Chimera7 Pro V2 O4

iFlight · 7.5" long-range FPV drone · 6S · DJI O4 Air Unit Pro · GPS

User manual – PNP version (no receiver)



Read the entire manual before the first flight, especially the safety instructions and chapter 3 on the legal requirements for operation.

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1. Safety instructions

1.1 Before you start

The Chimera7 Pro V2 O4 is a powerful 7.5-inch FPV drone intended for experienced pilots. **It is not a toy** and is not intended for children. Before the first flight, read this entire manual and the manuals for the goggles, radio and batteries you use with the drone. Keep this manual and pass it on to the next user if you hand over the drone.

- According to the manufacturer, the drone reaches speeds of up to 140 km/h and, with 7.5" propellers and powerful motors, can cause serious injury or property damage in an accident.
- Fly only when you are rested and focused, and not under the influence of alcohol, drugs or medication that impairs attention.
- Do not make modifications to the drone that you do not understand. Incorrect firmware settings, wiring or receiver setup may result in loss of control of the drone.
- The pilot and the UAS operator are always responsible for safe operation and compliance with regulations (see chapter 3).

1.2 Rotating propellers and mechanical hazards

- During configuration on a computer, binding, motor tests and firmware updates, **always keep the propellers removed**.
- Never approach the drone with a battery connected while it is armed (motors on). Do not pick up the drone until it is disarmed and the battery is disconnected.
- The propellers are sharp and thin – take care not to cut yourself when handling them. Replace damaged, cracked or bent propellers immediately.
- The motors and the video transmitter module get hot during operation. Do not touch them after a flight until they have cooled down.
- Do not fly over people, animals or vehicles, or near power lines.

1.3 Li-Po and Li-Ion batteries

- The drone is powered by a six-cell (6S) battery with an XT60 connector. The battery is not included.
- Charge batteries only with a balance charger designed for the cell type, on a non-flammable surface and under supervision. Never leave batteries charging unattended.
- Charge Li-Po batteries to a maximum of 4.20 V/cell (25.2 V for 6S) and LiHV Li-Po batteries to a maximum of 4.35 V/cell (26.1 V for 6S).
- Do not use or charge a battery that is mechanically damaged, swollen, punctured or overheated. After a crash, place it in a safe location and monitor it.

- Always disconnect the battery after a flight. Do not leave it connected in the drone, in a car in the sun or near heat sources.
- Store and transport batteries in a fireproof bag at 3.8 V/cell (22.8 V for 6S).

1.4 Operating environment

- Operating temperature according to the manufacturer: −10 °C to 40 °C.
- Do not fly in rain, snow, fog, high humidity or over wet grass. The drone electronics are not waterproof.
- Do not fly in strong wind, during thunderstorms or in reduced visibility.
- Take off from an open area free of obstacles, away from people and valuable property. Large metal structures and transmitters may interfere with GPS and radio links.
- Do not run the DJI O4 Air Unit Pro video transmitter module on the ground for long periods in hot conditions without airflow – it may overheat.

2. Product description

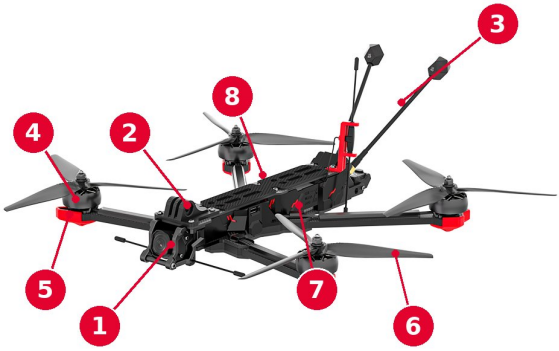
The iFlight Chimera7 Pro V2 O4 is a 7.5-inch long-range FPV drone with a DeadCat frame (the propeller arms are not visible in the camera image), DJI O4 Air Unit Pro digital video transmission and a pre-installed GPS module. It is supplied as a **PNP version without a receiver** – it is controlled with a DJI FPV Remote Controller 2 or 3 via the DJI O4 transmission system (SBUS protocol); alternatively, you can add your own receiver (chapter 5.4).

