



FLYING EYE

User Manual

Parachutes & Flight Termination System

DJI Matrice 30



Made in France



www.flyingeye.fr



Summary

Description	01
Content	02
Technical specifications	03
Installation	04
Remote control use	16
User Guide	17
Warnings & Precautions	18
Support & Warranty	20

Parachute & Flight Termination System

DJI Matrice 30 T

Description

Manual release parachute

DGAC S1-S2-S3 approval

The price includes the circuit-breaker module for Matrice 30, as well as approval documents (certificate of conformity and design certificate). The circuit-breaker module is external to the drone.

Quick assembly and disassembly



Content

Kit contents

Trigger remote control

Fuse kit

Type design certificate

Type conformity certificate

Operating and maintenance manual

X2 parachutes

Requirements

Compatibility: This kit is specially designed for the DJI Matrice 30 and 30T.

Make sure you're using the right accessories for this model of drone. Carefully follow the installation instructions provided to correctly attach the parachute circuit-breaker to the drone.



Specifications

- Technical specifications: Flysafe M30
- Weight of complete system: 540g
- Windless impact energy: 53 Joules
- Transmission frequency: 869 MHz
- Approved for 4.2kg
- Redundant power cut electronics
- Double release button on remote control
- Safety pin for handling pyrotechnic charges
- Encrypted frames (256 bits) - checksum to authenticate the frame. Two-way association.
- Remote control battery life of 40 hours (1800mAh LiPo battery rechargeable via USB-C)
- Auto power off (after 30 minutes of no connection)
- Battery voltage display on the remote control
- Backup power allowing parachute activation up to 1 minute after a drone power loss
- Firmware update via USB-C
- Secure power on and off for the remote control (similar to a DJI system)
- Ability to pair up to 4 remote controls per drone



Installation

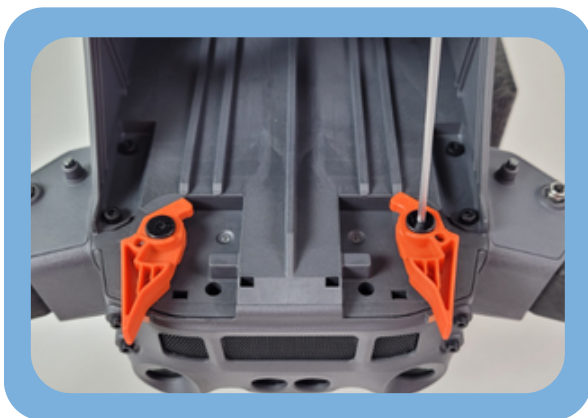
1. Parachute system installation



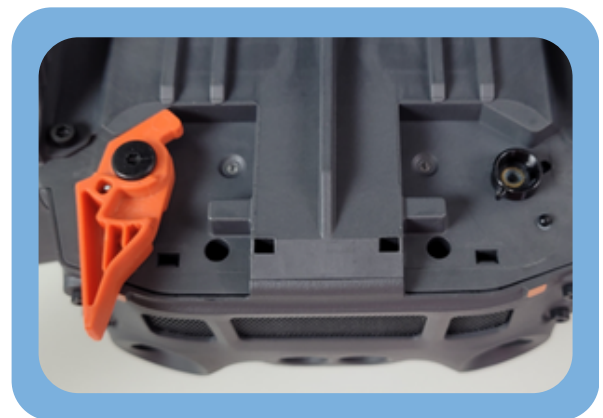
Unfold the drone arms



Turn the drone over and place it on a soft surface



Unscrew the 2 screws on each latch





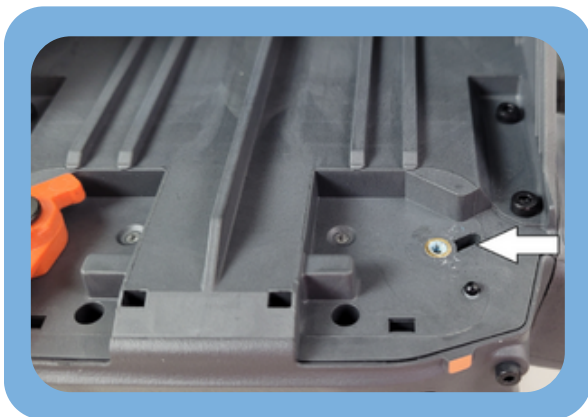
Installation



Take the extended latch on the same side



Turn the spring in the same direction as shown in the photo above.



