iFlight Nazgul Evoque F5D

iFlight Nazgul Evoque F5D 6S HD FPV Drone User Manual

Model: Nazgul Evoque F5D

Introduction

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your iFlight Nazgul Evoque F5D 6S HD FPV Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.

Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Maintain a safe distance from the drone during operation.
- Ensure all propellers are securely attached and undamaged before each flight.
- Do not fly near airports or restricted airspace.
- Always disconnect the battery after use and during transport.
- Never attempt to catch a flying drone.
- Adhere to all local regulations and laws regarding drone operation.
- Use only recommended batteries and chargers.

Package Contents

Verify that all items are present in your package:

- iFlight Nazgul Evoque F5D 6S HD FPV Drone
- Propellers (set)
- Antennas
- Battery Strap(s)
- USB Cable
- Remote Control (check specific package contents for inclusion)

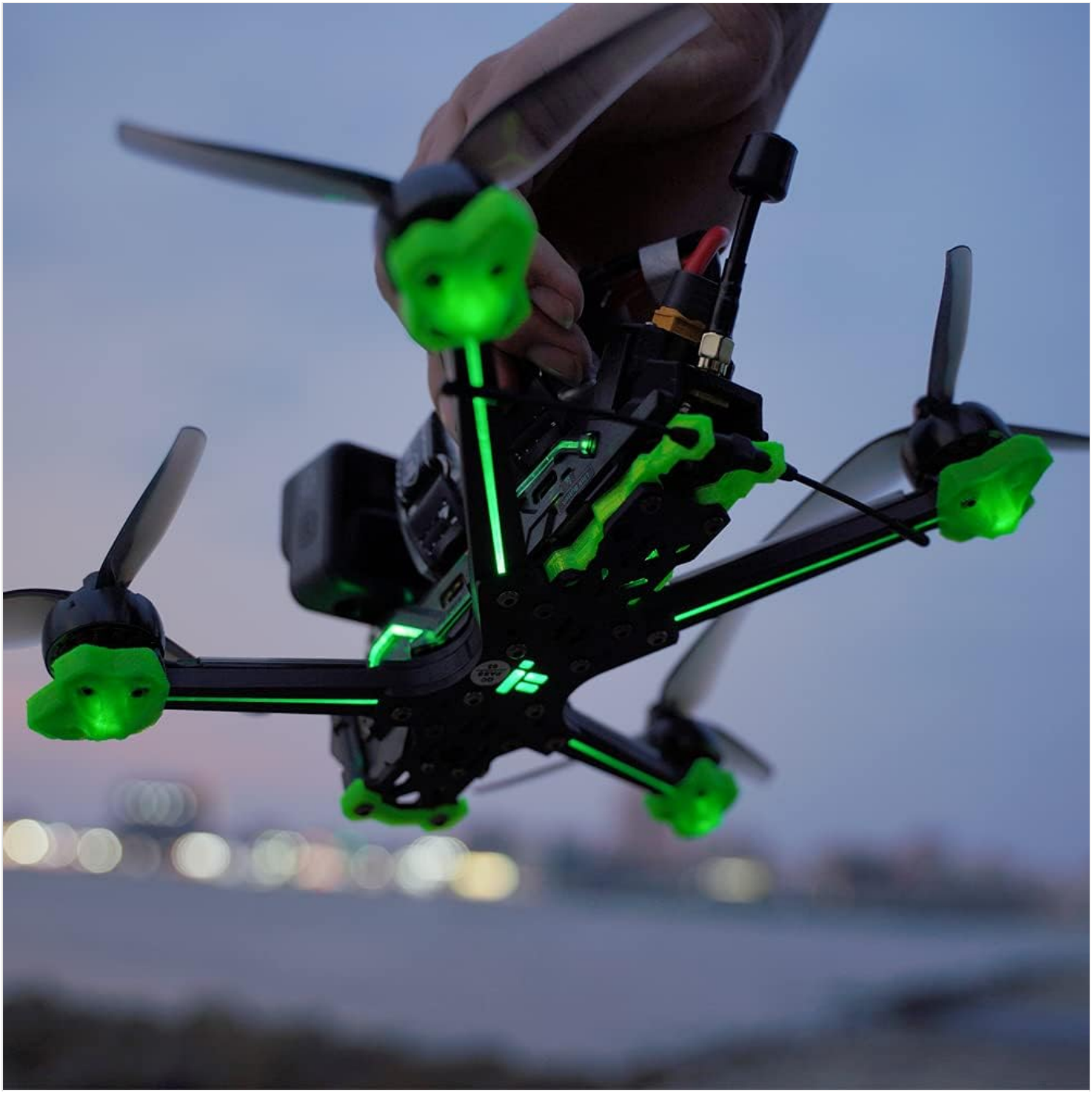

Image: Top-down view of the iFlight Nazgul Evoque F5D 6S HD FPV Drone, showcasing its carbon fiber frame, propellers, and central electronics stack.

Setup

1. Propeller Installation

Attach the propellers to the motors. Ensure correct rotation direction for each motor as indicated in the flight controller software or on the motor bells. Secure them firmly with the provided nuts or screws.

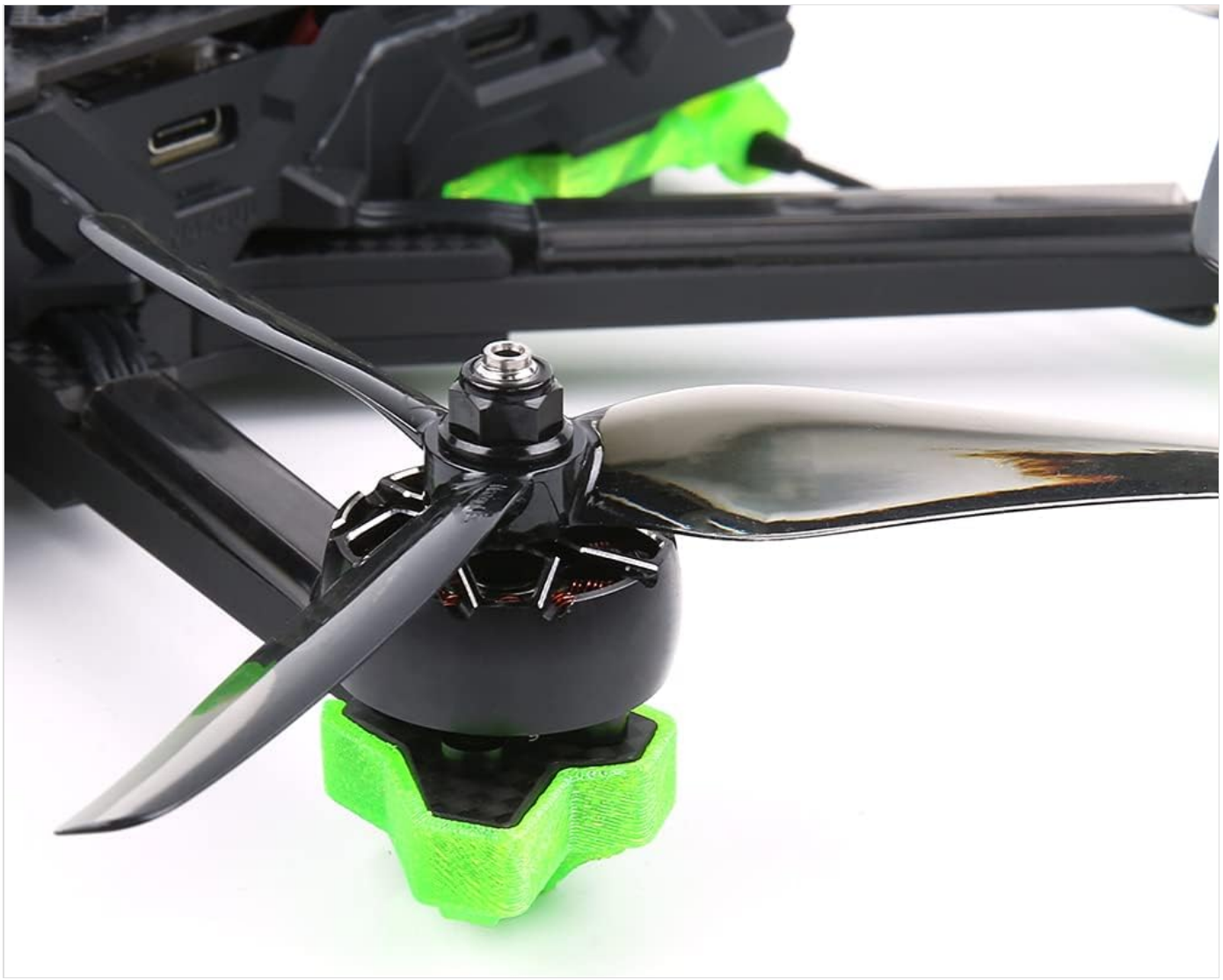

Image: Close-up view of a drone motor with a propeller attached, highlighting the secure mounting.

