BETAFPV Pavo Pico Brushless Whoop Quadcopter

BETAFPV Pavo Pico Brushless Whoop Quadcopter User Manual

Model: Pavo Pico Brushless Whoop Quadcopter

1. Introduction

The BETAFPV Pavo Pico is an ultra-light 2S brushless whoop quadcopter designed for both indoor and outdoor FPV flying. This manual provides essential information for the safe and effective setup, operation, and maintenance of your Pavo Pico quadcopter. Please read this manual thoroughly before operating the device.

2. Safety Guidelines

- Always operate the quadcopter in open areas, away from people, animals, and obstacles.
- Ensure all propellers are securely attached and free from damage before each flight.
- Keep hands and face clear of rotating propellers.
- Do not fly near airports, restricted airspace, or in adverse weather conditions.
- Always use the recommended battery and charging equipment.
- Disconnect the battery immediately after use and during storage.
- Familiarize yourself with local regulations regarding UAV operation.

3. Package Contents

Verify that all items are present in your package:

- 1 * Pavo Pico Brushless Whoop Quadcopter (Without HD Digital VTX & Camera)
- 1 * LAVA 2S 450mAh 75C Battery
- 4 * GF 45mm-3B Propellers
- 1 * USB Parameter Adjustment Cable
- 1 * 5.8G Copper Tube Antenna Package
- 1 * VTX Bracket Screw Package
- 2 * O3 HD Digital VTX Antenna Mount
- 2 * O3 HD Digital VTX Mounting Bracket

- 1 * O3 Lens UV Protector
- 1 * O3 Lens Protective Case

Image: All components included in the BETAFPV Pavo Pico package.

4. Product Overview

The Pavo Pico features a lightweight design with a durable PA12 material frame and integrated propeller guards. It is equipped with an F4 2S 20A AIO Flight Controller and 1102 14000KV motors.

Image: Top-down view of the BETAFPV Pavo Pico Brushless Whoop Quadcopter.

