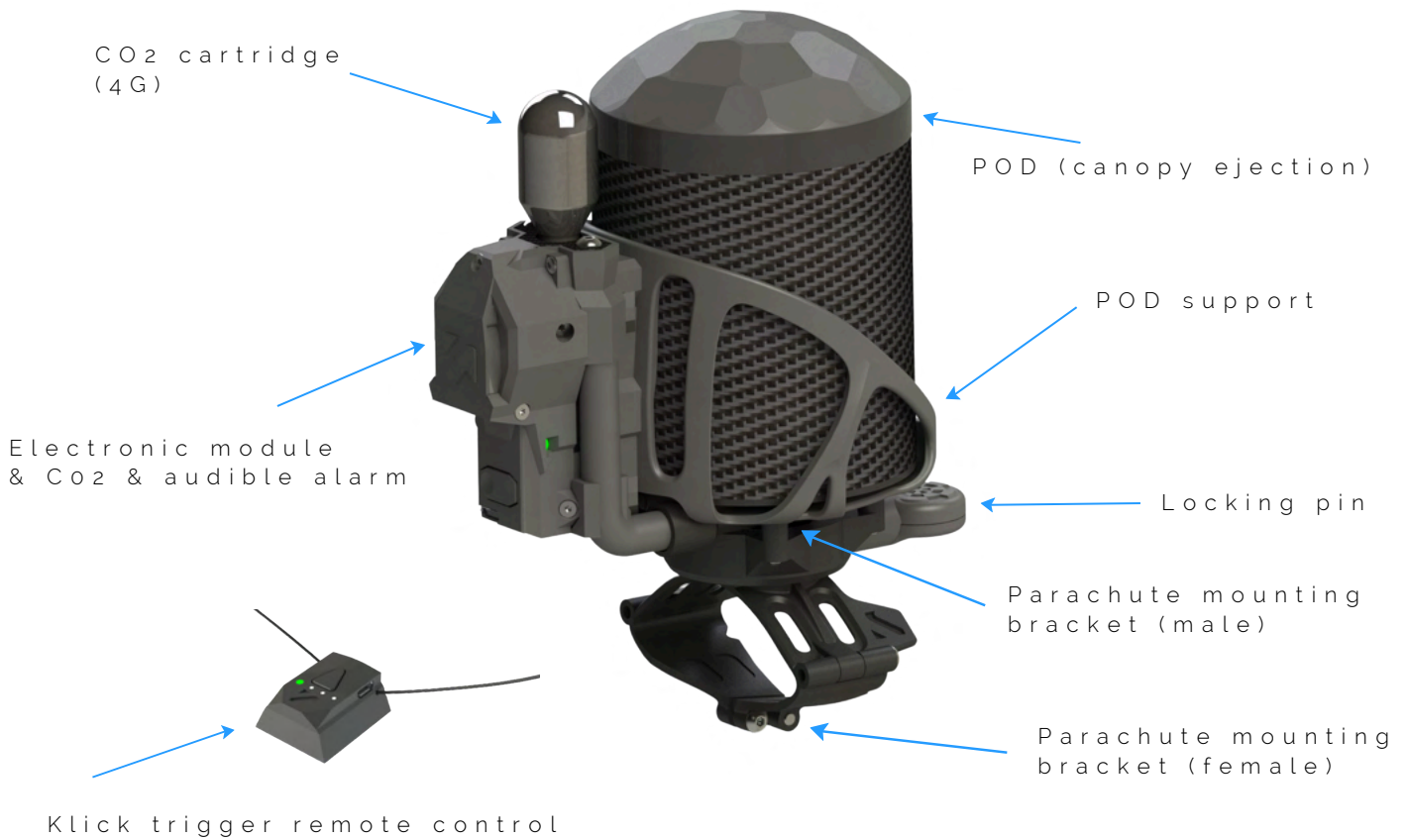


KRONOS SYSTEMS

PARACHUTE RECOVERY SYSTEM FOR **dji** INSPIRE 3 

COMPONENTS

presentation



Klick Set



Klick Pin

ADDITIONAL ACCESSORIES SUPPLIED



USB-C Cable



Allen key 2mm / 2.5mm



Reset tool



Threaded reset tool



Mounting bracket cover

KRONOS B

System image

Kronos Inspire 3
parachute
MOC2512 (M2)



DJI Inspire 3 drone



KRONOS B

System image



DJI Remote Control
for DJI Inspire 3

Klick trigger remote
control

ELEMENTS

of the parachute system



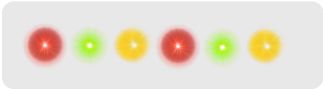
THE STATES

system

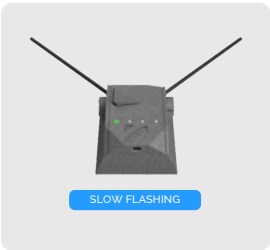
STARTING



System start-up



CONNECTION



FTS only connected



FTS & PRS connected



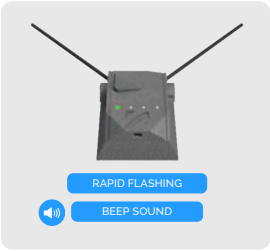
FTS & PRS connected with autonomous deployment



THE STATES

system

ACTIVATION AND DEPLOYMENT



Single FTS triggered



FTS triggered & PRS deployed



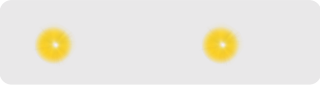
FTS triggered & PRS deployed with autonomous deployment



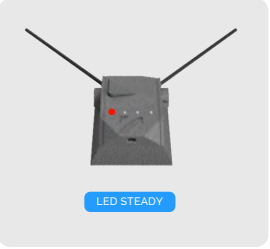
SYSTEM & BATTERY ALERTS



No remote control signal (Klick)



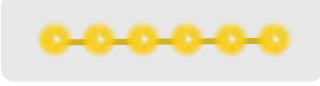
Low battery



System error



Battery charging



Battery charged



KRONOS B

system figures



KRONOS B

Technical specifications

TOTAL WEIGHT

376 GRAMS
(WITH CARTRIDGE)

EJECTION DEVICE

CO2 CARTRIDGE
4 GRAMS

MINIMUM HEIGHT
EFFICIENCY

FROM
24 METERS

COMMUNICATION
WIRELESS RADIO

SRD860 WITH
ENCRYPTED KEY
(869 MHz / 100 MW)