2. Battery Connection

Connect your 6S LiPo battery to the integrated XT60 connector on the drone. Ensure the battery is fully charged before flight. Use the provided battery strap to secure the battery to the drone's top plate.

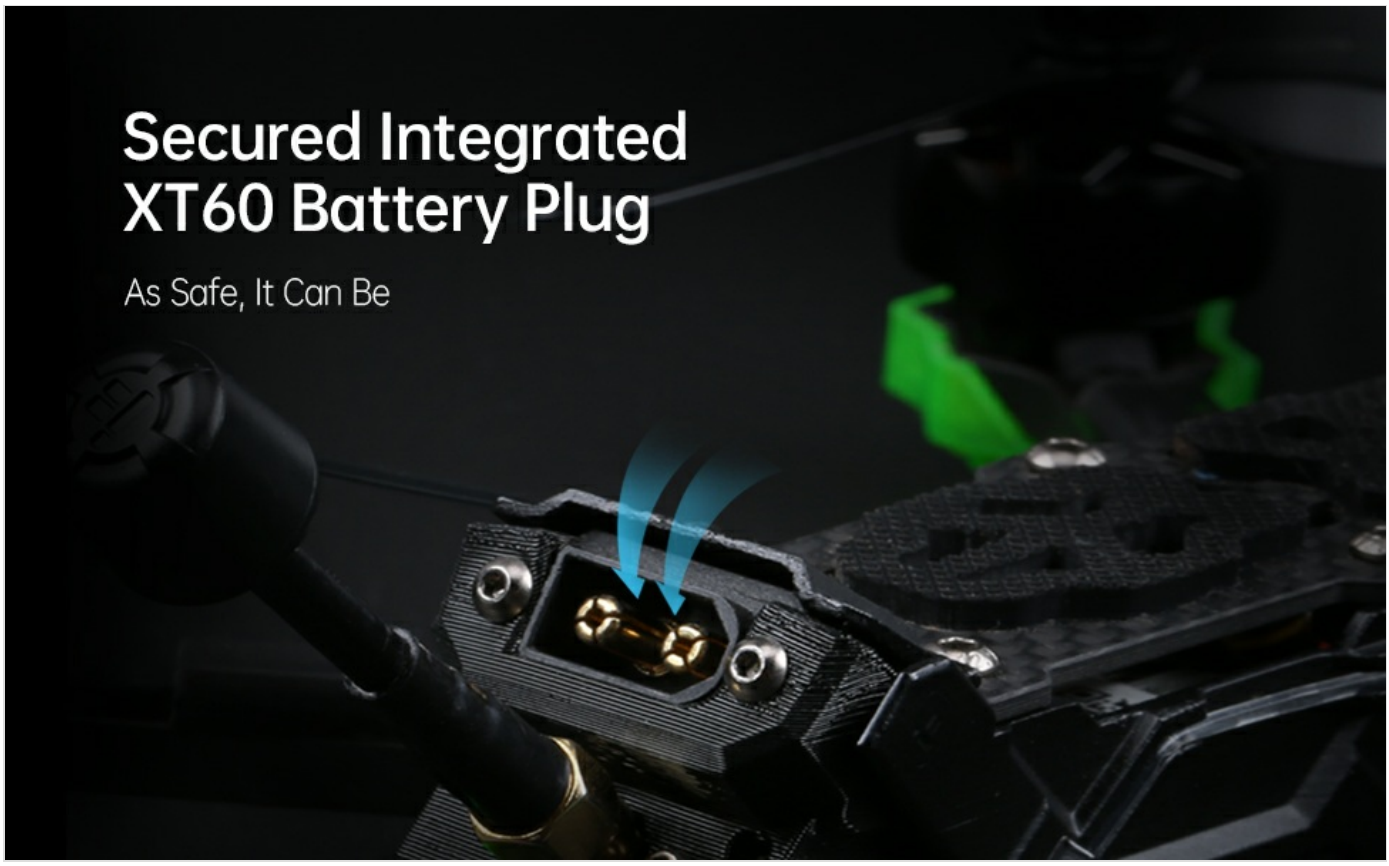

Image: Detail of the secured integrated XT60 battery plug, designed for safe and reliable power connection.

