

Learn more about the [Meteor75 Pro FPV Kit](#).

Retaining its impressive [45mm propellers](#), powerful 1102 22000KV motors, and LAVA II 1S 580mAh battery, the Meteor75 Pro continues to lead as the largest 1S whoop with exceptional thrust and agility. The upgraded Matrix 1S Flight Controller enhances performance with a G473 processor for a 55% speed boost and an integrated 5.8GHz 400mW VTX. Its durable 1mm-thick board and built-in motor plugs make installation easier and improve robustness. Paired with the same ESC, motor, [C03 FPV camera](#), and [Micro Canopy](#) as the Meteor75, this combo enhances versatility, making it ideal for both indoor and outdoor FPV racing and freestyle.



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Bullet Points

- The upgraded Matrix 1S Brushless Flight Controller brings exceptional durability and performance to the Meteor75 Pro. It features a G473 processor, boosting computing speed by 55%, along with an integrated 5.8GHz 400mW VTX for seamless integration. Its robust 1mm-thick board adds durability, and the built-in motor plugs simplify installation, making it ideal for beginners while ensuring excellent performance for FPV racing and freestyle.
- The upgraded frame that fits 45mm props perfectly makes Meteor75 Pro the largest 1S whoop drone. Powered with 1102 22000KV motors, it performs smoothly in the air and is maneuverable for freestyle tricks.
- It features a roomier battery slot that can accommodate a bigger battery, which provides a larger capacity and higher discharge rate, bringing more flight time and robust flight performance to the quadcopter.

- Built-in 1.45g ultralight weight and upgraded C03 FPV camera. This new camera has optimal performance for indoor whoop drones.
- Adopt with injection molding technique, this canopy is 1.60g ultralight weight and is more durable, anti-ruin, and heat-resistant, providing good protection for the whoop drone.
- The various colors of the spare parts including the Meteor75 Pro frame and micro canopy, offer pilots more choices. Using them with BETAFPV waterslide decals, pilots can easily DIY and build their unique whoop drones.

Specifications

- Motors: 1102 22000KV Motor
- Battery: LAVA II 1S 580mAh Battery
- Frame: Meteor75 Pro Brushless Whoop Frame
- Propellers: Gemfan 45mm 3-Blade Propellers
- Camera: C03 FPV Camera
- Tilt: 30°/20°
- Canopy: Canopy for Micro Camera 2022 version
- FC&ESC: Matrix 1S Brushless Flight Controller
- Receiver: Integrated Serial ELRS 2.4G
- VTX: Onboard 5.8GHz 48 Channels, 400mW
- Flight time: 6:30
- Weight: 30.5g

Meteor75 Pro VS Air75

The new Meteor75 Pro, equipped with the upgraded Matrix 1S Brushless Flight Controller, delivers enhanced performance with a G473 processor for 55% faster computing over the old version, a durable 1mm-thick board, integrated 5.8GHz 400mW VTX, and motor plugs for easier installation. Built for durability and beginner-friendliness, it requires no welding, making it an ideal choice for those prioritizing resilience and simplicity. In contrast, the Air75 Brushless Whoop Quadcopter is lighter, with a 75mm wheelbase, catering to advanced pilots seeking agility and performance to push the limits of their FPV experience.

	Meteor75 Pro	
	Matrix ELRS 2.4G (2024)	ELRS 2.4G (2023)
Frame	<u>Blue Meteor75 Pro Frame</u> , white Micro canopy	
Wheelbase	80.8mm	
Weight	30.5g	31.0g
FC	<u>Matrix 1S</u>	<u>F4 1S 5A AIO</u>
MCU	STM32G473CEU6	STM32F411CEU6
OSD	BetaFlight OSD: AT7456E	
ESC	1S, 5A	
MCU Frequency	168MHz	108MHz
Gyro	ICM42688P	BMI270
Gyro max. sampling rate	8KHz	3.2KHz
Blackbox Memory	16M	8M

