Thank you for purchasing the Falcon 4K Drone with Camera!

Elevate your aerial adventures with the Falcon Small Drone with Camera. It's a cutting-edge quadcopter that combines convenience and performance, for an unmatched flying experience.

About This Item

Cinematic Aerial Mastery

The drone features a 120° angle lens, capturing stunning 360° pictures and videos in high definition, at 60 frames per second. This provides clear, striking images.

Extended Flight Sessions

The Falcon drone is specifically designed for aerodynamic efficiency, offering 3-speed options, with a top speed of 30 mph. The long-lasting battery life also ensures extended flight sessions, capturing aerial moments with ease.

Versatile Flying Modes

The drone is operated by a battery-powered remote control, offering user-friendly features like one-button takeoff and landing. Adults and children alike can enjoy diverse navigation with multiple flying modes, including the headless mode that enables multi-directional flight.

Compact Portability

The Falcon drone with camera comes with a travel case, making it easy to store and transport. The light, compact design comes with foldable drone propellers and fits neatly in the compact case.

Intuitive Flight

Experience simple and intuitive flying with the Falcon quadcopter with camera. It's user-friendly, easy to control, and a breeze to set up. The drone is perfect for all skill levels, from beginners to advanced pilots.

Give the gift of picture-perfect, flying fun at an incredible value.
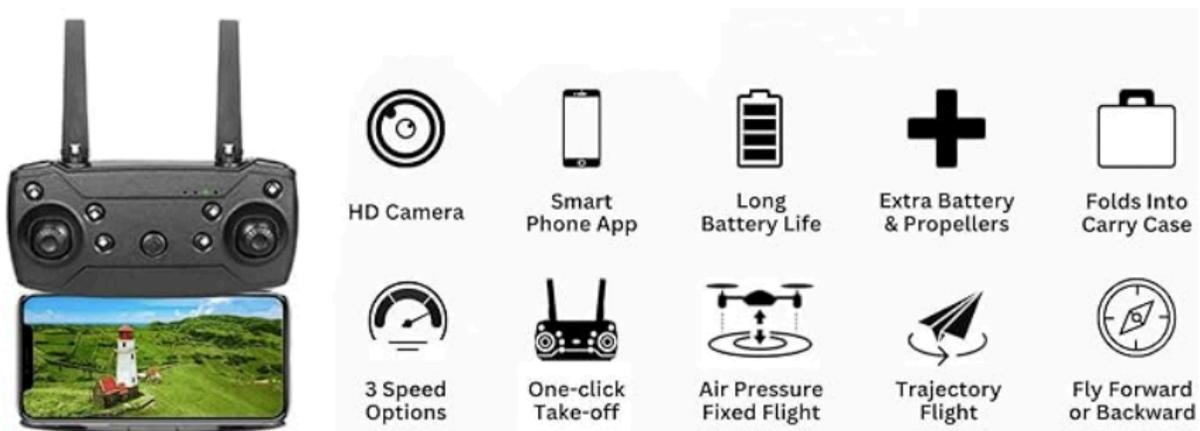
Special Features

360 Degree Flip, Speed Adjustment, Foldable, Auto-Landing, First Person View (FPV), Headless Mode, Hover Still, One Button Take Off, One Button Landing, Extended Flight Range, Rolling, Smartphone App, Battery Powered Remote Control, Extra Battery, Extra Propellers, Propellor Guards

Product Specifications and Description

Model Name	Falcon
Brand	FREEZE2TRIM
Color	Black
Skill Level	Beginner
Video Capture Resolution	720p
Battery	Lithium-Cobalt
Connectivity Technology	Wi-Fi
Item Weight	3.17 Ounces
Ages	10+
Dimensions	4.7"L x 2.9" W x 2.3"H
Camera	4k with 120° angle lens

Extended Flight Time

All our drones come equipped with an extra battery and spare propellers. This means you can enjoy extended flight sessions with the assurance of backup power blades.

100-meter Range

During flight, ensure the remote control stays within 100 meters of the drone at all times. Enjoy a responsive and reliable connection as you navigate through the skies.

Swift USB Charging

The drone comes with a battery that can be easily charged via a USB port. Get back in the air swiftly with a quick charging time of approximately 60-70 minutes.

