GEPRC MOZ7 V2

Frame for a 7.5–8" long-range FPV drone
User manual



The frame is supplied without electronics. Read the entire manual and the safety instructions before building and the first flight.

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1. Product description

1.1 What it is for

The **GEPRC GEP-MOZ7 V2** is a carbon frame for building a long-range FPV drone with 7.5–8" propellers. The frame is designed for the **DJI O4 Air Unit Pro** digital video transmitter: the camera sits in front of the arms, so no propellers are visible in the camera view. Aluminium side plates hold the camera, a metal top cover protects the lens and a heat sink with fins and vents removes heat from the O4 Air Unit Pro.

The frame is supplied as a kit **without electronics**. The 6 mm thick arms with vertical reinforcement increase rigidity and allow the battery to be mounted on the top or on the bottom of the frame. The kit includes a 25 × 25 mm GPS antenna mount, a front T-shaped antenna mount, a rear vertical antenna mount, an interchangeable action camera mount and durable landing gear.



Two battery mounting options: on top (easier landings) and underneath (lower centre of gravity). Illustrative photo by the manufacturer.

1.2 Technical data and package contents

Product designation	GEP-MOZ7 V2 Frame (manufacturer SKU GP107754)
Manufacturer	GEPRC (geprc.com)
Dimensions	376 × 303 × 35.5 mm
Wheelbase (diagonal)	336 mm
Frame weight	270 g ± 5 g
Recommended propellers	7.5–8"

Top / bottom plate thickness	2.5 mm / 2.5 mm
Arm thickness	6 mm
Clamp plate thickness	3 mm
Flight controller (FC) mounting	30.5 × 30.5 mm (M3), 25.5 × 25.5 mm (M2), 20 × 20 mm (M3)
Video transmitter (VTX) mounting	25.5 × 25.5 mm (M2), 20 × 20 mm (M2)
Motor mounting	16 × 16 mm / 19 × 19 mm (M3)
Camera mounting	20 mm (M2)
GPS mount	25 × 25 mm, for M1025-series GPS modules
Colour of printed parts	Coral Orange

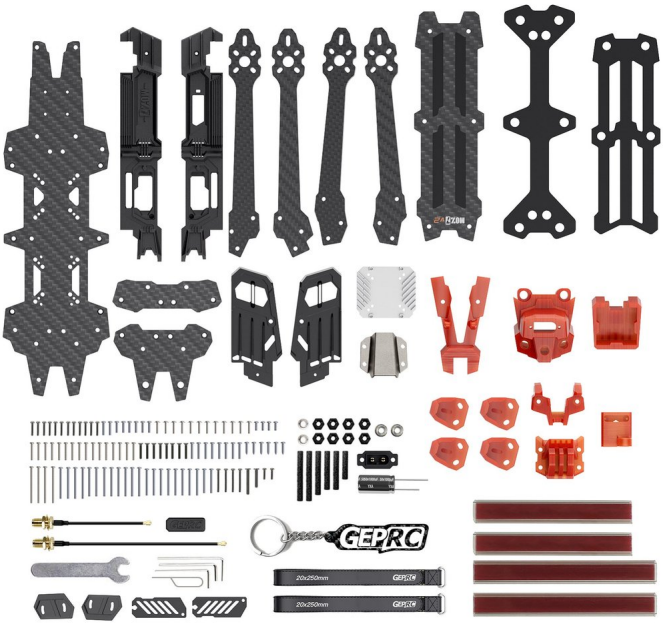
Dimensions and weight are given by the manufacturer for reference only; the actual product may differ slightly.

▶ Package contents (according to the manufacturer)

- 1× GEP-MOZ7 V2 frame kit (carbon plates and arms, side panels, aluminium parts)
- battery straps, 20 mm wide
- 1× upper and 1× lower anti-slip battery pad
- 1× printed parts pack (antenna, GPS and action camera mounts, landing gear)
- 1× screw pack
- L-shaped hex keys: 1× 1.5 mm, 2× 2 mm, 1× 3 mm
- 1× M8 wrench

※ The manufacturer's photo of the package contents (figure below) additionally shows an XT60 connector with holder, a capacitor, two antenna cables with SMA connectors and a key ring; the manufacturer's written list does not mention these items.

