



MADE IN FRANCE 



USER'S MANUAL & INSTRUCTIONS

C5 ACCESSORY KIT (PARACHUTE RECOVERY SYSTEM &
FLIGHT TERMINATION SYSTEM) FOR  INSPIRE 3 

WWW.DRONAVIA.COM | +33 (0) 354 400 078 | VERSION 2.2

PRS-FTS-MOC KRONOS AD INSPIRE 3 (C5)

SUMMARY

Kronos Inspire 3 C5 accessory kit

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SUMMARY

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INTRODUCTION

by our CEO

"At Dronavia, we've been developing a wide, innovative range of accessory 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 Recovery Systems (PRS) and Flight Termination System (FTS) has been developed and tested in accordance with the standards imposed by the EASA and the DGAC, to make your drones compliant with C5 class label.

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!



Ludovic Pelletay, Dronavia's CEO.



GENERAL

presentation




Dear customer,

Congratulations on the purchase of your new C5 accessory kit, including a CO2-deployed 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 C5 accessory kit for DJI Inspire 3 and to answer any questions of a technical or commercial nature.

GENERAL presentation



The Kronos PRS for Inspire 3 and the Kronos external FTS for 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 Kronos PRS Inspire 3 and the FTS Kronos external 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.



The Kronos Inspire 3 Parachute Recovery System and the Kronos Inspire 3 Flight Termination System together form an accessory kit developed to transform a C3 class drone into a C5 class drone, while meeting the requirements published by the EASA:

(8) A class C5 UAS may consist in a class C3 UAS fitted with an accessories kit that ensures the conversion of the UAS C3 into a class C5 UAS. In this case, the class C5 label shall be affixed on all the accessories.

An accessories kit may only ensure conversion of a class C3 UAS that complies with point (1) and provides the necessary interfaces to the accessories.

The accessories kit shall not include changes to the software of the class C3 UAS.

The accessories kit shall be designed, and each accessory shall be identified, to ensure a complete and correct installation by a UAS operator on a class C3 UAS following the instructions provided by the manufacturer of the accessories kit.

The accessories kit may be placed on the market independently from the class C3 UAS for which they ensure the conversion. In this case, the manufacturer of the accessories kit shall place on the market a single conversion kit that shall:

(1) not alter the compliance of the class C3 UAS with the requirements of Part 4

(2) ensure compliance of the UAS fitted with the accessories kit with all additional requirements defined in this Part with the exception of point (3) above

and (3) be accompanied by manufacturer's instructions providing:

(i) the list of all class C3 UAS to which the kit can be applied

and (ii) instructions on how to install and operate the accessories kit.



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 Inspire 3 you must read this manual carefully. It provides information on how to use the parachute. 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

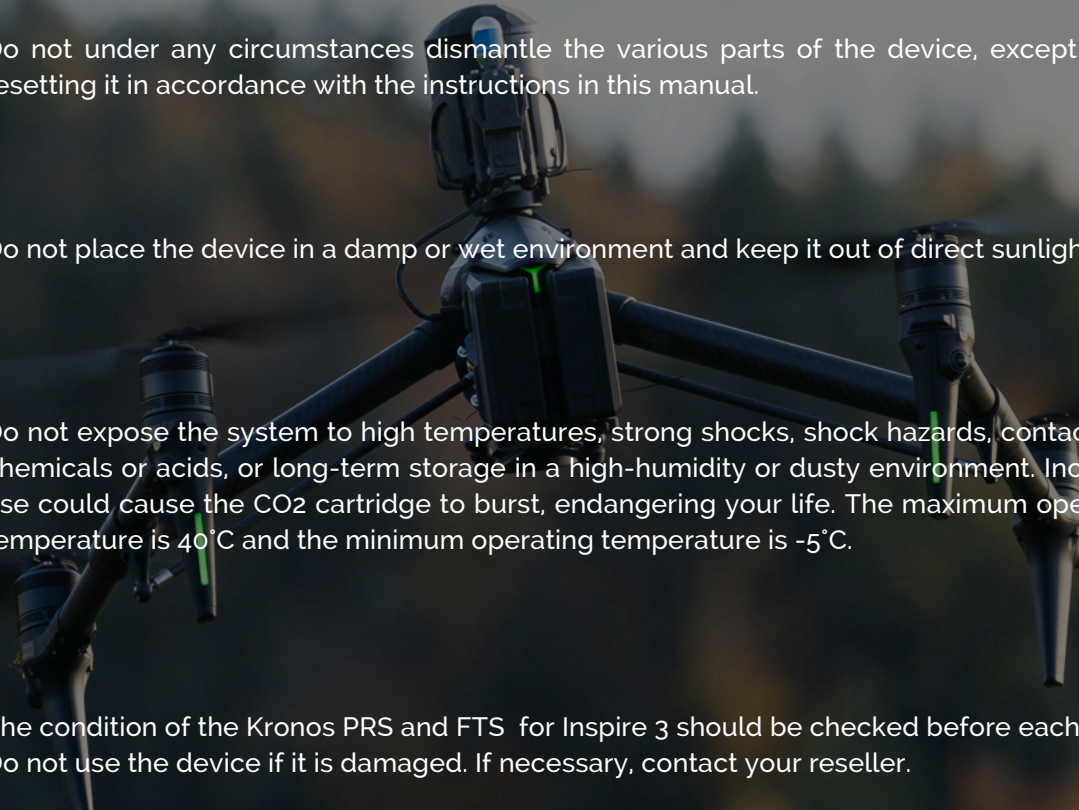
The C5 accessory kit for Inspire 3 consists of 2 safety devices which, under certain conditions, prevent the drone fitted with them from leaving its regulatory flight envelope by cutting the power supply to the engines, and prevent the drone fitted with them from free-falling.

