Brookstone Flight Force

Brookstone Flight Force Micro Drone Instruction Manual

Model: Flight Force
Brand: Brookstone

IMPORTANT SAFETY INFORMATION

Please read all instructions and warnings carefully before operating this drone. Failure to follow these instructions may result in injury or damage to the product.

- **Age Restriction:** This product is recommended for users aged 14 years and up.
- **Choking Hazard:** Contains small parts. Not suitable for children under 3 years.
- **Flight Environment:** Operate the drone in open, unobstructed areas. Avoid flying near people, animals, buildings, or power lines.
- **Weather Conditions:** Suitable for indoor and outdoor use in light winds. Avoid flying in strong winds or adverse weather.
- **Battery Safety:** Do not overcharge the drone battery. Do not expose batteries to extreme temperatures or direct sunlight.
- **FAA Registration Notice:** The Federal Aviation Administration (FAA) requires some owners of drones (Unmanned Aircraft Systems) that weigh more than 0.55 pounds to register their devices at https://registermyuas.faa.gov/. This drone weighs 3.8 oz (0.2375 lbs), which is below the 0.55 pound threshold for FAA registration. However, local regulations may vary.

PACKAGE CONTENTS

Ensure all items listed below are present in your package:

- Brookstone Flight Force Micro Drone
- 2.4GHz Radio Frequency Controller
- USB Charging Cable
- 8 Spare Rotors
- Instruction Manual (this document)

PRODUCT OVERVIEW

The Brookstone Flight Force Micro Drone is a compact and agile quadcopter designed for both indoor and outdoor flight. Its 6-axis gyroscope ensures stable flight, while multiple flight modes cater to various skill levels.

An image showing the compact Brookstone Flight Force Micro Drone from a slightly elevated angle, highlighting its four rotors and sleek black design.

Key features include hover capability, forward/backward, side-to-side, up/down movement, and 360-degree flips. The drone operates on a 2.4GHz radio frequency controller and is USB rechargeable.

SETUP

1. Charging the Drone Battery

1. Connect the small end of the included USB charging cable to the charging port on the drone.
2. Connect the larger end of the USB charging cable to a powered USB port (e.g., computer, USB wall adapter).
3. The charging indicator light (if present) will illuminate during charging and turn off or change color when fully charged.

4. Charging typically takes approximately 30-45 minutes. A full charge provides 5-6 minutes of flight time.
5. **Important:** Do not leave the drone unattended while charging. Disconnect once fully charged.

2. Installing Controller Batteries

1. Locate the battery compartment on the back of the 2.4GHz radio frequency controller.
2. Open the battery compartment cover.
3. Insert 2 AAA batteries (not included), ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

3. Pairing the Drone and Controller

1. Place the drone on a flat, level surface.
2. Turn on the drone by pressing its power button. The drone's lights will flash.
3. Turn on the controller. The controller's indicator light will flash.
4. Push the left joystick (throttle) all the way up, then all the way down.
5. Both the drone's and controller's lights should become solid, indicating successful pairing.
6. If pairing fails, turn off both devices and repeat the process.

OPERATING INSTRUCTIONS

Basic Flight Controls

- **Left Joystick (Throttle):**

  - Push up to ascend.
  - Pull down to descend.
  - Push left/right to rotate left/right (yaw).

- **Right Joystick (Direction):**

  - Push up to fly forward.
  - Pull down to fly backward.
  - Push left to fly left (strafe).
  - Push right to fly right (strafe).

- **Hover:** Gently release the joysticks to allow the drone to hover in place. Minor adjustments may be needed.

Advanced Flight Modes

The drone supports both 3-channel and 4-channel flight modes, allowing for progression as your piloting skills improve.

- **3-Channel Mode:** Typically offers basic controls (throttle, yaw, pitch). Ideal for beginners.
- **4-Channel Mode:** Adds roll control (side-to-side movement without yaw). Provides more precise control for advanced pilots.
- Refer to your controller's specific buttons for switching between modes.

Performing 360° Flips

The Flight Force Micro Drone can perform impressive 360-degree flips with ease.

1. Ensure the drone is flying at a sufficient height (at least 6-10 feet) to allow for the maneuver.
2. Press the dedicated "Flip" button on the controller (consult your controller diagram for exact location).
3. Immediately after pressing the flip button, push the right joystick in the desired flip direction (forward, backward, left, or right).
4. The drone will execute a 360-degree flip in that direction.

Trimming the Drone

If the drone drifts in a particular direction when hovering, you can use the trim buttons to correct its flight path.

- If the drone drifts forward, press the backward trim button repeatedly until it hovers steadily.
- If the drone drifts backward, press the forward trim button.
- If the drone drifts left, press the right trim button.
- If the drone drifts right, press the left trim button.
- Make small, incremental adjustments until stable flight is achieved.

MAINTENANCE

Replacing Rotors

In case of damage, rotors can be replaced using the included spare parts.

1. Gently pull the damaged rotor straight up from its motor shaft.
2. Ensure you replace it with a rotor of the correct type (A or B, usually marked on the rotor and drone arm).
3. Press the new rotor firmly onto the motor shaft until it is seated securely.
4. Always replace all damaged rotors before flying.

Cleaning

To maintain optimal performance, keep your drone clean.

- Use a soft, dry cloth to wipe down the drone's body.
- Remove any dust or debris from the motors and rotors carefully.
- Do not use harsh chemicals or liquids, as they may damage electronic components.

Storage

Proper storage helps prolong the life of your drone.

- Store the drone and controller in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries from the controller if storing for extended periods to prevent leakage.
- Ensure the drone's battery is partially charged (around 50%) before long-term storage.

TROUBLESHOOTING

If you encounter issues with your Flight Force Micro Drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on.	Battery is depleted or not connected.	Charge the drone battery fully. Ensure the power button is pressed.
Controller does not power on.	Controller batteries are depleted or incorrectly installed.	Replace AAA batteries, ensuring correct polarity.
Drone and controller do not pair.	Incorrect pairing procedure or interference.	Ensure drone and controller are close. Repeat pairing steps (power on drone, then controller, throttle up-down). Avoid other 2.4GHz devices.
Drone drifts during flight.	Drone is not trimmed correctly or uneven surface at startup.	Land the drone, place it on a level surface, and re-trim using the controller's trim buttons.
Short flight time.	Battery not fully charged or aging battery.	Ensure battery is fully charged. Flight time is typically 5-6 minutes. Battery performance may degrade over time.

Problem	Possible Cause	Solution
Drone crashes easily or is unstable.	Damaged rotors or motors.	Inspect rotors for damage and replace if necessary. Ensure motors are free of debris.

SPECIFICATIONS

Model Name	Flight Force
Brand	Brookstone
Dimensions (Drone)	2.3 x 2.3 inches (5.84 x 5.84 cm)
Weight (Drone)	3.8 oz (107.7g)
Control Type	Remote Control
Connectivity Technology	2.4GHz Radio Frequency
Maximum Range	Up to 100 feet (30 meters)
Flight Time	Up to 5-6 minutes per charge
Power Type (Drone)	USB Rechargeable (Lithium Polymer battery)
Controller Batteries	2 x AAA (not included)
Special Features	6-axis gyroscope, 3- and 4-channel flight modes, 360° flips
Recommended Age	14 years and up

WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Brookstone customer service. Details can typically be found on the official Brookstone website or product packaging.

You may also visit the Brookstone store on Amazon for additional product information: Brookstone Store