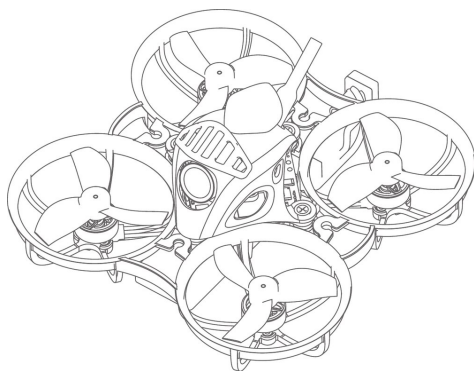




Meteor65 Pro II

Brushless Whoop Quadcopter – 1S, ExpressLRS 2.4 GHz
User Manual



**Read the entire manual before first use, especially chapters 1, 3 and 5.
This product is not a toy - it is intended for persons aged 14 and over.**

www.rotorama.com

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1. Safety Guidelines

1.1 Important Notices

- This product is an FPV quadcopter, classified as a multi-rotor model aircraft. It is NOT a toy and is not suitable for children under 14 years of age.
- Operating an FPV quadcopter requires basic technical knowledge and practice. Equipped with high-speed motors and sharp propellers, these quadcopters can reach high speeds and pose significant risks. Please familiarize yourself with all functions before operation. Incorrect operation may result in serious injury to yourself or others, as well as damage to the product or property.
- Do not use components not provided or recommended by BETAFPV. All installation and use must strictly follow BETAFPV guidelines. Please keep this manual for future reference as it contains essential safety, operation, and troubleshooting information.

1.2 Flight Warnings

- Do not fly in adverse conditions, such as high winds, rain, snow, thunderstorms, or heavy fog. This quadcopter is not waterproof or dustproof; avoid water exposure to prevent short circuits and electronic failure.
- Ensure the flight area is open and safe. Excessive obstacles may interfere with radio and video signals. Stay away from crowds, water, high-voltage power lines, communication base stations, and flammable/explosive materials.
- When flying visually, always keep the quadcopter within your line of sight.
- When flying with goggles, minimize obstacles between the quadcopter and the pilot. Since your surrounding awareness is limited, fly with a spotter to handle emergencies. It is highly recommended to remain seated while flying.
- Do not take off or land on non-fixed platforms, such as your palm, or moving vehicles and boats.
- Never touch spinning propellers, as they can cause severe personal injury or property damage.
- In the event of an emergency during flight, immediately disarm the motors via the radio transmitter.
- Operate the throttle stick gently to maintain stability and avoid sudden, erratic movements.

1.3 LiHV Flight Batteries

The battery is not included. The manufacturer recommends LAVA II 1S 480 mAh or 580 mAh LiHV (high-voltage lithium polymer) batteries with a BT2.0 connector for this drone. The manufacturer does not recommend the LAVA II 1S 680 mAh battery – due to its length, it may not fit into the battery slot. Lithium batteries contain a large amount of energy and may catch fire if handled improperly.

Battery state	Voltage per cell	1S battery
Fully charged (LiHV)	4.35 V	4.35 V
End flight	3.5 V	3.5 V
Storage	3.8 V	3.8 V

- Fully charge a new battery before first use. Always insert a fully charged battery into the drone before each flight.
- Use only a charger designed for lithium batteries and never leave charging unattended. Keep the battery away from flammable and explosive materials while charging.
- Never overcharge the battery. The maximum voltage is 4.20 V per cell for Li-Po and 4.35 V per cell for LiHV. Do not charge Li-Po batteries with a LiHV charger.
- End the flight at 3.5 V per cell at the latest. Deep discharge permanently damages the battery.
- Do not store fully charged batteries for more than 3 days. For long-term storage, keep them at 3.8 V per cell.
- Do not disassemble, deform or short-circuit the battery, and do not expose it to fire or other sources of ignition.
- Do not use deformed, damaged or swollen batteries.

