Calypso – Parts

Spare parts for the Rotorama Calypso frame
User manual



Read the entire manual before replacing a part, and always disconnect the battery and remove the propellers first.

www.rotorama.com

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1. Product description

1.1 Intended use

Rotorama Calypso – Parts are individual parts of the Rotorama Calypso frame, Rotorama's own frame for FPV quadcopters with 3" and 5" propellers. Each part type is sold separately, so after a crash you replace only what was actually damaged – typically a broken arm.

You can use the parts as spares when repairing your drone, or build a frame to your own requirements – for example by choosing 3" or 5" arms, Deadcat arms, or a bottom plate for a different electronics mounting pattern.



Calypso frame in use – red SMA antenna mount on the rear standoffs of the frame.

1.2 Specifications and package contents

The product is sold in variants by part type (for an overview of variants see chapter 2.1).

Product designation	Rotorama Calypso – Parts (type according to the selected variant)
Compatibility	Rotorama Calypso 3" and Calypso 5" frame
Material of arms, plates and side plates	carbon fibre composite
Arm thickness 3" and 5"	4 mm
Side plate thickness	3 mm
Top and bottom plate thickness	2 mm
Arm mounting	2 M3 screws and locks in the side plates (front)
Motor mounting (5" arm)	M2 holes on a 12 mm diameter circle
Package contents	1× part of the selected type
Not included	motors, electronics, propellers, battery, other frame parts and 3D printed mounts (except the SMA Mount variant); screws are included only in the Hardware variant



Calypso 5" frame from below – arms, bottom plate and front side plates.

2. Use

2.1 Choosing the right part

- Choose the arms according to the size of the frame you are repairing (3" or 5").
- Deadcat arms are ordered separately as front and rear. Check which arm is damaged.
- Choose the bottom plate according to the mounting hole pattern of the flight controller (FC) and the electronic speed controller (ESC): 20×20 mm or 25×25 mm.
- Side plates are sold as a pair.

▶ Variants (part type)

Type	Purpose
Arm 5"	arm for the Calypso 5" frame
Arm 5" Deadcat – front	front arm for the Deadcat layout
Arm 5" Deadcat – rear	rear arm for the Deadcat layout
Arm 3"	arm for the Calypso 3" frame
Top plate	top plate of the frame
Bottom plate 20x20	bottom plate of the frame for electronics with 20×20 mm mounting pattern
Bottom plate 25x25	bottom plate of the frame for electronics with 25×25 mm mounting pattern
2x side	pair of front side plates that protect the camera
Hardware	hardware for assembling the frame
SMA Mount – Red	antenna mount for the rear standoffs of the frame

A complete Calypso 3" or 5" frame contains 2× arm, 1× top plate, 1× bottom plate 20x20, 1× pair of side plates, 1× hardware set and 1× SMA antenna mount.

2.2 Replacing a part

① Disconnect the battery and remove all propellers.

② Loosen the screws holding the damaged part. An arm is held by two M3 screws; the front arms are additionally secured by locks in the side plates, so it may be necessary to loosen the side plates as well.

③ When replacing an arm, unscrew the motor and carefully route its wires out of the frame. Do not cut the wires or pull them by the solder joints.

④ Inspect the new part: it must have no cracks or frayed edges.

⑤ Seat the part in place and tighten the screws evenly and with care – an overtightened screw can damage the carbon part.

⑥ Reinstall the motor and other components, check that the motor spins freely and that the wires do not rub against the carbon edges anywhere.

⑦ Before the first flight, fit the propellers only after checking the motor rotation direction.

2.3 Frame build tips

- The frame fits **two 20×20 mm stacks** one behind the other. They are mounted in oval slots, so their position can be adjusted so that both fit comfortably.
- There is a cutout under the front stack for placing a capacitor.
- The distance between the top and bottom plate is 24 mm.
- A 3D printed part, for example an HD camera mount or a GPS mount, can be fitted on the top standoffs. Models for 3D printing are available at www.thingiverse.com/thing:4573219.
- The antenna mount is placed on the rear standoffs. The SMA antenna mount is designed for an SMA pigtail or for the antenna supplied with the Caddx Vista.



Assembled Calypso 3" frame.

3. Safety and care

- Before any work on the drone, **always disconnect the battery** and remove the propellers.
- Carbon fibre composite is **electrically conductive**. Wires, solder joints and electronics must not touch the edges of the frame; sharp edges can wear through insulation and cause a short circuit.
- Do not sand or drill the parts without protection. Carbon composite dust irritates the skin and respiratory tract – work wet, with a respirator and safety glasses.
- After every crash, inspect all frame parts. Replace a cracked or frayed arm – it may break in flight.
- Regularly check that the screws are tight; vibration can loosen them.
- Keep small parts and screws out of the reach of children – choking hazard.
- This product is a part for building an FPV drone. When operating the drone, comply with the regulations of the country in which you fly.

❊ An assembled drone with spinning propellers can cause serious injury. This product is not a toy and is not intended for children.

4. Information for the EU and Czech Market

4.1 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

4.2 Disposal

- Frame parts are not electrical equipment and are not subject to the take-back of electrical equipment.
- Do not put damaged carbon composite parts into separated waste (plastics). Dispose of them according to your local rules, for example at a municipal collection yard.
- Metal hardware can be disposed of as metal waste.
- Sort the packaging by material (paper, plastics).

5. Warranty and rights arising from defective performance

5.1 Rights of the buyer under Czech law

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 4.1.
- 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.