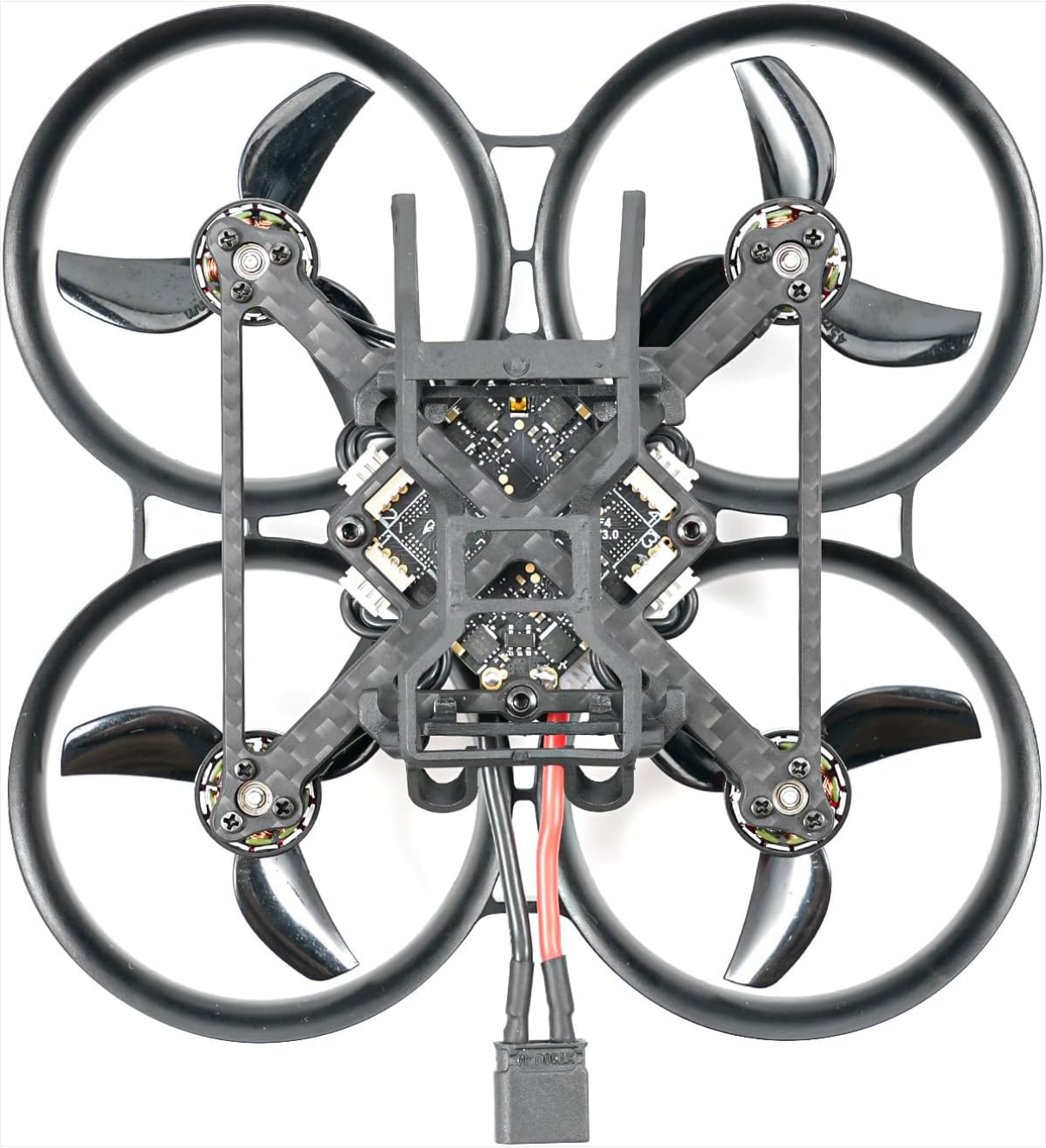


Image: Detailed top view of the Pavo Pico, highlighting the flight controller and motor placement.

5. Setup

5.1 Battery Installation

Insert the LAVA 2S 450mAh 75C battery into the designated battery slot. Ensure it is securely fastened to prevent movement during flight. The battery slot is designed to accommodate various battery sizes, allowing for DIY fixing methods.

5.2 VTX (Video Transmitter) Installation

The Pavo Pico supports the O3 HD Digital VTX (not included). Utilize the provided O3 HD Digital VTX Mounting Bracket and VTX Bracket Screw Package for installation. The split design of the bracket facilitates quick installation. Ensure the rubber dampers are correctly positioned to reduce vibrations for stable video output.

Image: The Pavo Pico quadcopter with an O3 HD Digital VTX module installed.