2.1 Package contents

Item	Qty
Chimera7 Pro V2 O4 6S HD drone (PNP)	1×
HQ 7.5" propellers (pairs)	2×
Anti-slip battery pad	1×
Battery strap	2×
Bag of screws	1×

Not included: battery, charger, FPV goggles, radio (RC set), receiver, action camera and its mount, microSD card. These items must be purchased separately.

2.2 Parts



Illustrative photo. The PNP version has no receiver antenna; appearance may vary by production batch.

① DJI O4 Air Unit Pro camera	⑤ TPU arm protector
② Action camera mount (GoPro)	⑥ HQ 7.5" propeller
③ DJI O4 video transmitter antennas	⑦ Side panel with LEDs
④ XING2 2809 1250KV motor	⑧ Top plate for the battery

At the rear of the frame are the power lead with an **XT60** connector and anti-spark protection (anti-spark filter), and the GPS module. Inside the frame are

the flight controller (FC), the ESC (electronic speed controller) and the video transmitter module with a binding button (Link), status LED, USB-C port and microSD card slot.

2.3 Specifications

Parameter	Value
Model	Chimera7 Pro V2 O4 6S HD, PNP version (no receiver)
Type	7.5" long-range FPV drone, DeadCat geometry
Diagonal motor wheelbase	327 mm
Flight controller (FC)	iFlight BLITZ F722 (STM32 F722)
ESC	iFlight BLITZ E55 4-in-1, 2–6S, 55 A continuous, 65 A peak
Motors	iFlight XING2 2809 1250KV
Propellers	HQ 7.5×3.7×3 or HQ 7.5×3×3 (depending on production batch)
Video transmitter (VTX)	DJI O4 Air Unit Pro
GNSS	pre-installed module; GPS + SBAS + Galileo + QZSS + GLONASS
Power supply	6S battery, XT60 connector
Weight without battery	725 ± 5 g
Take-off weight	approx. 1,621 ± 5 g (with battery)
Dimensions (L × W × H)	270 × 199 × 34 mm (± 2 mm)
Max. speed	approx. 140 km/h
Max. take-off altitude	3,200 m
Max. hover time	approx. 25 min (no payload, with battery)
Operating temperature	−10 °C to 40 °C
Receiver	not included; control via DJI FPV Remote Controller 2/3 over SBUS

※ Speed, take-off altitude and hover time are manufacturer figures measured under ideal conditions. Actual values depend on the battery, wind, temperature, payload and flying style.

2.4 Flight controller (FC) and ESC

BLITZ F722 flight controller	Value
Processor	STM32 F722
Firmware	Betaflight, target **IFRC-IFLIGHT_BLITZ_F722**

BLITZ F722 flight controller	Value
Blackbox memory	32 MB
UART	6
BEC	5 V / 2.5 A, 9 V / 2 A
BLITZ E55 ESC	Value
Input voltage	2–6S
Current	55 A continuous, 65 A peak
Protocols	DShot150/300/600, MultiShot, OneShot
Firmware	BLHeli_32

The manufacturer supplies the drone with a factory Betaflight configuration (preset) loaded. According to the manufacturer's preset for the DJI-controlled version, the serial ports are assigned as follows:

Port	Function in the factory configuration
UART1	DJI O4 video transmitter – MSP / DisplayPort (OSD in the goggles)
UART2	receiver – Serial RX, SBUS protocol from the DJI O4 module
UART4	GPS module
UART6	ESC telemetry

The preset also enables the LED strip, OSD, the buzzer on signal loss (RX_LOST) and bidirectional DShot300. The flight controller revision (e.g. V1.2) is marked directly on the board; the wiring diagram for revision V1.2 is available on the manufacturer's website (chapter 5.9).