RANGE OF THE KLICK
REMOTE CONTROL

3000 METERS

PARACHUTE
AUTONOMY

5 HOURS

KLICK REMOTE
CONTROL AUTONOMY

30 HOURS

ENERGY GROUND
IMPACT

< 24 JOULES

OPERATING
TEMPERATURE

-5°C À 40°C

KRONOS B

Operational limits

MAXIMUM WIND SPEED
AT GROUND LEVEL

9,46 m/s

MINIMUM FLIGHT
ALTITUDE (AGL)

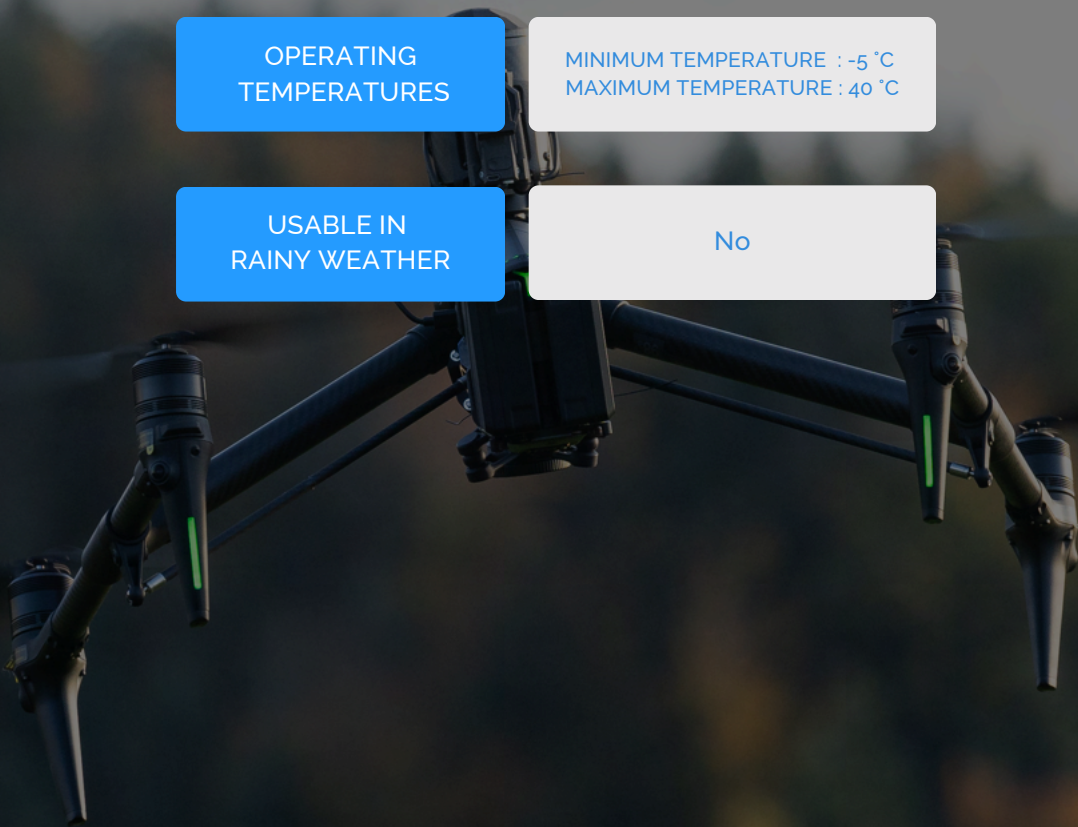
30 m

OPERATING
TEMPERATURES

MINIMUM TEMPERATURE : -5 °C
MAXIMUM TEMPERATURE : 40 °C

USABLE IN
RAINY WEATHER

No



KRONOS B

Dimensions and weights

DRONE



50 x 71 x 35 cm

3 995 g

PARACHUTE



8 X 12 X 20 cm

376 g

PARACHUTE + DRONE



50 x 71 x 35 cm

4 311 g

KRONOS B

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

30	76
40	104
50	132
60	160
70	188
80	216
90	244
100	272
110	300
120	328



INSTALLATION

of the parachute system

The Kronos Inspire 3 parachute system can be installed in just a few minutes. To install the parachute, please follow the instructions below in order:

Skills & tools required

Installing the parachute requires no special technical skills. A 2/2.5 mm allen key (supplied by Dronavia) is required for installation.

Instructions

- 1 Unscrew the protective cover from your new POD. Install the POD on its central support.



Advice

Be sure to keep the POD's protective cover so that you can use it when returning the POD for annual maintenance.



INSTALLATION

of the parachute system

2

Fit the parachute attachment bracket to the top of the DJI Inspire 3 drone, then attach it to the drone by screwing the two ends together using the 2 screws supplied, as shown below.



Warning

Be sure to observe the tightening torque of 0.8 Nm.

The fixing support is installed with the Dronavia logo towards the front of the drone.



INSTALLATION

of the parachute system

3

Place the parachute in its fixing support and lock the system by turning it a quarter turn.



4

Connect the USB-C cable linking the parachute to the FTS.



Advice

The connection between your parachute system and your FTS system provides unlimited autonomy for the parachute system. The parachute system recharges when the drone is switched on. This connection also enables the parachute system to be switched on automatically when the DJI Inspire 3 drone is switched on.



INSTALLATION


of the parachute system

5

A protective cover for the fixing support is supplied for transporting and using the DJI Inspire 3 without a parachute.



6

Your Kronos I3 parachute is operational. 

START-UP

of the parachute system

To start-up the parachute system, follow the instructions below in order:

Instructions

1

Switch on your DJI Inspire 3 drone. If you have connected the parachute to the FTS using the cord supplied, the parachute and FTS will switch on automatically.



The installation of the FTS on the DJI Inspire 3 drone is detailed on page 65.

2

If you have not connected the parachute to the FTS using the cord supplied, switch on the parachute system by pressing the ignition button for 2 seconds.



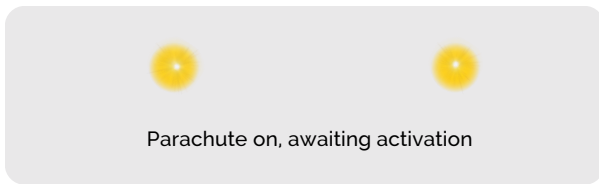
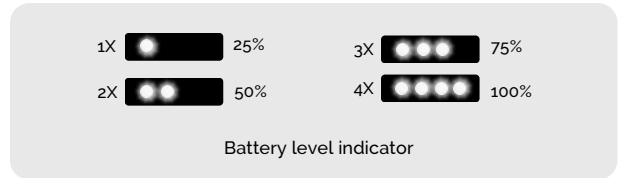
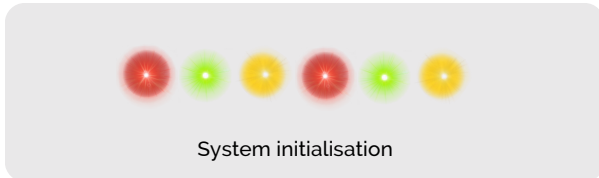
3

Your Kronos Inspire 3 parachute is switched on. ✓

START-UP

of the parachute system

The different LED states



ACTIVATION

of the parachute system

To activate the parachute system, follow these steps in order:

1

The parachute automatically detects the ignition of your drone's engines (or any other movement), during this phase double beeps are emitted. Once take-off has been detected, 2 beeps are emitted and the LED on the parachute and on the Klick trigger remote control now flash dark blue to indicate that autonomous deployment is active.