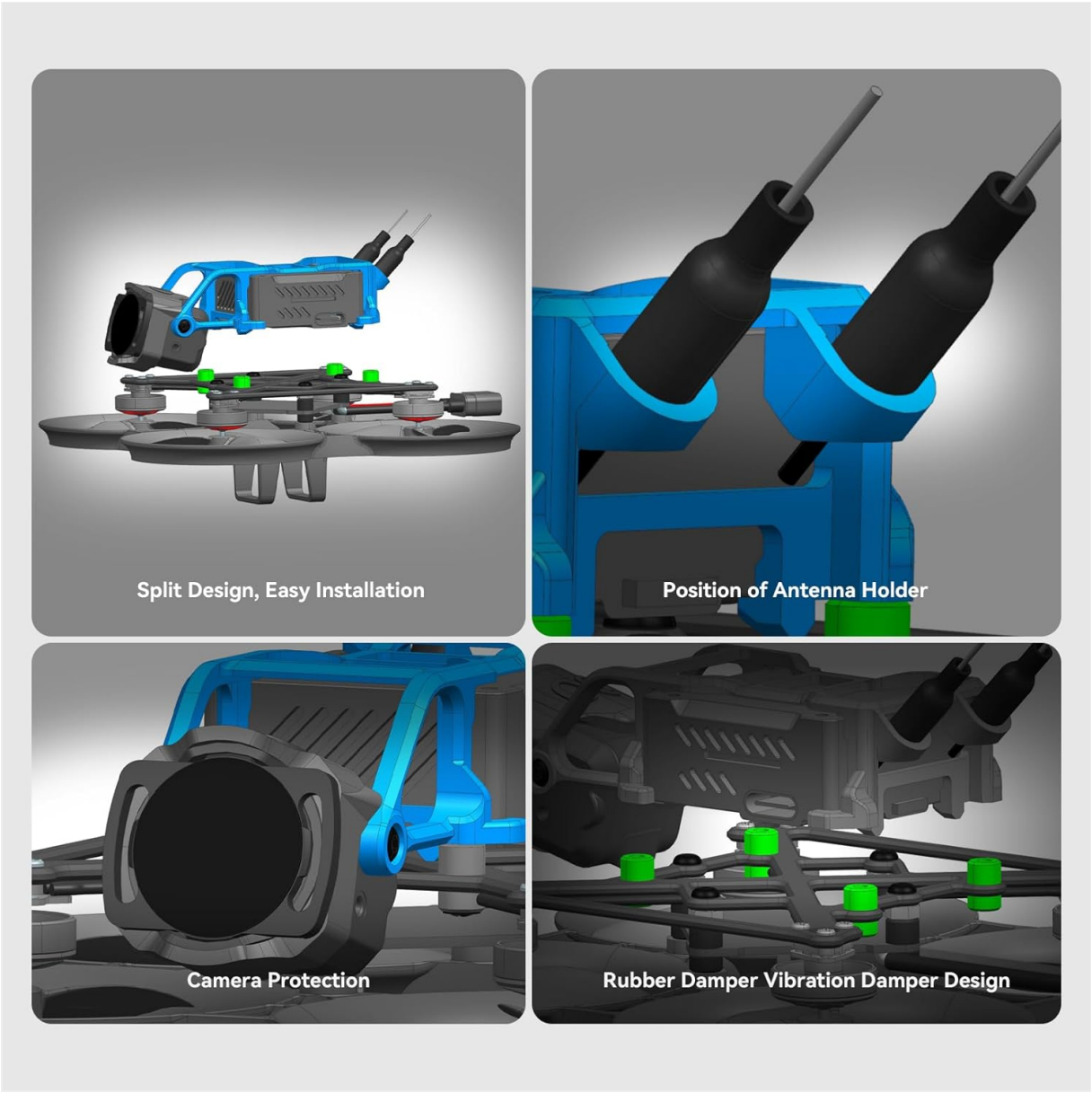


Image: Close-up showing the split design for easy VTX installation, camera protection, antenna holder, and rubber damper vibration damping design.