2.5 DJI O4 Air Unit Pro video transmitter

Data provided by the manufacturer DJI:

Parameter	Value
Sensor	1/1.3" CMOS
Lens field of view	155°
Video recording	up to 4K; MP4, max. 130 Mb/s
Live view	1080p at up to 100 fps
Stabilisation	RockSteady 3.0+; can be disabled (for Gyroflow)
Colour mode	Normal, D-Log M
Operating frequencies	5.170–5.250 GHz; 5.725–5.850 GHz
Transmit power (e.i.r.p.), CE	5.1 GHz: < 23 dBm; 5.8 GHz: < 14 dBm
Transmission range (CE)	up to 8 km with DJI Goggles 3 / N3 (unobstructed, no interference)

Parameter	Value
Storage	4 GB built-in, microSD up to 512 GB
Compatible goggles	DJI Goggles 3, Goggles N3, Goggles 2, Goggles Integra
Compatible radios	DJI FPV Remote Controller 3 (with Goggles 3 / N3), DJI FPV Remote Controller 2 (with Goggles 2 / Integra)

※ Goggles from other manufacturers do not work with DJI O4. O4 is not intended for older-generation DJI goggles (DJI FPV Goggles V1/V2).

3. Legal requirements for operation in the Czech Republic and the EU

3.1 The law of the country where you fly applies

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 transmit 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.

3.2 Drone classification and operational category

- The drone **does not have a C0–C6 class label** under Regulation (EU) 2019/945 and was placed on the market after 1 January 2024. The transitional provision of Art. 20 of Regulation (EU) 2019/947 therefore does not apply to it.
- Under Art. 4 of Regulation 2019/947, the open category is intended for drones with class labels C0–C6, privately built drones and drones under Art. 20. A purchased ready-made drone cannot simply be regarded as privately built.
- Operation is therefore possible mainly **within a model aircraft club or association** holding an authorisation from the Civil Aviation Authority of the Czech Republic (ÚCL) under Art. 16 of Regulation 2019/947, or in the **specific category** on the basis of an ÚCL authorisation.
- Before the first flight, check in which category you may operate the drone; if in doubt, contact ÚCL (www.caa.gov.cz). When determining the category, use the actual take-off weight including the battery and accessories.

3.3 UAS operator registration and pilot competency

- The drone is equipped with a camera and weighs more than 250 g – its UAS operator must **register** with ÚCL on the dron.caa.gov.cz portal. Display the UAS operator registration number on the drone.
- The pilot must hold the competency required for the operational category (online training and test on the dron.caa.gov.cz portal, or the club requirements under Art. 16, or the authorisation in the specific category).
- The minimum pilot age in the Czech Republic is 16 years, unless the club authorisation under Art. 16 specifies otherwise.

3.4 Operational limits

- Do not fly higher than 120 m above the closest point of the earth's surface, unless the authorisation specifies otherwise.

- Keep the drone within visual line of sight (VLOS). Do not fly over assemblies of people.
- Respect geographical zones – the current map of zones in the Czech Republic is available at dronemap.gov.cz.
- Comply with the conditions of the club authorisation or the specific category authorisation under which you fly.

3.5 Flying with FPV goggles

When flying with FPV goggles, the pilot cannot see the drone directly. A **UA observer** must therefore stand next to the pilot, watch the drone with the naked eye, warn the pilot of hazards and remain in direct contact with the pilot.

3.6 Radio frequencies and transmit power

In the Czech Republic, operation is governed by the general authorisations VO-R/10 and VO-R/12 of the Czech Telecommunication Office (ČTÚ). The user is responsible for the transmit power and frequency settings.

Band	Use	Limit in the Czech Republic
5170–5250 MHz	DJI O4 video transmission	200 mW e.i.r.p. (VO-R/12); drones must not transmit in the 5150–5170 MHz sub-band
5725–5850 MHz	DJI O4 video transmission	25 mW e.i.r.p. (VO-R/10)
2400–2483.5 MHz	own 2.4 GHz receiver	25 mW e.i.r.p. (VO-R/10)
863–870 MHz	own 868 MHz receiver	usually 25 mW e.r.p. with duty cycle restriction (VO-R/10)

- Maximum transmit power of the DJI O4 Air Unit Pro in CE mode, as stated by DJI: **< 23 dBm** e.i.r.p. (5.1 GHz) and **< 14 dBm** e.i.r.p. (5.8 GHz).
- The module's region (radio mode) is set automatically when connected to DJI Assistant 2. Use CE mode only; unlocking FCC mode and higher power is illegal in the Czech Republic.
- Use only original antennas; external amplifiers are prohibited. Outside the Czech Republic, the limits of the respective country apply.

