FLYING EYE

User Manual

Parachutes & Flight Termination System (FTS)

DJI Mavic 3

Made in France

Summary

FLYING EYE

Automatic parachute
DJI Mavic 3

FLYING EYE

Description

Autonomous parachute system with automatic release in the event of a drone crash.

Weight: 68 g

Detail: x1 Kit de rechargement inclus

Even if drones are operated and maintained correctly, they can sometimes find themselves in severe weather conditions or encounter problems such as loss of GPS signal, technical failure of the motors, radio control failure or loss of GPS signal.

In such critical, emergency situations, immediate activation of a safety device is crucial.

Parachute rescue systems with automatic crash detection can make all the difference compared to human reflexes. The Flying Eye parachute kit can be deployed automatically in these situations, ensuring the safety of your drone, but above all reducing the impact on the ground for the safety of third parties.

Parachute automatique et manuel
DJI Mavic 3

Description

- Manual and automatic parachute release
- DGAC S1-S2-S3 approval.
- The price includes the circuit-breaker module for the Mavic 3 and the approval documents (certificate of conformity and design certificate).
- The circuit-breaker module is internal to the drone
- Compatible with all DJI Mavic 3 models (Pro, Standard, Combo, Ciné and Enterprise 3E, 3T and 3M)

Installation is carried out in our workshop (assembly included in the price).

Contents

- Remote control trip unit
- Fuse module
- Type design certificate
- Type conformity certificate
- Operating and maintenance manual
- Parachute
- 1 recharging kit
- Charger (5V/1A) and USB-C cable

Specifications

- Weight of parachute with attachment: 79g
- Operating frequency: 869MHz
- Range up to 2km
- Remote control: 1800mAh 1S LiPo battery, rechargeable via USB-C
- Autonomie de la télécommande : +30 heures (avec affichage de la charge restante)
- Log function on internal micro-sd card (trip information, date, time, log of voltage and current flowing through the circuit-breaker)

THIS OPTION, WITH OR WITHOUT A PARACHUTE, ENABLES THE MAVIC 3 TO BE APPROVED FOR DGAC SCENARIOS S1-S2-S3. C5 FOR EUROPEAN REGULATIONS

Specifications

- Automatic parachute release by automatic fall detection.
- Secure release by simultaneous double press.
- more 30-hour radio control autonomy (1800mAh li-po battery rechargeable via micro-USB)
- Auto power Off (after 30 minutes without connection)
- Battery level displayed on the remote control
- Firmware update via micro-USB
- Secure remote control switching on and off (like a DJI battery)
- Up to 4 remote controls can be paired per drone
- Two-way link
- Redundancy of power cut electronics
- Encrypted (256-bit) and authenticated frames,
- Maximum take-off weight: 1050g
- Maximum impact energy: 84 Joules
- FTS transmission frequency: 869MHz

Installation

Screw the remote control circuit breaker under the Mavic 3 remote control as shown here :

If the installation has been carried out correctly, you should obtain the following result:

Next comes the installation of the parachute on the drone
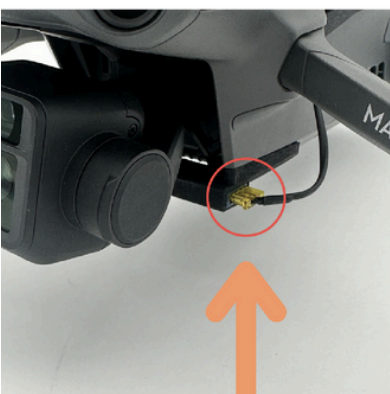
Attach the parachute to the drone

Swivel it slightly to "clip" the bracket into the drone's holes.
Don't hesitate to press lightly on the bracket at the holes until you hear a small "click".

The parachute is now in place, so connect the system to the drone.

All that's left is to switch on the system.