Immersive First-Person View

Experience the thrill of First-Person View (FPV) with the Falcon 4k drone's real-time wifi transmission system. Connect your phone and witness the breathtaking scenery from a bird's eye view.

Aerobatic Tricks

Take your flying skills to the next level as the Falcon Drone showcases its aerobatic prowess. Perform impressive backflips and 360° flips, demonstrating the drone's agility and precision. Plus, enjoy stable flight, and the ability to hover in a fixed position, for picture-perfect captures.

The Perfect Gift

The Falcon drone makes an awesome gift for people of all ages. While it has the sophistication to impress a drone pro, it's easy enough for children 10+ to handle.

What's in the Box?

1. Foldable Drone
2. Carry Case
3. Handheld Controller
4. Battery
5. Extra Battery
6. Extra Propellers
7. Propeller Guards
8. Screw Driver
9. Instruction Manual
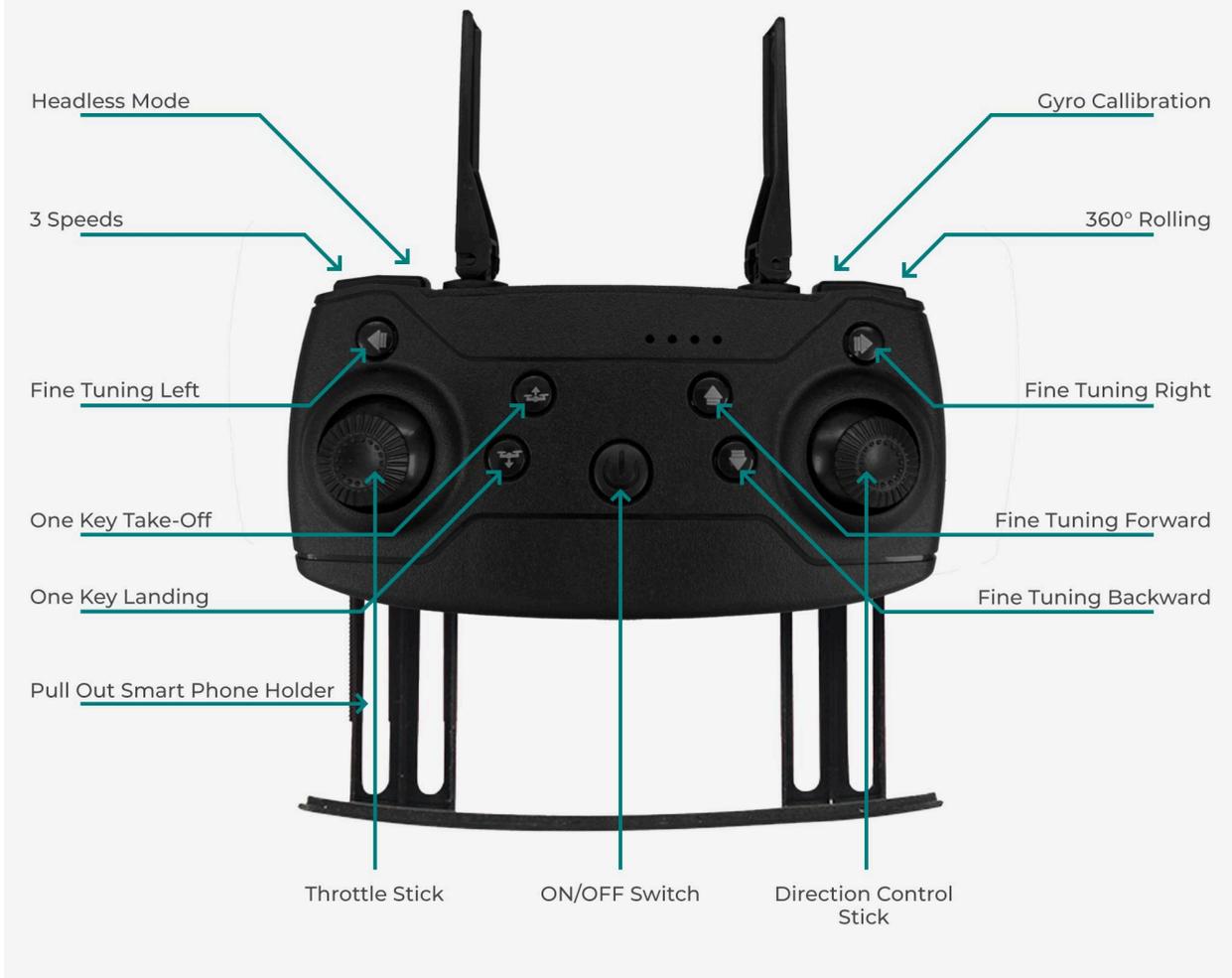10. USB Charging Cable