3.7 Privacy and insurance

- The camera records its surroundings. Respect the privacy of others – do not record people or private property without consent and do not publish such recordings unlawfully.
- Third-party liability insurance is compulsory in the specific category. We recommend taking it out in any case.

4. Preparing for the first flight

4.1 What else you need

- **DJI Goggles 3** or **Goggles N3** with the **DJI FPV Remote Controller 3** radio, or **DJI Goggles 2** or **Goggles Integra** with the **DJI FPV Remote Controller 2** radio. Instead of a DJI radio, you can use another radio with your own receiver (chapter 5.4).
- A 6S battery with an XT60 connector and a suitable charger.
- A computer with **DJI Assistant 2 (Consumer Drones Series)** and **Betaflight Configurator**, and a USB-C data cable.
- A microSD card for video recording (optional) and a hex key for mounting the propellers.

4.2 Choosing and connecting the battery

The drone is designed exclusively for **6S** batteries. Rotorama recommends 6S Li-Po batteries with a capacity of 2000–4500 mAh or 6S1P–6S2P Li-Ion batteries made of 21700 cells. A heavier battery extends flight time but reduces manoeuvrability and lengthens the braking distance.



Illustrative photo – battery mounted on the top plate. The battery and action camera are not included.

① Place the anti-slip pad on the top plate and put a **fully charged** battery on it.

② Secure the battery firmly with both straps so that it cannot shift during flight and its lead does not reach the propellers.

③ Connect the battery only just before the flight, with the drone on the ground, and always with the radio switch set to Disarm.

6S battery state	Li-Po	LiHV
Fully charged	4.20 V/cell = 25.2 V	4.35 V/cell = 26.1 V
End flight	3.5 V/cell = 21.0 V	3.5 V/cell = 21.0 V
Storage	3.8 V/cell = 22.8 V	3.8 V/cell = 22.8 V

❖ For Li-Ion batteries, follow the values specified by the battery manufacturer and adjust the voltage warnings in Betaflight accordingly. Li-Ion batteries are suitable for calm long-range flights, not for aggressive flying.

4.3 Mounting the propellers

- Mount the propellers only after completing all settings and binding, with the battery disconnected.
- Two propellers rotate clockwise (CW) and two counter-clockwise (CCW). Check the motor rotation direction in Betaflight Configurator on the *Motors* tab (without propellers) and fit the propellers so that their leading edge points in the direction of motor rotation.
- Tighten the propeller nuts firmly and check them before every flight.
- Propellers are consumables – replace worn or damaged ones with new ones of the same type.

4.4 GPS module and buzzer

The GPS module is pre-installed and connected to the flight controller. The OSD in the DJI goggles can then display speed, distance from the take-off point and direction to the take-off point. **GPS Rescue is disabled by default** – the setup is described in chapter 5.7.

- How quickly satellites are found and how many depends strongly on the environment. In bad weather, between buildings or under trees, the drone finds fewer of them.
- After connecting the battery, leave the drone still in an open area before take-off until it has found a sufficient number of satellites.
- In the factory configuration, the buzzer beeps when the radio signal is lost and helps you locate the drone.

4.5 LEDs

The side panels of the frame are lit by LEDs controlled by the flight controller (LED_STRIP function in Betaflight). Colours and modes can be changed in Betaflight Configurator on the *LED Strip* tab.

4.6 Camera, filters and action camera

- Before first use, remove the protective film from the camera lens.

- According to the manufacturer, the original DJI ND filters for the O4 Air Unit Pro do not fit this drone. Use the **iFlight O4 Air Unit Pro ND Filters** set.
- The O4 camera uses a new generation of gyroscopes that are more sensitive to vibration. Vibration can affect RockSteady stabilisation and Gyroflow – make sure the propellers are balanced and undamaged and the screws are tight.
- An action camera can be mounted on the top plate with a suitable mount (not included). An action camera increases the take-off weight, changes the flight characteristics and shortens flight time.