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

LISTING

& accessories identification

PART	QUANTITY	IMAGE	C5 LABEL	DESCRIPTION
PRS	1			The Kronos Inspire 3 plug & play Parachute Recovery System for the DJI Inspire 3 makes your flights safer by slowing your drone's rate of descent and impact energy in the event of a problem. The parachute can be deployed automatically or manually using the Klick trigger remote control.
FTS	1			The Kronos Inspire 3 plug & play Flight Termination System, developed for the DJI Inspire 3, prevents the drone fitted with it from leaving its regulation flight envelope by cutting (manually or automatically) the drone's power supply in less than a second.
KLICK	1			The Klick trigger remote control offers a fast and secure means of remotely deployment your Kronos safety accessories (PRS / FTS). Totally independent of the drone, this lightweight, ergonomic remote control is equipped with LED status indicators and a secure wireless connection. Designed to adapt to the different uses of professional drone operators and different DJI radio controllers, the Klick trigger remote control is supplied with 3 fixing supports.
Accessories: Extending the drone's landing gear	4			The landing gear extensions on the DJI Inspire 3 drone prevent damage to the drone during an emergency landing. The drone's undercarriage extensions are quick and easy to replace.

PART	SOFTWARE VERSION	VERIFICATION METHOD	DIMENSIONS	MASS
PRS	Para_MOC_IA_v1.2	See "System states" on page 17	8 X 12 X 20 cm	376 G
FTS	CC_MOC_I3_v1.0	See "System states" on page 17	7.5 x 9 x 2 cm	78 G
KLICK	Radio_MOC_v1.1	See "System states" on page 17	32 x 28 x 13 mm	20 G
Accessories: Extending the drone's landing gear	/		49 x 24 x 18 mm	3 G

LISTING

of drones compatible with the accessory kit

MODEL	MANUFACTURER	CONFIGURATION	TESTED SOFTWARE VERSION	ORIGINAL C3 DECLARATION OF CONFORMITY
Inspire 3	DJI	Any payload if take-off weight is less than 4.31 KG, kit included	/	See appendix

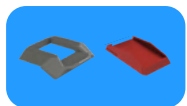
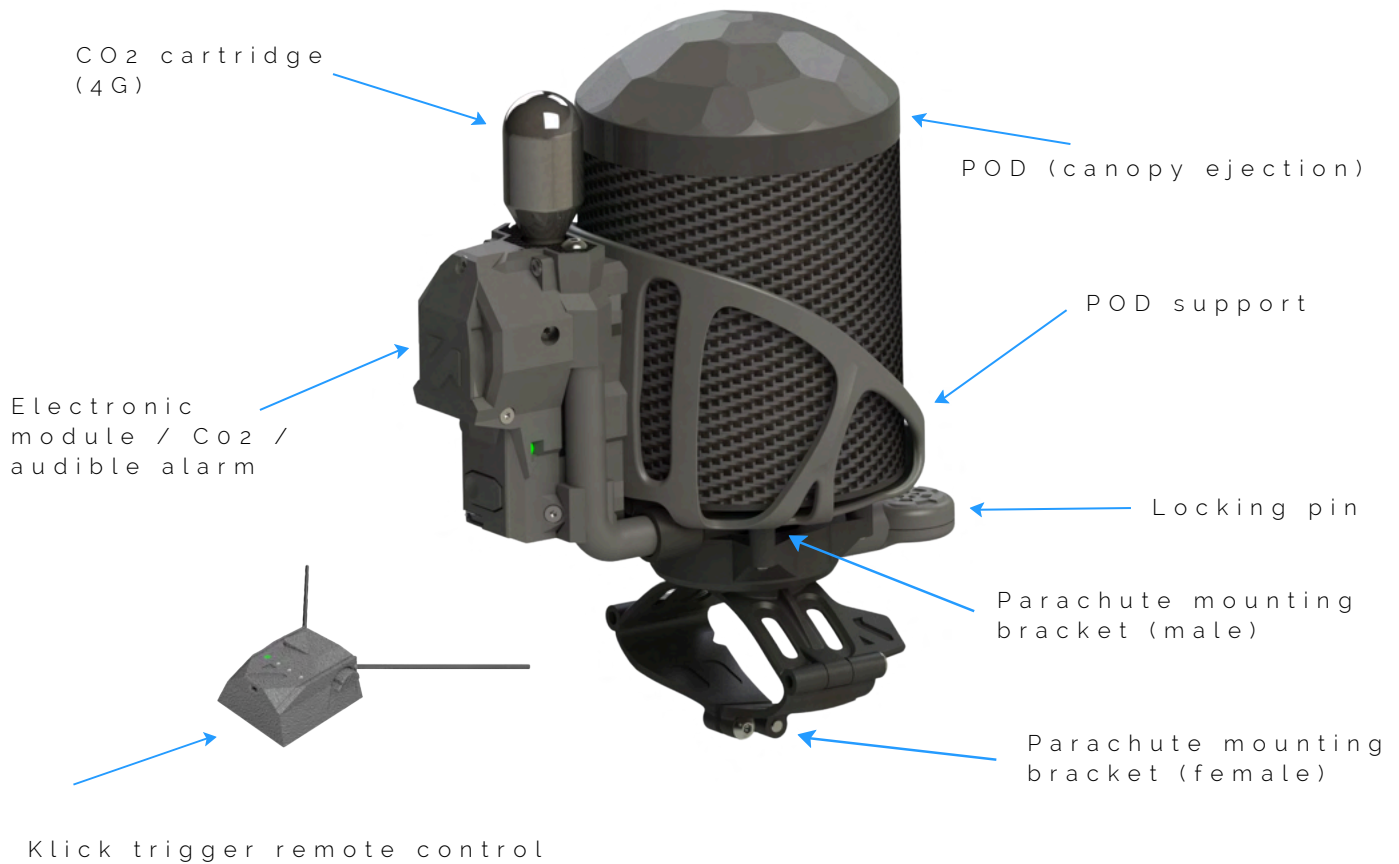


