Lollipop u.FL

Happymodel · 5.8 GHz antenna with u.FL connector
User manual · RHCP and LHCP versions



Read this manual before first use. Never power on the video transmitter without the antenna connected.

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1. Product description

1.1 What it is for

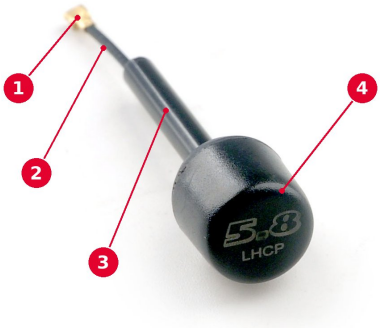
Happymodel Lollipop is a small, lightweight omnidirectional antenna for the 5.8 GHz band with circular polarisation and a **u.FL** connector (also referred to as IPEX). It connects to the video transmitter (VTX) on the drone and radiates the video signal towards the pilot's goggles or video receiver.

With a weight of 2.3 g and a length of 60 mm, it is particularly suitable for smaller FPV drones and racing quads. It is made in two versions – with right-hand (**RHCP**) and left-hand (**LHCP**) circular polarisation. The manufacturer lists it as the original replacement antenna for the Happymodel Crux35 (RHCP) and Crux35 HD (LHCP) drones.



Happymodel Lollipop u.FL antenna

1.2 Parts



Antenna parts (LHCP version shown)

① **u.FL (IPEX)** connector – plugs onto the mating socket on the video transmitter board.

② Thin coaxial cable.

③ Antenna body (stem).

④ Cap with the radiating element; the front is marked **RHCP** or **LHCP**.

1.3 Specifications and package contents

Product designation	Happymodel Lollipop 5.8G
Frequency range	5500–6000 MHz
Polarisation	RHCP or LHCP (depending on the selected version)
Gain	2.5 dBi
Input impedance	50 Ω
VSWR at 5800 MHz	≤ 1.5
Max. input power	50 W (manufacturer's figure)
Connector	u.FL (IPEX)
Weight	2.3 g
Length	60 mm
Package contents	1× antenna

Not included: video transmitter, adapters to other connector types (SMA, RP-SMA, MMCX) and antenna mount.

2. Use

2.1 Choosing the polarisation RHCP / LHCP

The antenna on the drone and the antenna on the goggles or video receiver must have **the same polarisation**. Combining RHCP with LHCP causes a significant loss of received signal, shorter range and video dropouts.

- Find out which polarisation the antennas of your goggles or video receiver have (it is usually marked on the antenna or stated in their documentation).
- Choose the Lollipop antenna in the same version. You can tell the version by the **RHCP** or **LHCP** marking on the antenna cap.
- When flying in a group, agree on channels with the other pilots; polarisation alone does not eliminate interference between pilots.



Version marking on the antenna cap: RHCP (left) and LHCP (right)

2.2 Connecting to the video transmitter

① Disconnect the battery from the drone. Always connect and disconnect the antenna only with the video transmitter switched off.

② Position the u.FL connector squarely above the mating socket on the video transmitter board.

③ Press the connector straight down, for example with a fingertip or a flat tool, until it clicks into place. Do not press at an angle.

④ When disconnecting, do not pull the connector by the cable. Carefully lift it straight up at the connector itself, preferably with a flat tool.

※ The u.FL connector is small and mechanically delicate and withstands only a limited number of mating cycles. After connecting, check that it sits straight and fully seated.



u.FL (IPEX) connector at the end of the antenna cable

2.3 Mounting on the drone

- Fix the antenna in a mount on the frame or with heat-shrink tubing or a cable tie so that it cannot get into the propellers in flight.
- Position the antenna cap as far away as possible from the frame, carbon parts and the battery, which shield the signal. Ideally point it upwards or diagonally backwards.
- Route the cable without sharp bends and so that it is not under tension and does not pull on the u.FL connector. Do not pinch the cable between frame parts.

2.4 Safety, care and inspection

- **Never power on the video transmitter without the antenna connected.** Doing so may damage it.
- The frequency and transmit power are determined not by the antenna but by the video transmitter. Their settings must comply with the regulations of the country in which you operate the drone; the user is responsible for the settings.
- Before every flight, check that the connector is clicked in place and that neither the cable nor the cap is damaged.
- After a crash, check that the cable is not broken or pinched and that the cap is not cracked. Replace a damaged antenna – it degrades the video link and may damage the transmitter.
- Protect the antenna from bending the cable at the connector, from pulling and from mechanical damage.
- Keep small parts out of the reach of children. This product is not a toy.

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 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** type designation (Happymodel Lollipop 5.8G, RHCP or LHCP version); the version is marked on the antenna cap.

3.3 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.