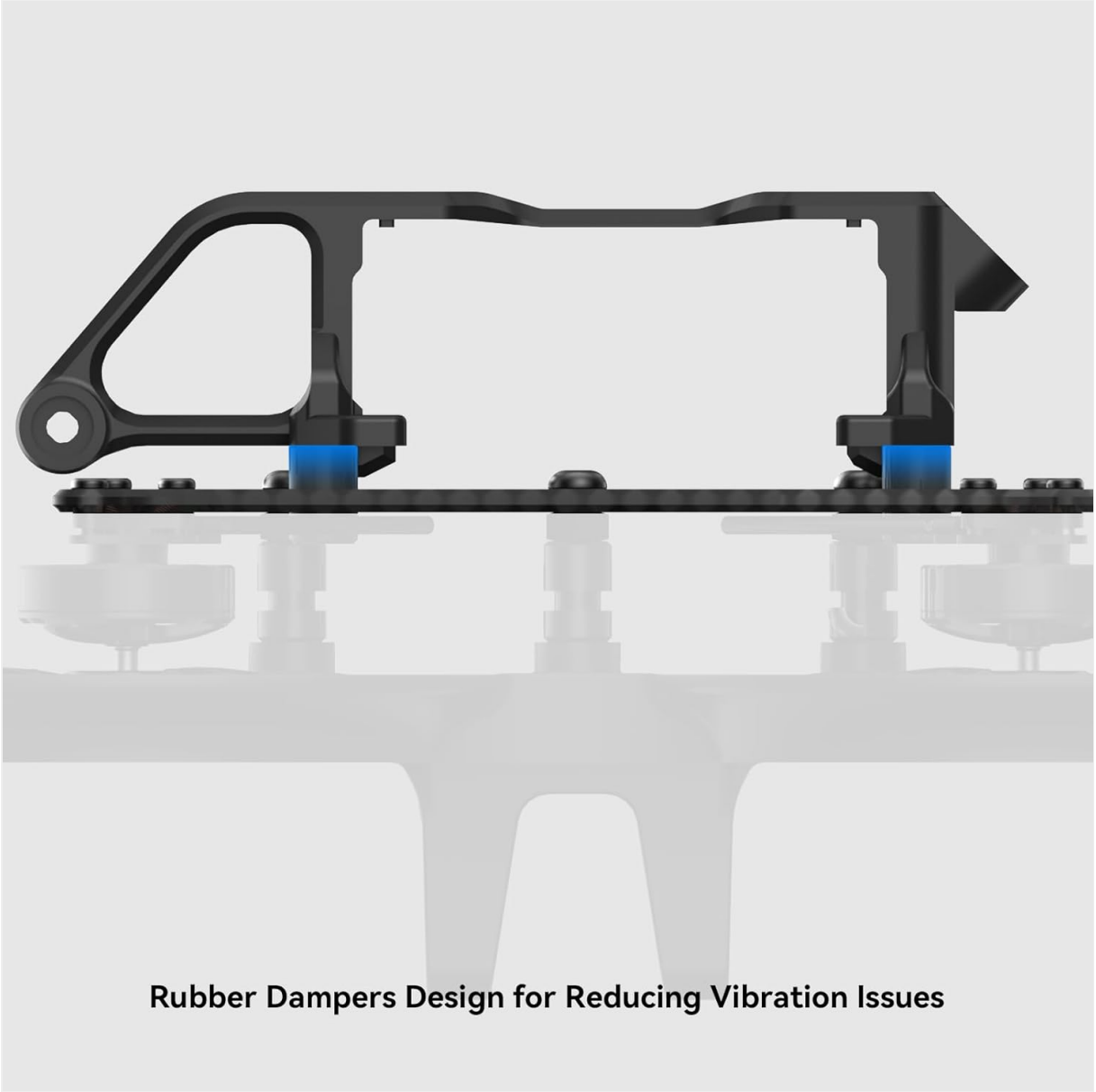


Image: Illustration of the rubber damper design for reducing vibration issues in the VTX mounting.

For other VTX systems like Vista and Walksnail Avatar HD Pro, a carbon fiber VTX adapter is available (may be sold separately or included in specific packages).

Image: Carbon fiber VTX adapter, compatible with Vista and Walksnail Avatar HD Pro systems.

5.3 Propeller Installation

Attach the GF 45mm-3B propellers to the motors. Ensure correct orientation for each propeller (clockwise and counter-clockwise) as indicated by markings on the propellers and motors. Secure them firmly.

5.4 Binding with Remote Controller

The Pavo Pico utilizes the ELRS V3 protocol. To bind your quadcopter with a compatible remote controller:

1. Power on the quadcopter.
2. Activate binding mode on your ELRS V3 compatible remote controller. Refer to your remote controller's manual for specific instructions.
3. The quadcopter's receiver LED will indicate successful binding.

5.5 Software Configuration

The F4 2S 20A AIO FC V1 is optimized for HD digital VTX. For advanced configuration and tuning, connect the quadcopter to a computer using the USB Parameter Adjustment Cable. Utilize Betaflight Configurator software for flight controller settings and GyroFlow for video stabilization adjustments.

