O3 Dual-band u.FL

FlyFishRC – dual-band 2.4/5.8 GHz antenna
for the DJI O3 Air Unit · 40, 95 and 145 mm versions



Connect and disconnect the antenna only with the power switched off.
Never power on the video transmitter without an antenna connected.

User manual · Rotorama, s.r.o. · www.rotorama.com

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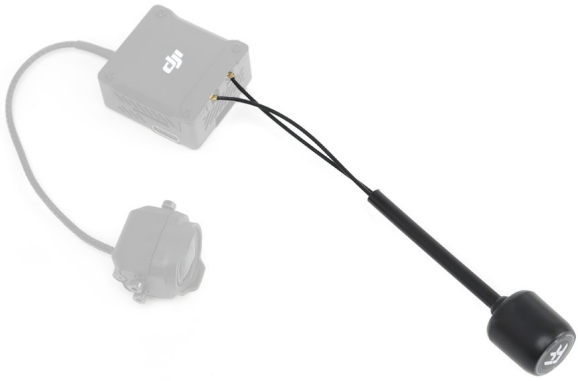
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1. Product description

1.1 What it is for

The FlyFishRC Dual-Band is a replacement antenna for the **DJI O3 Air Unit** digital video transmitter (VTX). A single housing made of impact-resistant polycarbonate integrates antenna elements for both bands used by the O3 – **2.4 GHz and 5.8 GHz**. The antenna is omnidirectional and connects to the transmitter with a pair of u.FL (IPEX) connectors, just like the original DJI antenna.

The antenna is available in several lengths. The shorter 40 mm (Stubby) and 95 mm versions suit smaller and classic freestyle quads, while the longer 145 mm version is intended mainly for longer-range flying, where the antenna can be routed further away from the frame. Typically you will use it to replace a damaged original antenna or as an antenna of a different length that fits your frame better.

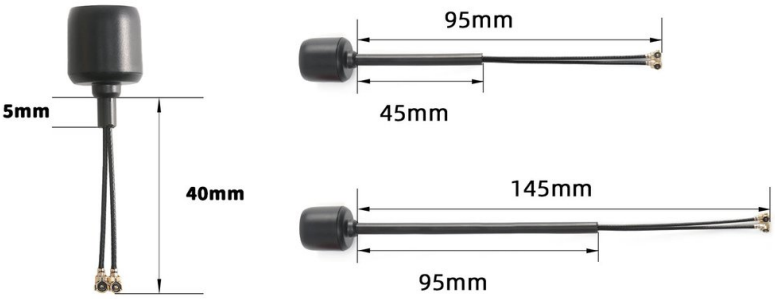


Antenna connected to the DJI O3 Air Unit (manufacturer's illustration)

1.2 Specifications and package contents

Product designation	FlyFishRC Dual-Band 5.8GHz/2.4GHz UFL Antenna for DJI O3
Manufacturer	FlyFishRC
Compatibility	DJI O3 Air Unit
Frequency range	2400–2500 MHz / 5700–5900 MHz
Gain	2.5 dBi (2.4 GHz) / 3.8 dBi (5.8 GHz)
VSWR	≤ 1.6
Polarization	linear
Impedance	50 Ω
Connector	2× IPEX (u.FL)
Cable	RF1.13
Head size	Ø 16 × 17 mm
Housing	polycarbonate
Length / weight	40 mm Stubby: 2.4 g 95 mm: 3.3 g 145 mm: 3.9 g
Colour	depending on the selected variant (black, red)
Package contents	1× FlyFishRC O3 Dual-band antenna

Not included: the DJI O3 Air Unit video transmitter, screws, frame antenna mount, cable ties and tools.



Dimensions of the 40 mm (Stubby), 95 mm and 145 mm versions

2. Installation and use

2.1 Before you start

- Replace the antenna **only with the power disconnected**. DJI prohibits plugging or unplugging cables on the O3 Air Unit while it is powered on.
- **Never power on the video transmitter without an antenna connected** – a transmitter without an antenna may be damaged.
- u.FL connectors are small and fragile. When disconnecting, do not pull on the cable; lift the connector straight up with a suitable tool (tweezers).
- Operate the video transmitter only in accordance with the regulations of the country in which you fly – **the law of the country of operation is decisive** (permitted frequency bands and maximum radiated power e.i.r.p.). The operator is responsible for complying with the limits.
- If the O3 Air Unit has been using the original DJI antenna so far, keep it as a spare.

2.2 Replacing the antenna

The procedure follows the DJI O3 Air Unit user manual:

① Loosen the two screws that secure the cover of the antenna connectors on the O3 Air Unit and remove the cover.

② Use a suitable tool (tweezers) to disconnect and lift both plugs of the old antenna, then remove the antenna.

③ Prepare the new antenna. Align both u.FL plugs with the antenna connectors on the O3 Air Unit and press them straight down to make sure they are securely connected.

④ Install the cover back and tighten the screws.

※ After installation, check that both connectors are firmly snapped in. A half-seated u.FL connector easily comes loose in flight and the video signal is lost.

2.3 Mounting the antenna on the drone

- For the best transmission, route the antenna **away from metal and carbon fibre parts** of the frame and make sure it is not blocked by the frame structure (DJI recommendation).
- Do not obstruct the antenna or twist the cable – according to DJI this may degrade or block the transmission. Do not bend the cable at sharp angles.
- Secure the antenna in a frame mount or with a cable tie so that it cannot reach the propellers.
- Do not leave the cable taut at the connectors; a little slack protects the u.FL connectors in a crash.

- Place the electronics on the drone as far apart from each other as possible to minimize mutual interference.

2.4 Maintenance and troubleshooting

- After a crash, check the antenna head, the cable and the seating of both u.FL connectors.
- Do not make makeshift repairs to a damaged head, a cracked cable or a loose connector – replace the antenna.
- Clean the head with a dry or slightly damp cloth, without solvents.

Problem	Possible cause and solution
Reduced range or video dropouts	A u.FL connector is not fully snapped in – disconnect the power and press the connectors in again. Check that the antenna is not shielded by the carbon frame.
Video lost after a crash	Torn-off connector or cut cable – check the antenna and replace it if necessary.
Antenna reaches the propellers	Adjust the cable routing, secure the antenna in a mount or choose a shorter version.

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.