KRONOS SYSTEMS

PARACHUTE RECOVERY SYSTEM FOR **dji** INSPIRE 3 

COMPONENTS

presentation



Klick Set



Klick Pin

ADDITIONAL ACCESSORIES SUPPLIED



Micro USB cable



Allen key
2mm / 2.5mm



Reset tool



Threaded reset tool



Mounting bracket cover



Landing gear extensions

KRONOS B

System image

Kronos Inspire 3
parachute

DJI Inspire 3 drone

KRONOS B

System image



DJI remote controller
for DJI Inspire 3

Klick trigger remote control

ELEMENTS

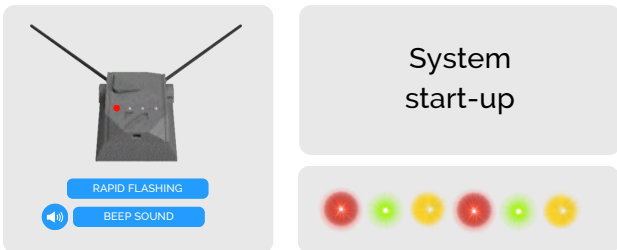
of the parachute system



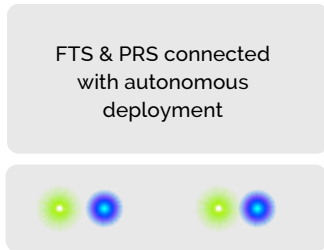
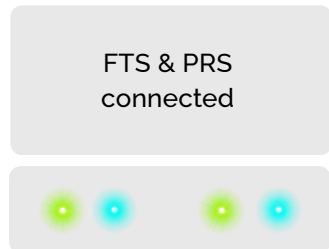
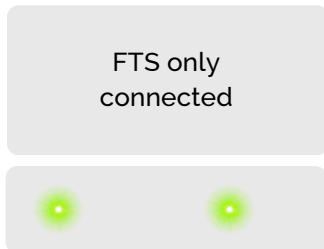
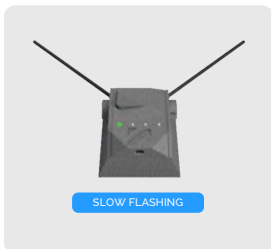
THE STATES

system

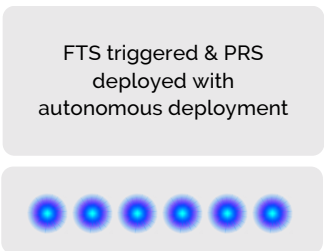
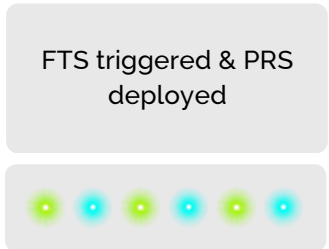
STARTING



CONNECTION




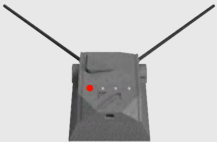
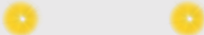
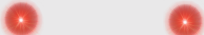
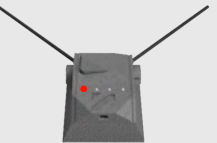
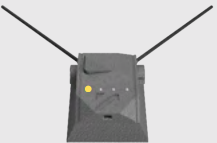


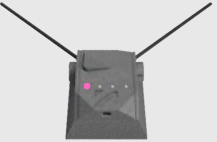

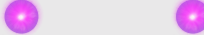

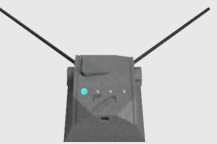
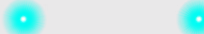
ACTIVATION AND DEPLOYMENT



THE STATES

system

SYSTEM & BATTERY ALERTS


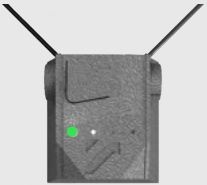
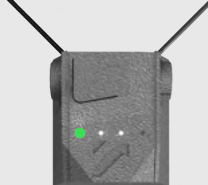
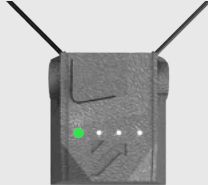


 SLOW FLASHING	No remote control signal (Klick)	 SLOW FLASHING	Low battery
			
 LED STEADY	System error	 LED STEADY	Battery charging
			
 SLOW FLASHING	Signal scrambled	 LED STEADY	Battery charged
			
 SLOW FLASHING	FTS not connected (Only PRS connected)		
			

THE STATES

signal

Four indicator lights let you check the signal level between the Klick trigger remote control and the accessory kit (PRS and FTS). Signal level is defined by the number of indicators lit.

The different LED states

Lost signal	Low signal	Medium signal	High Signal
			
LED STEADY	SLOW FLASHING	SLOW FLASHING	SLOW FLASHING
 LONG BEEP	 DOUBLE SHORT BEEP		

Warning

In the event of signal loss, manual deployment of the parachute system and FTS is impossible. Reduce the distance between your drone and your Klick trigger remote control.

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 KLIK
REMOTE CONTROL

1500 METERS*

PARACHUTE
AUTONOMY

5 HOURS

KLIK REMOTE
CONTROL AUTONOMY

30 HOURS

ENERGY GROUND
IMPACT

< 24 JOULES

OPERATING
TEMPERATURE

-5°C TO 40°C

STORAGE
TEMPERATURE

10°C TO 40°C

*can reach up to 1.5 km, under optimum conditions and in an environment free of obstacles and interference.

