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## BETAFPV Pavo20 Pro II

# BETAFPV Pavo20 Pro II Brushless Whoop Quadcopter Instruction Manual

Model: Pavo20 Pro II | Brand: BETAFPV

## INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your BETAFPV Pavo20 Pro II Brushless Whoop Quadcopter. Please read all instructions carefully before use.

# Pavo20 Pro II

## Brushless Whoop Quadcopter

Redefine O4 Pro Art, Outstanding NightFire Back



**Pavo20 Pro II Frame**

**NightFire RGB LED Strip**

**F4 2-3S 20A FC**

**6'30" Flight Time**

**DJI O4 Pro & O4 Compatibility**

**6.2:1 Thrust-to-Weight Ratio**

The BETAFPV Pavo20 Pro II Brushless Whoop Quadcopter, designed for FPV freestyle shooting.

## SETUP GUIDE

### O4 Pro Module and Bracket Installation

The Pavo20 Pro II is designed for seamless integration with DJI O4 Air Unit Pro. Follow these steps for proper installation:

1. Prepare the necessary tools: H1.5 Hex wrench and tweezers.
2. Unscrew the four screws of the O4 Pro camera module.
3. Carefully insert the O4 Pro module into the bracket, ensuring the 'DJI' characters face upward. Avoid pulling on coaxial cables and antennas.
4. Insert the antennas into their designated slots.
5. Roll the coaxial cable to manage excess length.

6. Install the O4 Pro camera in a forward direction, keeping the cable upward.
7. Tighten the four original screws of the DJI O4 Pro module or four M2\*4 screws in sequence. Adjust the camera to the desired angle (0-40° tilt).
8. Ensure the coaxial cable is securely placed in the gap of the bracket to prevent pinching.
9. Insert four rubber dampers into the installation holes of the Pavo20 Pro frame using tweezers.
10. Insert four M2\*10 screws into the holes of these four rubber dampers.
11. Insert the 6-Pin cable of the flight controller into the connector of the O4 Pro module. Ensure correct targeting to avoid damaging the pin header.
12. Tighten the four M2\*10 screws with the bracket in sequence.



All components included with the Pavo20 Pro II, ready for assembly.

# Pavo20 Pro II

## Brushless Whoop Quadcopter

Change the Device As You Wish

### DJI 04 Air Unit

1/2inch  
4K/60fps  
117.6°

### DJI 04 Air Unit Pro

1/1.3inch  
4K/120fps  
155°



The Pavo20 Pro II frame supports both DJI O4 Air Unit and O4 Air Unit Pro for versatile VTX options.

# Pavo20 Pro II

## Brushless Whoop Quadcopter

### O4 Air Unit Pro Bracket

Dual-hole 0-40° adjustable tilt



Protective camera side panel



30° angled antennas for max signal strength



Easily install with 8 embedded nuts



Rubber damper for anti-vibration



Key features of the O4 Air Unit Pro Bracket, including adjustable tilt, protective side panel, and angled antennas.

#### Video: Pavo20 Pro HD Camera Installation

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This video demonstrates the step-by-step installation of the DJI O4 Pro camera module and bracket onto the BETAFPV Pavo20 Pro II quadcopter frame. It covers unscrewing the camera, inserting the module, routing cables, and securing the components.

## OPERATING INSTRUCTIONS

### Flight Controller

The Pavo20 Pro II features an F4 2-3S 20A AIO FC specifically designed for HD VTX systems. Key features include:

- Dual BEC solution providing stable power outputs: 9V 2A for the O4 system and 5V 3A for external devices.

- 20A ESC for agile and dynamic flight performance.
- Dedicated HD VTX 6-Pin connectors for simplified installation.
- Conveniently positioned USB ports for easy maintenance.

## Propulsion System

For optimal performance, the Pavo20 Pro II is equipped with:

- Recommended LAVA 3S 550mAh 75C Battery for explosive acceleration and up to 6.5 minutes of flight time.
- Gemfan 2218 3-Blade Propellers.
- LAVA 1104 7200KV Brushless Motors.

## VTX Compatibility

The newly designed carbon plate and HD VTX Bracket ensure broad compatibility:

- Seamlessly supports both the DJI O4 Air Unit Pro and O4 Air Unit.
- Pre-tuned PID parameters optimized for both O4 systems, configurable via OSD.



The Pavo20 Pro II in action, showcasing its agility and flight performance.

## Video: GEPRC DarkStar16 O4 Pro TinyWhoop Showcase

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This video showcases the flight capabilities and video quality of a similar O4 Pro TinyWhoop, demonstrating the performance of the DJI O4 Air Unit Pro VTX system. *Note: This video features the GEPRC DarkStar16, a related product, to illustrate the VTX performance.*

## MAINTENANCE

### Frame Durability

The Pavo20 Pro II features an upgraded frame designed for resilience and ease of maintenance:

- 93.9mm wheelbase with crash-proof thickened ducts.
- Revolutionary assembly using embedded nuts and just four screws for a fast, secure, and crash-resistant build.
- Advanced molding ensures perfect carbon plate alignment via three guided points, creating an ultra-rigid and stable platform.