1.4 Disclaimer

Please read this manual and all safety precautions carefully before using this product. BETAFPV and its authorized dealers shall not be held liable for any product malfunction, personal injury, or property damage resulting from failure to comply with the guidelines stipulated in this manual.

Any damages caused by inherent quality defects in the product or its accessories shall be handled in accordance with applicable laws, regulations, and BETAFPV's official warranty policy. If you do not agree to the terms of this user guide, please do not use this product and contact your seller.

By using this product, you are deemed to have understood, acknowledged, and accepted all terms and conditions herein. Users agree to take full responsibility for their own actions and all consequences arising therefrom, and to use this product only for legitimate purposes. This product documentation is subject to change without prior notice. Please visit betafpv.com for the latest information.

✳ The buyer's rights under Czech law are not affected by this provision - see chapter 9.

2. Product Description

The Meteor65 Pro II is a lightweight 1S tinywhoop with a 70 mm wheelbase, analog video transmission and propellers in protective ducts. It is suitable for flying both indoors and outdoors. It is supplied as a BNF (Bind-N-Fly) version with a built-in ExpressLRS 2.4 GHz receiver – to fly, you need your own radio transmitter, FPV goggles, batteries and a charger (chapter 5.1).

2.1 Package Contents

Qty	Item
1×	Meteor65 Pro II Brushless Whoop Quadcopter
4×	Gemfan 1409-3B Propellers (tri-blade)
4×	M1.4×3 Machine Screws
1×	USB Type-C Adapter (for connecting the flight controller to a computer)
1×	SH1.0-4Pin Adapter Cable
3×	Canopy Accessories
2×	Camera Mounts
1×	Phillips Screwdriver
1×	User Manual

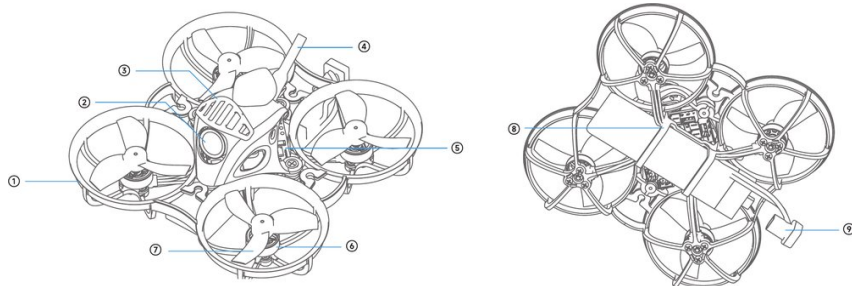
Packaging contents may differ by version, please refer to the actual product. The battery, charger, radio transmitter and goggles are not included.

2.2 Specifications

Parameter	Value
Version	analog version, 1S power, BNF with ExpressLRS 2.4 GHz receiver
Wheelbase (diagonal)	70 mm
Weight	22.60 g (without battery) – manufacturer's data
Frame	Meteor65 Pro II Brushless Whoop Frame, PP, 4.60 g
Battery slot	16.1 × 6.3 mm
Canopy	Canopy for Micro Camera 2022
Flight controller (FC)	Matrix 1S 5IN1 II – FC, electronic speed controllers (ESC), OSD, ELRS receiver and video transmitter in one
Motors	Racing 0802 (2026), 25,000 KV
Propellers	Gemfan 1409, tri-blade, 35 mm diameter, 1.0 mm shaft
Camera	Air Camera, 16:9, 173° field of view
Receiver	built-in serial ExpressLRS 2.4 GHz

Parameter	Value
Video transmitter (VTX)	built-in, 5.8 GHz, 48 channels, 25 / 100 / 200 / 400 mW
Recommended battery	LAVA II 1S 480 / 580 mAh, LiHV, BT2.0 connector
Flight time	up to 5 min 50 s (480 mAh) – manufacturer's data
Thrust-to-weight ratio	5.17 : 1 (with 480 mAh battery) – manufacturer's data