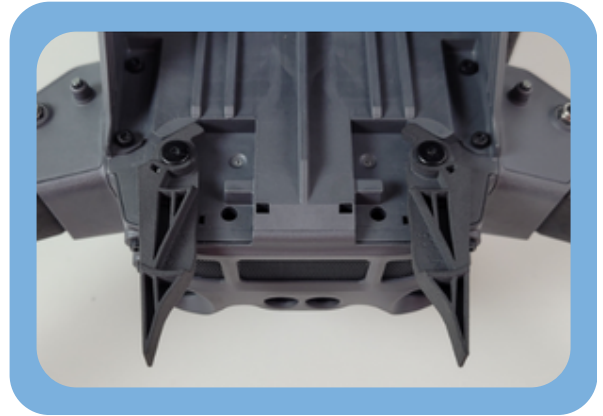
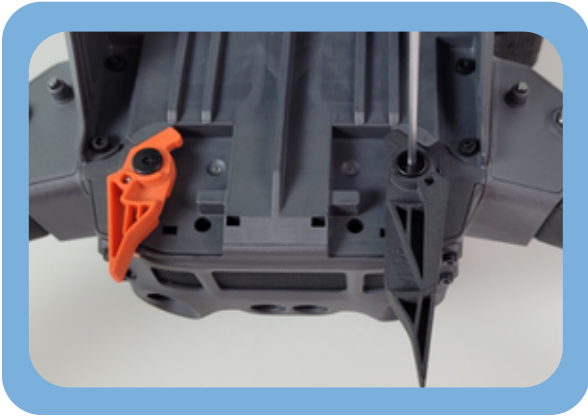
Insert the end of the spring into the hole



Place latch in position



Installation



Screw on and do the same on the second latch



Take the left side of the parachute frame



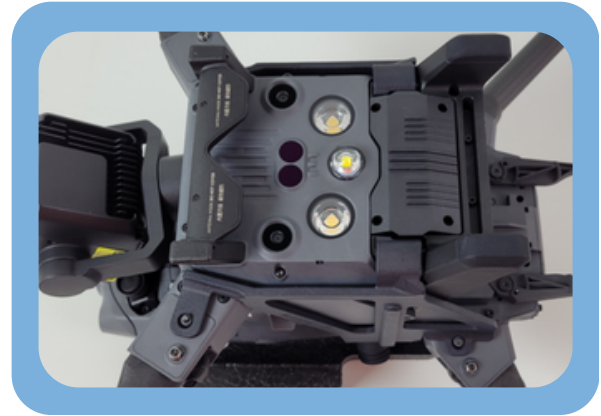
Clip the undercarriage into the landing gear section



Installation



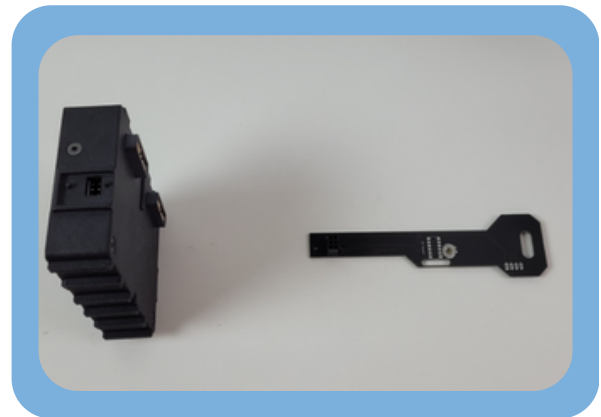
Insert the frame into the 2 holes



Do the same for the second side of the frame.



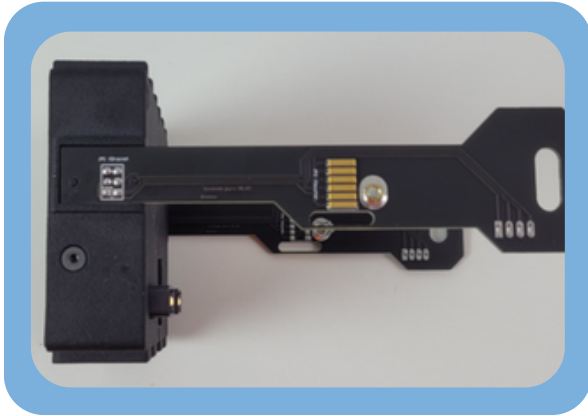
Turn the drone upside down and screw on the top part to assemble the two chassis parts using the M3 x16 screw.



Take the C/C module and the two pyro bonds.



Installation



Getting them into the slots



Release the latches and slide the module into the two battery slots.



Pushing the module to its limits



Fasten with M3 x8 screws in the screw holes on either side of the frame.