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)



OPERATING VOLUME VERTICAL LIMIT	30	76
	40	104
	50	132
	60	160
	70	188
	80	216
	90	244
	100	272
	110	300
	120	328
GROUND RISK BUFFER ZONE		

The ground risk threshold can be calculated as a function of different drone parameters and different assumptions. Please refer to the document dedicated to calculating the ground risk threshold, if you need to calculate more precise ground risk thresholds for your application.



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

In order to protect the drone's feet in the event of an emergency landing, 4 DJI Inspire 3 landing gear extensions are supplied in the kit. Remove the self-adhesive tab before inserting the extensions on the 4 landing gear of the DJI Inspire 3 drone.



7

Your Kronos Inspire 3 parachute is operational. 

8

Each installation must be entered in the "List of installations and de-installations and maintenance operations" section on page 55.

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 75.

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.



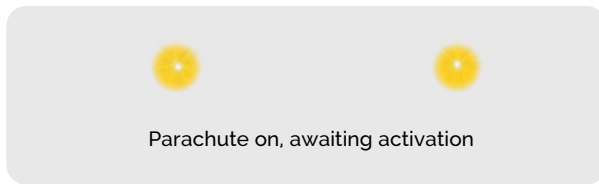
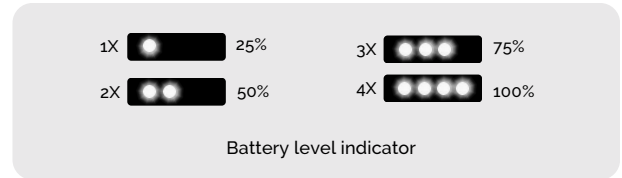
3

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 black drone with a camera and a parachute attached, flying over a forest. The text "YOUR PARACHUTE IS ACTIVE AND OPERATIONAL!" is overlaid in white, with a blue icon 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

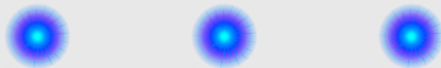
1

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

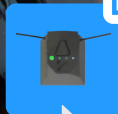
1

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

MODE

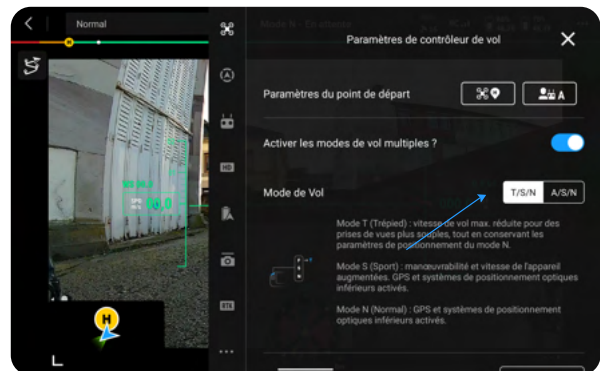
low speed

European EASA regulations require the inclusion of a low-speed mode that can be selected on the drone and activated manually by the drone operator. When low-speed mode is activated, the drone cannot exceed a speed of 5 m/s. To activate the low-speed mode (Mode T), follow the steps below in order:

Instructions

- 1 Switch on your DJI RC Plus remote control.

- 2 Access the camera view, then click on the menu represented by the 3 dots in the top right-hand corner of the screen. Check that the T/S/N flight mode is selected.



MODE

low speed

3

Toggle the flight mode selector on the DJI RC Plus radio control from mode N to mode F. Mode F corresponds to mode T.



MODE

sport

The use of mode S (Sport) when using the C5 accessory kit on the DJI Inspire 3 drone is prohibited. All tests carried out on the Kronos Inspire 3 accessory kit were performed in N (Normal) mode.

Warning

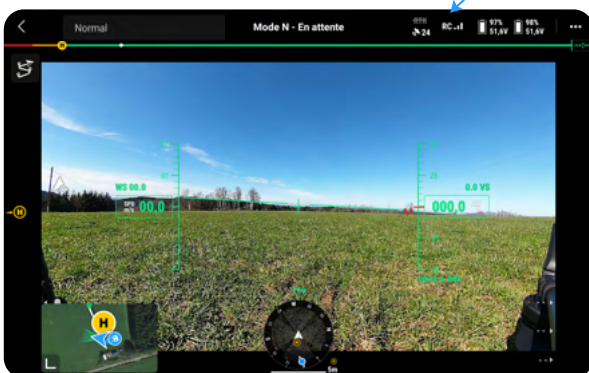
When using the SPORT mode, Dronavia accepts no responsibility for the parachute system not deployment, partially deployment or deployment more slowly.

STATES

of DJI remote controller

Indicators on the DJI RC Plus remote controller allow you to check the signal status between the DJI Inspire 3 drone and the DJI RC Plus remote controller during a flight.

Strong signal



Low signal



STATES

of DJI remote controller

Lost signal



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 FTS 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.



DISASSEMBLY

the complete parachute system

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.



5

Each de-installation must be entered in the "List of installations, de-installations and maintenance operations" section on page 55.

CHECKING

of the parachute system battery

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

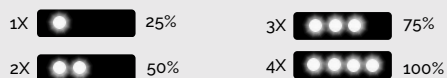
Instructions

1

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



Les différents états LEDs



Battery level indicator

CHARGING

of the parachute system battery

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

Instructions

1

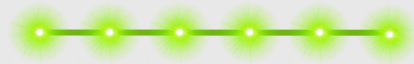
To recharge the parachute's battery, simply connect the USB-C cord supplied to the parachute's USB-C socket located near the ignition button. Then plug the USB-A socket into a computer.



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 standing idle.

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 I3 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 I3 parachute system is deployed during flight, record the following:

UAS Concerned with the activation	Accumulated Flight Hours at activation	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.

