Pagoda Pro – 15 cm

Foxeer · omnidirectional 5.8 GHz RHCP FPV antenna
User manual



Never power on a video transmitter (VTX) without an antenna connected – it may be permanently damaged.

www.rotorama.com

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1. Product description

1.1 What it is for

Foxeer Pagoda Pro is an omnidirectional antenna with right-hand circular polarization (RHCP) for FPV video transmission in the 5.8 GHz band. It connects via an **SMA** connector to a video transmitter (VTX) on the drone or to a video receiver (FPV goggles, monitor) that operates in the 5.8 GHz band and has a matching SMA connector.

The radiating element is protected by a durable PC+ABS plastic housing. The **15 cm** version has a flexible RG402 coaxial cable that can be bent into the required shape and holds that shape. This lets you raise the radiating element above the drone frame, away from carbon fibre parts and the battery, which block the signal. It is therefore particularly suitable for long-range drones, where the antenna is placed above the battery.



Foxeer Pagoda Pro – 15 cm, SMA (left: head with the radiating element, right: SMA connector)

1.2 Specifications and package contents

Manufacturer	Foxeer
Product designation	Foxeer Pagoda Pro – 15 cm (SMA)
Antenna type	omnidirectional
Frequency band	5.8 GHz (5500–6000 MHz)
Polarization	RHCP (right-hand circular)
Gain	3 dBi
Connector	SMA
Antenna length	15 cm
Cable	RG402
Housing material	PC+ABS
Colour	black
Weight	approx. 14 g

Package contents: 1× Foxeer Pagoda Pro – 15 cm (SMA) antenna.

Not included: video transmitter (VTX), video receiver or FPV goggles, connector adapters (e.g. SMA/RP-SMA, angled), antenna mount or mounting hardware.

2. Use

2.1 Compatibility

Before mounting, check that the antenna matches your equipment:

- **Connector:** the antenna has an **SMA** connector. The video transmitter must have a matching SMA counterpart. RP-SMA connectors look similar but have the centre contact reversed – such a connection does not carry the signal. For a different connector type (RP-SMA, MMCX, u.FL), use a suitable adapter or choose an antenna with the matching connector.
- **Polarization:** the antennas on the drone and on the receiving side (goggles, monitor) must have **the same polarization**. Combining RHCP with LHCP results in a significant loss of signal strength and range.
- **Frequency band:** the antenna is designed for the 5.8 GHz band. Do not use it for other bands, e.g. for drone control in the 2.4 GHz or 868/915 MHz band.

2.2 Mounting on the drone

① Disconnect the drone battery. Always connect and disconnect the antenna only while the video transmitter is unpowered.

② Fit the antenna connector onto the video transmitter connector and tighten the SMA nut by hand. If you use a wrench, tighten gently – overtightening can damage the connector or the transmitter board.

③ Bend the cable so that the antenna head points above the frame, away from carbon fibre parts and the battery. Do not bend the cable sharply right at the connector or at the head.

④ Secure the cable to the frame (antenna mount, cable tie, heat-shrink tubing) so that it does not vibrate in flight and cannot get into the propellers.

⑤ Check that the propellers do not touch the antenna when they rotate, and only then connect the battery.

Never power on a video transmitter without an antenna connected. The transmitted power has nowhere to radiate and the transmitter may be permanently damaged. Likewise, do not disconnect the antenna while the transmitter is running.

2.3 Operation and care

- After every crash, inspect the head housing, the cable and the connector. A cracked housing, a kinked or cut cable or a loose connector reduce range and video quality – replace a damaged antenna.
- Do not bend the cable repeatedly at the same spot; frequent bending can damage the conductor inside the cable.
- Before flying, check that the SMA nut is tight. A loose connector shows up as interference and video dropouts.

- Clean the antenna with a dry or slightly damp cloth. Do not use solvents.
- Do not expose the antenna to fire or high temperatures (e.g. soldering close to the housing) and do not load the connector by pulling on the cable.

2.4 Transmit power and regulations

The antenna itself does not transmit – it radiates the signal of the video transmitter it is connected to. What matters for regulatory compliance is the **equivalent isotropically radiated power (e.i.r.p.)**, which includes the antenna gain in addition to the transmitter output power.

- In the Czech Republic, a maximum of **25 mW e.i.r.p.** is permitted in the 5725–5875 MHz band under CTU General Authorization No. VO-R/10.
- The user is responsible for setting the power and channel of the video transmitter.
- The information above describes the situation in the Czech Republic. If you operate the product in another country, **the law of the country in which the product is operated prevails** – permitted bands and power levels differ from country to country.

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 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.