3. Binding to Remote Controller

Refer to your specific remote controller's manual for binding instructions. Typically, this involves putting both the drone's receiver and the remote controller into binding mode. Ensure successful binding before proceeding.

4. Flight Controller Configuration (Betaflight)

The Nazgul Evoque F5D comes pre-configured with Betaflight. For advanced settings or calibration, connect the drone to your computer via the USB port and use the Betaflight Configurator software. Ensure all sensor calibrations (accelerometer, gyroscope) are performed and check motor directions.

Image: View of the high-performance F7 55A Power Stack, which includes the flight controller and electronic speed controller, located within the drone's frame.

Operating Instructions

1. Pre-Flight Checks

- Inspect propellers for damage and ensure they are secure.
- Check battery charge level on both drone and remote controller.
- Verify FPV video feed in your DJI FPV Goggles.
- Ensure no loose wires or components on the drone.
- Confirm clear flight area.

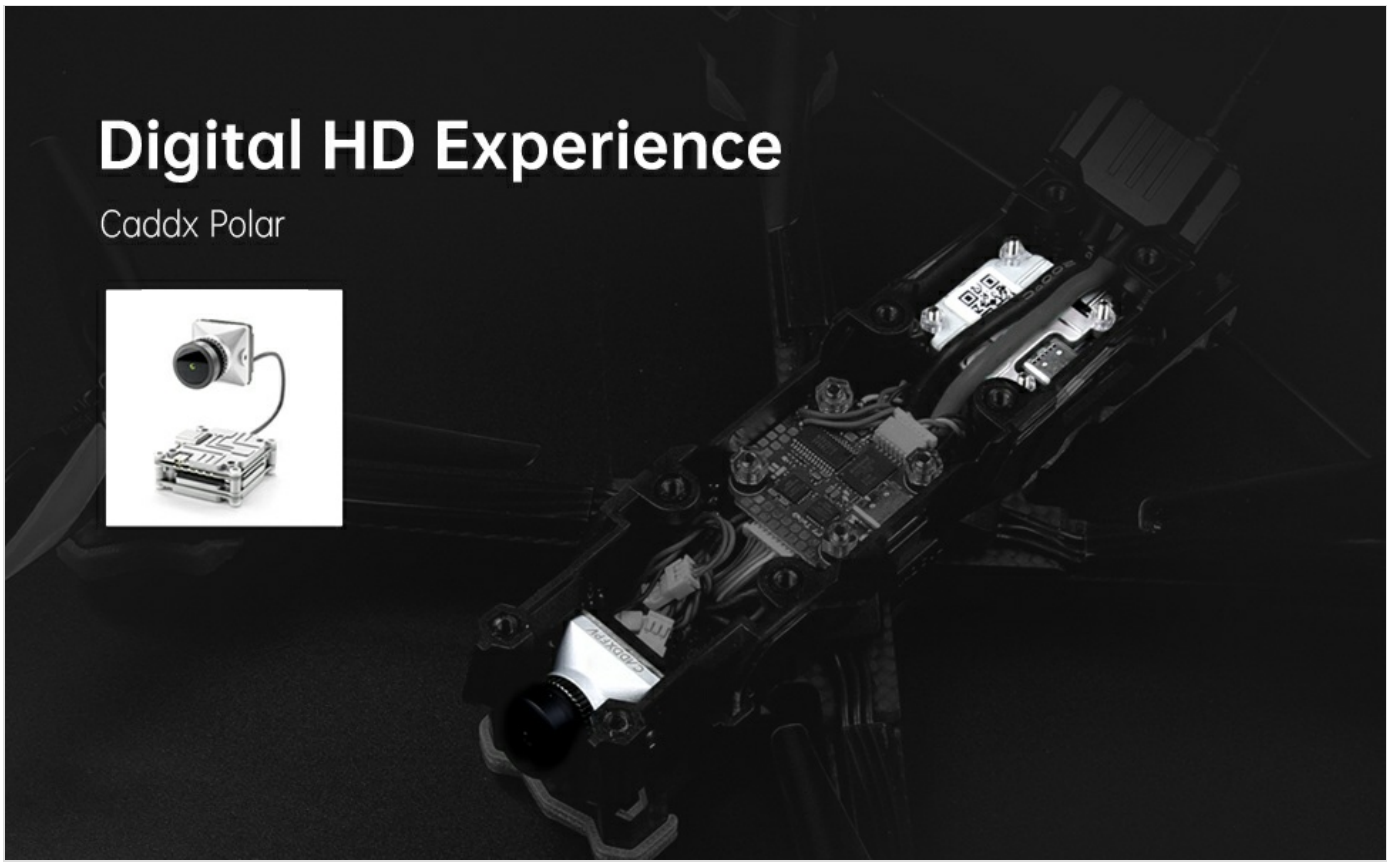

Image: Components of the Caddx Polar digital HD FPV system, which provides high-definition video transmission to compatible FPV goggles.

2. Arming and Disarming

To arm the drone, move the throttle stick to its lowest position and activate the designated arming switch on your remote controller. The motors will spin slowly. To disarm, activate the arming switch again. Always disarm immediately after landing or in an emergency.

3. Flight Controls

Familiarize yourself with the standard FPV drone controls:

- **Throttle:** Controls altitude (left stick up/down).
- **Yaw:** Rotates the drone horizontally (left stick left/right).
- **Pitch:** Tilts the drone forward/backward (right stick up/down).
- **Roll:** Tilts the drone left/right (right stick left/right).

Practice in a simulator before your first real flight if you are new to FPV drones.