5. Setup

Keep the propellers removed during all steps in this chapter.

5.1 Activating the DJI O4 video transmitter

The DJI O4 Air Unit Pro module must be activated before first use. A non-activated module transmits at limited power (≤ 20 mW) and the menu of the connected goggles cannot be operated.

① Install **DJI Assistant 2 (Consumer Drones Series)** from the DJI website on your computer.

② Remove the propellers and connect a battery to the drone – the O4 module must be powered from the drone; USB power is not sufficient.

③ Connect the O4 module to the computer with a USB-C cable.

④ Start DJI Assistant 2 and log in with your DJI account.

⑤ Click the DJI O4 Air Unit icon, select *Start Activation* and complete the activation following the on-screen instructions.

⑥ In the same program, update the firmware to the latest version via *Firmware Update*. When finished, restart all devices.

The DJI goggles and radio must also be activated – follow their manuals.

5.2 Binding the drone to the goggles

Before binding, update all devices to the latest firmware.

① Connect a battery to the drone (without propellers) and switch on the goggles and the radio.

② In the goggles menu, open *Status* and select **DJI O4 Air Unit** as the device in the top right corner.

③ Check that the status LED of the O4 module is solid red. Press the binding button (Link) on the O4 module once – the LED starts flashing red. Use tweezers or another thin object to press it.

④ Press the binding button on the goggles. The goggles start beeping continuously.

⑤ When binding is successful, the O4 module LED turns solid green, the goggles stop beeping and display the live view.

5.3 Binding the DJI FPV Remote Controller

① Put both the goggles and the radio into binding mode (according to their manuals). The goggles beep continuously, the radio beeps and its battery level LEDs flash in sequence.

② After binding, the goggles stop beeping and display the live view, and the radio stops beeping.

③ In the goggles menu, select the **SBUS** protocol for control.

The binding procedure and order may vary depending on the combination of goggles and radio – follow the goggles manual.

▶ Matching the SBUS protocol

The protocol in the goggles and in Betaflight must match; otherwise the flight controller does not receive a signal from the radio and the drone cannot be armed. The default is *sbus_baud_fast = off* in Betaflight and the *NORMAL* protocol in the goggles. For lower latency, select the *FAST* protocol in the goggles and enter the following on the *CLI* tab in Betaflight Configurator:

set sbus_baud_fast = on
save

5.4 Own receiver (other radio)

To control the drone with a radio other than DJI (e.g. with the ExpressLRS or TBS Crossfire protocol), you must add a suitable receiver. This modification requires experience with soldering and Betaflight configuration.

- In the version for DJI radios, the SBUS signal between the O4 module and the flight controller is wired to input R2 (UART2). For a receiver with the CRSF protocol, disconnect this SBUS connection or connect the receiver to another free UART.
- According to the manufacturer's wiring diagram, a CRSF receiver connects to pads T2, R2, 5V and GND (receiver TX to R2, receiver RX to T2).
- Then, in Betaflight Configurator, enable *Serial RX* for the UART used on the *Ports* tab and select the *CRSF* protocol on the *Receiver* tab. In some cases, you need to reflash the firmware with the correct receiver option.
- Route the receiver antennas away from carbon parts, motors and propellers.
- Bind the receiver to the radio according to the receiver manual. Damage caused by incorrect wiring is not a product defect.

Official documentation: www.expresslrs.org and www.edgetx.org.

5.5 Connecting to Betaflight Configurator and calibration

① Install the current **Betaflight Configurator** (www.betaflight.com).

② Remove the propellers, connect a battery to the drone and connect the flight controller to the computer with a USB cable. Some functions (video transmitter, GPS, DJI control) work only with the battery connected.

③ Click *Connect*. On the *Setup* tab, check that the drone model tilts in the same way as the real drone.

④ Place the drone on a flat, level surface and select *Calibrate Accelerometer*.

⑤ On the *Receiver* tab, check that the stick movements of the radio match the channels. On the *Motors* tab (without propellers!), check the motor order and rotation direction.

※ The drone is configured at the factory and does not require a firmware update or changes in Betaflight before the first flight. Before making any change, back up the configuration (CLI command *diff all*).