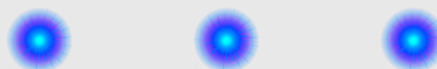
The different LED states



Autonomous deployment being activated



CONTINUOUS DOUBLE BEEP



Autonomous deployment activated



2 SHORT, LOUD BEEPS

Warning

If you notice that the parachute system does not detect the take-off correctly (no beep and no dark blue LED), this may be due to a slow take-off or a low take-off height. We advise you to launch quickly from a height of at least 5 metres.

If you are not about to take off with your DJI Inspire 3 and you hear continuous double beeps (purple LED), your parachute system has detected vibrations. A risk of autonomous deployment activation may exist. Switch off your parachute system, otherwise the autonomous deployment may be activated and your parachute system unintentionally deployed.

2

Your Kronos Inspire 3 parachute is active with autonomous deployment. ✓

DEACTIVATION

of the parachute system

To deactivate the parachute system, follow these instructions in order:

1

The parachute automatically detects a landing. After a period of approximately 5 seconds, 1 beep is emitted by the parachute and the parachute LED is no longer dark blue. The take-off detection module is deactivated (it will reactivate automatically if you take off again).

The different LED states



Parachute on and not connected to Klick trigger remote control



BEEP SOUND



Parachute on and connected to Klick trigger remote control



BEEP SOUND

Warning

If you notice that the parachute system does not detect the landing correctly (no beep and no purple LED), do not handle the drone as this could deployed the parachute. Wait a further 5 seconds.

2

Autonomous deployment of the parachute system is deactivated, but your parachute remains active and can be deployed using the Klick trigger remote control.

3

To deactivate your parachute system completely, switch off the parachute system by holding down the black ignition button for 1 second, or by switching off the DJI Inspire 3 drone.

A drone is shown in flight against a blurred background of a forest. A parachute is attached to the top of the drone. The text "YOUR PARACHUTE IS ACTIVE AND OPERATIONAL!" is overlaid on the image in white, with a blue icon of a parachute to the left of the first word.

 YOUR PARACHUTE IS
ACTIVE AND
OPERATIONAL!

DEPLOYMENT

of the parachute system

To deploy the Kronos I3 parachute system (with autonomous deployment or manually), observe the following safety instructions:

Warning

1 Never attempt to deploy the parachute on the ground.

2 The Kronos I3 parachute is designed to be deployed at a minimum height of 15m from the ground in standard atmospheric conditions.

3 For a fall from a height of 24 m, the impact on the ground is less than 21 joules with the Kronos I3 parachute system, compared with 1177 joules without any device.

This data may vary according to altitude above sea level, relative wind and many other external factors. That's why we recommend a minimum height of 24 m above ground level to deploy the Kronos I3 parachute system and sufficiently limit the impact of your drone on the ground.

AUTONOMOUS

system deployment

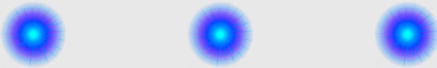
1

When autonomous deployment is activated, no manual action is required to deployed the parachute. Our autonomous deployment technology implemented in our parachutes enables the parachute to be deployed automatically, should the drone find itself in a critical loss-of-control situation.

Warning

If you find that the parachute system does not detect take-off correctly (no beep and no dark blue LED), this may be due to a slow take-off or a low take-off height. We advise you to launch quickly from a height of at least 5 meters.

The different LED states



Autonomous deployment enabled



BEEP SOUND

MANUAL

system deployment

To deploy the parachute manually, observe the following safety instructions:

Instructions

1

Find out how to deploy your Kronos I3 parachute system manually using our Klick trigger remote control instruction and user manual.

KLICK

manual deployment of the PRS

Consult our Klick user manual



new version

STOP

& resetting the parachute system

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

Instructions

1

Switch off your DJI Inspire 3 drone. If you have connected the parachute to the FTS using the cord supplied, the parachute and FTS will switch off automatically.



2

If you have not connected the parachute to the circuit breaker using the cord supplied, to switch off the parachute immediately, hold down the ignition button for 5 seconds. Then switch off the DJI Inspire 3 drone.



STOP

& resetting the parachute system

- 3 Switch off your Klick trigger remote control.



Advice

If you forget to switch off the parachute system manually, it will switch off automatically after 10 minutes. The FTS system automatically switches itself off when the DJI Inspire 3 is switched off.

DISASSEMBLY

the complete parachute system

To disassemble the entire parachute system, follow the instructions below in order:

Instructions

1

Disconnect the USB-C cable linking the parachute to the FTS. Then release the locking pin by pulling on it.



2

Turn the parachute system a quarter turn to unlock it.



DISASSEMBLY

the complete parachute system

3 Disengage the parachute system from its support.



4 Unscrew the two screws on the parachute module mounting bracket. Then remove the fixing support from the DJI Inspire 3 drone.



Advice

The support for fixing the parachute system can be kept on the DJI Inspire 3 drone and does not interfere with the storage of the drone in its flycase. A protective cover is supplied. Only the parachute needs to be removed for transport.



CHECKING

of the parachute system battery

To check the battery status of the parachute system, follow the instructions below in order:



Instructions



1

Press the parachute ignition button quickly. The number of flashes indicates the remaining charge level.



Les différents états LEDs

1X  25% 3X  75%

2X  50% 4X  100%

Battery level indicator

CHARGING

of the parachute system battery

To charge the parachute battery, follow the instructions below in order:

Instructions

1

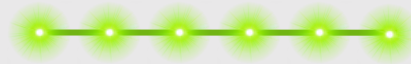
To recharge the parachute's battery, simply connect the USB-C cord supplied to the parachute's USB-C socket located near the ignition button. Then plug the USB-A socket into a computer.



