Folding GPS Mount

User Manual
Folding stand for a drone GPS module



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

www.rotorama.com

Contents

1. Product description

1.1 Purpose

1.2 Technical data and package contents

1.3 Parts overview

2. Use

2.1 Assembling the mount

2.2 Mounting on the drone

2.3 Attaching the GPS module

2.4 Folding, inspection and maintenance

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Disposal

4. Warranty and rights arising from defective performance

1. Product description

1.1 Purpose

The folding mount is used to fix a **GPS module** on a drone above the level of the frame. Some GPS modules also include a compass (magnetometer). For the compass to work correctly, it must not be disturbed by the magnetic fields generated by power cables, electronic speed controllers (ESC), motors and other electronics. It is therefore advisable to place the module **further away from the electronics**, a little above the drone.

The raised position also improves the signal reception of the GPS antenna, as the antenna has a clear view of the sky and is not shaded by the frame or other components. The stand folds – it can be folded down against the frame for transport and raised again before flight.



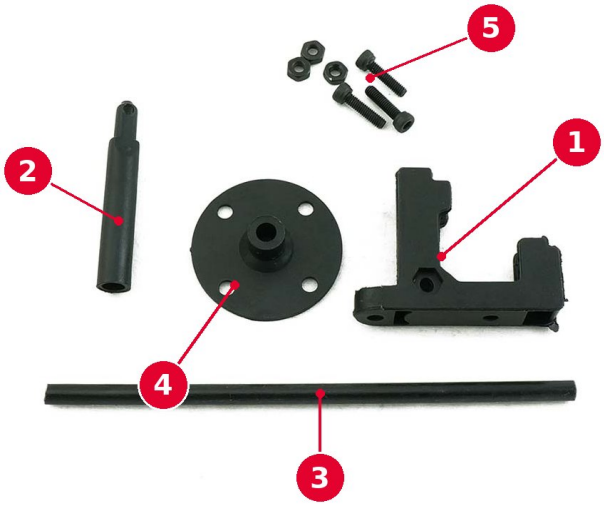
Assembled mount with mounting hardware

1.2 Technical data and package contents

Product designation	Folding GPS Mount (Sklápěcí držák na GPS)
Material	plastic, fibreglass
Height	approx. 125 mm
Weight	11 g
Package contents	1× mount 1× double-sided adhesive tape 1× screw set
Not included	GPS module, connecting cable, tools, adhesive, drone or frame

※ Screw sizes and the spacing of the mounting holes are not specified. Before installation, check that the screws from the set fit the holes in your frame.

1.3 Parts overview



Parts of the mount, disassembled

① **Base** – attaches to the drone frame and holds the folding hinge.

② **Hinge sleeve** – its narrow end fits into the base, the rod slides into its wide end.

③ **Rod** – the supporting rod of the stand.

④ **Round plate** – fits on the top end of the rod; the GPS module is stuck onto it.

⑤ **Screws and nuts** – for the hinge axis and for fixing the base.

2. Use

2.1 Assembling the mount

The mount may be supplied assembled or in parts. If it is disassembled, assemble it as follows:

1. Insert the narrow end of the sleeve ② into the slot in the base ① and secure it with a screw and nut ⑤. The screw forms the hinge axis around which the stand folds.
2. Tighten the hinge screw only enough that the stand can be folded by hand but does not fold down by itself. Do not overtighten the plastic parts, they could crack.
3. Push the rod ③ into the wide end of the sleeve ② as far as it will go.
4. Fit the round plate ④ onto the top end of the rod.
5. Check that the rod is held firmly in the sleeve and the plate firmly on the rod. If a joint has play, it can be secured with a small amount of adhesive suitable for plastics.

2.2 Mounting on the drone

Before installation, choose a place on the frame where the GPS module will be as far as possible from sources of interference and where the stand does not reach into the propellers in either the folded or the raised position.

- Place the mount **as far as possible** from power cables, the battery, the electronic speed controllers (ESC), the motors and the video transmitter (VTX) including its antenna.
- Check that the spinning propellers **cannot touch** the stand, the plate or the GPS module – in both the raised and the folded position.
- Fix the base to the frame with the screws from the set through the holes in the base. The joint must be firm so that the mount does not vibrate in flight.
- Orient the stand so that it folds in a direction where it does not get in the way of other parts of the drone.
- Always carry out the installation with the drone's **battery disconnected**.

2.3 Attaching the GPS module

Stick the GPS module onto the round plate using the double-sided adhesive tape from the package. Clean and degrease the surfaces before bonding and press the module firmly onto the plate.

- Place the module with its **antenna facing up**, towards the sky. Nothing above it may block the signal.
- If the module has a marked direction (usually an arrow), orient it according to its manufacturer's instructions – usually with the arrow pointing in the direction

of flight.

- Route the connecting cable along the rod and secure it. Leave enough slack so that the stand can be folded without straining the cable and connectors.
- After installing or relocating a module with a compass, perform a **compass calibration** in the flight controller (FC) software and check that the compass orientation is set correctly.

2.4 Folding, inspection and maintenance

For transport and storage, fold the stand down against the frame so that the rod does not break during handling. Raise it to the vertical position before every flight.

- Before flight, check that the stand is **raised**, does not move in the hinge and that the GPS module is held firmly on the plate.
- After every crash, inspect the rod, hinge and base. Replace any cracked or bent part – it could break off in flight and hit the propellers.
- Regularly check the tightness of the screws and the condition of the adhesive tape.
- The mount adds to the weight of the drone. When assessing the take-off mass (e.g. the 250 g limit), include it together with the GPS module. When operating the drone, follow the regulations of the country in which you fly.

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. It is not subject to the take-back of electrical equipment.
- At the end of its service life, dispose of it as sorted waste according to local rules – screws and nuts according to their material (metal ones with metals), the other parts with mixed municipal waste or at a collection yard.
- Sort the packaging material by type (paper, plastic).
- Follow the waste management regulations of the country and municipality where you use the product.

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.