GH-S37D

Digital micro servo
User manual



Read this manual before use and keep it for future reference.

www.rotorama.com

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1. Product description

1.1 Intended use

GH-S37D is a miniature digital servo with plastic gears, designed for small RC model aircraft. In the model it converts the control signal from the receiver or flight controller (FC) into rotation of the output shaft and, via a servo arm and pushrod, moves a control surface – elevator, rudder or aileron.

Thanks to its low weight and small size it is particularly suitable for light indoor and park flyer models where every gram counts. The servo connects via a standard 3-pin servo connector, and one of the supplied servo arms is fitted onto the output shaft.



GH-S37D servo with the supplied servo arms

1.2 Specifications and package contents

Product designation	GH-S37D (Digital Servo)
Type	digital servo
Dimensions	20 × 9 × 22 mm
Weight	5 g
Supply voltage	4.8–6 V
Torque	0.9 kg·cm (4.8 V), 0.8 kg·cm (6 V)
Speed	≤ 0.1 s / 60° (4.8 V)
Travel	90° (1000–2000 µs)
Gears	plastic
Cable length	14.5 cm
Package contents	1× servo, 1× set of servo arms
Not included	receiver, flight controller (FC), power supply (BEC), pushrods and other model parts

2. Use

2.1 Connection

Wire	Function
black	negative supply (−, GND)
red	positive supply (+)
white	control signal (S)

- Plug the connector into a servo output on the receiver or flight controller (FC) with the black wire towards the − / GND pin. A reversed servo will not work and may be damaged. Connect and disconnect it only with the model's power off.
- Power the servo only from a supply (BEC) with a voltage according to Chapter 1.2 that can deliver enough current for all connected servos at once.

2.2 Installation in the model and setup

① Switch on the transmitter, then the model, and centre the servo (channel output 1500 µs, trims at zero) before fitting the arm.

② Push a suitable arm from the set onto the splined shaft so that it is perpendicular to the servo body in the centre position.

③ Fix the servo in the model by its mounting lugs with screws or a suitable adhesive so that it cannot move under load.

④ Attach the pushrod to the arm and check that the control surface is centred.

⑤ On the transmitter, check the direction of travel and set the end points so that the servo does not hit a mechanical stop of the control surface or pushrod.

※ A servo pushing against a stop at its end position draws increased current, heats up and may be damaged.

2.3 Safe operation and maintenance

- Protect the servo from moisture, dust, dirt and impacts. A hard impact may damage the plastic gears.
- Before every flight check that the control surfaces and pushrods move freely and that the arm is firmly attached.
- If the servo makes an unusual noise, jitters or heats up, stop using the model and remove the cause. Do not force the output shaft by hand while powered.
- When operating the model, follow the regulations of the country in which you operate it.
- This product is not a toy. Keep it away from children – small parts (arms, screws) may be swallowed.

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 of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

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.