The different LED states



Battery charging



Battery charged

RESETTING

of the parachute system

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

Instructions

1

To reset the parachute system, there is a small hole in the back of the parachute. Slide a paper clip or other thin object through the hole, and a short press will reset the entire parachute system.



Warning

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

MAINTENANCE

parachute annual

TO BE READ CAREFULLY

Like all rescue systems (rescue parachutes for paragliders or parachutists, avalanche airbags, etc.) Dronavia parachutes must undergo preventive maintenance to be kept in optimum working order. The only preventive maintenance operation is to replace the POD. It's a quick and easy operation, which means that pilots never have to leave their drone grounded.

A use-by date is set for each POD. Dronavia disclaims all liability and cancels the warranty if your POD has exceeded this use-by date.

PROCEDURES

maintenance requirements

To be kept in optimum working order, each parachute system must undergo preventive or post-deployment maintenance. Here is a summary table of the mandatory maintenance operations:

FREQUENCY	OPERATION	CAN BE MADE BY
Every year	Replacement of the POD or Repackaging of the canopy	Final user or DRONAVIA or any certified partner
Every 5 years	Mandatory manufacturer global maintenance	Manufacturer
After every deployment	Rearming of the parachute system	Final user or DRONAVIA or any certified partner
After every deployment	Inspection of the CO ₂ system	Final user or DRONAVIA or any certified partner
After every deployment	CO ₂ cartridge replacement	Final user or DRONAVIA or any certified partner
After every deployment	Replacement of the POD or Repackaging of the canopy	Final user or DRONAVIA or any certified partner
After 30 deployments	Mandatory manufacturer global maintenance	Dronavia

Warning

If you wish to carry out global maintenance yourself, Dronavia will disengage its responsibility for the system, in addition to cancelling the warranty.

LISTING

parachute deployment failures

If the Kronos Inspire 3 parachute system deployment fails during flight, record the following:

UAS Concerned with the failed activation	Accumulated Flight Hours at activation failure	Distance between Control Unit and UAS at activation attempt	Location of the operation	Presence of high power emitter in the operational volume

LISTING

voluntary and intensive parachute deployments

If the Kronos Inspire 3 parachute system is deployed during flight, record the following:

UAS Concerned with the failed activation	Accumulated Flight Hours at activation failure	Distance between Control Unit and UAS at activation attempt	Location of the operation	Was the activation commanded or un-commanded	Presence of high power emitter in the operational volume

Warning

If the probability of failure observed in service is greater than $10^{-2}/FH$ (taking into account the statistical uncertainty), the operator must inform the competent authority.

USE-BY DATE

for the POD

Each POD has a use-by date to ensure that it remains in optimum working order:

The optimum life of a POD is 1 year. The use-by date is shown on the label on the back of the POD.



Warnings

If a POD is used after its use-by date, Dronavia accepts no liability for partial or slower deployment of the parachute system.

PROCEDURE

return of the POD for maintenance

There are several options for exchanging your POD that is past (or close to) its use-by date:

Buy **259€**

1

Buy a POD in advance from your reseller. You'll be able to continue flying during the annual maintenance of your first POD.

Exchange **99€**

2

Return your POD to a reseller and receive a new one at a special price.

Warnings

Plan in advance the time needed to contact your reseller (order, delivery time, etc.) so as not to exceed the expiry date and compromise your flight missions.

DISASSEMBLY

of the POD system for maintenance

To remove the POD from the parachute system, follow the instructions below in order:

Instructions

- 1 Unlock the POD by unscrewing it from its central support. Then remove the POD.



REARMING

the Kronos parachute system

TO BE READ CAREFULLY

Following a parachute deployment, Kronos parachute systems have been thought out and designed to rearm quickly and allow telepilots to continue their missions following a deployment.

Changing your POD, replacing your CO2 cartridge, checking the firing pin tip - all these procedures need to be carried out following a deployment. As some procedures are dangerous, we advise you to read this section carefully.

A use-by date is set for each POD. Dronavia disclaims all liability and voids the warranty if your POD has exceeded this use-by date.

REARMING

of the parachute system

To rearm your parachute system, follow the instructions below in order:

Instructions

1

Switch off your DJI Inspire 3 drone. If you have connected the parachute to the FTS using the cord supplied, the parachute and FTS will switch off automatically.



2

If you have not connected the parachute to the FTS using the cord supplied, switch off the parachute system by holding down the ignition button for 5 seconds. Then switch off the DJI Inspire 3 drone.



REARMING

of the parachute system

3

Disconnect the USB-C cable linking the parachute to the FTS.



4

Unscrew the used POD from its central support. Then remove the POD.



Warning

When unscrewing the used POD, be careful of the sharp edges of the carbon tube, which can cause cuts and/or carbon spikes on your hands.

INSPECTION

of the CO₂ system

- 1 Remove the CO₂ cartridge.



- 2 Unlock the locking pin by pulling on it.



- 3 Turn the parachute system a quarter turn to unlock it.



INSPECTION

of the CO₂ system

4

Disengage the parachute system from its fixing support.



5

Turn the parachute system over to remove the firing pin and spring. Check that the firing pin is in good condition.



Warning

Check that the tip of the firing pin is not chipped. If the tip is chipped, the firing pin must be replaced. If in doubt, contact your reseller.

REPLACEMENT

of the CO2 cartridge

Warning

Before replacing the CO2 cartridge, please read pages 59, 60 & 61.

- 1 Reinsert the spring, then reinsert the firing pin.



- 2 Then insert the reset tool into the hole left by the CO2 cartridge.



- 3 Push the tool in as far as it will go and hold it during step 4. There must be some force against this operation.



REARMING

of the parachute system

4

Switch on the remote control and the parachute system. Wait for the system to initialise. The force described above should disappear and the LED on the module should flash green and turquoise (if this is not the case, repeat steps 2 and 3 until the force disappears and the LED flashes green and turquoise).



5

Remove the tool and install a new CO2 cartridge.

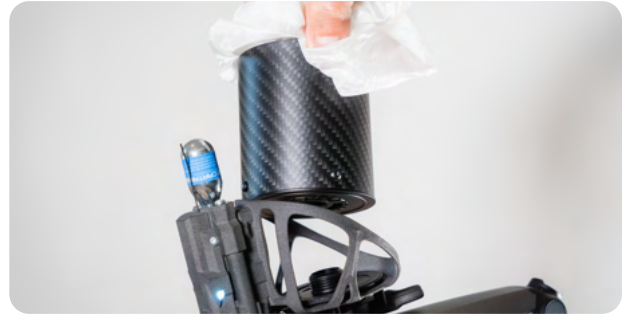


REPLACEMENT

of the POD system

1

Unscrew the used POD from its central support. Then remove the POD.