RX	Onboard Serial ELRS 2.4GHz	Onboard Serial ELRS 2.4GHz/SPI Frsky
VTX	Onboard 5.8GHz 48 Channels, 400mW	<u>M03</u>
Camera	<u>C03</u>	
Motor	<u>1102 22000KV</u>	
Props	<u>GF 45mm-3B</u>	
Recommmeded battery	<u>LAVA II 1S 580mAh Battery</u>	
Flight time	6:30	

Powerful 1S Drone Combo

Meteor75 Pro with 45mm 3-Blade props performs very precise, agile, and fantastic flying, which is the largest 1S power whoop drone nowadays. Fit out with 1102 22000KV motors and LAVA II 1S 580mAh Battery, Meteor75 Pro has an excellent thrust-to-weight ratio performance.

Flight Controller

The Meteor75 Pro, now featuring the Matrix 1S Brushless Flight Controller, combines enhanced durability, processing power, and adaptability for a superior 1S whoop experience. Its 1mm-thick circuit board increases resilience during intense flying, while the G473 processor enhances response speed and control precision. Simplified setup is achieved through integrated motor plugs, and its 5.8GHz 400mW VTX delivers stable, high-quality video transmission. Perfect for both indoor and outdoor FPV racing or freestyle, this high-performance drone is built for versatility and reliability.

The following information on the F4 1S 5A Flight Controller has been retained for your reference:

The latest F4 1S 5A flight controller is applied to all BNF versions of Meteor75 Pro. It features Serial ELRS 2.4G instead of SPI ELRS 2.4G for ELRS version compared to the previous version. The Frsky version reserves two UART ports for the available external receiver so it can be used as PNP. The ESC on the new board is powered by BB51

hardware in place of BB21. Last but not least, we update the gyro to BOSH BMI270 for better performance and stability since the new F4 1S 5A FC.

	Meteor75 Pro (ELRS)	Meteor75 Pro (Frsky, PNP, TBS)
FC Inside	F4 1S 5A FC (Serial ELRS 2.4G) V2.0	F4 1S 5A FC (SPI Frsky) V3.0
Gyro	BMI270	BMI270
FC Firmware	BETAFPVF411	BETAFPVF411RX
UART Port	One UART Port	Two UART Ports
External RX	Not Supported	Supported

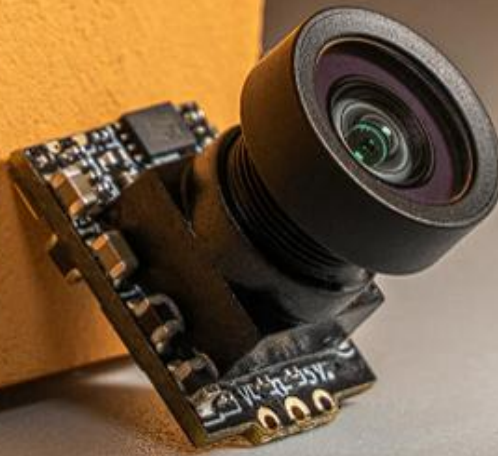
Note: For Serial ELRS 2.4G, the Betaflight firmware 4.3.0 and up start to support BMI270 gyro. For SPI Frsky, DO NOT flash the other firmware, otherwise, the RX will be lost in control at a very close range. Please flash betaflight_4.2.11_BETAFPVF411RX firmware built by BETAFPV for SPI Frsky.

C03 FPV Camera

C03 is a lightweight 1.45g and 1200TVL resolution camera that has been designed to provide superb performance for micro FPV quadcopters. It has a 2.1mm lens that gives a 160° field of view, operating in 4:3 image ratios, and features a 1/3" CMOS sensor for clear and brilliant images.

C03 Micro Camera

Fly with Clear Visions



Lens: 2.1mm

FOV: 160°

Horizontal Resolution: 1200TVL

Super Image Sensor: 1/3" CMOS

TV System: NTSC(4:3)

1.52g

Endurance Boosting Battery

Meteor75 Pro applies the new LAVA II 1S 580mAh Battery, which is capable of delivering a discharge rate of 40C (continuous) and 80C (burst). With its larger capacity and stronger power, pilots can enjoy more flight time and a robust flight experience.