

The 2.2" Pavo20 Pro II redefines lightweight freestyle performance, now offering seamless compatibility with both the DJI O4 at 79g and O4 Pro at 107.7g. This next-generation model introduces the upgraded II Frame with a supported structure and 4-screw assembly for enhanced rigidity and easier building, alongside a new integrated RGB LED strip for improved visibility and style.

Engineered for cinematic agility, the Pavo20 Pro II pairs the explosive thrust of LAVA 1104 7200KV Brushless Motors and co-developed Gemfan 2218 3-Blade Props with an aerodynamic frame that delivers an 8–11% thrust boost. The O4 Air Unit Pro Bracket ensures vibration-free stability for perfectly smooth footage, while the ultra-light F4 2-3S 20A flight controller provides crisp digital performance. The Pavo20 Pro II is the ultimate whoop for pilots demanding professional freestyle performance.



Bullet Points

- Next-Gen Frame: The supported structure with guided mounting points and 4-screw design make assembly quick and incredibly rigid.
- O4 & O4 Pro Compatibility: A redesigned carbon plate seamlessly integrates both O4 and O4 Pro for stunning HD footage and build versatility.
- Lightweight Powerhouse: Weighing only 107.7g (O4 Pro Version), this 2.2" cinewhoop is the perfect gateway for DJI pilots to dive into FPV.
- Freestyle-Tuned Propulsion: The co-developed Gemfan 2218 3-Blade Props and LAVA 1104 | 7200KV Brushless Motors offers unparalleled thrust, while the aerodynamic frame adds an 8–11% boost for aggressive maneuvers.

- Cinematic Stability: The integrated O4 Air Unit Pro Bracket guarantees every frame you captured is perfect.
- Flight Controller: The ultra-light F4 2-3S 20A AIO FC V1 (5.92g) is engineered for crisp digital performance, offering enhanced computing power and rapid response for precise freestyle control.
- New RGB LED Strip: Enhanced visibility for in-flight orientation and a striking visual presence.
- ND Filter Ready: ND/UV filters for O4 Pro let you master any lighting condition.
- Plug-&-Play Tuned: Pre-optimized PIDs for O4 & O4 Pro. Select & fly via OSD.

Specifications

- Item: Pavo20 Pro II Brushless Whoop Quadcopter
- Wheelbase: 93.9mm
- FC: F4 2-3S 20A AIO FC V1
- Frame: Pavo20 Pro II Brushless Frame
- Motor: LAVA Series 1104 | 7200KV Brushless Motors
- Props: Gemfan 2218 3-Blade Propellers (1.5mm Shaft)
- Flight Time: 6'30" (with LAVA 3S 550mAh Battery)
- RX Version: Serial ELRS, DJI SBUS
- HD VTX Bracket: O4 Air Unit Pro Bracket, O4 Air Unit Bracket II
- Weight: 65.2g (PNP Version), 107.7g (O4 Pro included)
- Battery Connector: XT30
- Battery Slot: 20mm * unlimited height
- Strip: NightFire RGB LED Strip
- Supported VTX: DJI O4 Air Unit Pro, DJI O4 Air Unit
- Camera Filter Installation: Vertical
- Recommended Filter: ND Filter for O4 Pro Camera
- Recommended Battery: LAVA II 3S 580mAh/680mAh Battery, LAVA 3S 450mAh 75C Battery, LAVA 3S 550mAh 75C Battery

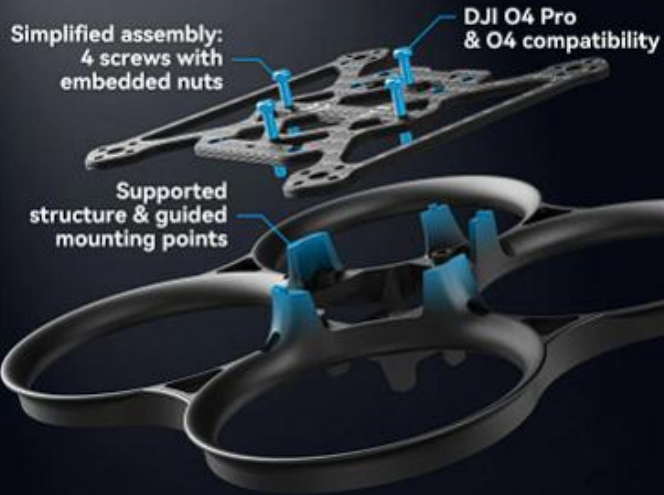
Cautions:

1. *Please correctly connect the battery's positive and negative terminals to prevent drone damage.*
2. *The O4 Pro Version includes the O4 Pro VTX, while all PNP versions does NOT include the VTX system and must be purchased separately.*

Upgraded II Frame: More Stability, Easier Assembly

With a robust 93.9mm wheelbase and crash-proof PA12 thickened whoop ducts, the Pavo20 Pro II Frame is engineered for resilience and agility. Its revolutionary assembly system features embedded nuts and requires only four screws for a secure, crash-resistant lock—making building faster and more reliable than ever. Advanced injection molding combines a supported structure with three guided mounting points, guaranteeing perfect carbon plate alignment and eliminating flex for an incredibly rigid, stable platform.

