Disclaimer

Read this disclaimer carefully before using FlameWheel330. By using this product, you hereby agree to this disclaimer and signify that you have read them fully. FlameWheel330 is an excellent multi-rotor. With a good autopilot, it will even offer tremendous flight features for low altitude flight working in restricted space. Despite the controller of autopilot operates in the safest manner when the main power battery is connected, we strongly recommend customers to remove all propellers, use power supply from R/C system or flight pack battery, and keep children away during system calibration and parameter setup. Please respect the AMA's National Model Aircraft Safety Code. DJI Innovations assumes no liability for damage(s) or injuries incurred directly or indirectly from the use of this product.

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F330 Profile

FlameWheel330 (F330) is a multi-rotor designed for all pilots for fun or AP. With DJI Naza autopilot system, it can achieve hovering, cruising, even rolling and other flight elements. It can be applied for entertainment, aerial photography, FPV and other aero-modeling activities.
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Product Usage Cautions

When flying, the fast rotating propellers of FlameWheel330 will cause serious damage and injury. Therefore, please fly with a high safety consciousness.

1. Keep flying multi-rotor away from objects, such as obstacles, human beings, high-voltage lines and so on.
2. Do not get close to or even touch the working motors and propellers, which will cause serious injury.
3. Do not over load the multi-rotor.
4. Check that the propellers and the motors are installed correctly and firmly before flight.
5. Make sure the rotation direction of each propeller is correct
6. Check whether all parts of multi-rotor are in good condition before flight. Do not fly with old or broken parts.
7. Use DJI parts as much as possible.

If you have any problem you cannot solve during installation, please contact our customer service.
## In Box

<table>
<thead>
<tr>
<th></th>
<th>Top Board 330FBT x1</th>
<th>Bottom Board 330FBB x1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arms</strong> 330FAW x2 330FAC x2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Motors</strong> 330MOT x4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Screws</strong> 330-M3x8 x16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magic Strap 330MSX x1</td>
<td>Battery Band 330BBX x1</td>
<td></td>
</tr>
<tr>
<td>Power Line Pair 330PLP x1</td>
<td>Small Wrench 330SW x1</td>
<td></td>
</tr>
</tbody>
</table>
Tools Needed

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0mm Hex Wrench</td>
<td>For frame and motors installation.</td>
</tr>
<tr>
<td>Screw Glue</td>
<td>For fastening screws.</td>
</tr>
<tr>
<td>Nylon Cable Tie</td>
<td>For binding devices and wires.</td>
</tr>
<tr>
<td>Scissors</td>
<td></td>
</tr>
<tr>
<td>Diagonal Cutting Pliers</td>
<td></td>
</tr>
<tr>
<td>Foam Double Sided Adhesive Tape</td>
<td>For fixing receiver, controller and other modules.</td>
</tr>
<tr>
<td>Soldering-iron &amp; wires</td>
<td>For connecting ESCs’ power cables to bottom board.</td>
</tr>
</tbody>
</table>

ESC Wiring

Important

- Please solder ESCs to power pads on bottom board as the figure shows.
- Use any insulating method at all soldering spots. Make sure there is no short or open circuit.
- Make sure the side of power pads is upward.
- Make sure the rotation direction of each motor is the same as the way in the figure of “Assembly” shows. If not, switch any of two wire connections of the incorrect motor to change its rotation direction.
Assembly

Step 1
Install bottom board

Step 2
Install autopilot system

Step 3
Install motors, ESCs

Step 4
Install top board

Step 5
Install propellers

Install screws by appropriate force to prevent breaking threads. Use adequate screw glue for installing screws.

Please wire neatly. Make sure wires will not be cut by frame boards and propellers. Smooth out the boards edge if necessary.

Please install propellers after autopilot system configuration procedure. Make sure the rotation direction of propellers are the same as the figure shows. When mounting the propellers, do not use any thread locker, just tighten the nuts to the end manually then use the wrench to tighten it about 50°.

In up figure, arms ①② are front of craft, arms ③④ are back of craft. You’d better choose the same color arms for the same direction. See from top, motors on arms ①③ rotate counter-clock wise, use propellers 8045; motors on arms ②④ rotate clock wise, use propellers 8045R.
ESC Sound Introduction

<table>
<thead>
<tr>
<th>ESC State</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready</td>
<td>♪1234567</td>
</tr>
<tr>
<td>Throttle stick is not at bottom</td>
<td>BBBBBBB…</td>
</tr>
<tr>
<td>Input signal abnormal</td>
<td>B--------B-----B…</td>
</tr>
<tr>
<td>Input voltage abnormal</td>
<td>BB---BB---BB---BB…</td>
</tr>
</tbody>
</table>

**Tips:**
DJI ESCs are specially designed for multi-rotors. When use with DJI autopilot systems, you do not have to setup any parameters or calibrate travel range.

Specifications

**Frame**
- Diagonal Wheelbase: 330mm
- Frame Weight: 156g
- Takeoff Weight: 600g ~ 1200g

**ESC**
- Current: 18A OPTO
- Signal Frequency: 30Hz ~ 450Hz
- Battery: 3S ~ 4S LiPo

**Motor**
- Stator size: 22×12mm
- KV: 920rpm/V
- Propeller: 8 × 4.5in