6. Operating

6.1 Pre-Flight Checks

- Inspect the frame, propellers, and motors for any visible damage.
- Ensure the battery is fully charged and securely connected.
- Verify that the remote controller is powered on and successfully bound to the quadcopter.
- Check your FPV goggles/screen for a clear video feed.

6.2 Flight Instructions

After completing pre-flight checks, arm the quadcopter using your remote controller. Gradually increase throttle for takeoff. Practice basic maneuvers in a safe, open environment. The Pavo Pico offers precise and responsive control due to its optimized power system.

6.3 Battery Management

The included LAVA 2S 450mAh 75C battery provides approximately 4 minutes of flight time. Monitor battery voltage during flight and land before the voltage drops too low to prevent damage. Always charge batteries using a compatible LiPo charger and follow all safety precautions.

7. Maintenance

7.1 Cleaning

Regularly clean the quadcopter to remove dust, dirt, and debris. Use a soft brush or compressed air. Avoid using liquids directly on electronic components.

7.2 Propeller Replacement

Damaged propellers can significantly affect flight performance and safety. Replace any bent, cracked, or chipped propellers immediately with genuine BETAFPV GF 45mm-3B propellers.

7.3 Motor Care

Inspect motors for debris or hair wrapped around the shafts. Using acetate tape to bind motor wires can prevent them from interfering with propeller rotation. If a motor exhibits unusual noise or reduced performance, it may require replacement.

7.4 Frame Inspection

Periodically check the PA12 material frame for cracks or stress points, especially after hard landings. While durable, severe impacts can cause damage. Ensure all screws are tightened.

8. Troubleshooting

8.1 "Jello Effect" in Video

If your video feed exhibits a "jello effect" (wavy distortions), this typically indicates vibrations. Ensure the rubber dampers on the VTX mounting bracket are correctly installed and not worn. Check for bent or unbalanced propellers and replace if necessary. Verify that motor wires are secured and not touching propellers. GyroFlow software can also help stabilize recorded footage.

8.2 Quadcopter Not Binding

Confirm that both the quadcopter and remote controller are powered on and within range. Ensure your remote controller is set to the ELRS V3 protocol. Re-attempt the binding procedure as described in Section 5.4. If issues persist, consult the BETAFPV support resources.

8.3 Motor Failure / Uneven Thrust

If one or more motors are not spinning correctly or providing uneven thrust, first check for any obstructions (e.g., hair, dirt) around the motor shaft. Inspect motor wires for damage. If a motor is confirmed faulty, it will need to be replaced. This can sometimes be indicated by the quadcopter not flying level or flipping on arming.

8.4 Short Flight Time

Ensure your battery is fully charged before flight. Over-discharging batteries can reduce their lifespan and capacity. Consider using higher capacity batteries (e.g., 550mAh 2S) if longer flight times are desired, ensuring they fit securely and do not excessively increase the quadcopter's weight.

9. Specifications

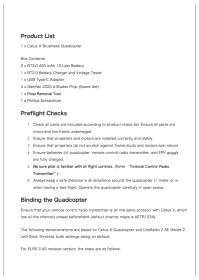
Item	Pavo Pico Brushless Whoop Quadcopter
Color	Black
Flight Time	Approx. 4 minutes (with LAVA 2S 450mAh 75C Battery)
Wheelbase	80.8mm
Battery	LAVA 2S 450mAh 75C Battery (included)
Flight Controller (FC)	F4 2S 20A AIO FC V1
Propellers	GF 45mm-3B black propeller
Motor	1102 | 14000kv red and black (2022)
Weight (No Battery)	73.47g
Frame	Pavo Pico Brushless Whoop Frame (PA12 material)
HD VTX Support	O3 Air Unit (Not Included), Not supported Analog VTX
Receiver (RX) Version	PNP (ELRS V3 protocol)
FPV Camera Support	O3 Camera (Not Included)
Product Dimensions	5"L x 5"W x 2.5"H
Item Weight	100 Grams (with battery)

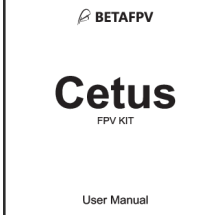
Image: The Pavo Pico quadcopter being weighed on a digital scale.