2

Unscrew the protective cover from your new POD. Insert the new POD into its central support, then screw it down until the POD locks into place.



A close-up, low-angle shot of a DJI drone's camera and gimbal assembly. A GoPro camera is mounted on the gimbal, and a small blue and white water bottle is attached to the side. The drone is flying against a clear, light blue sky. The DJI logo is visible on the camera housing.

 YOUR PARACHUTE IS
REARMED!

PROCEDURE

for returning a used POD

There are several options for returning your used POD:

Buy **259€**

- 1 Buy a POD from your reseller. Then carry out maintenance on your used POD.

Exchange **99€**

- 2 Return your used POD to a reseller and receive a new POD at a special price.

Warning

Plan in advance the time needed to contact your reseller (order, delivery time, etc.) so as not to exceed the expiry date and compromise your flight missions.

REPLACEMENT

the parachute's CO2 cartridge

TYPE	CARTRIDGE OF CO2
VOLUME	4 CC
TOTAL WEIGHT	18G (+/- 2G)
CAPACITY	4G (+/- 1G)
LID	WELDED
CONTAINER	UNWELDED STEEL
RECYCLING	100% RECYCLABLE
TRANSPORTABILITY	PLANE / TRAIN /BOAT

Warning

Only cartridges officially sold by Dronavia may be used, as they are subject to specific checks. Dronavia disclaims all responsibility and voids the warranty if any other type of CO2 cartridge is used.

12 INSTRUCTIONS

to follow

- 1 Keep the CO2 cartridge at a temperature below 45°C.
- 2 Do not leave full cartridges in the car when the temperature is too high.
- 3 In the event of prolonged inactivity, store your CO2 cartridges at normal temperatures between 10 and 20°C. CO2 cartridges may burst at temperatures above 70°C.
- 4 High temperatures can increase the pressure in the cartridge and this can prevent the device from working, possibly damaging it.
- 5 Avoid hitting the cartridge.
- 6 If corrosion spots appear on the surface of the cartridges, change them immediately.
- 7 Make sure the used cartridge is completely empty before removing it.
- 8 Do not cut or puncture the cartridge.

TO BE READ CAREFULLY

12 INSTRUCTIONS

to follow

- 9 Only use certified CO2 cartridges sold by Dronavia.
- 10 Once the gas cartridge has been installed, do not attempt to unscrew or remove it.
- 11 Do not dispose of the cartridge in a fire.
- 12 Keep out of reach of children.

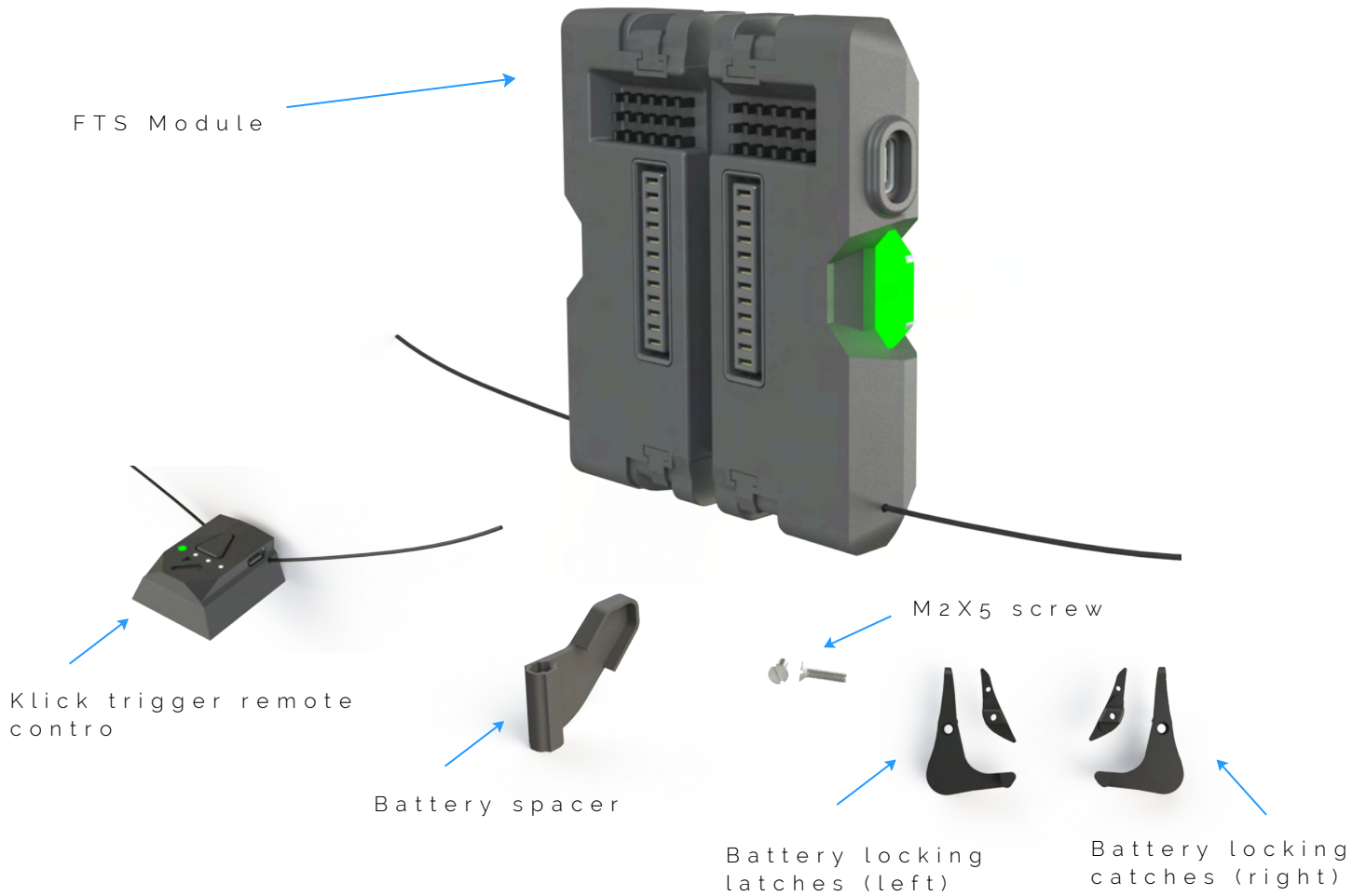
TO BE READ CAREFULLY

KRONOS SYSTEMS

MOC2511 EXTERNAL FLIGHT TERMINATION SYSTEM FOR **dji** INSPIRE 3 

COMPONENTS

presentation



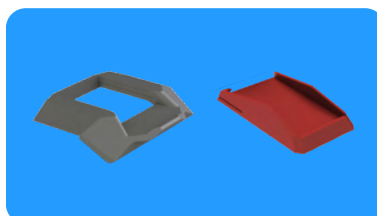
ADDITIONAL ACCESSORIES SUPPLIED



USB-C
cable



Screwdriver
PH00



Klick Set



Klick Pin

KRONOS B

Technical specifications

TOTAL WEIGHT

78 GRAMS

COMMUNICATION
WIRELESS RADIO

SRD860 WITH
ENCRYPTED KEY
(869 MHz / 100 MW)