2.3 Product Appearance

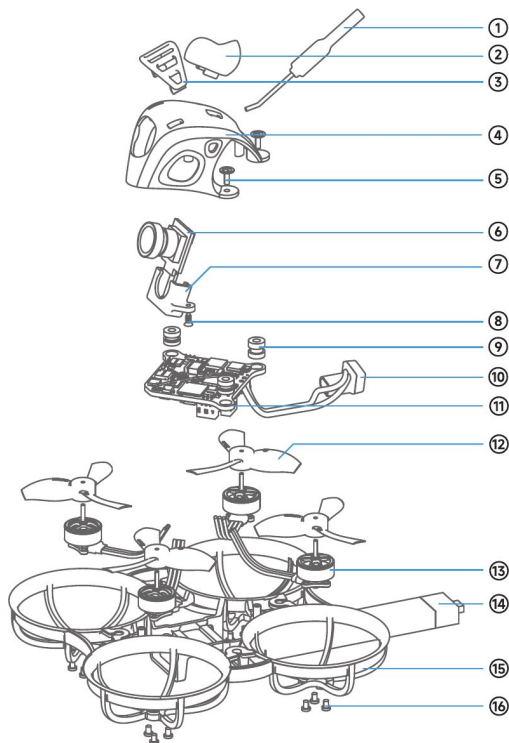


Meteor65 Pro II – top and bottom view

① Frame · ② Camera · ③ Canopy · ④ VTX Antenna · ⑤ Flight Controller (FC) · ⑥ Motor · ⑦ Propellers · ⑧ Battery Slot · ⑨ Battery Connector

2.4 Assembly Diagram

The diagram is intended for orientation when replacing parts and carrying out repairs. The number indicates the quantity.



Meteor65 Pro II assembly diagram

1	1× Dipole Antenna	9	3× Shock-Absorbing Balls
2	1× Knight Crown Decoration	10	1× Power Cable
3	1× Cap Brim Decoration	11	1× Matrix 1S Brushless Flight Controller (5IN1)
4	1× Micro Canopy	12	4× 1409-3B Propellers
5	3× M1.4×4 Self-Tapping Screws with Washers	13	4× 0802 Brushless Motors
6	1× Air Camera	14	1× Battery (not included)
7	1× Camera Mount	15	1× Meteor65 Pro II Brushless Whoop Frame
8	2× M1.4×4 Self-Tapping Screws	16	12× M1.4×3 Flat Head Machine Screws

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 the national implementing rules differ from country to country – registration portals, minimum pilot age, geographical zones, mandatory insurance, permitted frequency bands and maximum transmit power. The information in this chapter describes the situation in the Czech Republic as of the date of issue of this manual (10/2026). If you operate the drone in another country, you must comply with the regulations of the country in which you are flying. Regulations change – up-to-date information is available at www.caa.gov.cz (Civil Aviation Authority of the Czech Republic, ÚCL) and www.ctu.gov.cz (Czech Telecommunication Office, ČTÚ).

3.2 Drone Classification and Operational Categories

The Meteor65 Pro II weighs 22.60 g without battery and is equipped with a camera. It does not bear a C0–C4 class identification label under Regulation (EU) 2019/945 and is operated as a **privately built unmanned aircraft system**.

In the open category, a privately built drone may be flown:

- **in subcategory A1**, if its take-off mass including the battery is less than 250 g and its maximum operating speed is less than 19 m/s (68 km/h) – point UAS.OPEN.020(5)(a) of Regulation (EU) 2019/947. Flying over assemblies of people is prohibited; avoid flying over uninvolved persons whenever possible;
- **in subcategory A3**, if the drone does not meet the speed condition – only where it will not endanger uninvolved persons, and at least 150 m from residential, commercial, industrial and recreational areas (point UAS.OPEN.040).

The pilot is responsible for complying with the conditions of the selected subcategory.

According to the EASA interpretation (GM1 to Article 1 of Regulation 2019/947), the EU drone rules do not apply to flights inside buildings from which the drone cannot fly out into outdoor airspace. Fly there only with the consent of the owner or manager of the premises and with consideration for the persons present.

