



KopterMax

motor safety cutoff
for DJI Inspire 2

user manual



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specific for DJI Inspire 2

Introduction

Thank you for choosing **KopterMax** motor safety cutoff device for DJI Inspire 2. Please read carefully this informative sheet; we cover the most common questions received from hundreds of customers in the past years, and some important safety instructions are given. In case of doubt, contact us at support@koptermax.com

General safety prescriptions

This product is not a toy! Keep it away from children. Sharp parts could cause injuries, and small bits could be swallowed. Handle with care. Should any sign of damage appear, do NOT use the product, and contact us immediately. Do NOT disassemble or tamper with the product parts unless specifically instructed. **KopterMax** is not responsible for any damage or injury caused by an incorrect operation of the product.

Content of the box

Please check if each of the following parts are present before proceeding:

- 1x motor cutoff device
- 1 x 2,5mm hex key

Installation



REMOVE BATTERIES FROM DRONE BEFORE PROCEEDING

In order to install the **KopterMax** motor cutoff, you need to remove the aircraft nose:

- 1 > with the included 2,5mm hex key, remove the four bolts around the nose cone
- 2 > carefully remove the nose cone from the aircraft body
- 3 > disconnect the two connectors coming from the sides; you need to pinch the tab on the connectors to get them out
- 4 > install the cutoff device by plugging the cables from the drone into the receptacles of the cutoff; insert the cables from the cutoff into the receptacles on the drone. Connectors have 8 and 9 pins, so there's no chance to mix them.
- 5 > seat the device with the back, flat part facing outwards, towards the nose cone
- 6 > reinstall the nose cone with the 4 bolts and the provided 2,5mm hex key
- 7 > route the sleeved control wire out from the side, reaching chute's radio receiver
- 8 > connect the 3-pin servo plug to the radio receiver for parachute; mind the polarity of the connector (black is ground, red is +5v, white is signal) and the supply voltage





MAKE SURE THE CONTROL WIRE IS ROUTED PROPERLY AND DOES NOT INTERFERE WITH THE ARM LIFTING MECHANISMS

Operation procedure

- 1 > ensure both the drone and auxiliary power systems are switched off
- 2 > power on radio transmitters for drone and parachute, and ensure the latter is not armed or in the "deployed" position; if the cutoff is active on drone start-up, motors will not start; you will need to deactivate it and **restart the drone**
- 3 > power on auxiliary power systems for parachute
- 4 > power on the drone
- 5 > once ready for flight, arm the parachute system as per manual
- 6 > take-off and fly as normal

When parachute radio activates the system, motor will be stopped immediately and emit a repeated BEEP; this helps locating the drone in case of descent in high grass. On the DJI GO app, an ESC warning will be thrown; this is normal.

Do not attempt restarting the motors by parachute remote or with the CSC command unless absolutely needed (e.g. parachute failed to deploy); props will start spinning, and risk of entangling the chute wires or causing injuries to people on the ground are real.

After your flight, land in a safe spot and proceed as follows:

- 1 > power off the drone
- 2 > power off parachute and auxiliary power systems
- 4 > power off both radio transmitters

In case your flight terminated with a parachute controlled descent, and hence with the cutoff activated, you will not be able to restart the motors again and take-off. This is a safety measure embedded in DJI ESCs; you need to disable the cutoff by parachute radio and **restart the drone** to get it working again. The restart will clear the ESC error message on DJI GO app too.

Maintenance checks

- > Check regularly that the cutoff works and behaves as expected
- > Check that connectors are securely attached and latched in
- > Should cables present any damage or dent, DO NOT FLY, and contact us
- > Check that no parts are missing, and their appearance is regular

Other indications

If testing the cutoff on the bench, a green LED is visible through the black protective coating, indicating when the cutoff is active and motor stop is engaged.



DOs / DON'Ts

- > DO NOT power the device with any supply different from $5v \pm 2\%$
- > DO NOT disassemble or modify the device in any way
- > DO NOT use the product on aircrafts different from the specified one
- > DO NOT perform any action not specified in this manual
- > DO check the device operation and functions regularly before flying
- > DO ASK support@koptermax.com if you need additional information

Repairing and replacement parts

Repairs should be conducted by authorized personnel only, with adequate instruments. Contact us at support@koptermax.com for repairs and replacement parts.

User responsibility and warranty

This product is subject to one year warranty for factory defects and missing parts.

We give NO WARRANTY if the product is disassembled, tampered or damaged by user intervention.

Technical specifications

- > $5v \pm 2\%$ supply
- > 1mS to 2mS pulse input signal
- > Standard RC interface, easy to integrate
- > 10mS activation time
- > Uninterrupted live video feed / telemetry / GPS position / camera control
- > No DJI warranty loss
- > $-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ operative range
- > Individually tested

About us

KopterMax

a HeliEngadin brand
7500 Sankt Moritz
Switzerland

www.koptermax.com
support@koptermax.com