NOT included: motors, flight controller (FC), electronic speed controllers (ESC), video transmitter and camera (e.g. DJI O4 Air Unit Pro), receiver, GPS module, propellers, battery or action camera.



Package contents according to the manufacturer's photo.

2. Use

2.1 Before you start building

Building a drone from a frame requires basic skills in assembly, soldering and setting up FPV electronics. The manufacturer does not publish a detailed assembly guide for this frame; the frame features according to the manufacturer and general building principles are given below.

- Before assembly, lay out all parts and check them against the package contents (Chapter 1.2).
- Make sure the selected electronics match the mounting patterns of the frame: flight controller (FC) 30.5 × 30.5 mm, 25.5 × 25.5 mm or 20 × 20 mm, video transmitter 25.5 × 25.5 mm or 20 × 20 mm, motors with 16 × 16 mm or 19 × 19 mm mounting.
- The frame is designed for 7.5–8" propellers. Do not use longer propellers.
- Work in a clean, well-lit place and keep small screws in a tray.

2.2 General assembly principles

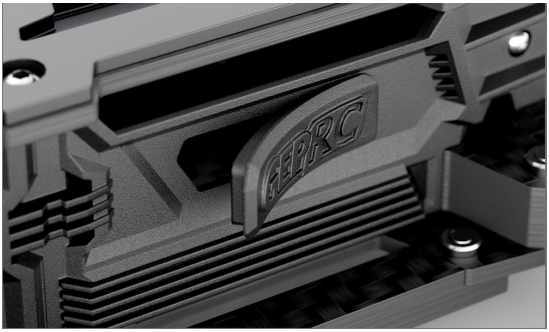
- Tighten screws moderately. Overtightening may strip the thread or damage the carbon plate.
- For threads in metal we recommend a medium-strength threadlocker. Do not use threadlocker on screws driven into plastic (printed) parts.
- Edges of carbon plates may be sharp and carbon dust is irritating. Do not sand the plates without respiratory protection; route cables so that they do not rub against the edges.
- Carbon is electrically conductive. Solder joints, wires and electronic boards must not touch the carbon directly – risk of short circuit.
- Secure motor and power cables so that they cannot reach the propellers.
- After assembly, check that the frame does not twist and that all arms are firmly clamped.

2.3 Camera, video transmitter and cooling

The aluminium camera side plates are designed for the **DJI O4 Air Unit Pro**. According to the manufacturer, the HD version is designed for the O4 Air Unit Pro and the analogue version is compatible with the Caddx Ratel 2 camera. The silicone dampers do not support the DJI O3 Air Unit.

- Fit the O4 Air Unit Pro with the supplied aluminium heat sink. The vents in the side panels must remain clear so that air can flow.
- Covers in the side panels give access to the data connector and the memory card slot of the O4 Pro unit.

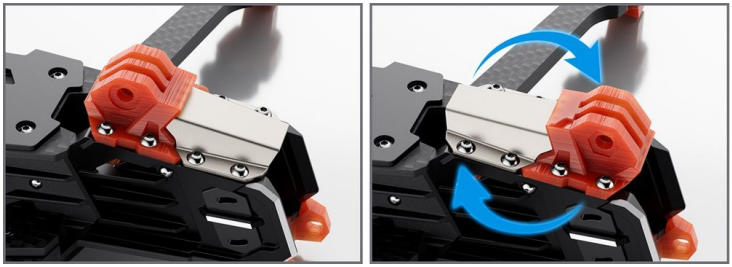
- A rubber plug in the side panel covers the access to the flight controller (FC) – open it to connect a USB cable for configuration.



Rubber plug covering the flight controller access. Illustrative photo by the manufacturer.

2.4 Action camera mount

The metal cover above the camera and the action camera mount are interchangeable, so the centre of gravity can be adjusted to the action camera and battery used.



Swapping the metal cover and the action camera mount. Illustrative photo by the manufacturer.

