# Lollipop 4 Plus

Foxeer · 5.8 GHz omnidirectional antenna · u.FL · LHCP
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 What it is for

The Foxeer Lollipop 4 Plus is an omnidirectional antenna for FPV video transmission in the 5.8 GHz band with left-hand circular polarization (LHCP). The radiating element is a printed circuit board with gold-plated traces, protected by a durable plastic cover. The antenna has a uniform omnidirectional radiation pattern and a gain of 2.6 dBi.

The antenna ends in a thin coaxial cable with a miniature **u.FL** connector. It plugs directly into the u.FL socket of a video transmitter (VTX) or any other 5.8 GHz device fitted with this connector. Thanks to its low weight it is particularly suitable for smaller FPV drones, often with digital video transmission. The package contains two antennas.




*Antenna overview*

① Radiator cover (PC+ABS)

② Coaxial cable

③ u.FL connector

## 1.2 Specifications and package contents

| | |
|---|---|
| Product designation | Foxeer Lollipop 4 Plus, u.FL, LHCP |
| Manufacturer | Foxeer |
| Frequency band | 5.5–6 GHz |
| Gain | 2.6 dBi |
| Polarization | left-hand circular (LHCP) |
| Radiation pattern | omnidirectional |
| Axial ratio | close to 1 |
| Radiation efficiency | 98 % |
| SWR | 1.07 at centre frequency |
| Connector | u.FL |
| Overall length | 85 mm |
| Radiator cover width | 17 mm |
| Weight | 2.8 g (1 pc) |
| Cover material | PC+ABS |
| Package contents | 2× antenna |

**Not included in the package:** video transmitter or receiver, antenna mount, cable ties, heat-shrink tubing or adapters for other connector types (SMA, RP-SMA, MMCX).

# 2. Use

## 2.1 Choosing the polarization

For good reception, the antennas on the transmitting and receiving side must have the **same polarization**. This antenna is LHCP, so pair it with LHCP antennas on your goggles, receiver or monitor. Combining an LHCP antenna with an RHCP (right-hand) antenna considerably reduces range and degrades image quality.

**※ Check the polarization of the receiving antennas in their documentation.**

## 2.2 Connecting the u.FL connector

The u.FL connector is miniature, mechanically delicate and designed for a limited number of mating cycles.

① Disconnect power from the drone or video transmitter before connecting.

② Hold the u.FL connector perpendicular above the socket on the board.

③ Press it straight down with your fingertip or a blunt tool until you feel it snap in. Do not press at an angle and do not use excessive force.

④ To disconnect, lift the connector straight up – ideally with a u.FL removal tool inserted under the connector body. **Never pull on the cable.**

## 2.3 Placement and mounting on the drone

- Place the radiator cover **outside the frame**, away from carbon parts, the battery, wiring and other antennas, which block the signal.
- Make sure the antenna cannot reach the propellers, even in a crash or impact.
- Secure the cable to the frame or in an antenna mount (cable tie, heat-shrink tubing) so that vibration does not pull on the u.FL connector.
- Do not bend the cable sharply (especially at the connector and cover) and route it away from sharp frame edges.
- If the video transmitter has two antenna outputs, point the antennas in different directions.

## 2.4 Safety, operation and maintenance

- **Never power the video transmitter without an antenna connected** – it may be damaged.
- Operation of the video transmitter is governed by the regulations of the country of use (permitted frequencies and power). The 2.6 dBi antenna gain counts towards the radiated power (e.i.r.p.); the operator is responsible for the limits.
- The product contains small parts – keep it out of the reach of children.
- After a crash, check the radiator cover, cable and connector; replace a damaged antenna. Clean the antenna with a dry cloth, without solvents.

# 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.