Installation



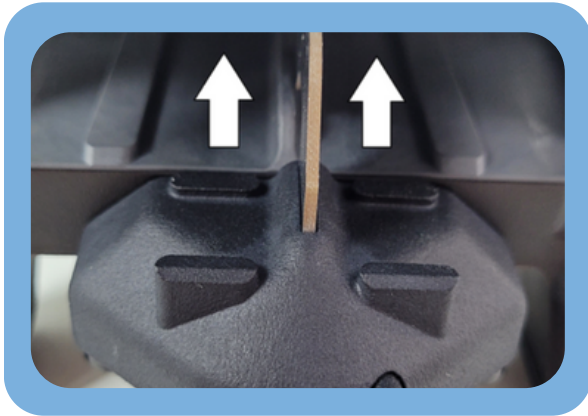
Take the buzzer and place it in its slot



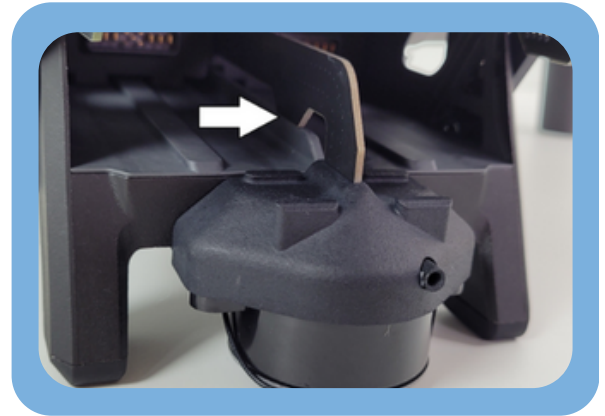
Slightly offset the buzzer



Installation



Reassemble the buzzer so that it is aligned with the landing gear



Align on the edge to allow the batteries to pass through.



Come and put the plugs on the parachute slots



Installation

2. Function test



Remove plugs and insert Test LEDs



Insert batteries and close latches



Switching on the drone



Installation



Insert the key into its slot

1. Switch on drone remote control
2. Switch on parachute remote control
3. Remove buzzer key
4. On the remote control, a green tick symbol indicates that the parachute system is activated.
5. Activate the system by pressing the 2 red "FIRE" buttons
6. The motors cut out, the LEDs light up and the buzzer sounds.
Then remove the drone's battery to stop the system.



Installation

3. Setting up loads and parachutes



Remove previously installed Test LEDs



Insert loads instead (there's a coding device)



Do the same for the second side



Installation



Then screw on the 2 parachute pods on each side.



The system is now correctly installed



Installation

4. Before Flight

- a) Insert key into buzzer
- b) Switch on drone, drone radio and remote control circuit breakers
- c) The “parachute” symbol is displayed on the remote control
- d) Remove the key, and you'll see a green tick on the circuit-breaker remote control.
- e) You're ready to take off

5. After Flight

- a) Replace the key in the buzzer
- b) “Parachute” symbol appears on circuit-breaker remote control
- c) Switch off drone, radio and RCU
- d) Remove key



Do not leave loads or batteries on the circuit breaker after use.



Remote control use

Start-up

To switch on the circuit-breaker remote control, press and hold the power button.





Remote control charge level

Battery level is displayed directly on the remote control screen

Triggering

The parachutes are triggered by pressing the 2 "FIRE" buttons simultaneously.



-  OPERATIONAL SYSTEM
-  LOSS OF LINK WITH THE DRONE
-  TRIGGERING THE SYSTEM
-  PYRO CHARGE MISSING

REMOTE CONTROL SCREEN INTERFACE



User Guide

Pre-flight check:

Before each flight, make sure the circuit-breaker system is correctly powered. Check the dedicated battery or the connection to the drone's main power supply.

Maintenance and care

Cleaning: After each use, use a soft, dry cloth. Avoid solvents or chemicals that could damage materials.

Storage: Store the parachute circuit-breaker in a dry place away from direct sunlight when the drone is not in use.

Purpose of Flying Eye maintenance:

Mandatory annual canopy inspection

Annual load replacement

Parachute inspection :

- Parachute fabric
- Cables and lines
- Correct packing



Warnings et 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 comply with 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 -15°C.

Warnings & Precautions

Check that the parachute system is in good condition before each use. Do not use the device if it is damaged or malfunctioning. If necessary, contact your dealer.

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 essential if you are to react correctly in an emergency. To ensure the safety of your equipment and of third parties, you should regularly perform dummy ground drills using the test LEDs.

The ejection system works only once. It must be returned to your dealer for recharging.



Support & Warranty

Technical support

If you encounter any difficulties during installation, or have any further questions about using the parachute circuit breaker, please contact Flying Eye technical support.

Warranty

The parachute circuit breaker for DJI Matrice 30 is covered by a 12-month warranty according to the conditions of purchase. The warranty covers manufacturing defects, but does not apply to damage caused by incorrect installation, accident or improper use.



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