



MenaceRC Invader

5.8 GHz directional patch antenna
RHCP polarisation · SMA connector



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

User manual

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1. Product description

1.1 What it is for

MenaceRC Invader is a compact directional receiving patch antenna for the 5.8 GHz band with right-hand circular polarisation (RHCP). It is designed primarily for FPV goggles, but it can also be used on a ground station or a video receiver. It works best when paired with a circularly polarised video transmitter (VTX) antenna of the same polarisation.

Within the angle it points at, a directional antenna has a higher gain than an omnidirectional one, so it picks up a weaker signal from a more distant drone; outside this angle reception is weaker. That is why goggles and receivers with diversity (two receivers) often combine it with an omnidirectional antenna. According to the manufacturer, the antenna is less prone to interference from signal reflections (multipath) than omnidirectional receiving antennas.



Invader RHCP on FPV goggles

1.2 Specifications and package contents

Antenna type	directional patch antenna, passive (no power required)
Frequency range	5645–5945 MHz
Gain	6.5 dBi
Beam width	90° (–3 dB) · 120° (–5 dB) · 150° (–7 dB)
Polarisation	right-hand circular (RHCP)
Connector	SMA
Dimensions	45 × 41 × 16 mm
Weight	11 g
Package contents	1× MenaceRC Invader RHCP antenna
Not included	FPV goggles, video receiver, extension cable, SMA / RP-SMA adapter
Product identification	MenaceRC Invader, RHCP 5.8Ghz (printed on the front)

2. Use

2.1 What you will need

- FPV goggles or a video receiver for the 5.8 GHz band with an **SMA** antenna connector,
- a drone with a video transmitter whose antenna has **RHCP circular polarisation**,
- if needed, an extension cable or an angled SMA adapter for a hard-to-reach connector.

2.2 Connecting the antenna

- ① Switch off the goggles or the video receiver.
- ② Check the connector type: the Invader has an **SMA** connector. For goggles with RP-SMA, use an SMA / RP-SMA adapter. Never force different connector types together.
- ③ Screw the antenna on by hand until it seats lightly. Do not overtighten it or use a wrench.
- ④ Turn the printed front side of the antenna forward – towards where you will fly.
- ⑤ Switch on the goggles, switch on the drone and check the image quality.



① front side with polarisation marking ② SMA connector on the back

2.3 Aiming and combining with other antennas

- The antenna receives best in the direction its front side is facing. Behind the antenna and to the sides reception is weaker – the image may deteriorate when flying behind the pilot.
- The polarisation of the antenna on the drone and on the goggles must match – **RHCP with RHCP**. With an antenna of the opposite (left-hand) polarisation, reception will be significantly weaker.
- On diversity goggles, the Invader is usually paired with an omnidirectional RHCP antenna on the second input.
- The manufacturer states compatibility with SpiroNet-type antennas.

2.4 Safety and care

- The product is intended for persons aged 14 and over.
- Protect the connector from bending and impacts. If the goggles are dropped, the protruding antenna may damage its own connector as well as the goggle connector; it is best to remove the antenna when carrying the goggles.
- Protect the antenna from moisture and dirt and clean it with a soft dry cloth.
- The operation of FPV equipment and the use of the 5.8 GHz band are subject to regulations. The law of the country in which you operate the product always applies.

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@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

3.2 Disposal

- The product contains no batteries and no active electronic components. It consists of a printed circuit board and a metal connector.
- Do not dispose of it with mixed municipal waste. Hand it over at a collection yard or at a take-back point for electrical equipment in accordance with the rules of your municipality.

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.