LISTING

of installations / de-installations & maintenance operations

To be kept in optimum working order, each parachute system must be monitored for installation, de-installation, firmware updates, preventive or post-deployment maintenance. The following table summarizes the operations to be listed:

Date	Operation	Issues	Operator and signature

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 reset 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 deployed 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 68, 69 & 70.

- 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.



REPLACEMENT

of the CO₂ cartridge

4

Switch on the Klick trigger 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.



6

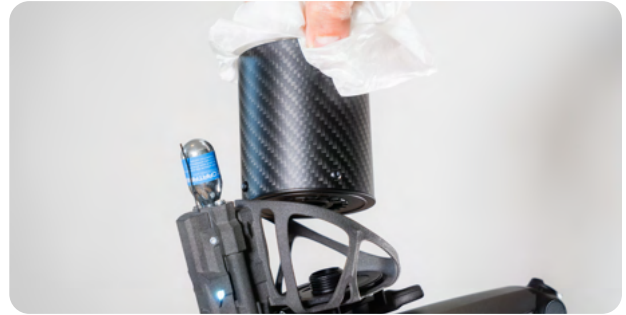
Each CO₂ cartridge replacement must be entered in the "List of installations, de-installations and maintenance operations" section on page 55.

REPLACEMENT

of the POD system

1

Unscrew the deployed 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.



3

For each POD system replacement, please refer to chapter "Listing of installations, de-installations and maintenance operations" on page 55.



 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 CO ₂
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

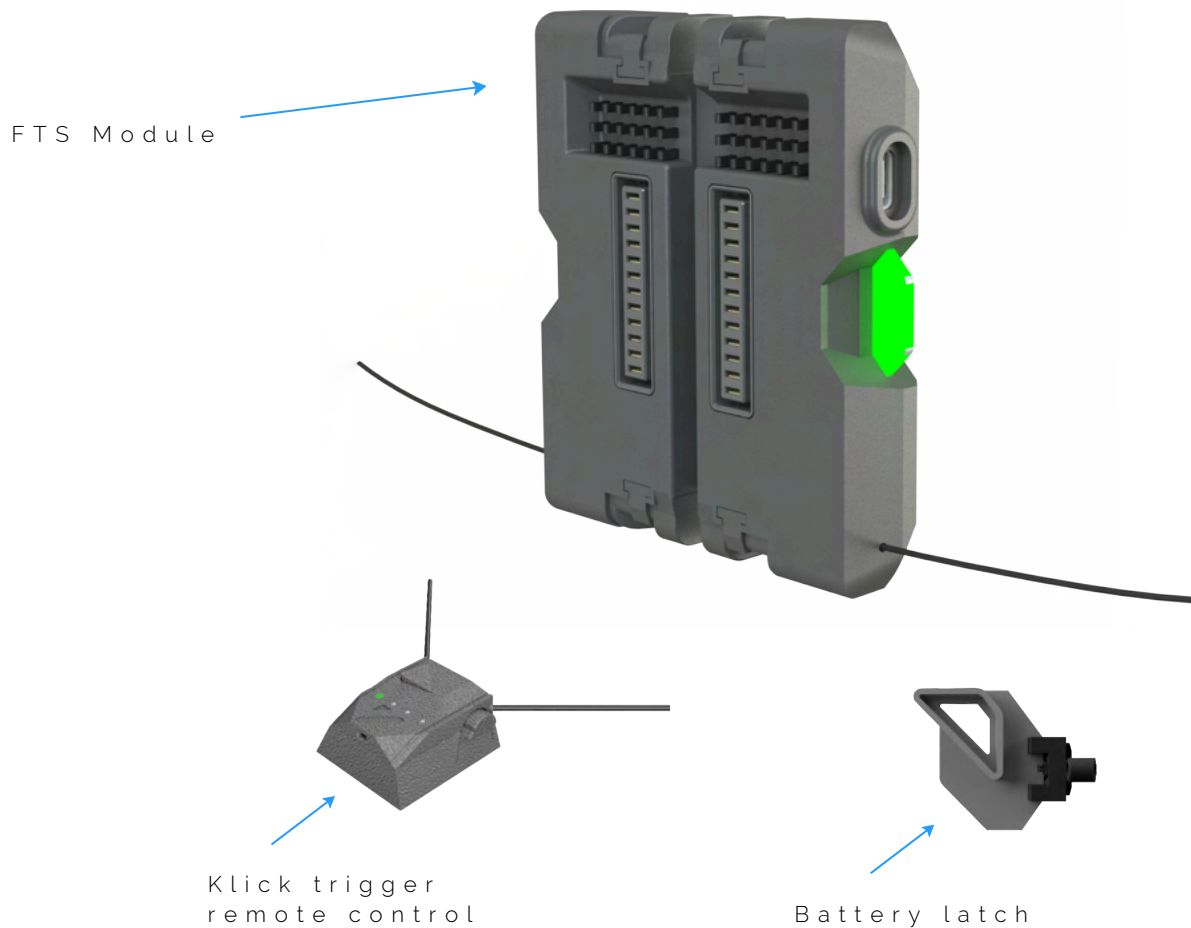


KRONOS SYSTEMS

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

COMPONENTS

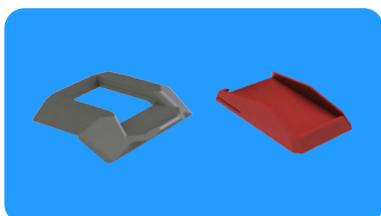
presentation



ADDITIONAL ACCESSORIES SUPPLIED



Micro-USB
cable



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

1500 METERS

AUTONOMY KLIK
REMOTE CONTROL

30 HOURS

OPERATING
TEMPERATURE

-25°C TO 40°C

DESCRIPTION

of the FTS system

Description

The Kronos Inspire 3 FTS, developed for the DJI Inspire 3, prevents the drone equipped with it from leaving its regulation flight envelope by cutting (manually or automatically) the drone's power supply in less than a second.

