GEPRC Momoda2

5.8 GHz antenna · RHCP · SMA · 170 mm
User manual



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

www.rotorama.com

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1. Product description

1.1 What it is for

GEPRC Momoda2 is an antenna for the **5.8 GHz** band with right-hand circular polarization (**RHCP**). It is used to transmit and receive the FPV video signal – it connects to the video transmitter (VTX) on the drone or to the video receiver in FPV goggles or a monitor. The manufacturer states that it is suitable for both analog and digital (HD) video systems in the 5.8 GHz band.

The radiating element combines a printed circuit board and a flexible printed circuit (PCB + FPC) and is protected by an ABS plastic cover. This variant has an **SMA** connector and a length of **170 mm**; the longer cable lets you place the radiating element further away from the frame, which makes it particularly suitable for larger and long-range drones.



Radiator cover marked “5.8G RHCP MOMODA 2” (manufacturer's illustration)

1.2 Specifications and package contents

Product designation	GEPRC Momoda2 5.8G antenna – RHCP, SMA, 170 mm
Marking on the cover	5.8G RHCP MOMODA 2
Frequency band	5.3–6 GHz
Polarization	RHCP (right-hand circular)
Gain	2.45 dBi
SWR	≤ 1.43
Axial ratio	≤ 3
Radiation efficiency	85 % (average)
Cross-polarization suppression	−25 dB
Connector	SMA
Length	170 mm
Radiator design	FPC + PCB
Cover material	ABS
Package contents	1× antenna
Not included	video transmitter or receiver, connector adapters (e.g. RP-SMA, MMCX), antenna mount, mounting hardware

※ Values as stated by the manufacturer GEPRC. According to the manufacturer, every antenna is tested with a spectrum analyzer before shipment.

2. Use

2.1 Checking compatibility

Before connecting, check two things – the **connector type** and the **polarization**.

- **Connector:** the antenna has an SMA connector. It mates only with an SMA counterpart on the video transmitter or goggles. SMA and RP-SMA connectors have the same thread but the centre pin and socket are swapped – connecting SMA to RP-SMA creates no centre-conductor contact and may damage the connectors. If your device has an RP-SMA, MMCX or u.FL connector, use a suitable adapter (not included).
- **Polarization:** the antennas at both ends of the link (drone and goggles/receiver) must have the **same polarization** – combine this RHCP antenna only with RHCP antennas. Combining RHCP with LHCP significantly reduces range and causes video interference.
- **Band:** the antenna is designed for the 5.8 GHz band. Do not use it for other bands (e.g. 2.4 GHz or 1.2 GHz).

2.2 Connecting the antenna

① Switch off the power to the drone, video transmitter or goggles.

② Place the antenna squarely onto the counterpart and screw it on by turning the connector nut.

③ Tighten **by hand only**. Do not use pliers or a wrench – overtightening damages the connector or its joint to the board.

④ Switch the power on only with the antenna connected.

Never power up a video transmitter without an antenna connected. The transmitted energy has nowhere to radiate and the transmitter may be permanently damaged.

2.3 Antenna placement

- Route the radiating element as far as possible from the carbon parts of the frame, the battery and the wiring – carbon and metal block the signal.
- Secure the antenna cable in a mount or with a cable tie so that the radiating element cannot reach the propellers in flight and the cable is not bent sharply right at the connector.
- On goggles and ground receivers, orient the radiating element vertically with a clear line of sight to the drone.
- Do not lever the connector – in a crash a longer antenna transfers more force to the connector, so a firm cable mount is important.

※ The antenna gain counts towards the radiated power (e.i.r.p.). The permitted transmit power and frequencies are governed by the regulations of the country in which you operate the product; the power is set on the video transmitter.

2.4 Care and troubleshooting

- After every flight, especially after a crash, check the radiator cover, the cable and the connector. A cracked cover, a kinked cable or a loose connector mean worse transmission – replace a damaged antenna.
- Keep the connector contacts clean and dry; remove dirt with a dry brush.
- Store the antenna in a dry place, protect the cable from sharp bends and the cover from mechanical pressure.

Problem	Possible cause and solution
Short range, noisy video	Antenna polarizations do not match (RHCP × LHCP) – use RHCP at both ends. The radiating element is shielded by the frame – adjust the placement.
No signal or very weak signal	Wrong connector type (SMA × RP-SMA) or connector not tightened – check the type and tighten by hand. Check the channel setting on both the transmitter and the receiver.
Dropouts after a crash	Damaged radiating element, cable or connector – inspect the antenna and replace it if necessary.

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.