The drone may also be operated within a model aircraft club or association holding an authorization from the ÚCL (Article 16 of Regulation 2019/947), under the conditions of that authorization.

3.3 Operator Registration and Pilot Competency

- The drone is equipped with a camera and is not a toy. Its operator (usually the owner) must therefore register with the aviation authority of their country of residence – in the Czech Republic at dron.caa.gov.cz. The registration is valid in all EU Member States.
- Affix the operator registration number to the drone (for example on the frame or canopy) so that it is legible at least on the ground. A QR code may also be used.
- For a privately built drone with a take-off mass below 250 g, the regulation does not set a minimum age for the remote pilot (Article 9(2)(b) of Regulation 2019/947). Nevertheless, the product is intended for persons aged 14 and over.
- In subcategory A1, the pilot must be familiar with this manual. In subcategory A3, a free online training course and test at dron.caa.gov.cz are mandatory – we recommend completing them in any case.

3.4 Operational Restrictions

During operation, observe in particular the following rules:

- Keep the drone no more than 120 m from the closest point of the surface of the earth.
- Keep the drone within direct line of sight at all times; when flying with goggles, within the line of sight of an observer (chapter 3.5).
- Never fly over assemblies of people (events, crowded beaches and parks, shopping streets) and avoid flying over uninvolved persons.
- Do not fly near emergency response operations. Do not carry any objects and do not drop anything.
- At night, the drone must have a green flashing light switched on.
- Before each flight, check the geographical zones on the map at dronemap.gov.cz. Restricted and prohibited areas include, among others, the vicinity of airports, national parks and protected landscape areas, and energy and military facilities.
- Land as soon as another aircraft approaches or if the flight endangers people, animals or property.

3.5 Flying with FPV Goggles

When flying with goggles, you do not see the drone directly. The rules permit this only if an observer stands next to you, watching the drone with the naked eye (without binoculars) and monitoring the surrounding airspace and obstacles. You must be in direct contact with the observer, and the drone must not fly farther than the observer can clearly see it. You, as the pilot, are always responsible for flight safety.

3.6 Radio Frequencies and Transmit Power

The drone contains the following radio transmitters:

Transmitter	Frequencies	Max. power (manufacturer's data)
Video transmitter (VTX)	5.8 GHz, 48 channels, 5362-5945 MHz	400 mW (adjustable 25 / 100 / 200 / 400 mW)
ExpressLRS receiver (telemetry)	2.4 GHz	-

Operating conditions in the Czech Republic under the general authorizations of the ČTÚ:

Band	Limit in the Czech Republic	Authorization
2400-2483.5 MHz (receiver and radio transmitter)	100 mW e.i.r.p.	VO-R/12/11.2021-11
5725-5875 MHz (video transmitter)	25 mW e.i.r.p.	VO-R/10/05.2025-5
other video transmitter channels (5362-5705 MHz, 5880-5945 MHz)	only with an individual ČTÚ authorization	-

- Without an individual authorization, the video transmitter may be operated in the Czech Republic only on channels in the 5725-5875 MHz band – A1-A8, B1-B8, F1-F7 and R3-R6 (shown in bold in the table in chapter 4.2) – and at a maximum power of 25 mW.
- From the factory, the drone transmits on channel R8 (5917 MHz), which cannot be used in the Czech Republic without an individual authorization.** Before the first flight, retune the video transmitter to a permitted channel (chapter 5.4).
- Channels A8, B1, R3 (5725-5733 MHz) and A1, B8 (5865-5866 MHz) lie close to the band edge, and the analog signal may extend beyond it. Preferably choose a channel in the middle of the band, for example R6 (5843 MHz).
- The e.i.r.p. limit includes the antenna gain. Operate the device only with the antenna specified by the manufacturer, without additional amplifiers and without modifications.
- The user is responsible for setting the channel and power. The setting procedure is described in chapter 5.4.