Convenient storage, easy to carry

Getting Started

In order to achieve the longest life for your drone, it's important to understand how to set up each component in the system. The more time you take to prepare the equipment and learn the movements, the longer the aircraft will last.
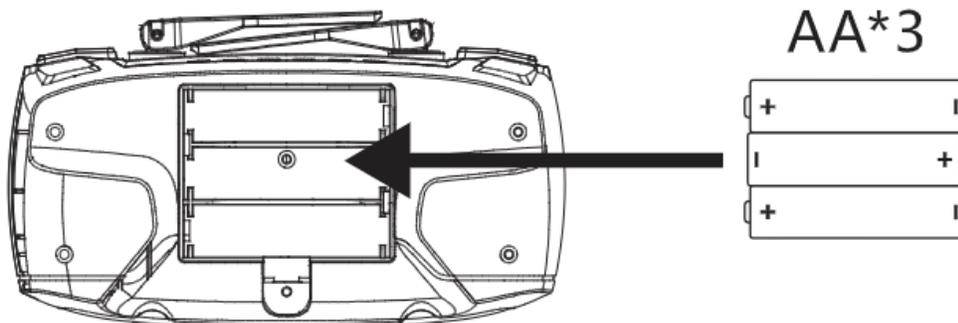
Remote Control

2.4GHz Remote Control

2.4GHz high frequency signal, remote control distance, supporting multiple aircraft, while playing non-interference

Headless Mode

Gyro Callibration

3 Speeds

360° Rolling

Fine Tuning Left

Fine Tuning Right

One Key Take-Off

Fine Tuning Forward

One Key Landing

Fine Tuning Backward

Pull Out Smart Phone Holder

Throttle Stick

ON/OFF Switch

Direction Control Stick

Remote Battery Installation

BATTERIES ARE NOT INCLUDED
Insert the AA batteries according to the electrode indicators in the back of the remote, in the battery tray (+/-).