5.6 Arm, Disarm, flight modes and failsafe

- **Arm** (motors on) is assigned to channel **AUX1** in the factory configuration – switch in the upper position. The drone can be armed only with the throttle at minimum.
- **Disarm** (motors off) – move the AUX1 switch back to the lower position.
- **Angle** mode (self-levelling) is **permanently enabled** in the factory configuration. Experienced pilots can disable it on the *Modes* tab and fly in Acro mode.
- Failsafe: if the radio signal is lost, the drone stops the motors or starts GPS Rescue, depending on the settings on the *Failsafe* tab. Test the failsafe function without propellers by switching off the radio.
- If the drone cannot be armed, find the cause on the *Setup* tab in the *Arming Disable Flags* field.

5.7 GPS Rescue

GPS Rescue is a Betaflight safety function which, when correctly configured, is designed to bring the drone back to the take-off point, e.g. if the radio signal is lost. **It is not a certified return-to-home function** and must not be relied upon. The function is **disabled** by default.

① Study the Betaflight documentation on GPS Rescue.

② In Betaflight Configurator, enable Expert mode, set up GPS Rescue on the *Failsafe* tab and adjust the parameters (altitude, speed, minimum number of satellites) to the environment.

③ On the *Modes* tab, assign GPS Rescue to a separate switch for manual tests.

④ Carry out the first tests in a safe open area within direct line of sight: fly away in a straight line farther than the set descent distance, check that the home arrow in the OSD points correctly, and activate GPS Rescue manually.

- If GPS Rescue starts automatically, take over control by moving any stick – **do not toggle** the GPS Rescue switch.
- If you activated GPS Rescue manually, take over control by toggling the switch back.
- If you take over control after an automatic activation and then toggle the switch, GPS Rescue is activated again. If the conditions for return are not met, the drone stops the motors and falls.
- Incorrect settings, too few satellites, a depleted battery or strong wind can lead to a crash even with GPS Rescue enabled. Always keep a battery capacity reserve for the return flight.

5.8 Video transmission settings

- Set the transmit power in the goggles menu under *Transmission* → *Transmission Power* (Auto or a fixed level). The available levels depend on the region; in the Czech Republic, observe the limits in chapter 3.6.
- Set the channel under *Transmission* → *Channel Mode* (Auto or Manual). Some channels may not be available in some countries.
- When powered on the ground, the O4 module switches to a power-saving mode to prevent overheating, which reduces transmission quality. After take-off or when recording starts, it returns to full power. Therefore, take off as soon as possible.
- Video recording to the microSD card in the module starts with the motors and stops when the motors are disarmed. Recording stops if the card is full or the module overheats.
- The flight controller OSD (voltage, GPS data) is displayed in the goggles in Canvas mode. Adjust the OSD elements in Betaflight Configurator on the *OSD* tab.

5.9 Firmware update

- Update the Betaflight firmware only when necessary. Flash only the **IFRC-IFLIGHT_BLITZ_F722** target, not generic STM32 targets. For the version for DJI radios, select the **SBUS** receiver protocol when flashing.
- After the update, restore the manufacturer's configuration: in Betaflight Configurator, on the *Presets* tab, add the iFlight preset source and apply the preset for the Chimera7 Pro V2 with DJI control matching the firmware version. Then calibrate the accelerometer again.
- The BLITZ E55 ESC firmware (BLHeli_32) is configured with BLHeliSuite32Test, which can be downloaded from the ESC page on the manufacturer's website.
- Update the firmware of the DJI O4 module, goggles and radio with DJI Assistant 2 (Consumer Drones Series).
- Wiring diagrams and manufacturer support: www.iflight.com (Support section) and iflightrc.freshdesk.com.

6. Flight

6.1 Pre-flight check

- The video transmitter antennas are correctly installed and undamaged. The XT60 connector is clean, undamaged and fully inserted.
- The battery is **fully charged**, undamaged, not swollen and firmly secured with the strap.
- The propellers are undamaged, fitted in the correct direction and tight; frame and motor screws are not loose.
- The radio is on and bound, the Arm switch is in the Disarm position and the throttle is at minimum.
- The image in the goggles is stable and the OSD shows the battery voltage and GPS status.
- If GPS Rescue is configured, the drone has enough satellites and has recorded the home point.
- The take-off area is clear of people and obstacles, and the flight complies with chapter 3.