Restriction on putting into service pursuant to Article 10(10) of Directive 2014/53/EU: in the Czech Republic, the video transmitter may be operated without an individual authorization only in the 5725-5875 MHz band with a power of up to 25 mW e.i.r.p. Similar restrictions also apply in other EU Member States – check them with the national telecommunications authority.

3.7 Personal Data Protection and Insurance

- The drone's camera records its surroundings. You may capture, and in particular publish, a person's likeness or expressions of their privacy only with their consent (§ 81 et seq., in particular § 84–90 of the Czech Civil Code). The GDPR exemption for purely personal or household activities does not apply to publishing recordings on the internet – follow Recommendation No. 01/2024 of the Office for Personal Data Protection (ÚOOÚ).
- In the Czech Republic, liability insurance is mandatory by law in subcategory A2, in subcategory A3 for drones over 4 kg and in the specific category; associations of model aircraft builders under § 54n and their members are exempt from this obligation (§ 54d of Act No. 49/1997 Coll.; the minimum limits are set by § 16n of Decree No. 108/1997 Coll.). Even where insurance is not mandatory, we recommend taking it out. You are liable for damage caused by the operation of the drone under the Czech Civil Code.

4. Flight Controller and Betaflight Settings

4.1 Flight Controller (FC)

The Matrix 1S 5IN1 II flight controller combines on a single board the flight controller, four electronic speed controllers (ESC), OSD, a serial ExpressLRS 2.4 GHz receiver and an analog video transmitter (VTX).

Parameter	Value
Processor	STM32G473
Firmware	Betaflight, target BETAFLPG473_V2
Power supply	1S only, BT2.0 connector
ESC	12 A continuous; Bluejay firmware; DShot300 / DShot600
BEC	5 V, max. 3 A
Serial ports	UART1, UART2 (video transmitter), UART3 (receiver), UART4
Receiver	serial ExpressLRS 2.4 GHz, CRSF protocol
Video transmitter (VTX)	5.8 GHz, 48 channels; power 25 / 100 / 200 / 400 mW / PIT; SmartAudio control
USB port	SH1.0 connector, 4-pin
Motor connectors	JST1.25, 3-pin
Blackbox	16 MB

Always have the video transmitter antenna connected and installed before you power on the drone. Operating without an antenna may damage the video transmitter.

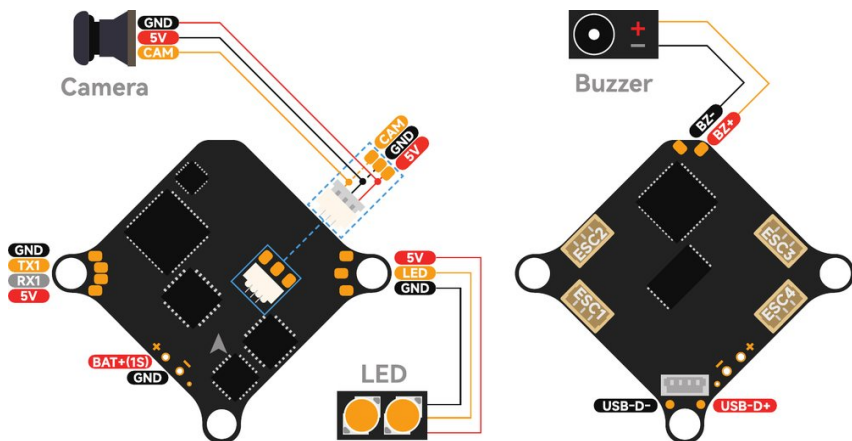
- A higher VTX power consumes more energy, generates more heat and shortens the flight time. For indoor flying, the manufacturer recommends 25–100 mW. In the Czech Republic, a maximum of 25 mW is permitted without an individual authorization – see chapter 3.6.
- The flight controller is manufactured with different gyroscope types. Do not flash official Betaflight firmware downloaded from elsewhere – use only the firmware and configuration (CLI) published by the manufacturer for this drone (chapter 7).