AA*3

Mobile Phone Rack

Pull out the mobile phone handle and clamp your phone to the rack. This will keep it stable while in use.
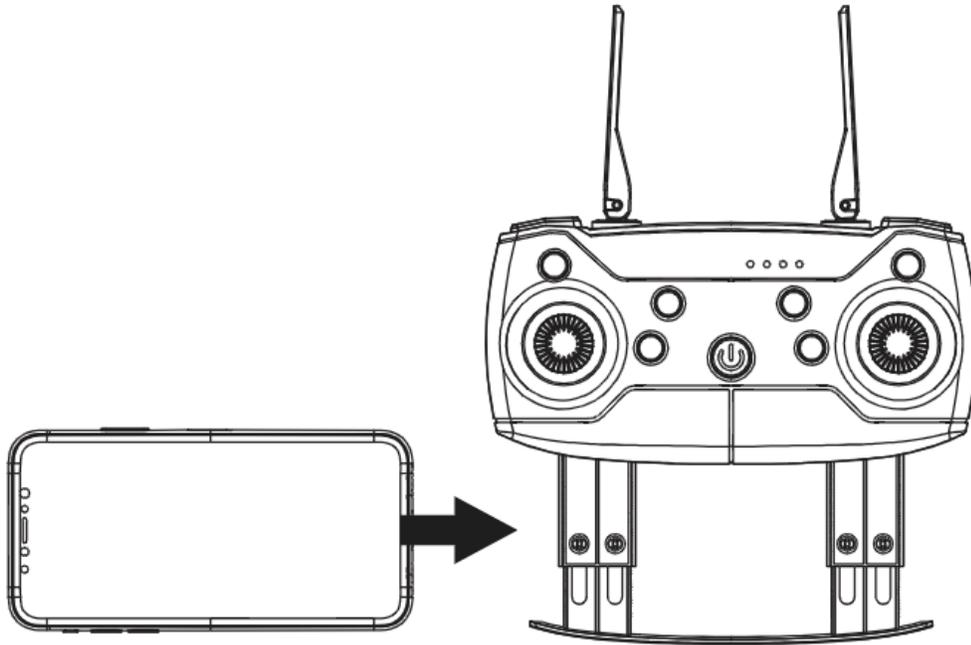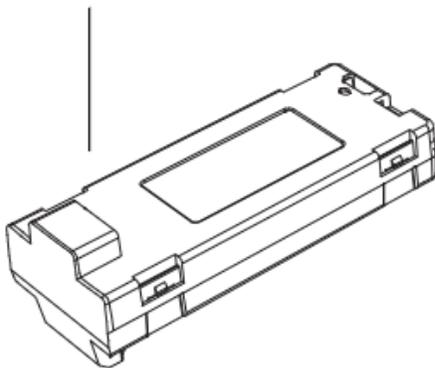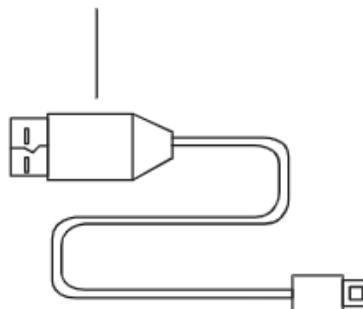

Preparing the Drone for Flight

Battery Installation

The drone has a separate battery from the remote control. It's a Lithium-Cobalt battery.

1. Remove the drone battery from the fuselage.
2. Connect the battery's charging port to a power source, via the USB cable.
3. The red light indicates that the unit is charging. If there is no light, this indicates the battery is full.

Once the battery is fully charged, put the battery back into the drone's battery compartment. To test it out, press and hold the power switch until the drone lights up.
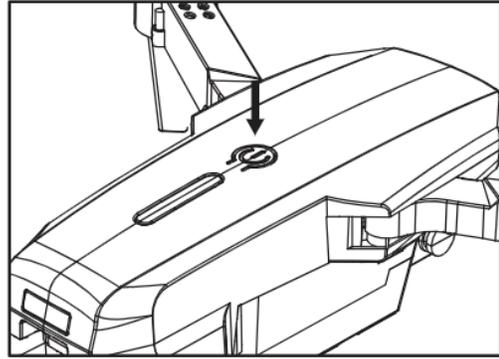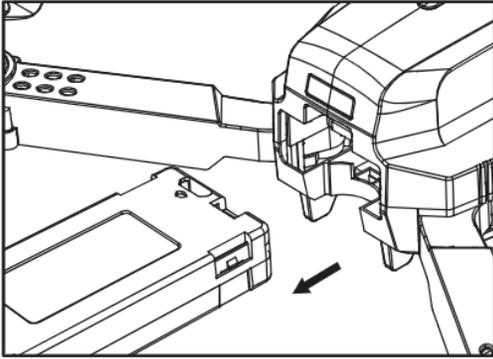

There will be a blue flashing light on the top of the drone, there will be a red flashing light in the back and the headlights will flash.

All of this tells you the battery is installed correctly, charged, and ready to power your flight.