RANGE OF THE KLIK
REMOTE CONTROL

3000 METERS

AUTONOMY KLIK
REMOTE CONTROL

30 HOURS

OPERATING
TEMPERATURE

-25°C À 40°C

MOC 2511
COMPLIANCE 



INSTALLATION

of the FTS system

The Kronos I3 FTS system can be installed in just a few minutes. To install the FTS, please follow the instructions below in order:

Instructions

- 1 Remove the batteries from the DJI Inspire 3



- 2 Position the lower left-hand part of the locking catch, then the upper left-hand part of the locking catch, as shown below. Screw the two parts together using the screws and screwdriver supplied.





INSTALLATION

of the FTS system

3

Position the lower right-hand part of the locking catch, then the upper right-hand part of the locking catch, as shown below. Screw the two parts together using the screws and screwdriver supplied.



4

Install the battery spacer by clipping it onto the central part of the DJI Inspire 3 drone.





INSTALLATION

of the FTS system

5

Insert the FTS module into the bottom of the battery compartment of the DJI Inspire 3.



6

Insert the DJI Inspire 3 batteries all the way into their slots.





INSTALLATION

of the FTS system

7

Push the locking catches to their ends to ensure that the batteries are securely connected.



Warning

This step is essential for the correct operation of the drone and the FTS. If you do not push the latches as far as they will go, an error message may appear on your DJI radio control system.

Error notifications

DJI RC Plus remote control screen





INSTALLATION

of the FTS system

OPTIONAL


8

If you also have a Kronos parachute for Inspire 3, you can connect the FTS module to the parachute module using the USB-C cable supplied.



The connection between your parachute system and your FTS system provides unlimited autonomy for the parachute system. The parachute system recharges when the drone is switched on. This connection also enables the parachute system to be switched on automatically when the DJI Inspire 3 drone is switched on.

9

Your MOC2511 external FTS for Inspire 3 is operational. 

START-UP

of the FTS system

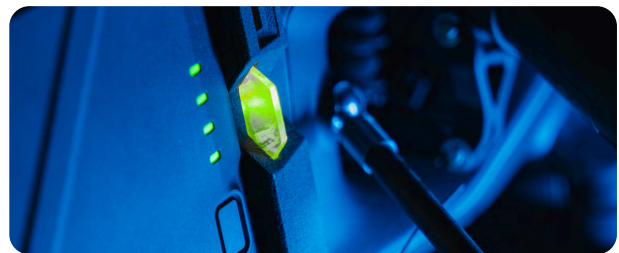
To start the FTS, follow the instructions below in order:

Instructions

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



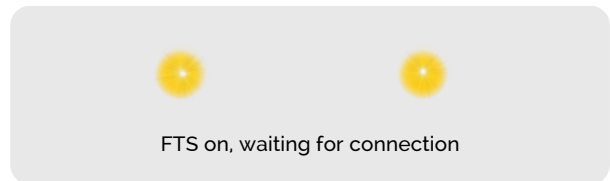
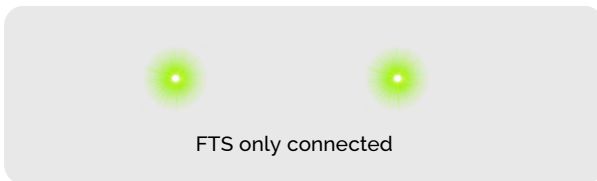
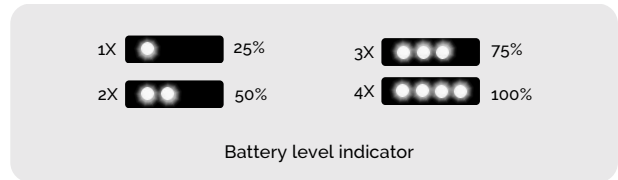
- 2 Switch on your Klick trigger remote control. When the FTS system is properly connected, a green LED flashes on the Klick trigger remote control and on the FTS module.



START-UP

of the FTS system

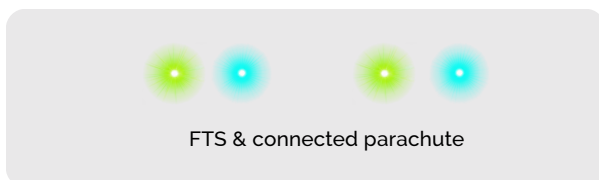
The different LED states



OPTIONAL

If your FTS module is connected to a Kronos parachute system for DJI Inspire 3, a green and turquoise LED flashes on the Klick trigger remote control and on your parachute module.

The different LED states





**YOUR FTS IS ACTIVE
AND OPERATIONAL!**

KLICK

manual activation of the FTS

Consult our Klick user manual



new version

GEOCAGING

automatic activation of the FTS

Discover our solutions now



INCLUDING THE SCALEFLYT GEOCAGING SOLUTION DEVELOPED BY **THALES**

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:

Warning

If your drone is fitted with a parachute, remember to disconnect the cable linking the parachute to the FTS before carrying out the test. Otherwise, the parachute will be deployed at the same time as the engine cut-out.

Instructions

1

Disconnect the cable connecting the parachute to the FTS. Switch on your DJI Inspire 3 drone. Switch on your Klick trigger remote control.



2

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

PROCEDURE

FTS system test

3

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



4

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



STOP

& resetting FTS system

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

Instructions

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



- 2 Switch off your Klick trigger remote control.



DISASSEMBLY

of the FTS system

To dismantle the FTS system, follow the instructions below in order:

Instructions

1

To disassemble the system, simply follow the installation instructions in reverse order. The Klick trigger remote control module can remain installed on the DJI Inspire 3 remote controller without affecting its operation.

