Aluminium GPS Mount

Folding mount for GPS and compass modules
User Manual



Read this entire manual before installation and keep it for future reference.

www.rotorama.com

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1. Product description

1.1 What it is for

The aluminium GPS mount is used to install a GPS module on a drone in a raised position. Some GPS modules also include a compass (magnetometer). For the compass to work correctly, it must not be disturbed by surrounding magnetic fields – these come mainly from power wires, electronic speed controllers (ESC), motors and the battery. The mount therefore places the module further away from the electronics, a little above the drone. In the raised position, the GPS antenna also has a clearer view of the sky and therefore better signal reception.

The mount is **foldable**: fold it down for transport so that it is out of the way and cannot be bent, and unfold it again before flight.



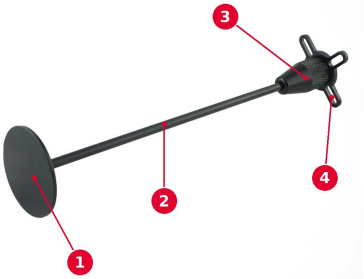
Aluminium GPS mount

1.2 Specifications and package contents

Product designation	Aluminium GPS Mount (Hliníkový držák GPS)
Product type	folding mount for GPS / compass modules for drones
Material	aluminium (according to the product designation)
Colour	black
Frame mounting	base with four arms with slotted holes
GPS module mounting	round plate at the end of the rod
Package contents	1× GPS mount
Not included	GPS module, screws and nuts, double-sided adhesive tape, cable ties

2. Use

2.1 Parts



Parts of the mount

① Round plate for the GPS module

② Rod (mast)

③ Knurled collar of the folding joint

④ Base with slotted arms for screwing to the frame



Base – slotted arms fit different frame hole spacings

2.2 Choosing the position on the drone

- Place the mount as far as possible from power wires, electronic speed controllers (ESC), motors, the battery and the video transmitter.
- Neither the rod nor the GPS module may reach into the path of the propellers – in either the unfolded or the folded position – and they must not block the camera's view.
- Attach the base to a rigid, flat part of the frame, typically the top plate.
- Before final tightening, check the folding direction so that the folded rod does not lie across the propellers or antennas.

2.3 Mounting the base

① Disconnect the battery and remove the propellers.

② Place the base (④) on the frame and rotate it so that the slotted holes in the arms line up with the holes in the frame.

③ Screw the base on with screws and nuts (not included). Choose the screw size according to the holes in the frame.

④ Tighten the screws so that the base does not move, but without damaging the frame. For metal-to-metal joints you can use a medium-strength threadlocker.

2.4 Attaching the GPS module

- Stick the GPS module onto the round plate ① using good-quality double-sided (foam) adhesive tape. Degrease the surfaces beforehand.
- Place the module with the antenna (top side) facing up towards the sky.
- If the module has an arrow, point it forward in the direction of flight; otherwise set the compass orientation in the flight controller (FC) configurator.
- Route the cable along the rod ② so that it cannot reach the propellers. Leave slack at the joint so the mount can fold without straining the cable.
- After installation, calibrate the compass in the flight controller firmware (Betaflight, INAV, ArduPilot).

2.5 Folding and unfolding the mount

① **Folding for transport:** loosen the knurled collar of the folding joint (③) at the base and carefully fold the rod (②) down. Do not force the rod over a locked joint.

② **Unfolding before flight:** return the rod to the upright position and hand-tighten the collar (③) again so that the joint is firmly locked without play.

Before every flight, check that the mount is unfolded and the collar is tightened. An unlocked joint may fold into the propellers in flight due to vibration.

2.6 Safety and maintenance

- Always carry out installation and adjustments with the battery disconnected and the propellers removed.
- Metal parts of the mount must not touch exposed solder joints or wires (risk of short circuit).
- After a crash, check the rod for bending and the joint for play. Replace a bent or damaged mount – straightening weakens the metal.
- Regularly check the base screws, the collar and the GPS module attachment. Clean with a dry 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 product **is not electrical equipment** and contains no batteries or accumulators – take-back of electrical equipment does not apply to it.
- At the end of its service life, hand it over at a collection yard or to separate waste collection for material recovery (metals). Do not dispose of it in mixed municipal waste.
- Sort the packaging according to its material (paper, plastic).

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.