



Pico Patch

MenaceRC Pico Patch
5.8 GHz directional FPV antenna · RHCP / LHCP



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

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1. Product description

1.1 What it is for

MenaceRC Pico Patch is a small directional (patch) antenna for receiving analogue FPV video in the 5.8 GHz band. It is fitted to the receiver of FPV goggles or a ground station with an SMA connector. The manufacturer recommends pairing it with a circularly polarised omnidirectional antenna on the drone's video transmitter (VTX).

Thanks to its higher gain and narrower beam width it is best suited to mid-range and longer-range flying. On goggles with a diversity receiver (two antenna inputs) it is usually combined with one omnidirectional antenna that covers the close surroundings. According to the manufacturer, it can stay fitted to the goggles even in the carry case.



Rear side with the SMA connector and front side of the antenna

1.2 Specifications and package contents

Frequency range	5645–5945 MHz
Gain	9.4 dBi
Beam width	61° (at the –3 dB points)
Polarisation	circular, right-hand (RHCP) or left-hand (LHCP) – depending on the variant purchased
Connector	SMA
Dimensions	37.0 × 33.6 × 19.2 mm
Weight	10 g
Package contents	1× MenaceRC Pico Patch antenna
Not included	FPV goggles, receiver, video transmitter, SMA / RP-SMA adapter
Product identification	Pico Patch RHCP / LHCP (printed on the front side)

2. Use

2.1 What you will need

- FPV goggles or a ground station with a 5.8 GHz receiver and an **SMA** antenna input.
- A drone whose video transmitter (VTX) has a circularly polarised antenna of the **same polarisation** as the Pico Patch (RHCP with RHCP, LHCP with LHCP).
- For goggles with a diversity receiver, ideally one more omnidirectional antenna of the same polarisation for the second input.

2.2 Fitting the antenna

- ① Switch off the FPV goggles or the ground station.
- ② Check the polarisation: the RHCP / LHCP marking on the front of the antenna must match the antenna on the drone.
- ③ Make sure the receiver antenna input is of the SMA type. If the receiver has an RP-SMA connector, use a suitable adapter (not included).
- ④ Place the antenna with its rear connector side onto the antenna input and screw it on **by hand only**, without tools, until it seats. Do not overtighten.
- ⑤ Turn the front side of the antenna (with the logo and polarisation marking) towards the direction in which you will fly.
- ⑥ Switch on the goggles and check the video reception from the drone.

2.3 Polarisation and pointing

The antenna is supplied in two versions that differ only in the direction of circular polarisation. You can tell them apart at a glance by the marking on the front side. An antenna with a polarisation different from that of the drone's video transmitter will significantly degrade reception.

- The Pico Patch is a **directional** antenna: it receives best from the area in front of its front side, within approximately 61° (at the –3 dB points). Outside this angle reception weakens, and it is weakest behind the antenna.
- When flying, try to keep the drone in front of you, in the direction the front of the antenna is pointing.
- For flying close by and around you, combine it with an omnidirectional antenna on a diversity receiver – the receiver automatically selects the stronger signal.



RHCP version (left) and LHCP version (right)

2.4 Safety and care

- Screw the antenna on and off by hand only, holding it by its base; do not overtighten the connector and do not use the antenna as a handle for the goggles.
- Protect it from drops, impacts and bending of the connector. A damaged antenna or connector will degrade video reception.
- Keep the connector clean and dry. Clean the antenna with a dry soft cloth; do not use solvents.
- The antenna is a small object – keep it out of the reach of small children.
- The operation of FPV equipment (frequencies and output power of the video transmitter, flying rules) is governed by the law of the country in which it is operated; that law is decisive.
- The product is intended for persons aged 14 and over.

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 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.