



Pagoda Pro

Foxeer · omnidirectional 5.8 GHz RHCP FPV antenna
SMA and RP-SMA connector variants



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

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1. Product Description

1.1 Intended Use

The **Foxeer Pagoda Pro** is an omnidirectional antenna with **RHCP** (right-hand circular) polarization for the **5.8 GHz** band. It is used for analog and digital FPV video transmission and is mounted on the video transmitter (VTX) of a drone or on a video receiver, FPV goggles or a monitor. The antenna is terminated with an SMA or RP-SMA coaxial connector, depending on the selected variant.

The radiating element is protected by a durable PC+ABS plastic housing, so the antenna withstands impacts during freestyle flying well. The short RG402 coaxial cable can be carefully shaped to point the antenna as required.



Foxeer Pagoda Pro – radiating element in plastic housing, coaxial cable and connector

1.2 Specifications and Package Contents

Product designation	Foxeer Pagoda Pro
Antenna type	omnidirectional (omni)
Frequency band	5.8 GHz
Polarization	RHCP (right-hand circular)
Gain	3 dBi
Connector	SMA or RP-SMA (depending on variant)
Cable	RG402
Housing material	PC+ABS
Color	black
Weight	approx. 11 g
Package contents	1× Foxeer Pagoda Pro antenna
Not included	video transmitter (VTX), video receiver, FPV goggles, SMA / RP-SMA adapter, antenna mount

2. Use

2.1 Choosing the Correct Connector

The antenna is sold in two connector variants. Before mounting, make sure that the antenna connector matches the connector on the video transmitter or receiver:

- **SMA** – the antenna connector has a **pin** in the centre; the mating connector on the device has a socket in the centre.
- **RP-SMA** – the antenna connector has a **socket** in the centre; the mating connector on the device has a pin in the centre.

Both types have the same outer thread, so they can be screwed together even in the wrong combination – but then the centre conductor is not connected and the antenna does not work. If the connectors do not match, use a suitable adapter (not included).

2.2 Mounting the Antenna

- ① Switch off the power to the video transmitter, or to the goggles or receiver.
- ② Fit the antenna connector straight onto the device connector and tighten the nut **by hand**. Do not use pliers or a wrench – overtightening can damage the thread or the connector on the board.
- ③ On a drone, fix the antenna in a mount or to the frame so that the radiating element protrudes outside the frame, does not interfere with the propellers and is not covered by carbon parts or the battery.
- ④ Bend the cable only slightly and never directly at the connector or at the housing of the radiating element.
- ⑤ Only then switch the power on.

Never power on a video transmitter without an antenna connected. The output stage of the transmitter may be permanently damaged.

2.3 Polarization and Signal Range

- Use antennas with the **same polarization** on both the transmitting and receiving side. The Pagoda Pro is RHCP – so also use an RHCP antenna on the goggles or receiver. Combining RHCP and LHCP significantly reduces range.
- An omnidirectional antenna radiates in all directions around its axis. The best reception is achieved with a direct line of sight between the drone and the pilot.
- There must be no obstacles (buildings, trees, terrain) between the antennas. Obstacles and reflections cause interference and video dropouts.
- Transmit power and channel are set on the video transmitter, not on the antenna. Observe the limits applicable in the country in which you operate the product – in the Czech Republic, a maximum of 25 mW e.i.r.p. is permitted in the 5725–5875 MHz band. The user is responsible for the power setting.

3. Maintenance and Troubleshooting

3.1 Maintenance

- After every flight, check the housing of the radiating element, the cable and the connector. A cracked housing, a kinked cable or a loose connector degrade video transmission.
- Check the connector nut from time to time and retighten it by hand if necessary.
- Protect the connector from dirt and moisture. Store the antenna in a dry place without kinking the cable.

3.2 Troubleshooting

Problem	Possible cause and solution
No video or very weak video	Wrong SMA / RP-SMA combination – check the centre pin and socket (Chapter 2.1). Loose nut – tighten by hand.
Short range, interference	Different antenna polarization (RHCP / LHCP) – use RHCP on both sides. Antenna covered by the frame or battery – change its position.
Dropouts after a crash	Damaged housing, cable or connector – inspect the antenna and replace it if damaged.

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@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.com

4.2 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>.

5. 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 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.