### Easy Assembly and Disassembly

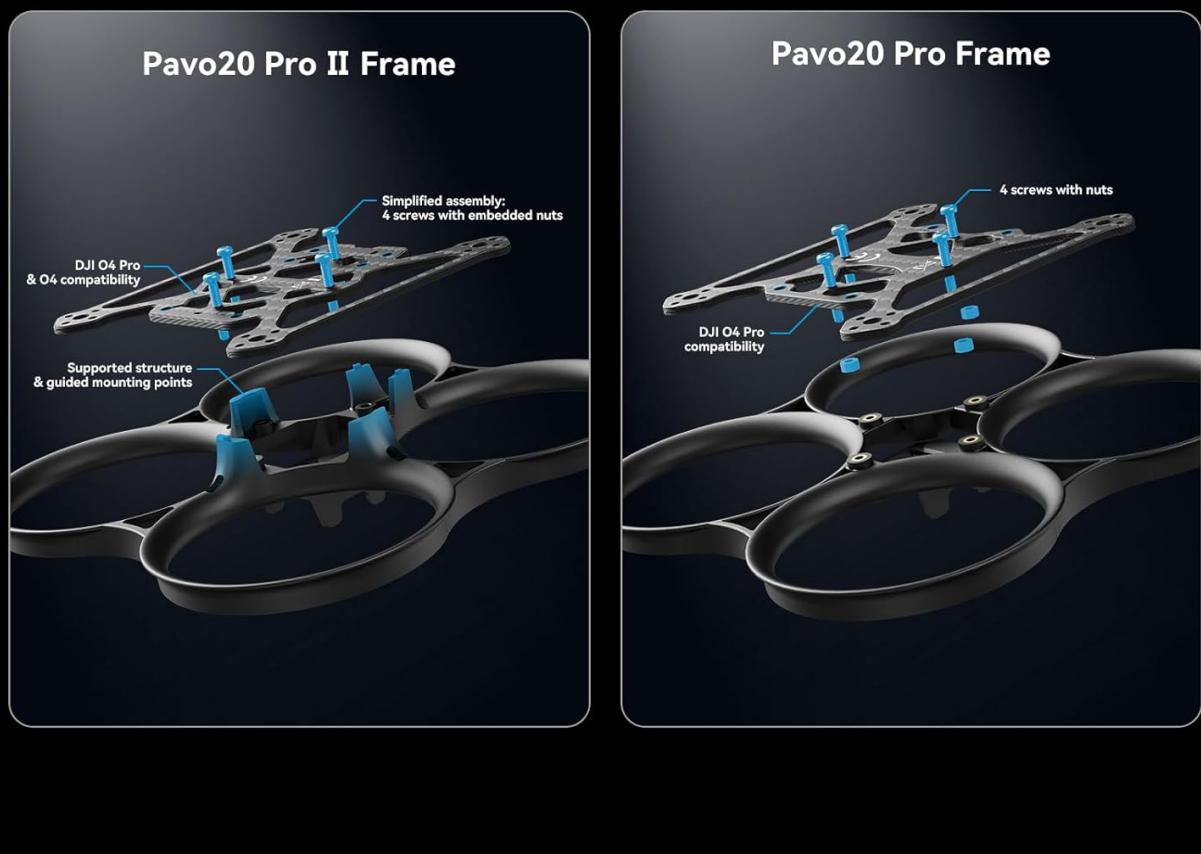
The design prioritizes user-friendly maintenance:

- Simplified assembly process compared to previous models.
- Tool-free installation for quick antenna swaps on the HD VTX Bracket.
- Secure assembly with minimal screws for reduced complexity.

# Pavo20 Pro II

## Brushless Whoop Quadcopter

Updated for Convenience



Comparison highlighting the simplified assembly of the Pavo20 Pro II frame with fewer screws and embedded nuts.

## TROUBLESHOOTING

For common issues, consider the following:

- No Power:** Ensure the battery is fully charged and correctly connected. Check all power cables for secure connections.
- No Video Feed:** Verify the O4 Air Unit Pro or O4 Air Unit is properly installed and connected. Check antenna connections and ensure your FPV goggles are on the correct frequency.
- Unstable Flight:** Inspect propellers for damage and replace if necessary. Ensure all screws are tightened appropriately, especially those securing the flight controller and frame. Check PID settings via OSD.
- Motor Issues:** Listen for unusual motor noises. Check for debris obstructing the motors or propellers. Ensure motor wires are securely soldered.
- Binding Issues:** Refer to the DJI O4 Air Unit Pro or O4 Air Unit manual for specific binding procedures.

with your remote controller.

If issues persist, consult the official BETAFPV support resources or contact customer service.

## PRODUCT SPECIFICATIONS

Feature	Detail
Manufacturer	BETAFPV
Item Weight	10.2 ounces
Product Dimensions	6.5 x 6.5 x 2.8 inches
ASIN	B0G6KTGCJ6
Flight Controller	F4 2-3S 20A AIO FC (HD VTX specific)
Motors	LAVA 1104 7200KV Brushless Motors
Propellers	Gemfan 2218 3-Blade Propellers
Recommended Battery	LAVA 3S 550mAh 75C Battery
VTX Compatibility	DJI O4 Air Unit Pro / O4 Air Unit
Frame Wheelbase	93.9mm



The BETAFPV Pavo20 Pro II quadcopter on a digital scale, showing its lightweight design.

## WARRANTY AND SUPPORT

BETAFPV products are manufactured to high-quality standards. For warranty information, please refer to the official BETAFPV website or contact your retailer. For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the BETAFPV support page or contact their customer service team directly.

You may also consider purchasing extended protection plans for your product, such as the 2-Year or 3-Year Protection Plans available from authorized retailers.