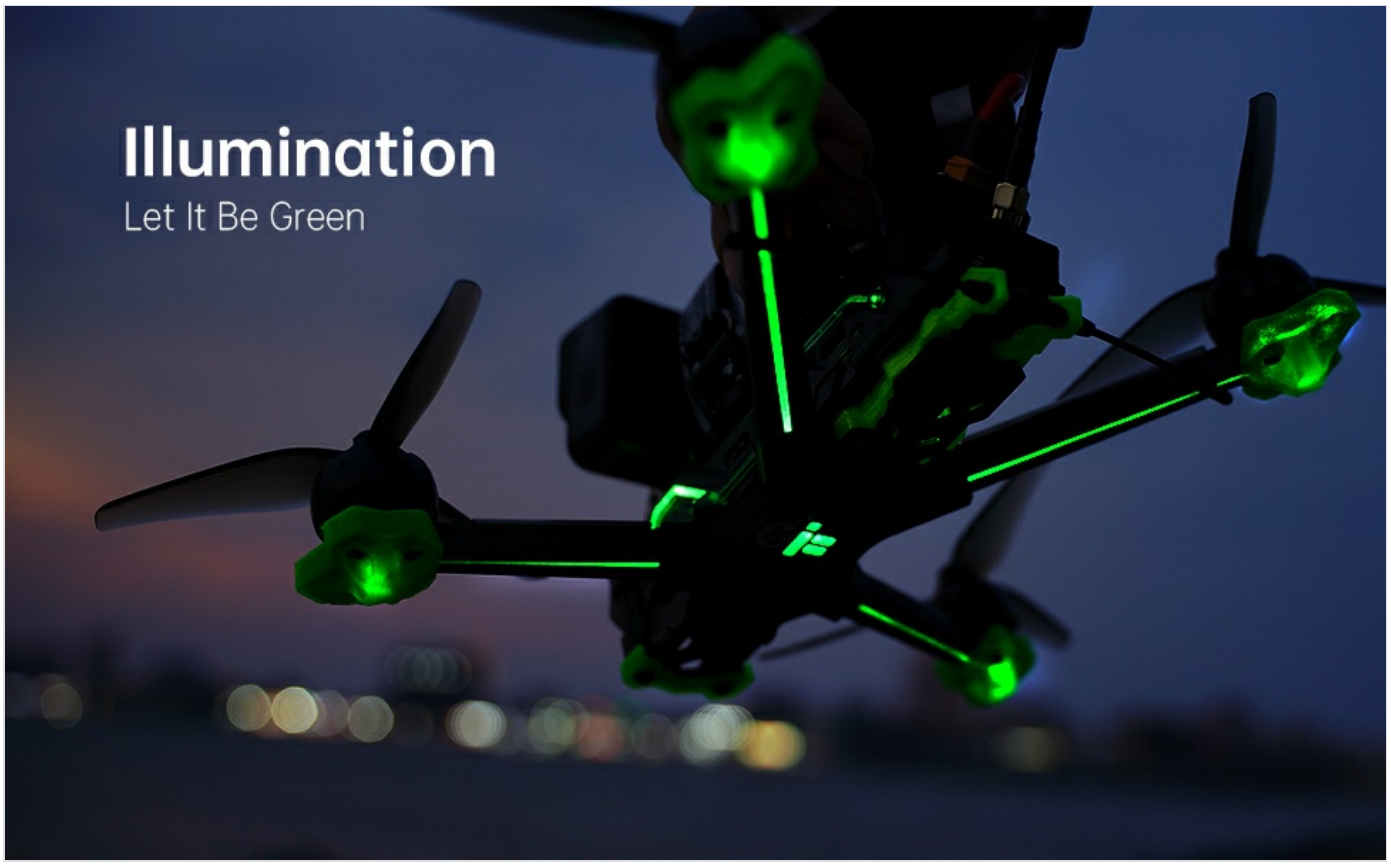

Image: The iFlight Nazgul Evoque F5D drone illuminated with green LEDs, visible during low-light conditions or for aesthetic purposes.

Maintenance

- **Propeller Inspection:** Regularly check propellers for cracks, bends, or nicks. Replace damaged propellers immediately.
- **Cleaning:** Keep the drone free from dirt, dust, and debris. Use a soft brush or compressed air. Avoid moisture.
- **Firmware Updates:** Periodically check the iFlight website for firmware updates for the flight controller and ESCs. Follow update instructions carefully.
- **Component Inspection:** After any crash or hard landing, inspect the frame, motors, camera, and antennas for damage. Ensure all screws are tight.