Pavo20 Pro II Frame



Pavo20 Pro Frame



The newly designed carbon plate expands compatibility to seamlessly support both the DJI O4 Air Unit Pro and DJI O4 Air Unit, future-proofing your setup for stunning HD footage. With pre-tuned PID parameters optimized for both O4 systems, achieving peak performance is effortless—simply select your configuration via the OSD and fly with precision and confidence.



O4 Air Unit Pro Bracket

The Pavo20 Pro II integrates the advanced O4 Air Unit Pro Bracket, engineered to deliver exceptionally stable, smooth HD footage while streamlining your building experience. It features a reinforced camera side panel for maximum protection and dual fixing holes that optimize the camera's center of rotation, enabling smooth 0-40° tilt adjustments and providing unobstructed ND filter access even in wide-angle scenarios. The 30° angled antenna mounts ensure optimal signal strength, while tool-free installation allows for quick antenna swaps. Securely assembled with just 8 half-thread screws, the bracket eliminates tedious assembly while enhancing anti-vibration performance.



Watch the installation guide video for DJI O4 Air Unit Pro.

Propulsion System: Built for Freestyle Dominance

The Pavo20 Pro II features a propulsion system engineered exclusively for ultimate freestyle performance. Incorporating pioneering low-pitch Gemfan 2218 3-Blade Propellers paired with high-torque LAVA 1104 7200KV Brushless Motors, it achieves a remarkable 6.23:1 thrust-to-weight ratio with an 8-11% thrust boost over previous systems. Powered by the recommended LAVA 3S 550mAh 75C Battery, the Pavo20 Pro II delivers explosive acceleration and razor-sharp agility for up to 6.5 minutes of flight time. This relentless power system ensures you're always equipped to capture fluid, high-energy footage in any freestyle scenario.

Pioneering Cinewhoop for Freestyle

Pocket Yet Freestyle Performance Plus

- First Ever 2.2" Freestyle Props GF Co-Dev
- Boost An Extra 8~11% Thrust
- LAVA Series 7200KV Brushless Motors



Flight Controller

The Pavo20 Pro II features an F4 2-3S 20A AIO Flight Controller specifically designed for HD VTX. Equipped with a dual BEC solution, it provides stable power outputs of 9V 2A for the DJI O4 system and 5V 3A for external devices. The 20A ESC ensures agile and dynamic flight performance, while dedicated HD VTX 6-Pin connectors and a conveniently positioned USB ports simplify installation and maintenance. This FC brings exceptional reliability and professional-grade functionality for Pavo20 Pro II.