4.2 Video Transmitter Channels

Channel table (MHz) according to the configuration published by the manufacturer. Channels that can be used in the Czech Republic without an individual authorization are shown in bold (chapter 3.6).

Band	1	2	3	4	5	6	7	8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5880	5917
L	5362	5399	5436	5473	5510	5547	5584	5621

4.3 Wiring Diagram



Matrix 1S 5IN1 II flight controller wiring diagram

Camera: camera (GND, 5V, CAM) · Buzzer: buzzer (BZ-, BZ+) · LED: LED lights (5V, LED, GND) · BAT+(1S) / GND: power supply · TX1 / RX1: UART1 · USB-D- / USB-D+: USB · ESC1-ESC4: motor outputs.

4.4 Ports and Receiver

When setting up analog VTX, set the UART2 peripheral to VTX (TBS SmartAudio). For the receiver, please configure UART3 as Serial Rx (Ports tab in Betaflight Configurator):

Identifier	Configuration/MSP	Serial Rx		Peripherals
USB VCP	 115200			Disabled 115200
UART1	 115200			Disabled 115200
UART2	 115200			VTX(TBS SmartAudio) 115200
UART3	 115200			Disabled 115200
UART4	 115200			Disabled 115200

Ports tab – default serial port settings

In the *Configuration* tab (*Receiver* section), set *Serial* (via *UART*) as the *Receiver Mode*, and set *CRSF* as the *Serial Receiver Provider*:

Receiver

Serial (via UART)

Receiver Mode

- The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
- Select the correct data format from the drop-down, below:

CRSF

Serial Receiver Provider

Some Receiver Providers are not supported by current Build Configuration.

Receiver settings with the *CRSF* protocol (TBS Nano / ELRS Series RX)

❖ **UART3 is not freely available - in the factory state, it is occupied by the onboard receiver. It can only be freed by desoldering a resistor, which disconnects the onboard receiver. Such a modification of the board is not a product defect.**

4.5 Betaflight Settings

The drone is pre-configured at the factory with default settings for Channel Mapping, Switch Functions, Motor Direction, and OSD. No further configuration is required before flight. Connect the drone to a computer via the USB connector (SH1.0, 4-pin) on the flight controller using the included adapter cable and USB-C adapter. The manufacturer recommends the web-based Betaflight Configurator at app.betaflight.com.

► Channel Mapping (factory default)

- **ARM** – Arm/disarm switch used to control the arming status of the quadcopter (Arm / Disarm): AUX1; low position = Disarm, high position = Arm.
- **ANGLE** – self-leveling mode: AUX2, low position.
- **HORIZON**: AUX2, mid position.
- **AIR MODE**: permanently enabled in the firmware; no AUX settings required.
- **BEEPER** – buzzer for locating the drone: AUX4.
- **FLIP OVER AFTER CRASH** – Turtle Mode, allows the quadcopter to flip itself over after a crash: AUX3.



Modes tab in Betaflight Configurator – default ranges

✳ You can check which radio transmitter switches correspond to channels AUX1-AUX4 in the Modes tab: when you flip a switch, the yellow marker of the corresponding channel moves. If any settings are modified, remember to click **Save to apply changes**.

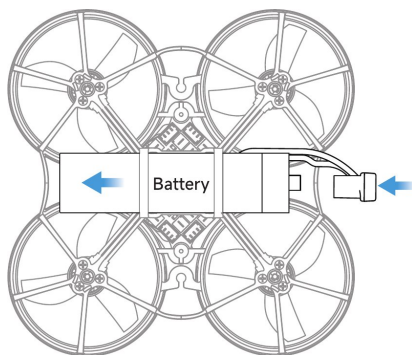
5. Getting Started and Flying

5.1 What You Will Need

- A radio transmitter with the ExpressLRS 2.4 GHz protocol (built-in or in an external module). The manufacturer recommends the LiteRadio 4, LiteRadio 3 or LiteRadio 2 SE radio transmitters.
- Analog FPV goggles or a monitor for the 5.8 GHz band. The camera transmits video in 16:9 format – the goggles or monitor should support it, otherwise the image will be distorted.
- 1S LiHV batteries with a BT2.0 connector – the manufacturer recommends LAVA II 1S 480 or 580 mAh.
- A charger for 1S LiHV batteries with a BT2.0 connector.