RESETTING

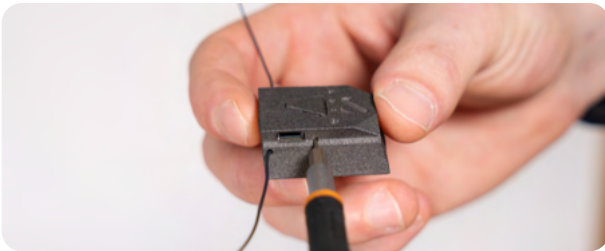
of the FTS system

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

Instructions

1

To reset the Klick trigger 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 your MOC2512 (M2) and MOC 2511 accessories for DJI Inspire 3 in a dry, cool, clean place away from UV light.

SPECIFIC MAINTENANCE

In the event of contact with moisture, chemicals or other substances, the POD must be replaced immediately.

GUARANTEE

Dronavia takes great care in the design and production of its products. We guarantee our PRS and FTS for a period of 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

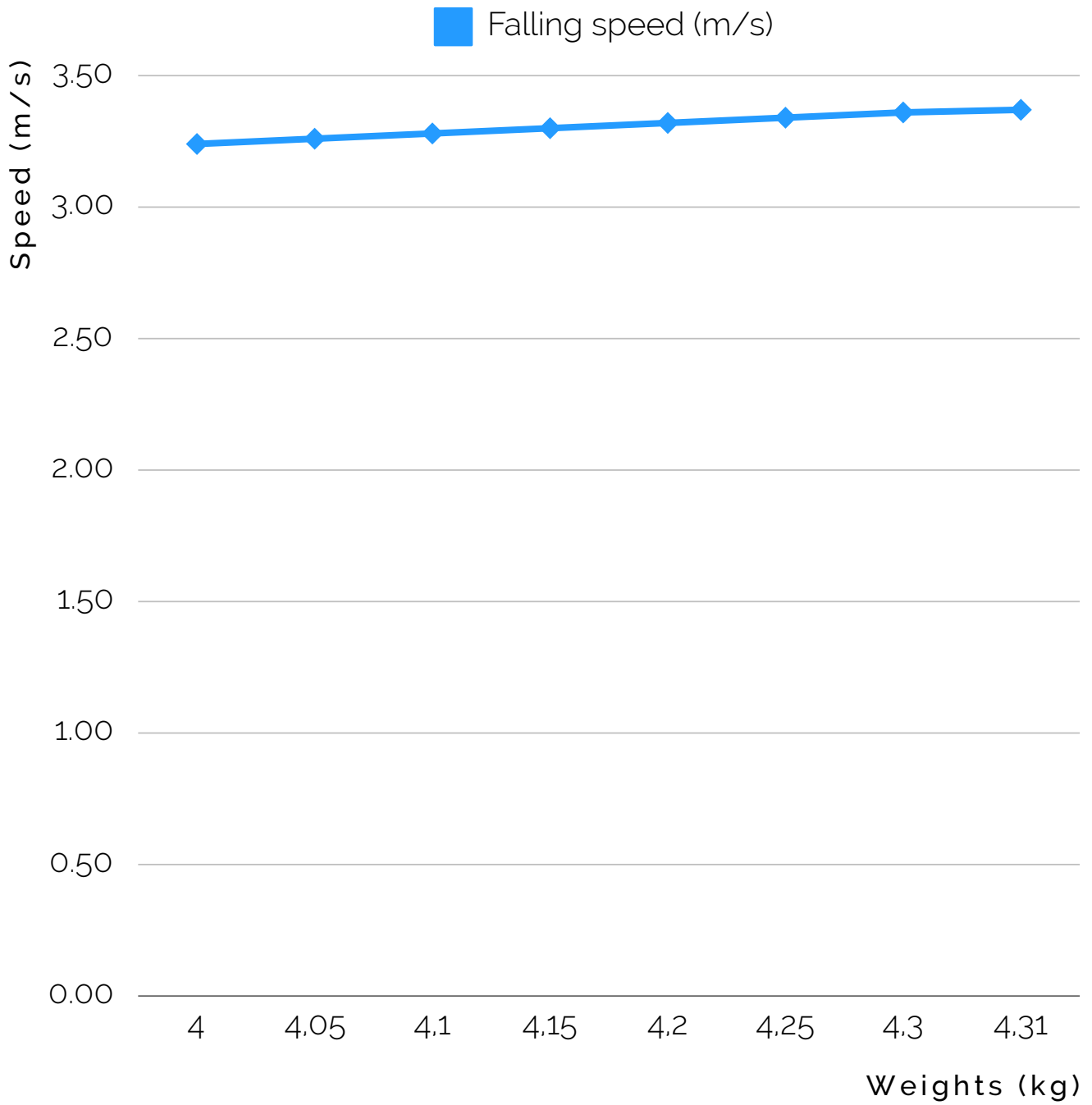