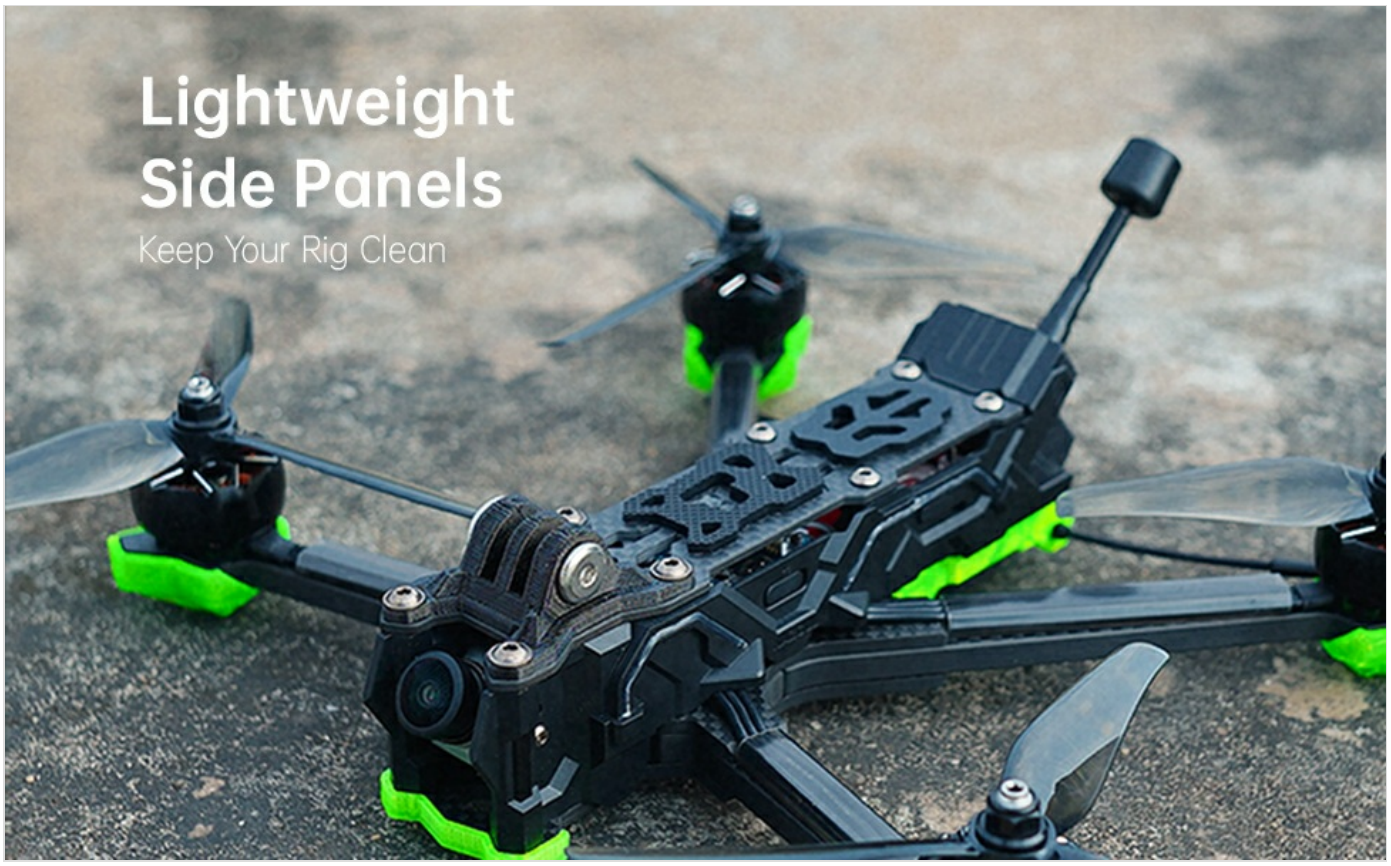

Image: The lightweight side panels of the drone, designed to protect internal components and keep the electronics clean.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not arm.	Throttle not at lowest position, arming switch not activated, safety pre-arm conditions not met (e.g., no receiver signal, low battery).	Ensure throttle is at zero. Check arming switch. Verify receiver is bound and connected. Check battery voltage. Connect to Betaflight Configurator to check pre-arm flags.
No FPV video feed.	Caddx Polar not powered, antenna disconnected, incorrect channel selected on DJI FPV Goggles, damaged VTX/camera.	Ensure drone battery is connected. Check antenna connections. Verify goggles are on the correct channel. Inspect VTX and camera for physical damage.
Drone drifts during flight.	Uncalibrated accelerometer, unbalanced propellers, bent motor shaft.	Perform accelerometer calibration in Betaflight. Inspect and replace unbalanced or damaged propellers. Check motors for smooth rotation.
Short flight time.	Degraded battery, incorrect battery type, aggressive flying style.	Use a healthy, fully charged 6S LiPo battery. Adjust flying style. Consider a higher capacity battery if compatible.

Specifications

Feature	Detail
Brand	iFlight

Feature	Detail
Model Name	Nazgul Evoque
Special Feature	HD FPV Capability, Integrated Long-Range Transmission System
Age Range (Description)	Adult
Video Capture Resolution	4K
Connectivity Technology	USB
Included Components	Remote Control (check specific package)
Skill Level	Beginner (with learning curve for FPV)
Battery Capacity (Internal)	450 Milliamp Hours (for internal components, main flight battery sold separately)
Video Capture Format	MP4
Remote Control Technology	RF
Control Type	Remote Control
Maximum Range	0.75 Miles (approx. 1.2 km, depends on environment and FPV system)
Wireless Communication Technology	Radio Frequency
Are Batteries Included	No (main flight battery)
Video Output Resolution	4K
Optical Sensor Technology	CMOS
Item Weight	1.54 pounds (approx. 698g)
Package Dimensions	10.63 x 8.9 x 2.76 inches
Date First Available	August 21, 2021