5.2 Battery Installation

Insert a fully charged battery (4.35 V) into the battery slot on the bottom of the quadcopter and connect the power connector. Before powering on, check that the video transmitter antenna is connected.



Inserting the battery into the slot and connecting the connector

5.3 Receiver Binding (ExpressLRS)

- ① Power cycle the quadcopter 3 times rapidly (by connecting and disconnecting the battery) and leave the battery connected. The receiver LED flashes green twice repeatedly, indicating the receiver enters the binding mode.
- ② Set your radio transmitter into binding mode (refer to your radio transmitter's manual for specific steps).
- ③ The receiver LED turns solid green, indicating a successful binding.
- ④ If binding is not successful within 8 seconds, please repeat the steps above.

- Before binding, ensure that the protocol configured on your radio transmitter matches that of the quadcopter (ExpressLRS 2.4 GHz) and that the channel mapping is configured correctly (chapter 4.5).
- Once bound, the quadcopter and radio transmitter will connect automatically upon power-up; re-binding is not required.
- For details on the ExpressLRS system, see www.expresslrs.org.

5.4 Tuning the Goggles to the Video Transmitter

- ① Power up the quadcopter (connect the battery), then turn on your FPV goggles or monitor.
- ② Start the auto-scan on your goggles/monitor or manually tune to the quadcopter's frequency (refer to the corresponding user manual).
- ③ Once the FPV video from the drone's camera appears on your goggles/monitor, the VTX connection is successful.

According to the configuration published by the manufacturer, the drone transmits from the factory on channel R8 (5917 MHz) at 25 mW. After powering on for the first time, verify the settings in the OSD or in Betaflight Configurator.

Channel R8 (5917 MHz) lies outside the 5725-5875 MHz band. Do not use it in the Czech Republic without an individual ČTÚ authorization, and retune the video transmitter to a permitted channel before the first flight (chapter 3.6).

You can change the video transmitter channel and power in Betaflight Configurator in the *Video Transmitter* tab (or in the OSD menu). In the Czech Republic, use only the channels listed in chapter 3.6 and a power of 25 mW. The PIT level is a minimum-power mode, for example for working on the drone on the bench.

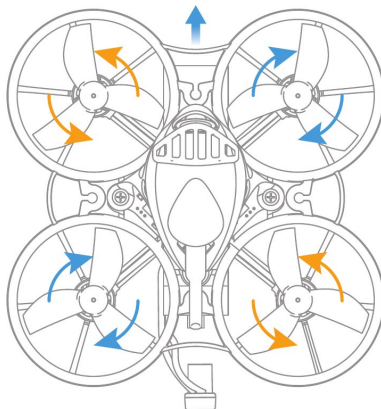
5.5 Arm, Disarm and Failsafe

- **Arm** (starting the motors): place the drone on a flat surface, step away from it and make sure the propellers can spin freely. Move the throttle stick to minimum and flip the ARM switch (AUX1) up. The motors will start spinning at idle.
- **Disarm** (stopping the motors): flip the ARM switch down – the motors stop immediately. In a dangerous situation, disarm immediately.
- **Flight modes**: as a beginner, use ANGLE mode (AUX2 down), in which the drone levels itself when you release the right stick.
- **Turtle**: if the drone lands upside down after a crash, Disarm, flip AUX3 up, Arm again and flip the drone over with the right stick. Then Disarm again, flip AUX3 down, and only then Arm for flight.
- **Failsafe**: if the signal from the radio transmitter is lost, the drone stops the motors and falls. Fly only within signal range.

- **Locating the drone:** switch on the buzzer with the BEEPER switch (AUX4); it also sounds automatically when the signal is lost.

5.6 Motor Direction & Propeller Installation

The motor direction is set at the factory. Install the propellers exactly as shown in the diagram – each propeller must match the direction of rotation of its motor.