2.5 GPS, antennas and power connector

- The GPS module is mounted on the rear printed part (25 × 25 mm mount, M1025-series modules). The mount can be tilted; the GPS antenna must face the sky.
- The front T-shaped mount and the rear vertical mount hold the receiver antennas (e.g. for dual-frequency reception).
- The XT60 power connector is fixed firmly in the rear holder so that the battery cable cannot get into the propellers.



Rear part with GPS mount and XT60 connector.
Illustrative photo by the manufacturer.

2.6 Battery mounting

The battery can be mounted on the top plate (easier landings) or on the underside of the frame (lower centre of gravity). Always use the anti-slip pad and the battery straps; the battery must be clamped so that it cannot shift in flight.

- Before every flight, insert a **fully charged** battery (Li-Po 4.20 V/cell, LiHV 4.35 V/cell).
- Route the battery cable out of reach of the propellers.

3. Safety and operation of the finished drone

3.1 Safety instructions

- Rotating propellers can cause serious injury. Fit the propellers only after setup is complete and the motor direction has been checked; always remove the propellers when working on the drone with a battery connected.
- Charge Li-Po and LiHV batteries under supervision, on a non-flammable surface and with a suitable charger. Do not use a damaged, swollen or overheated battery.
- End the flight at the latest at **3.5 V/cell** under load. Store the battery at **3.8 V/cell**. The voltage of the whole battery is a multiple of the number of cells.
- After a crash, check the arms, plates and screws. Replace cracked or delaminated carbon parts – do not fly with them.
- This product is not a toy. Keep small parts out of the reach of children.

3.2 Legal conditions of operation

Regulations (EU) 2019/947 and 2019/945 apply in all member states of the European Union, but national implementing rules differ from state to state – registration portals, minimum pilot age, geographical zones, compulsory insurance, permitted frequency bands and maximum transmission power. The information in this chapter describes the situation in the Czech Republic. If you operate the drone in another country, you must follow the regulations of the state in which you fly.

- A drone built on this frame is an unmanned aircraft. The operator and the pilot are responsible for its operation, its classification into an operational category and compliance with the regulations.
- A drone with a camera requires **operator registration** (in the Czech Republic with the Civil Aviation Authority) and the registration number must be displayed on the drone. The pilot must hold the appropriate competency.
- In the open category, in particular: height up to 120 m, flight within visual line of sight (VLOS), no flying over assemblies of people. When flying with FPV goggles, an observer must stand next to the pilot.
- A finished drone without a class label weighing more than 250 g can usually be operated in the open category only in subcategory A3 – far from people and 150 m from residential, commercial, industrial and recreational areas.
- Transmitters (radio control, video transmitter) must operate in permitted bands and at permitted power. The user is responsible for the power setting.
- We recommend taking out liability insurance for damage caused by operating the drone.

4. Maintenance

- After every flight, check the arms, plates, printed parts and the tightness of the screws, especially the motor and arm screws.
- Regularly check the battery straps and anti-slip pads; replace worn ones.
- Keep the heat sink and side panel vents clear of dust and grass.
- Remove dirt with a dry or slightly damp cloth. Do not use solvents – they may damage the printed parts.
- Replace damaged parts with original spare parts for the GEP-MOZ7 V2 frame.

5. Information for the EU and Czech Market

5.1 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

5.2 Disposal

- The frame (carbon, aluminium, plastic, screws) is not electrical equipment. At the end of its service life, dispose of it in sorted waste according to the rules of your municipality, metal parts in metal collection.
- Do not burn carbon parts and do not cut or sand them without respiratory protection.
- Electrical parts (connector with cables, capacitor, antenna cables) and the finished drone including electronics **must not be disposed of in mixed municipal waste** – hand them over at a take-back point for electrical equipment. Take-back is free of charge for the end user. Hand over batteries separately at a battery take-back point.
- Dispose of packaging in sorted waste (paper, plastics).

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.

6. Warranty and rights arising from defective performance

6.1 Rights of the buyer under Czech law

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 5.1.
- 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.