Install Propeller Guards

The drone comes with propellers already installed. However, extra propeller guards are included in this kit. Align the bracket on each propeller and push it in until it pops.
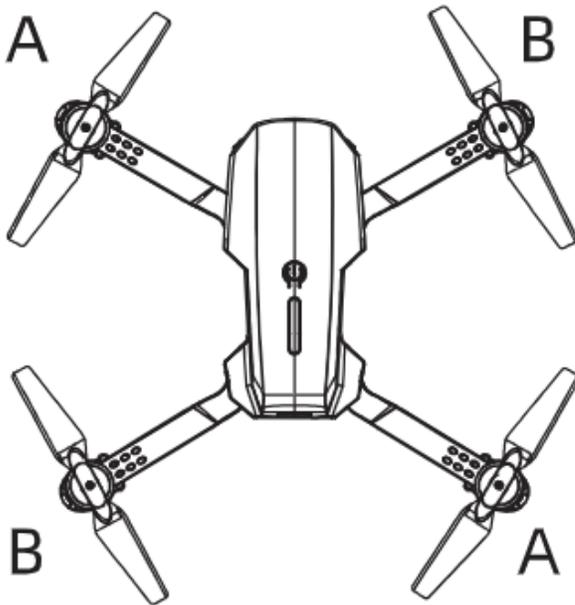
Turning the Drone On

#1) As a safety precaution, make sure the **drone is facing away** from you. That way, if it crashes during takeoff, it does so in the opposite direction.

#2) Press the power switch on the top of the drone to **turn the aircraft on**.

#3) **Turn the remote control** on by pressing the power button on the center of the controller for two seconds. This will also pair the remote to the drone.

#4) Move the left throttle lever forward to **turn the blades on**. (You can turn them off by pulling back on this same lever).

#5) You must now **calibrate the drone** so it doesn't just hit the wall when you power it up. Do this by pressing the "Gyro Calibration" button (top-right button, on left side). You will hear a beep. This indicates the drone is now calibrated and ready for takeoff.

*You can do this with either the blades on or off.

Things that will affect takeoff:

- Any weather variation, like wind, extreme heat, or frigid cold
- A low battery on the drone and/or remote control.
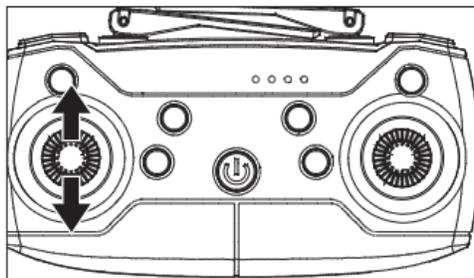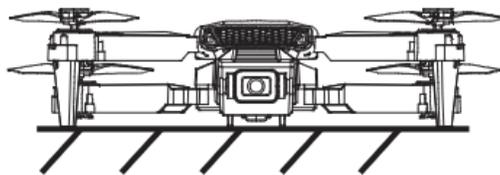
Pairing Devices

After you assemble the drone and all the parts are in place for the hardware, it's time to set up the software. The first thing you must do is pair the remote to the aircraft.

After powering on the remote and drone, go into the settings in your mobile phone, and connect the wi-fi to "Ky/HD/Du".

Downloading the App

The mobile app is available in the Apple IOS Appstore and Google Android Google Play Store and is called **RC FPV**.

Apple Device   **Android Device**

Steps to Setting Up the App

1. Install the mobile app using one of the QR codes above.
2. Add your phone to the WiFi hotspot "KY/HD/Du", no password.
3. Open the app. There you will see functions for Settings, Start, and FAQ.
4. The "Start" icon allows you to enter the real-time image interface, where you have a first-person view of the flight.

On the app, you can store pictures and videos that are recorded from the aircraft. The platform has its own storage, so the media does not take up space on your phone.

For more information on the RC FPV app and how it functions, visit the Apple or Google store.

Flight Control

One-Button Takeoff and Landing

There is a way to simplify landing and takeoff. It's called "One-Button Take-Off" and "One-Button Landing".

The two buttons directly left of the power button on the remote are how you control the ascension and descension of the drone. On the remote, the icon will look like a little drone moving up (top button with arrow pointing up) or down (bottom button with arrow pointing down).
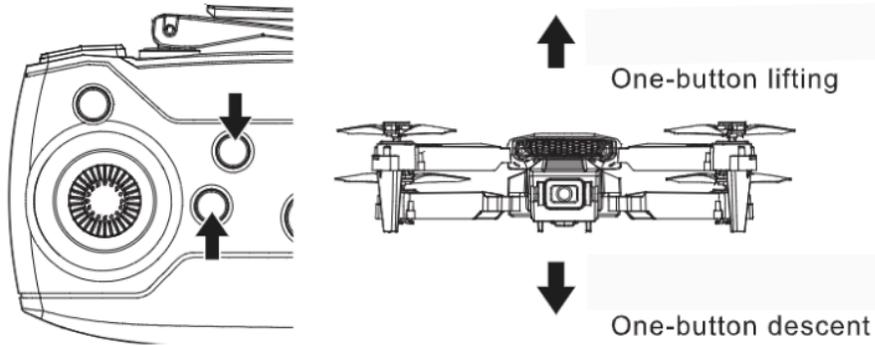
As you push the top button, the drone will rise up, ready for flight. If you press the bottom button, it will land. The engine will then shut down, in 5-10 seconds.