Motor direction and propeller installation (the blue arrow at the top indicates the forward flight direction)

5.7 Pre-flight Check

- Inspect all motors and propellers to ensure they are installed securely. Check for any looseness, deformation, or damage.
- Confirm the fully charged battery (4.35 V) is securely installed in the battery slot and firmly connected to the battery connector. Ensure the quadcopter powers on normally and all status LEDs function properly.
- Verify that the radio transmitter, goggles and other equipment are fully charged and that the connection/binding is stable.
- Check that the video transmitter antenna is connected and that the channel and power are set according to chapter 3.6.
- Check the geographical zones, have the operator registration number on the drone and, when flying with goggles, an observer.
- Ensure all flights comply with local laws and regulations, as well as the safety precautions and flight warnings provided in chapters 1 and 3.

5.8 Voltage Monitoring and Ending the Flight

The battery voltage is displayed in the OSD in the goggles. End the flight and land at 3.5 V (1S battery) at the latest - that is, before the low-voltage warning appears in the OSD (factory setting 3.45 V per cell). After landing, first Disarm, then disconnect the battery, and only then switch off the goggles and the radio transmitter.

6. Maintenance and Troubleshooting

6.1 After Each Flight

- Disconnect the battery and let it cool down before charging.
- Check the propellers, frame, canopy, antenna and camera. Replace damaged propellers – even a small crack causes vibrations.
- Remove hair, dust and dirt from the motors.
- If the drone has landed in a wet place, do not switch it on until it is completely dry.

6.2 Replacing Propellers

When replacing propellers, observe the direction of rotation according to chapter 5.6; an incorrectly installed propeller will prevent take-off or cause the drone to flip over after Arm. Always replace propellers with the battery disconnected. Gemfan 1409 replacement propellers have a 1.0 mm shaft hole.

6.3 Storage

- Store flight batteries at 3.8 V per cell, in a dry place, out of the reach of children and away from flammable materials. Do not store them fully charged for more than 3 days.
- Do not store the drone with the battery connected.

6.4 Troubleshooting

Problem	Cause and solution
The drone does not respond to the radio transmitter, the receiver LED is not solid green	The drone is not bound. Bind it (chapter 5.3); if binding is not successful within 8 s, repeat it. Check that the radio transmitter uses ExpressLRS 2.4 GHz.
The motors do not start (Arm)	The throttle is not at minimum or there is no connection with the radio transmitter. Check the AUX1 assignment in the Modes tab (chapter 4.5).
The drone flips over after Arm or does not take off	The propellers are installed the wrong way round or on the wrong motors. Install them according to chapter 5.6.
No video in the goggles	The goggles are not tuned to the drone's channel – use the auto-scan (chapter 5.4). Check the antennas of the drone and the goggles.
The video in the goggles is stretched or distorted	The goggles or monitor do not support the 16:9 format. Set the aspect ratio on the goggles to 16:9, if they allow it.
Short flight time	The battery is not fully charged or a high video transmitter power is set. Charge the battery to 4.35 V and use 25 mW.

7. Manufacturer and Technical Support

For questions and warranty claims, contact the seller or the importer (chapter 8.1). Technical support, firmware and further documentation in English are provided by the manufacturer on its website.

Manufacturer	Shenzhen Baida Moxing Co., Ltd. (BETAFPV)
Address	Room 1103, Honghua Center, No. 52, Heping Road, Qinghua Community, Longhua Street, Longhua District, Shenzhen, Guangdong, China
Website	betafpv.com
Technical support	support.betafpv.com
Drone firmware and CLI	CLI for Meteor65 Pro II Analog Version

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

8.2 Product conformity



- 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@rotorاما.cz.
- **Product identification:** the type designation (Meteor65 Pro II) and the serial or batch number are given on the product or on its packaging.

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

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. Any warranty terms of the manufacturer **do not in any way limit** the buyer's rights arising from these regulations.

- 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.