05

FLYING EYE

01 LOADING

Connect the 5V charger to the module. The red LED flashes to indicate charging, then turns green when fully charged (approx. 40 minutes).
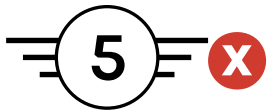

02 START-UP

Before switching on the parachute circuit breaker, align the box horizontally:

-Ignition: 1 short press, then 1 long press (green LED)

Charge level: double-click on USB-C port (system on)

FLYING EYE

5 ❌

ON ⬤

+

OFF ⬤

Automatic
triggering only

5 ✅

OFF ⬤

+

ON ⬤

Manual
triggering only

ON ⬤

+

ON ⬤

Automatic &
manual
triggering

03 **STOP**

Appuyez longuement sur le port tactile Type-c et attendez que la led s'éteigne complètement.

04 **EJECTED PARACHUTE**

The red LED is always on and the buzzer sounds every ten seconds (remaining power must be over 20%).
Switch off the buzzer when you've found the drone.

05 **VISUALIZE PARACHUTE LOAD**

- Press the Type-C touch port twice quickly. to switch on the system
- The green light is always on for one second: power is over 70%.
- The yellow light is always on for one second: power is 40%–70%.
- The red light is always on for one second: power is insufficient, please recharge as soon as possible.
- Use a 5-Volt, 1-Amp charger.
- Does not work with more powerful chargers

User Guide

The unit operates normally between -10 and 40 degrees Celsius; higher temperatures may cause malfunctions. Do not use or store it near a source of high temperature.

Drones attached to equipment are not permitted to fly in flammable and explosive environments. Please choose an open area to fly your drone to ensure safety.

The equipment is only a safety system for drones in emergency situations and not in normal landing mode. Do not abruptly stop your drone deliberately to test the effectiveness of our equipment.

If you notice the lamp flashing red in operating condition (not during charging), please contact customer service immediately to find the cause, and do not install it on the drone for flight during this period.

The product applies only to the drone model specified, and we will not assume any liability for property damage caused by a drone other than the appropriate model.

Remote control

START-UP

To switch on the parachute radio control, press and hold the power button.
The charge level is indicated on the display

TRIGGERING

The parachute is released by pressing the 2 "FIRE" buttons simultaneously.

RADIO CONTROL SCREEN INTERFACE

OPERATING SYSTEM

LOSS OF LINK WITH DRONE

SYSTEM TRIGGERING

MISSING PYRO CHARGE

Warnings & precautions

Flying Eye may suspend the warranty of any person who fails to comply with the basic safety instructions set out below.

Flying Eye declines all responsibility for damage or injury caused directly or indirectly by the use of pyrotechnic cartridges or by the use of pyrotechnic cartridges that do not meet safety requirements and standards.

- It is forbidden to carry out any manipulations other than those specified in the manual.
- The device may only be used by (or under the supervision of) a responsible adult. Always keep the device out of the reach of children.
- Do not place the device in a damp or wet environment, and keep it away from UV light.
- Do not expose the system to high or low temperatures, strong vibrations, shock, chemicals, acids, or long-term storage in a humid or dusty environment. Improper use may cause the pyrotechnic cartridges to explode, endangering your life. The maximum operating temperature is 40°C and the minimum operating temperature is -10°C.

- The parachute cannot prevent the drone from malfunctioning.
- Any flight with a drone implies the existence of a risk for equipment and people in the vicinity, with or without a parachute.
- The use of a parachute should not increase your risk.
- The parachute must be activated manually by the user. Regular training is necessary to ensure that you can react correctly in an emergency.
- The ejection system works only once. It must be returned to your dealer for recharging.

FUNCTION TEST

- Make sure the entire drone system is powered down. Batteries disengaged, automatic module off.
- Disconnect parachute module connector
- Insert battery
- Switch on drone remote control.
- Switch on circuit-breaker/parachute remote control.
- Switch on drone.
- Switch on drone motors.
- Activate the circuit-breaker/parachute system by pressing the 2 red "FIRE" buttons: all four motors stop.
- Switch off the drone
- Switch off both radio controls

FLYING EYE

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