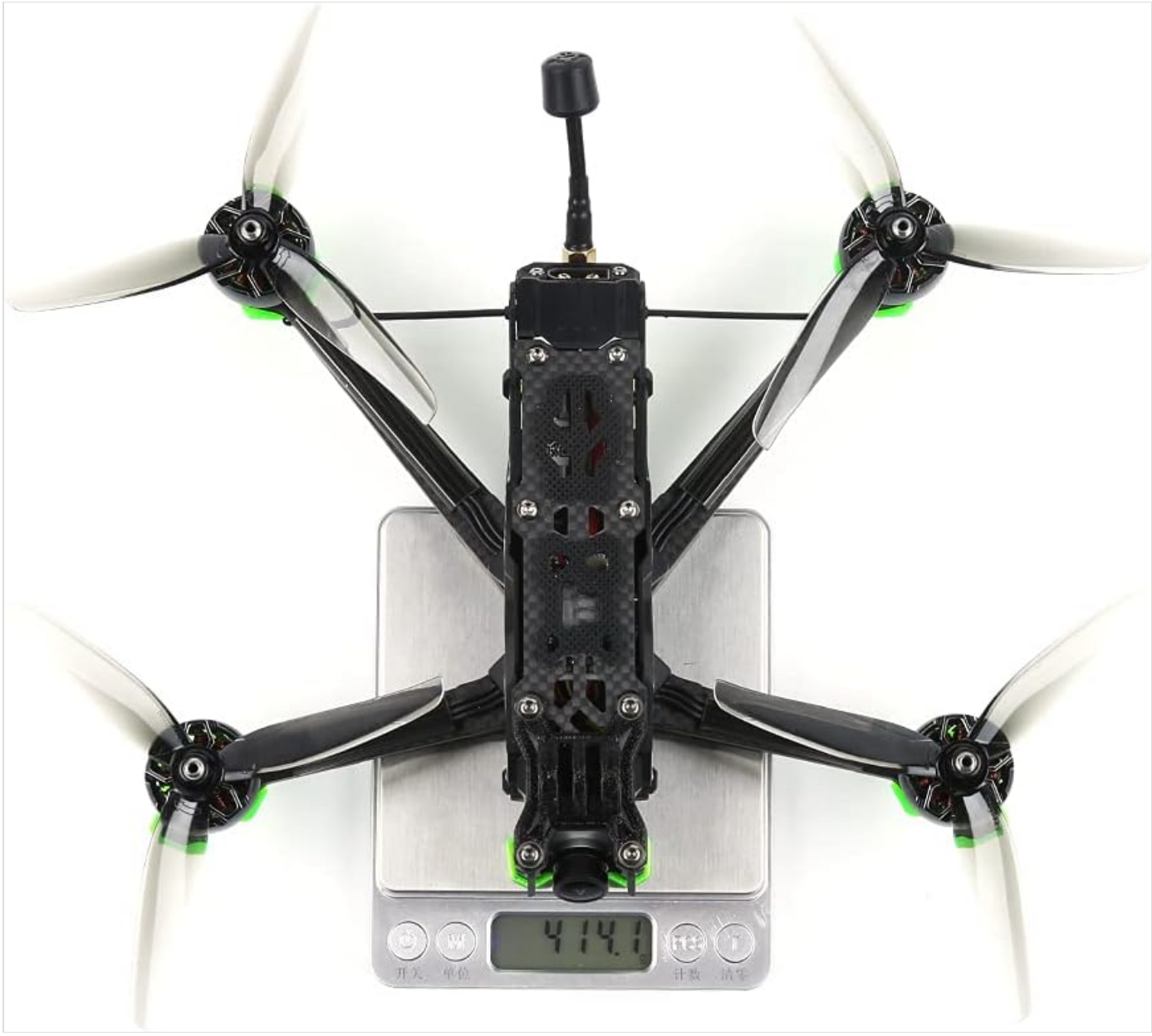

Image: The iFlight Nazgul Evoque F5D drone placed on a digital scale, displaying a weight of 414.1 grams (without battery).

Warranty and Support

Warranty Information

iFlight products typically come with a limited warranty covering manufacturing defects. Please retain your proof of purchase. For detailed warranty terms and conditions, refer to the official iFlight website or contact their customer service directly. Damage due to crashes, improper use, or unauthorized modifications is generally not covered.

Customer Support

For technical assistance, troubleshooting, or spare parts, please visit the official iFlight website for their support resources, FAQs, and contact information. You may also find community forums helpful for general FPV drone support.
Official iFlight Store: iFlight Amazon Store