F4 2-3S 20A AIO FC V1

To Be the Best AIO FC for 2-3S HD Whoop

BEC

5V 3A&9V 2A

PMU

HD VTX 6Pin

ESC

BB51 Bluejay 48K

Onboard RX

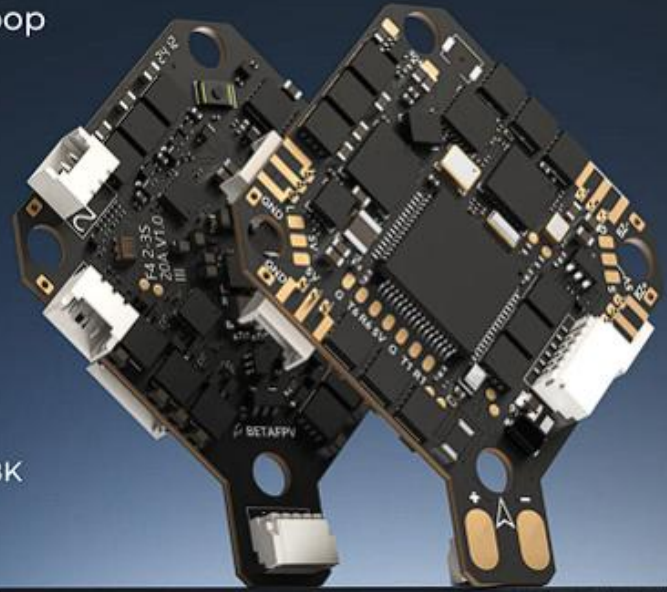
Serial ELRS 2.4G

IMU

ICM42688P/ICM42605@8K

FC MCU

STM32F405RGT6@168MHz



Unleash the Night with NightFire RGB Strip

Elevate your nighttime flying with the [NightFire RGB LED Strip](#)—the same premium lighting featured in the Pavo20 Pro NightFire Limited Edition. Designed for enhanced visibility and style, it features vibrant RGB LEDs that bring your whoop to life with a stunning spectrum of colors and dynamic display modes. Easily switch between 10 preset lighting effects and 7 colors by pressing the buttons. The NightFire RGB LED Strip is built to shine brilliantly against the night sky. Light up your flight path like never before.



ND Filters: Perfect Exposure, Every Frame

Elevate your Pavo20 Pro II's aerial cinematography with the [ND Filter](#) for DJI O4 Pro Camera—crafted to perfect every frame. The ND8, ND16, and ND32 options ensure perfect exposure and natural motion blur every time. Meanwhile, the UV filter protects your lens from scratches, dust, and UV haze, ensuring crystal-clear images in every environment. Lightweight, durable, and easy to install, these filters are the ultimate companions for freestyle pilots and cinematic creators alike. With the Pavo20 Pro II and its filter lineup, every flight becomes a visual masterpiece!

Perfect Exposure, Every Frame



UV / ND8 / ND16 / ND32

	Pavo20 Pro II	<u>Pavo Pico II</u>	<u>Pavo Femto</u>
Wheelbase	93.9mm	80mm	75mm
Frame	<u>Black Pavo20 Pro II Frame</u>	<u>Black Pavo Pico II Frame</u>	<u>Black Pavo Femto Frame</u>
Weight (PNP)	65.2g	39.1g	40.5g
Weight (without battery)	107.7g (O4 Pro) / 79g (O4)	53.7g (O4) / 78.6g (O4 Pro)	54.77g (O4)
RX	Serial ELRS, DJI SBUS		
HD VTX Bracket	<u>O4 Air Unit Pro Bracket</u>	<u>O4 Air Unit Bracket II</u>	O4 Air Unit Bracket
Compatible VTX	DJI O4 Air Unit, O4 Air Unit Pro		DJI O4 Air Unit
FC	<u>F4 2-3S 20A AIO FC</u>		
Motor Connector	JST1.25-3Pin		

Prop	GF 2218 3 Blade	GF 45mm 3 Blade	GF 1611 3 Blade
Motor	LAVA 1104 7200KV	LAVA 1102 14000KV	
Recommended Battery	LAVA II 3S 580mAh/680mAh Battery	LAVA 2S 450mAh / 550mAh	
Thrust-to-Weight Ratio	6.2:1 (O4 Pro) / 8.4:1 (O4)	6.35:1 (O4) / 4.88:1 (O4 Pro)	6.75:1 (O4)
Battery Connector	XT30		
Flight Time	6:30 (O4 Pro)	6:30 (O4/2S 550mAh) / 5:40 (O4 Pro/2S 550mAh)	5:15
Filter Installation	Vertical	-	-
LED Strip	RGB	-	-

Recommended Parts

- Frame: [Pavo20 Pro II Brushless Whoop Frame](#)
- FC & ESC: [F4 2-3S 20A AIO FC V1](#)
- Motor: [LAVA Series 1104 | 7200KV Brushless Motors](#)
- Propellers: [Gemfan 2218 3-Blade Propellers \(1.5mm Shaft\)](#)
- Battery: [LAVA II 3S 580mAh/680mAh Battery](#), [LAVA 3S 450mAh 75C Battery](#), [LAVA 3S 550mAh 75C Battery](#)
- Filter: [ND Filter for O4 Pro Camera](#)
- RGB Strip: [NightFire RGB LED Strip](#)
- VTX Bracket: [O4 Air Unit Pro Bracket](#), [O4 Air Unit Bracket](#)
- VTX: DJI O4 Air Unit Pro, O4 Air Unit
- Accessory: [5.8G VTX Antenna Packet](#), [Drone Screw Pack](#)

File

- [FC firmware and CLI dump file \(F4 2-3S 20A AIO FC V1\) \(Pavo20 Pro II\)](#)

Note: Due to the shortage of IMU chip ICM42688, BETAFPV team has found new IMU chip ICM42605 and built a compatible firmware. Extensive testing confirms it meets our strict quality standards.