6.2 Take-off and basic control

① Place the drone on a flat surface, connect the battery and step back.

② Put on the goggles (observer next to you); check the image and OSD.

③ With the throttle at minimum, flip AUX1 to Arm. The motors spin up to idle.

④ Smoothly increase throttle and take off. Fly first in Angle mode in a large open area.

⑤ Landing: descend over the landing spot, reduce throttle and disarm right after touchdown.

⑥ After landing, disconnect the battery.

6.3 Monitoring voltage and ending the flight

- Monitor the battery voltage in the OSD. End the flight no later than when the resting voltage drops to **3.5 V/cell (21.0 V for a 6S Li-Po)**.
- On long-range flights, allow a reserve for the return flight, wind and altitude changes. Deep discharge damages the battery permanently.

6.4 Locating the drone after a crash

- After a crash, disarm immediately. You can read the last GPS position in the OSD or in the goggles recording.
- The buzzer beeps when the radio signal is lost. Locate the drone as soon as possible and inspect it thoroughly before the next flight (chapter 7.1).

7. Maintenance and troubleshooting

7.1 After every flight

- Disconnect the battery and let the drone cool down.
- Check the propellers, arms, TPU protectors, antennas, video transmitter cable and camera mount.
- Remove grass, sand and dirt from the motors and frame. The motors should spin freely without rubbing.
- Check that the motor, propeller and frame screws are tight.

7.2 Replacing propellers and parts

- Use 7.5" propellers matching the original type and observe the direction of rotation (CW/CCW).
- When replacing a motor, use screws of the correct length – a screw that is too long can damage the motor windings.
- Do not bend or kink the O4 camera coaxial cable, especially near its connector – this may cause video dropouts.
- Spare frame parts and electronics are available from Rotorama.

7.3 Storage and transport

- Store the drone in a dry place at room temperature, with the battery disconnected.
- Store batteries at 3.8 V/cell (22.8 V for 6S) in a fireproof bag.
- Protect the antennas and camera from impacts during transport.

7.4 Troubleshooting

Problem	Possible cause and solution
No image in the goggles	The drone and goggles are not bound (chapter 5.2); DJI O4 Air Unit is not selected in the goggles; the O4 module is not activated or has outdated firmware.
Image is present, but the drone does not respond to the radio	The SBUS protocol in the goggles and in Betaflight does not match (chapter 5.3); the radio is not bound; Serial RX with the SBUS protocol is not enabled for UART2 in Betaflight; no battery is connected during configuration via USB.
The drone cannot be armed	The throttle is not at minimum; the drone is tilted; the radio signal is missing in the goggles; GPS Rescue is enabled and the drone does not have enough satellites. The cause is shown in the *Arming Disable Flags* field on the *Setup* tab.

Problem	Possible cause and solution
GPS does not find satellites	Covered area, buildings, trees or bad weather – move to an open area and wait.
Shaky video, stabilisation not working	Damaged or unbalanced propellers, loose screws, damaged camera mounting. The O4 camera gyroscopes are sensitive to vibration.
Video transmission degrades on the ground	Power-saving mode or overheating of the O4 module – take off as soon as possible; do not leave the drone powered on the ground for long.
Short flight time	Worn battery, cold weather, wind, heavy battery or action camera.

If these steps do not help, contact the seller (contact details in chapter 8.1).

8. Information for the EU and Czech Market

8.1 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

8.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation (Chimera7 Pro V2 O4 6S HD) and the batch or serial number are given on the product or its packaging. Manufacturer: iFlight Intelligent Technology Ltd., F6, Building B2, Galaxy IMC, Beixin Road, No. 6, Zhongkai Avenue, Huizhou 516006, Guangdong, China, support@iflight.com.

8.3 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.

9. Warranty and rights arising from defective performance

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 8.1.
- 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.