Albatross V2 90 mm

iFlight · 5.8 GHz RHCP antenna, SMA connector
User manual



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

www.rotorama.com

Contents

1. Product description

1.1 Intended use

1.2 Technical data and package contents

2. Use

2.1 Compatibility

2.2 Mounting on the drone

2.3 Operating rules

2.4 Maintenance and troubleshooting

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Disposal of electrical equipment

4. Warranty and rights arising from defective performance

1. Product description

1.1 Intended use

The iFlight Albatross V2 is an omnidirectional antenna for the 5.8 GHz band with right-hand circular polarization (RHCP) and an SMA connector. It connects to a video transmitter (VTX) and carries the FPV video from the drone to the goggles. It is suitable for classic freestyle drones and cinewhoops.

The radiating element is housed in a rugged hexagonal casing that protects the antenna in crashes and impacts. The cable is 60 mm long and the overall length of the antenna is 90 mm, so the antenna easily protrudes from the drone frame.



① radiating element in its casing (marked 5.8G and RHCP) ② coaxial cable ③ SMA connector

1.2 Technical data and package contents

Parameter	Value
Product designation	iFlight Albatross V2 5.8GHz 90mm, RHCP SMA
Frequency range	5.3–6 GHz
Polarization	RHCP (right-hand circular)
Connector	SMA
Overall length	90 mm
Cable length	60 mm
Cross-polarization suppression	−25 dB

Parameter	Value
Gain	revision V2: 2.4 dBi revision V2.1: 2.9 dBi average (max. 3.02 dBi at 5500 MHz)
Weight	revision V2: 7 g revision V2.1: 8.5 g
Package contents	1× antenna
Not included	video transmitter (VTX), FPV goggles, SMA/RP-SMA adapter, drone or frame
Manufacturer	iFlight Intelligent Technology Ltd., F6, Building B2, Galaxy IMC, Beixin Road, No. 6, Zhongkai Avenue, Huizhou 516006, Guangdong, China; support@iflight.com

※ For its RHCP antennas the manufacturer has moved from revision V2 to the improved revision V2.1. Depending on the production batch, you may receive either of them. Both revisions have the same frequency range, polarization, connector and dimensions; they differ in the gain and weight given in the table.

2. Use

2.1 Compatibility

- **SMA connector.** The antenna fits a video transmitter or receiver with a mating SMA connector. An RP-SMA connector looks very similar but is not compatible with SMA – you cannot connect this antenna to an RP-SMA port without an adapter. Never force the connectors together.
- **Same polarization on both sides.** The antenna on the drone and the antennas on the goggles must have the same polarization – RHCP with RHCP. Combining RHCP with LHCP significantly reduces range and image quality.
- **5.8 GHz band.** The antenna is designed for video transmitters in the 5.3–6 GHz band. It is not intended for a 2.4 GHz control link or for any other band.

※ The manufacturer points out: the DJI FPV digital system uses LHCP antennas with RP-SMA connectors on both the drone and the goggles by default. For this system choose the Albatross antenna in the LHCP RP-SMA version, not this RHCP SMA version.

2.2 Mounting on the drone

① Disconnect the drone battery – always handle the antenna with the power off.

② Place the connector straight onto the mating SMA connector of the video transmitter and tighten the coupling nut by hand. If you use a wrench, tighten only lightly – overtightening can damage the connector on the transmitter.

③ Position the antenna so that the radiating element protrudes from the frame and is not covered by carbon or metal parts. Secure the cable in the antenna mount on the frame or with a cable tie.

④ Check that the antenna is held firmly and cannot get into the path of the propellers.

2.3 Operating rules

- **Never power on the video transmitter without an antenna connected.** The transmitter may overheat and be permanently damaged.
- The antenna is passive; the frequency and transmit power are determined by the video transmitter. Use only the channels and power levels permitted in the country of operation. The law of the country in which you operate the product is decisive; in the Czech Republic the general authorization of the Czech Telecommunication Office (ČTÚ) applies.
- Do not bend the cable sharply at the connector or at the antenna casing and do not subject it to tension.
- After every crash, check the casing, the cable and the connector. A damaged antenna degrades the image and range – replace it.

2.4 Maintenance and troubleshooting

Keep the antenna dry and clean; remove dirt from the connector with a dry brush. Store it in a dry place so that the cable is not bent and the casing is not under load.

Problem	Cause and solution
Noisy image, short range	Different antenna polarization on the drone and the goggles – use RHCP on both sides. Radiating element covered by the frame – change its position. Damaged antenna or connector – replace it.
The antenna cannot be screwed on	The mating connector is RP-SMA, not SMA – use an antenna with an RP-SMA connector or an adapter. Do not use force.
The antenna works loose	Tighten the coupling nut by hand and secure the cable on the frame.

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 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.