Mobula6 2024 Frame

Spare frame for a 65 mm FPV whoop
User manual



Read the entire manual before assembly and keep it for future reference.

www.rotorama.com

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1. Product description

1.1 What it is for

The Happymodel Mobula6 2024 frame is a spare part for the Happymodel Mobula6 2024 and Mobula6 ECO 2024 65 mm FPV whoops. It is a one-piece lightweight frame with integrated protective ducts around the propellers that carries the flight controller (FC) and the motors and protects the propellers on contact with an obstacle.

Use it for repairs when the original frame breaks or deforms after a crash, or as the basis for building your own 65 mm brushless whoop. The frame is available in two colour versions – transparent black and transparent white; the versions differ only in colour and this manual applies to both.



Mobula6 2024 frame in an assembled Mobula6 2024 drone (manufacturer's illustration photo).

1.2 Technical data and package contents

Product designation	Happymodel Mobula6 2024 Frame
Intended for	Mobula6 2024, Mobula6 ECO 2024
Wheelbase (diagonal)	65 mm
Weight	2.8 g
FC mounting holes	25.5 × 25.5 mm
Compatible motors	brushless 0603 / 0702 / 0802
Propellers	31 mm, three-blade or four-blade
Colour versions	transparent black, transparent white
Package contents	1× Mobula6 2024 frame

※ NOT included in the package: flight controller, motors, propellers, camera, canopy, screws or battery.

2. Use

2.1 Safety during work

- **Disconnect the battery** before doing any work on the drone. The motors may spin up unexpectedly.
- Do not fit the propellers during assembly – fit them only after checking the motor rotation direction.
- Work in a clean, well-lit place; small screws are easily lost.
- Tighten the screws gently. The plastic mounts of the frame can be damaged if a screw is overtightened.
- Keep the frame and the assembled drone away from children without adult supervision. Small parts can be swallowed by a child.
- **Operation of the assembled drone** is governed by the drone's manual and the applicable rules for unmanned aircraft. The law of the country in which you operate the drone is always decisive.



Mobula6 2024 frame – top view (transparent black).

2.2 Replacing the frame

The following procedure describes transferring the electronics from a damaged frame to a new one. When building a new drone, proceed in the same way from step ④.

Components recommended by the manufacturer: 0702 brushless motors, ELRS F4 2G4 or SuperX ELRS flight controller, 31 mm propellers (three-blade or four-blade), 1S Li-Po / LiHV 300 mAh battery.

① Disconnect the battery and remove the propellers.

② Remove the canopy with the camera and the video transmitter antenna. If the camera is in a mount, leave it there.

③ Unscrew the flight controller (FC) from the frame and then unscrew the motors. Keep the screws, you will reuse them in the new frame. Do not disconnect or

shorten the motor wires unless necessary.

④ Screw the motors into the mounts of the new frame. Make sure each motor is in the same position (front left, front right, rear left, rear right) as in the original frame, otherwise the motor order relative to the flight controller settings will change.

⑤ Place the flight controller into the mounting holes and screw it in with the arrow pointing in the direction of flight (forward), just as in the original frame.

⑥ Route the motor wires along the frame arms so that they cannot reach a propeller or rub against a sharp edge.

⑦ Refit the canopy with the camera and check that neither the video transmitter antenna nor the battery lead protrudes into the propeller area.

2.3 Check after assembly

- Without propellers fitted, connect the battery, connect the drone to a computer and in Betaflight on the *Motors* tab check one by one that the correct motor spins and that it spins in the correct direction.
- Fit the propellers according to the motor rotation direction and press them firmly onto the shaft.
- Turn each propeller by hand – it must not touch the wall of the protective duct or any wires.
- Before the first flight, perform a short test hover in a safe area and watch whether the drone oscillates and holds its position.

2.4 Frame care

- After a crash, check whether the arms, motor mounts or protective ducts are cracked or permanently bent. Replace a damaged frame – a crack can cause vibrations or loosening of a motor in flight.
- Do not expose the frame to high temperatures (e.g. in a car in the sun) or to direct contact with hot components.
- Clean with a dry or slightly damp cloth; do not use solvents.

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

3.2 Disposal

- The frame is a stand-alone plastic part without electronics or battery.
- Dispose of an unneeded or damaged frame in the separated waste for plastics, or hand it over at a collection yard according to the rules of your municipality.
- Electronic parts removed from the drone (flight controller, motors, camera) and batteries do not belong in the plastics waste – hand them over at a take-back point for electrical equipment and batteries.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.