200 km/h 3d Printed Drone For Under $200 CAD

Hydrance

VIEW IN BROWSER

updated 1. 4. 2026 | published 1. 4. 2026

Summary

This project is a fully 3D-printed drone designed from scratch with a focus on minimal hardware and ease of use.

Hobby & Makers > RC & Robotics

Tags: rc drone speed fpv

Overview

This project is a fully 3D-printed drone designed from scratch with a focus on minimal hardware, ease of assembly, and durability. The design uses a modular approach to simplify repairs and replacements.

Features & Specifications

Theoretical top speed: ~200 km/h Frame material: Fully 3D printed in PETG Hardware: No hardware required except screws Flight controller: F405 60A stack Motors: 2207 1750KV Battery: 6S LiPo Propellers: 5-inch Weight: ~600g (without camera) 3D Printer Used: Bambu Lab A1

IMPORTANT NOTE!!!

Please read this carefully. If you're 3d printing the parts for this drone using PETG or PLA on your printer, then go ahead and print, you can skip

the next part. If you're ordering the parts from PCBWay however, then please do not use the STEP or 3MF files from here, the clearances on this model was specifically made for FDM 3d printing, if you use it on PCBway the parts will be too loose.

Go to my github page, you'll see a folder named PCBWay STEP Files. Please order using those.

Components List:

Motors (1750kv):

https://www.aliexpress.com/item/1005005247800911.html

Transmitter

https://www.aliexpress.com/item/1005010435495846.html

Propellers:

https://www.aliexpress.com/item/1005006718265658.html

Flight Controller and ESC:

https://www.aliexpress.com/item/1005008885319773.html

Battery (6s 1200mah):

https://www.aliexpress.com/item/1005008637995187.html

Receiver:

https://www.aliexpress.com/item/1005009645506956.html

Total Cost: $200 CAD Total Cost: $167 USD (price may be different depending on your location and discounts)

OPTIONAL:

GPS Module

https://www.aliexpress.com/item/1005004598597402.html

Strap

https://www.aliexpress.com/item/1005005909577742.html

Design Notes

Modular construction for easier assembly and maintenance Designed to minimize the use of additional hardware Arms securely slot into the main

hub without fasteners TPU recommended for components requiring impact absorption (e.g., bottom brace)

Contact

For permissions, questions, or collaboration, please reach out:

Email: abdusamaku@gmail.com YouTube: https://youtube.com/@HydranceYT

Disclaimer and Terms of Use

This drone design and all associated files are provided “as is,” without any warranties of any kind, express or implied. By using, modifying, building, or distributing this design, you acknowledge that you do so entirely at your own risk.

The creator assumes no responsibility or liability for any damage, injury, loss, or legal issues that may result from the use, misuse, or inability to use this design. This includes, but is not limited to, damage to equipment, property, or personal injury.

Building and operating a drone involves inherent risks, including but not limited to high-speed rotating components, electrical systems, and flight-related hazards. It is the user’s responsibility to ensure that they have the appropriate knowledge, skills, tools, and safety precautions before attempting to build or operate this drone.

Users are solely responsible for complying with all applicable local laws and regulations regarding drone registration, certification, and operation. Regulations may vary by region, and it is the user’s responsibility to verify and follow them.

This design is provided for educational and informational purposes only. Any use of this design constitutes acceptance of these terms.

Model files

bottom-body.step

3d-printed-drone.3mf

top-cover.step

arms.step

main-body.step

License

This work is licensed under a
Creative Commons (4.0 International License)

Attribution—Noncommercial—No Derivatives

✖ | Sharing without ATTRIBUTION
✖ | Remix Culture allowed
✖ | Commercial Use
✖ | Free Cultural Works
✖ | Meets Open Definition