

**FPV motor 1205 5500KV**

**User manual**



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## 1. Product overview



Fig.1. Fpv motor 1205 5500 KV

High-Performance Power for Micro FPV

The Pilotix 1205 5500KV is specifically designed for sub-250g builds where every gram counts. Optimized for 2'' - 2.5'' propellers, this motor provides high responsiveness and explosive punch for micro-class drones.

## 2. Technical Specifications

For detailed technical specifications, precise dimensions, and full thrust test results (Thrust Chart), please refer to the Official Datasheet available on our website.

## 3. Installation Guide

### Mounting Pattern

The motor features a 9x9 mm mounting pattern using M2 screw holes.

### Proper Tightening Technique (Cross-Pattern)

To ensure even pressure distribution and prevent mechanical stress on the motor base or the frame arm, always tighten the mounting screws in a cross-pattern (diagonal order).

1. Insert all 4 screws loosely.
2. Tighten one screw halfway.
3. Move to the screw diagonally opposite and tighten it halfway.
4. Repeat for the remaining two screws.
5. Finally, fully torque them down in the same diagonal sequence.

**CRITICAL WARNING:** Check your screw length! Ensure that the mounting screws do not reach or touch the motor windings. Even slight contact will cause a short circuit, leading to the immediate destruction of both the motor and your ESC.

### **Propeller Mounting**

- Type: T-Mount (dual-hole fixing).
- Prop Screws: Use the provided M2 screws to secure the propeller to the motor bell. Do not over-tighten, as this can deform the propeller hub.

## **4. Wiring and Setup**

**Connection:** Solder the three motor wires to your ESC (Electronic Speed Controller) pads in any order.

**Direction Check:** Power up the quad (always use a Smoke Stopper for the first plug-in) and check the rotation in Betaflight Configurator.

**Software Configuration:** If the motor spins in the wrong direction, you can either swap any two motor wires or change the "Motor Direction" setting in BLHeli\_S / Bluejay firmware.

## **5. Safety & Maintenance**

**Pre-flight:** Check the tightness of both motor and propeller screws before every session.

**Cleaning:** If you land in dirt or sand, use compressed air to blow out the motor bell. Avoid flying with debris inside, as it will damage the magnets and wire coating.

**Bearings:** Replace the motor or bearings if you notice "grittiness" or excessive play.

**Temperature:** If motors are too hot to touch (> 80°C) after a flight, land immediately and check your PID/Filter settings or mechanical issues.

### **Contacts:**

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