Installation

The Kronos Inspire 3 FTS is installed between the drone and the drone batteries. Simply insert the module into the battery slot, then insert the drone batteries. The only modification made by installing the FTS on the drone is the battery latch, which must be changed to ensure that the drone's batteries are held securely. Installation is detailed on page 76.

Start-up

To start the Inspire 3 FTS system, switch on your DJI Inspire 3 drone and the FTS system will switch on automatically, then switch on your Klick trigger remote control by pressing and holding the start button on the Klick trigger remote control. When the FTS is properly connected, a green LED flashes on the Klick trigger remote control and on the FTS module. Activation is detailed on page 81.

Activation

In order to keep the possibility of activation at your fingertips and to be as reactive as possible, a simple gesture allows you to cut the motors and deploy your parachute if your drone is equipped with one. Simply press the triangular button on the Klick trigger remote control for at least 1 second. How to activate the FTS is described in detail in the Klick trigger remote control user manual.



INSTALLATION

of the FTS system

The Kronos Flight Termination System for Inspire 3 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 battery latch by clipping it onto the centre of the drone.





INSTALLATION

of the FTS system

3

Insert the Flight Termination System module into the bottom of the battery compartment of the DJI Inspire 3.

1



2



3



4



4

Then insert the two batteries into the DJI Inspire 3 drone, and lock the battery latch by turning it half a turn to the right.

1



2



3



4





INSTALLATION

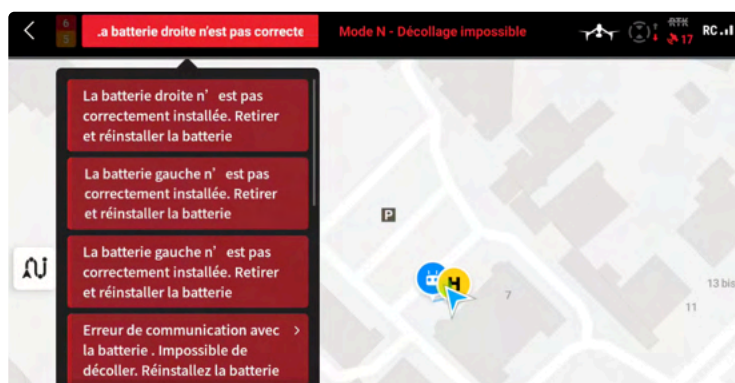
of the FTS system

Warning

This step is essential for the correct operation of the drone and the FTS. If you do not lock the attachment latch, an error message may appear on your DJI radio control system.

Error notifications

DJI RC Plus remote controller screen





INSTALLATION

of the FTS system

OPTIONAL

5

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.

6

Your external Kronos Inspire 3 FTS is operational. 



START-UP

of the FTS system

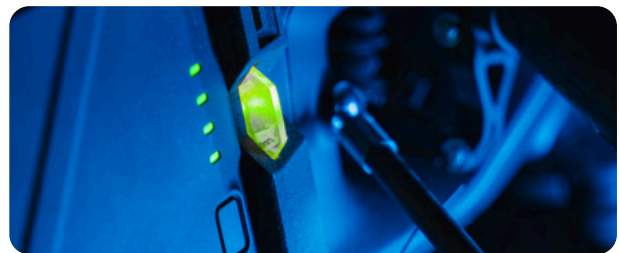
To start the FTS, follow the instructions below in order:

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.





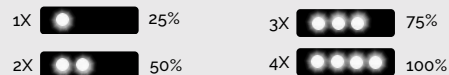
START-UP

of the FTS system

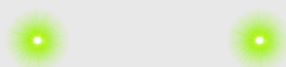
The different LED states



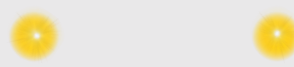
System initialisation



Battery level indicator



FTS only connected

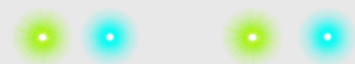


FTS on, waiting for connection

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



FTS & connected parachute



 YOUR FTS IS ACTIVE
AND OPERATIONAL!

ACTIVATION

manual of the FTS system

To activate the FTS manually, observe the following safety instructions:

Instructions

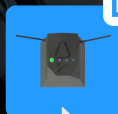
1

Find out how to activate your Kronos Inspire 3 FTS system manually using our user and instruction manual for the Klick trigger remote control.

Klick

manual activation of the FTS

Consult our Klick user manual



new version

ACTIVATION

automatic of the FTS system

To automatically activate your FTS, follow these instructions in sequence

Instructions

1

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



2

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



3

When the parachute system is deployed, the FTS system is also automatically activated, thanks to a wireless connection and pairing between the two systems by Dronavia's experts.

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 Klick trigger remote control 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

