ROTORAMA

Avatar V2 antenna

Walksnail · antenna for video transmitter
u.FL (IPEX-1) · LHCP · 5.8 GHz



Always connect the antenna before powering on the video transmitter.

User manual · www.rotorama.com

Contents

1. Product description

1.1 What it is for

1.2 Specifications and package contents

2. Use

2.1 Before installation

2.2 Connecting the u.FL connector

2.3 Mounting on the drone

3. Operation, care and troubleshooting

3.1 Operation and care

3.2 Troubleshooting

4. Information for the EU and Czech Market

4.1 Importer and responsible person in the EU

4.2 Disposal of electrical equipment

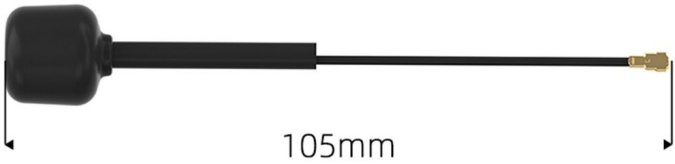
5. Warranty and rights arising from defective performance

1. Product description

1.1 What it is for

The Walksnail Avatar V2 antenna is an antenna with **left-hand circular polarization (LHCP)** and a **u.FL (IPEX-1)** connector for a video transmitter (VTX) in the 5.8 GHz band. The manufacturer lists it as the antenna of the Walksnail Avatar V2 Kit; it is therefore primarily intended as an original replacement antenna for the Avatar V2 module.

The antenna can also be connected to another video transmitter with a u.FL (IPEX-1) connector, provided it operates within the frequency range of the antenna. On the receiving side (FPV goggles), antennas with the same polarization – LHCP – must be used.



Walksnail Avatar V2 antenna – overall length including cable and connector

1.2 Specifications and package contents

Product designation	Walksnail Avatar V2 antenna (VTX V2 Antenna)
Manufacturer code / EAN	WNPJ-00014 / 9313419955054
Polarization	LHCP (left-hand circular)
Frequency range	5600–6000 MHz
Average gain	1.9 dBi
VSWR	≤ 1.5
Input impedance	50 Ω
Connector	u.FL (IPEX-1)
Dimensions	Ø 15 mm; overall length 105 mm, 45 mm without cable
Weight	2 g
Package contents	1× antenna
Not included	video transmitter, FPV goggles, antenna mount, cable ties, tools
Manufacturer	CADDXFPV (Walksnail brand), support@caddxfpv.com, www.caddxfpv.com

2. Use

2.1 Before installation

Never power on the video transmitter without the antenna connected. The manufacturer explicitly warns that all antennas must be installed before powering on, otherwise components may be damaged.

- Disconnect the drone battery and keep the video transmitter unpowered during the entire installation.
- Check that the video transmitter has a u.FL (IPEX-1) connector and operates within the frequency range of the antenna (5600–6000 MHz).
- Make sure the antennas of your FPV goggles are LHCP. Combining antennas of opposite polarization (LHCP and RHCP) significantly reduces range and image quality.

2.2 Connecting the u.FL connector

① Position the antenna connector perpendicularly above the mating connector on the video transmitter so that both connectors are exactly aligned.

② Press the connector straight down – ideally with your fingertip or a flat tool – until it noticeably clicks into place. Do not press at an angle or use force.

③ Check that the connector sits straight and does not come loose when the cable is moved slightly.

④ To disconnect, lift the connector straight up with a fingernail or a u.FL removal tool inserted under its edge. **Never pull on the cable.**

※ u.FL connectors are designed for a limited number of mating cycles. Do not disconnect the antenna unnecessarily; you can secure the connector against coming loose in a crash with a small piece of Kapton tape.

2.3 Mounting on the drone

- Place the antenna head (the active part) **outside the frame** so that it is not covered by carbon parts, the battery or other metal parts – carbon and metal block the signal.
- Route the antenna away from the propellers and secure it in an antenna mount or with a cable tie (not included). The cable must not be under tension or sharply bent; bending and pulling right behind the connector are the most common causes of damage.
- The head should point upwards or backwards, into free space without obstacles.

3. Operation, care and troubleshooting

3.1 Operation and care

- The radiated power (e.i.r.p.) depends on the output power of the video transmitter and the gain of the antenna. The user is responsible for the power setting and the selected channel – follow the manual of the video transmitter and the regulations of the country in which the product is operated.
- If you use other 5.8 GHz devices at the same time, select a different channel on the video transmitter.
- After every crash, check the head, cable and connector of the antenna.
- Keep the antenna clean and dry. Wipe off dirt with a dry cloth; do not use solvents.
- Do not coil the cable tightly and do not bend it at a sharp angle.
- Do not continue to use a damaged antenna (cracked head, broken or cut cable, loose connector) – replace it.

3.2 Troubleshooting

Problem	Cause and solution
Short range, video interference	The polarization of the goggle antennas does not match (must be LHCP), or the head is covered by the frame or battery – adjust the placement.
Video drops out when the drone moves	Loose u.FL connector – check it and click it back in; damaged cable – replace the antenna.
Connector does not hold	Worn or damaged connector on the antenna or transmitter – replace the antenna, or have the video transmitter checked.
Visible damage after a crash	Cracked head or cut cable – do not use the antenna and replace it.

4. Information for the EU and Czech Market

4.1 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

4.2 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.

5. 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 4.1.
- 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.