| Dronavia Channel



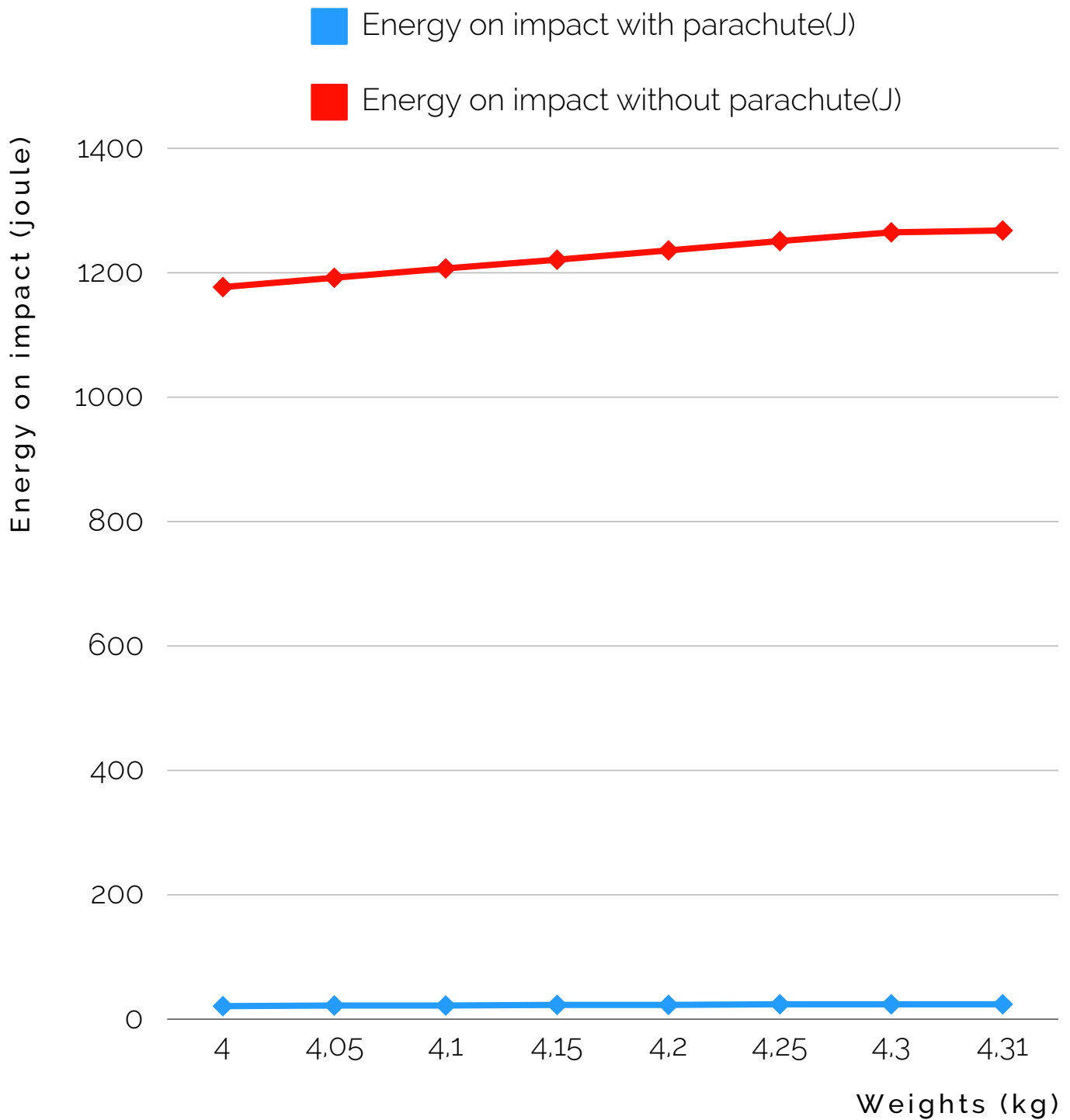
APPENDICES

Falling speed (m/s) X Weight (kg)



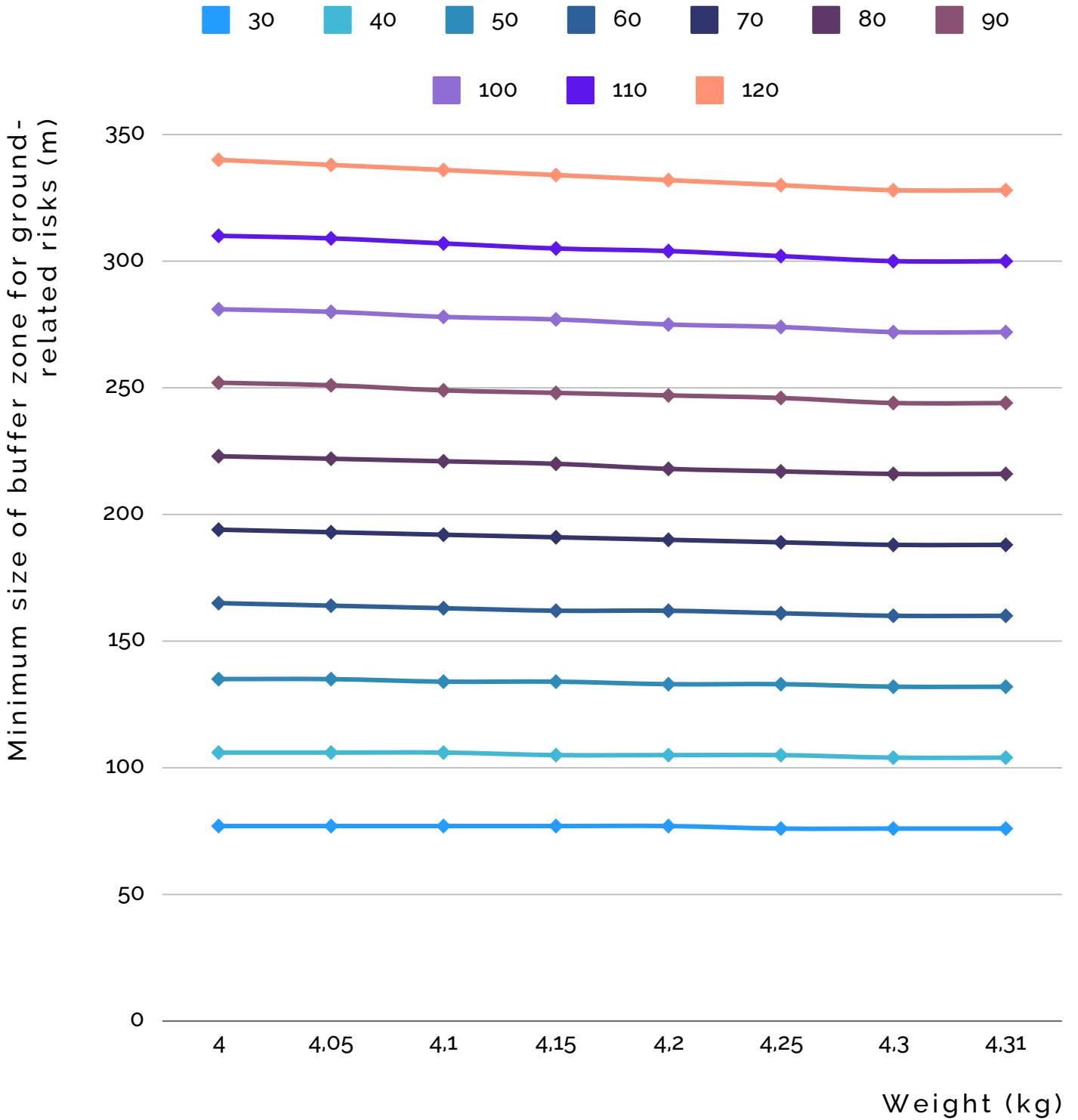
APPENDICES

Impact energy (joule) X Weight (kg)



APPENDICES

Minimum extent of buffer zone for ground-related risks (m) X
Weight (kg) X Deployment height (m)



VERSION NOTE

Version 1.0

Version 1.1 (04/17/24) :

"Parachute system start-up" chapter added
"Parachute system activation" chapter modified:
Removal of manual calibration for autonomous deployment
activation
Added automatic takeoff detection process for autonomous
deployment activation

Version 1.2 (07/01/24):

"Changed the cable (USB-C instead of Micro-USB)
connecting the PRS to the FTS"