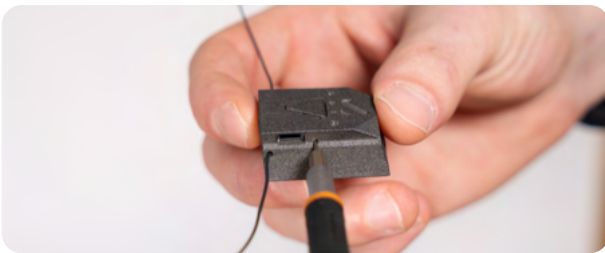
of the FTS system

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 C5 Kronos Inspire 3 accessory kit 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 accessory kit 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 class C5
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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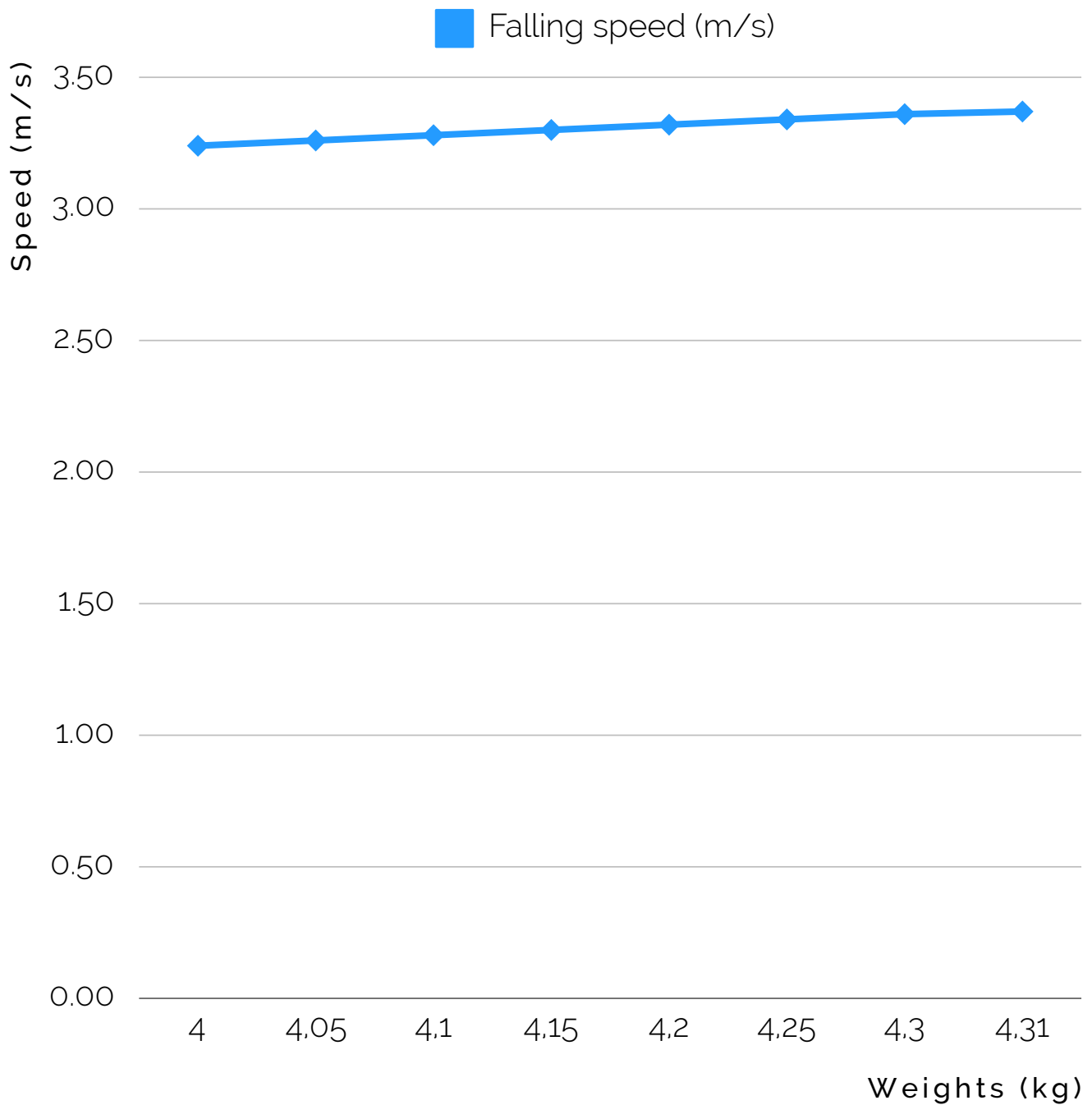