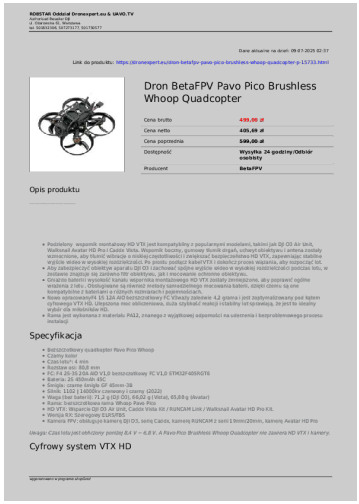
10. Warranty and Support

For warranty information, technical support, or further assistance, please contact BETAFPV directly through their official website or authorized retailers. Keep your purchase receipt as proof of purchase.
No official product videos from the seller were found in the provided data.

Related Documents - Pavo Pico Brushless Whoop Quadcopter

	[BETAFPV Cetus X Brushless Quadcopter User Manual] This document provides a comprehensive guide to the BETAFPV Cetus X Brushless Quadcopter, covering product contents, preflight checks, binding procedures, VTX frequency and power switching, and Betaflight configuration.

	[BETAFPV Cetus FPV Kit User Manual] A comprehensive user manual for the BETAFPV Cetus FPV Kit, covering product details, preflight checks, quick start guide, flight operations, remote control and FPV goggles usage, OSD menu, LED status codes, advanced settings, and FAQs.
	[Cetus FPV Drone Quick Start Guide] Comprehensive quick start guide for the Betafpv Cetus FPV drone. Learn about different flight modes including Normal, Sport, and Manual, speed settings, and optical flow positioning. Essential information for new pilots.
	[BETAFPV Aquila16 FPV Drone User Manual] User manual for the BETAFPV Aquila16 FPV Drone, covering product list, pre-flight checks, flight modes, binding, OSD settings, calibration, battery charging, turtle mode, and troubleshooting.
	[BETAFPV Cetus FPV Kit Quick Start Guide] A quick start guide for the BETAFPV Cetus FPV Kit, detailing Normal Mode, Sport Mode, Manual Mode, Speed Switch, and Optical Flow Positioning.
	[BETAFPV LiteRadio 2 SE Radio Transmitter User Manual] Comprehensive user manual for the BETAFPV LiteRadio 2 SE Radio Transmitter, covering setup, operation, binding, charging, and safety guidelines.



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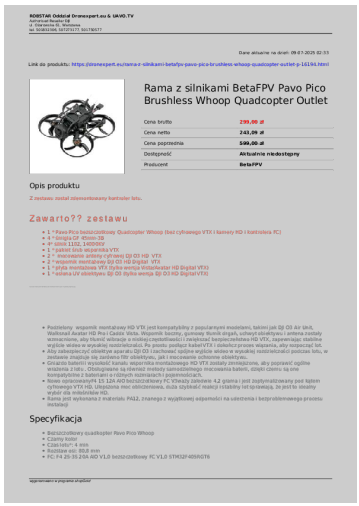
ROBSTAR Oddzial Dronexpert.eu UAVO.TV Authorised Reseller DJI ul. Oarowska 61, Warszawa tel. 50183 ... i Vista HD Digital VTX nie s zawarte we wszystkich pakietach. musisz je kupi osobno. Dron BetaFPV **Pavo Pico Brushless Whoop Quadcopter** Cena brutto Cena netto Cena poprzednia Dostpno Producent 499,... lang:pl score:75 filesize: 187.79 K page_count: 4 document date: 2025-07-09



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