

FIRST STEPS GUIDE

Welcome to your new quad.

Vannystyle Mini — Built & Tuned

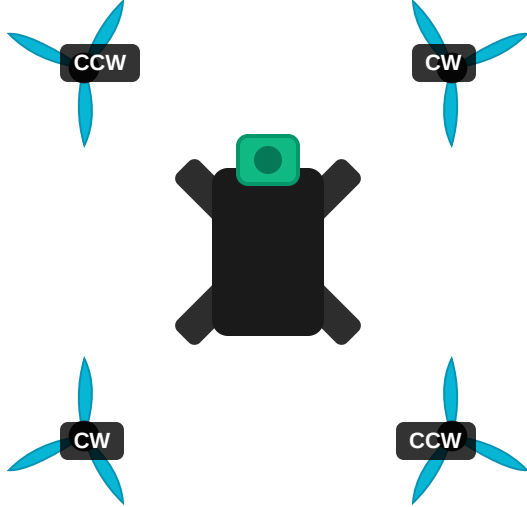
YOUR BUILD

| | |
|-------------------|------------------------------------|
| Frame | Vannystyle Mini |
| Flight Controller | Hobbywing FC + 45A AM32 ESC |
| Receiver | RadioMaster RP1 (ExpressLRS 3.5.x) |
| Video System | DJI O4 Pro Air Unit |
| Prop Orientation | Props-Out (always) |

Props-Out — The WREKD Standard

We **always** install propellers in the **Props-Out** configuration. The raised leading edge of each blade points **outward**, away from the center of the quad. This improves yaw authority, reduces prop wash, and matches how every WREKD Built & Tuned quad is tuned at our shop.

▲ **FRONT**



PROPS-OUT

- ✓ Raised leading edge points **outward**
- ✓ Motors 1 & 3 = **CCW**
- ✓ Motors 2 & 4 = **CW**
- ✓ Re-check prop bolt torque after first flight

⚠ Safety First

Never spin motors with props attached unless the quad is secured and your fingers are clear. Always remove props when configuring or troubleshooting on the bench.

Bind Your ExpressLRS Radio

Your quad ships with a **RadioMaster RP1** ExpressLRS receiver running **ELRS 3.5.x**. Modern ELRS uses the “power-cycle” bind method — no buttons to press on the receiver itself.

Bind Procedure

- 1 Power cycle the quad three times — fast.**
Plug the battery in just far enough to make the drone beep / power up, then unplug. Do this **three quick times**
. On the **third** insertion, leave it fully plugged in.
- 2 Watch the receiver LED.**
The ELRS RX in the back of the drone should now blink in **double-pulse** pattern (two blinks, pause, two blinks...). That means it is in bind mode.
- 3 On your radio, open the ExpressLRS Lua script.**
Usually: press the **SYS** button → select *ExpressLRS*.
- 4 Scroll down to “Bind” and press it.**
You should hear your radio announce “*Telemetry recovered.*” Your quad is now bound.

LED QUICK REFERENCE

● **Double blink** — Bind mode

● **Solid** — Connected to radio

● **Slow blink** — Searching / no link

● **Very fast blink** — Wi-Fi flashing mode

⚠ Didn't hear “Telemetry recovered”?

The two most common causes are:

- **Model Match**
is enabled on your radio with the wrong Model ID.
- Your radio / module ELRS version does not match the receiver. This quad ships with **ELRS 3.5.x** — stick close to that version.

💡 Version Tip

Major-version mismatches (e.g. 3.x ↔ 4.x) will not bind. Minor versions within the same major usually do.

Flash ELRS Over Wi-Fi

If you need to match a specific ELRS version on your radio, you can re-flash the RP1 receiver. The cleanest path is **Wi-Fi flashing**, directly from your phone or laptop — no USB cable needed.

Get a Firmware File

Use either of these to obtain a `firmware.bin` matching your radio's ELRS version:

- **ExpressLRS Configurator** — build a custom `firmware.bin` for the *RadioMaster RP1 2.4GHz* target.
- **Direct download** — grab a pre-built `firmware.bin` for that version from a trusted source.

Wi-Fi Flash Procedure

1 Power the quad on a battery and wait ~60 seconds.
The Hobbywing FC needs battery power to keep the RX alive — USB alone is not enough. After about a minute with no radio link, the receiver drops into Wi-Fi mode: the red LED begins flashing **extremely fast and continuously**.

2 Connect to the RX's Wi-Fi network.
On your phone or laptop, join the SSID that starts with `ExpressLRS`. Default password is usually `expresslrs`.

3 Open the ExpressLRS configuration page.
Most devices pop it up automatically. If not, browse to `http://10.0.0.1/`.

4 Use the “Update” tab to upload your `firmware.bin`.
Wait for the upload to complete and the receiver to reboot. Repeat the bind procedure from Step 02.

⚠ Do not unplug mid-flash
A failed Wi-Fi flash can soft-brick the receiver. Use a fresh battery and keep your device close to the quad to maintain Wi-Fi signal.

💡 Stick close to v3.5.x
Your radio and module also need to be on a matching ELRS version. If you can, flash everything (radio internal/external module + receiver) to the same version at once.

Bind DJI O4 Pro Air Unit

Your quad uses the **DJI O4 Pro Air Unit**. You'll need to bind it to your DJI Goggles (Goggles 3, Goggles 2, Integra, etc.) before you can see video.

Bind Procedure

- 1 Power on your goggles and enter bind mode.**
Hold the goggles' **Power** button for about **5 seconds** until you hear continuous beeping. The goggles are now searching for an air unit.
- 2 Plug a battery into the quad.**
Give the air unit a few seconds to boot.
- 3 Press the BIND button on the O4 Pro air unit.**
It is a tiny recessed button on the air unit board — use a pin or straightened paperclip to *gently* press it. Do not force it.
- 4 Listen for the confirmation beep on your goggles.**
Once you hear it, video should appear and binding is complete.

Need a visual?

DJI's binding workflow can change between firmware versions. For the latest, follow the official DJI manual for your specific goggles, or search YouTube for “DJI O4 Pro bind to [your goggles model]”.

Pre-Flight Checklist

- Props installed **Props-Out** and tightened.
- ELRS bound — radio announces “Telemetry recovered.”
- DJI goggles linked and showing clean video.
- Failsafe configured in Betaflight (no signal → motors stop).
- Battery strap inspected — no fraying, secure fit.
- Open area, clear of people, animals, and obstacles.

Need help?

Email

support@wrekd.com

or DM us on the WREKD Discord. Include your order number and a photo of the issue if applicable.