| Dronavia Channel



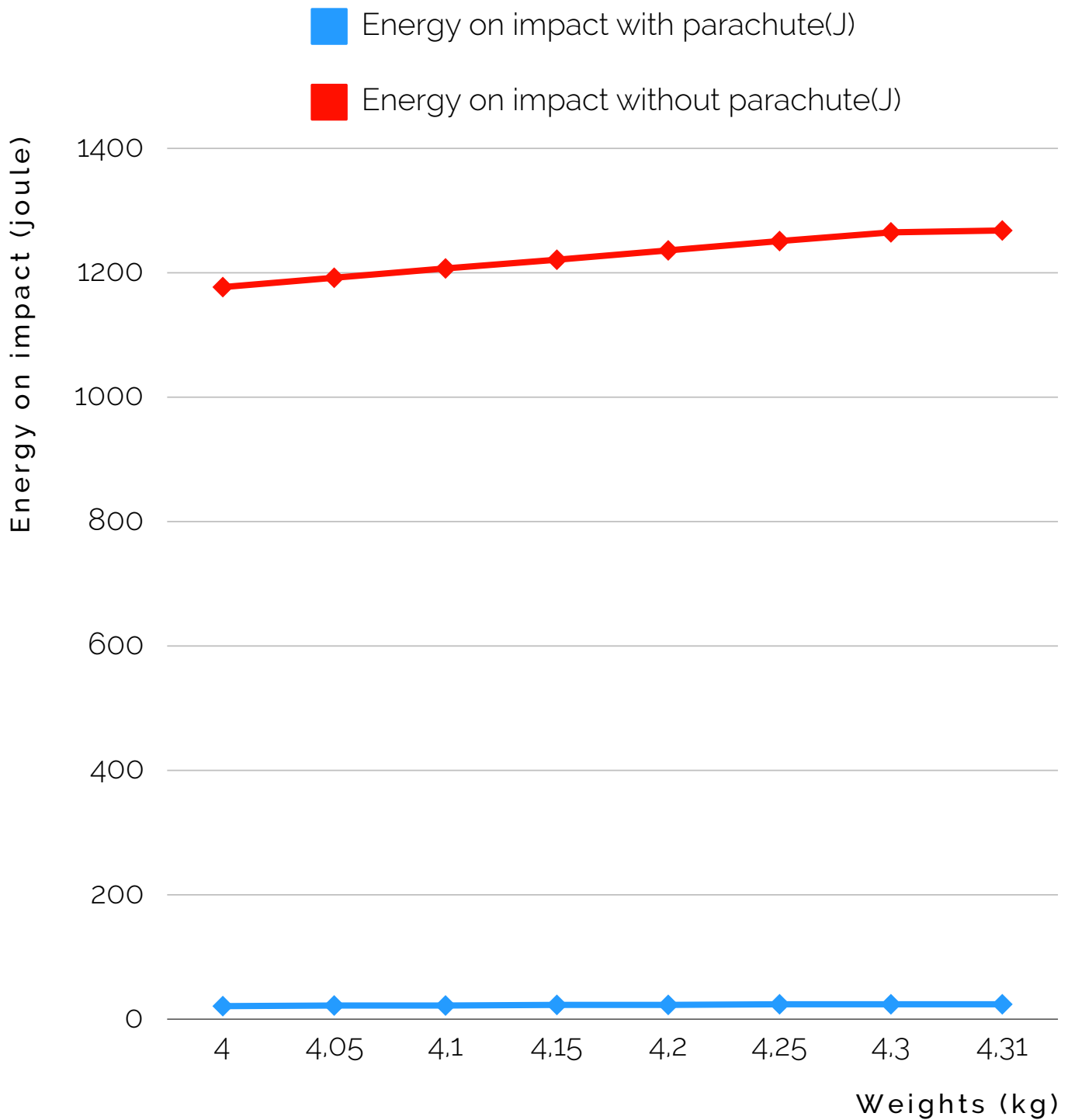
APPENDICES

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



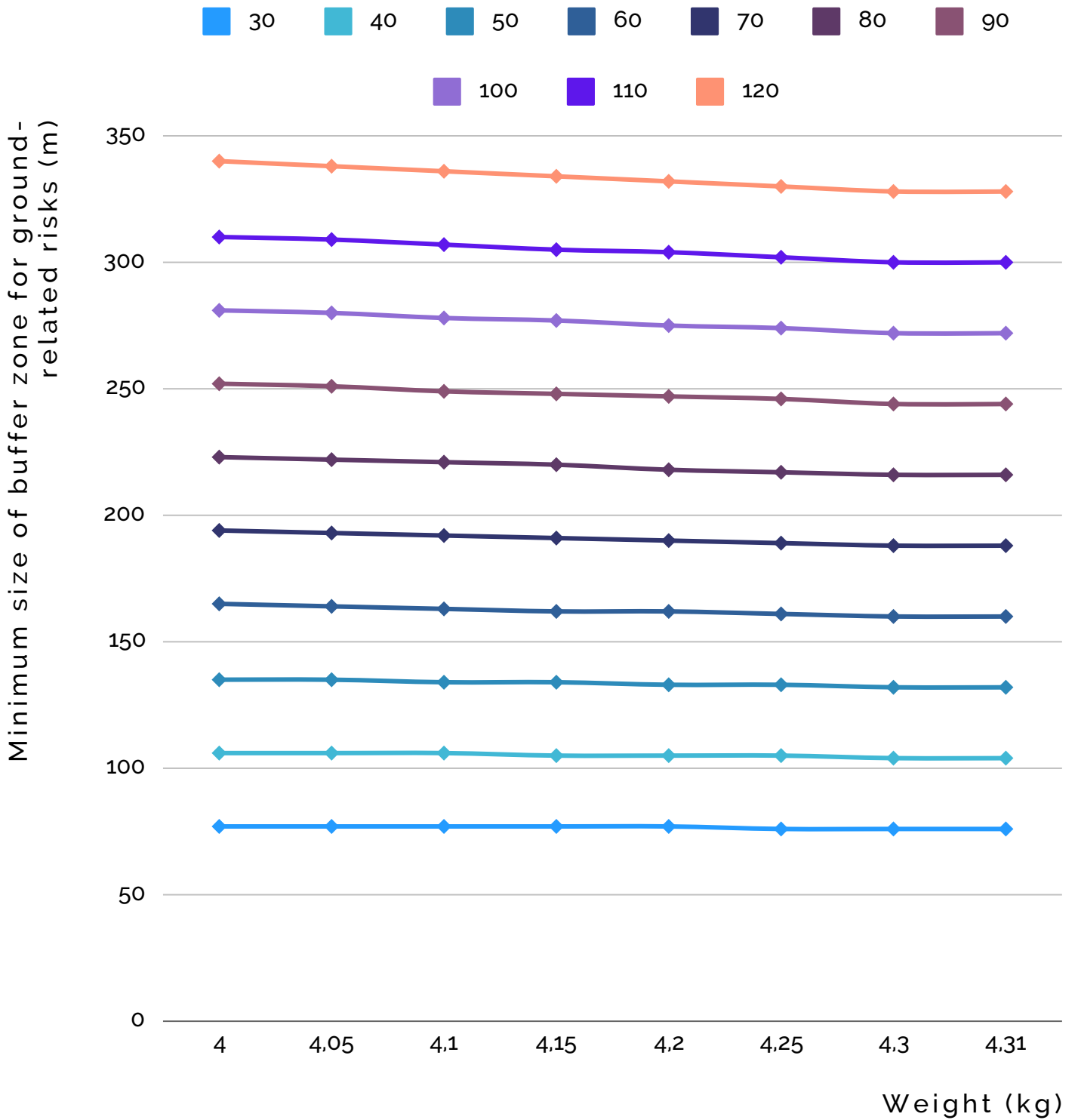
APPENDICES

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 2.0

Version 2.1 (07/01/24):

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

Version 2.2 (04/03/25)

"New battery latch for the installation of the Flight Termination System."