Headless Mode

The Headless mode is more for beginners. You can consider this like a driver's assistant. The aircraft will lose front, back, left, and right functions, solely flying in the direction of the drone's nose (camera side). Similar to auto-pilot, this mode leaves a lot of room for forgiveness and learning.
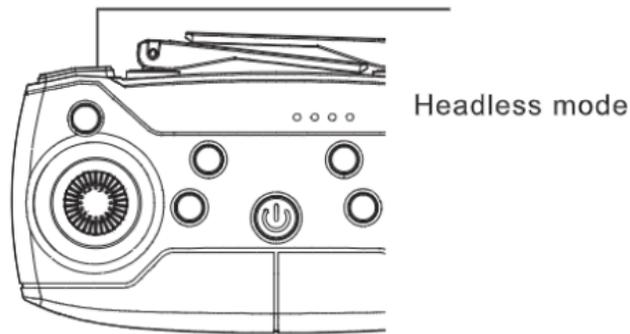
Determine Forward Direction

If you want to use Headless mode, place the nose of the drone directly in front of you. This is the side where the headlight and camera are located.

Then, turn the remote on to sync the drone prior to takeoff. Determining the forward direction prior to entering Headless mode ensures your safety.

Pressing Headless Mode Button

The Headless mode button is on the upper-left-hand side of the remote. Press the button when flying. The remote will beep, and the headlights will flash.

This indicates Headless mode has been turned on. Press the button once more to turn it off. The remote will beep again to indicate Headless mode is off.

Horizontal Calibration

Horizontal calibration can be initiated if the drone cannot rise during vertical takeoff. This ensures the aircraft doesn't veer hard left or right upon takeoff.
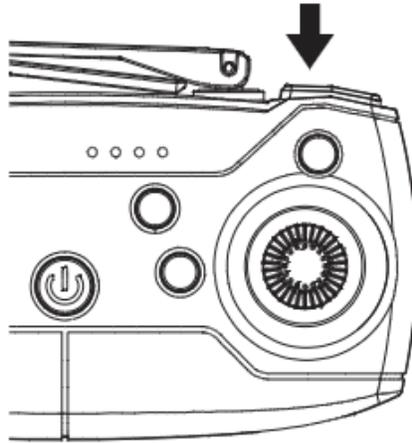

Before takeoff, press the Horizontal Calibration button. It's located on the upper, right-hand side of the remote, towards the antennae. The remote control will beep, and the headlights on the drone will blink to indicate activation.

Please make sure the drone base is balanced and on a flat surface. This affects the successful flight path of the aircraft and can ruin your calibration efforts.

Fine-Tuning Operations

If the drone has been drifting in a certain direction, or rotates left/right while in the air, it can be slightly adjusted to reach a more stable flight pattern.
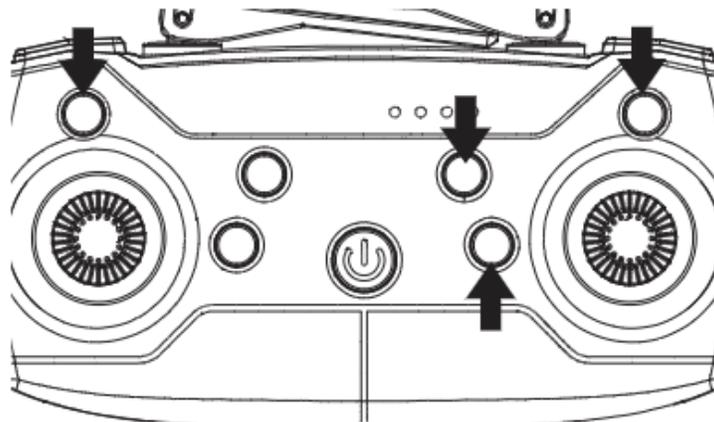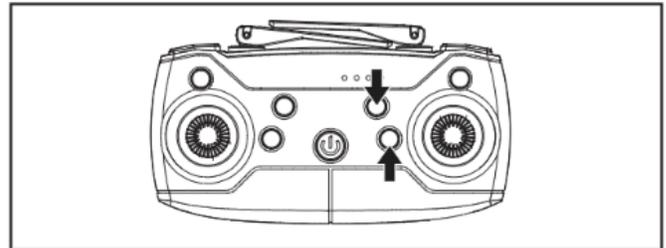
This can happen in two ways:

1. **Drift all the way forward or backward.** You can maneuver this by using the "Forward Fine-Tuning" and "Backward Fine-Tuning" buttons on the remote. These are located directly to the left of the power button.

Drift all the way forward or backward

Forward drift   Backward drift
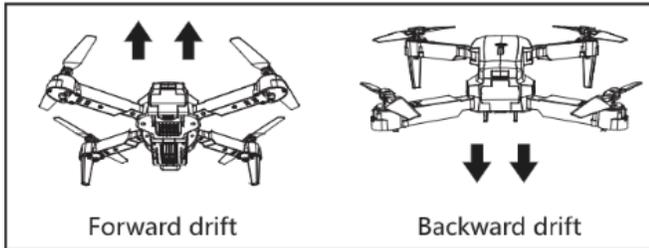
Adjust the direction

2. **Drift all the way left or right.** You can maneuver this by using the "Left-Side Fine-Tuning" and "Right-Side Fine-Tuning" buttons on the remote. These are located directly above the joysticks, on both sides of the remote.

Drift all the way to the left or right side

Left-side drift   Right-side drift
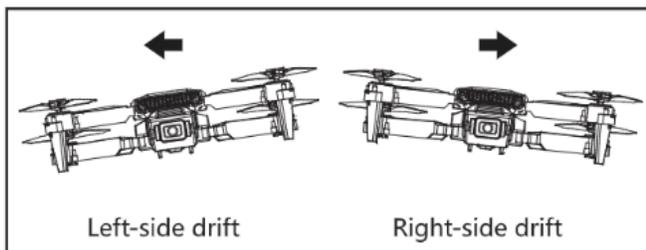
Adjust the direction
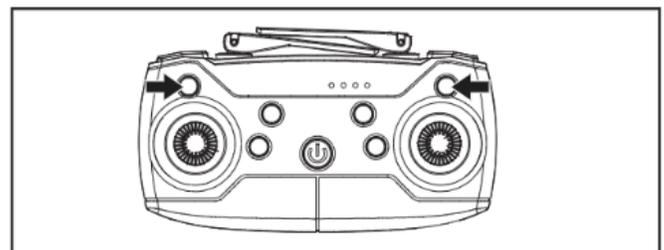
Changing Speed

The Speed button is divided into three speeds. The remote automatically defaults to Speed 1, which is the slowest speed and is meant for beginners. The Speed button is located on the upper left-hand side, on the top of the remote.

During the flight, pressing the speed button changes the speed to the next level. Press it twice to change to the highest speed, Speed 3. One more press turns the speed back to Level 1.

Every time you change the speed level, you will also hear the remote beep and see the lights flash on the drone.

Performing Acrobatics

The drone can also perform 360° rolling flips to impress your friends. Here's how:
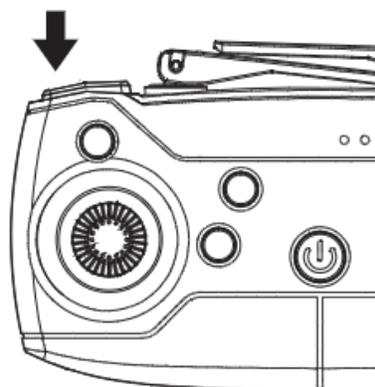
1. While in flight, press the "Rolling" button located on the upper right-hand side, on the top of the remote.
2. The remote will beep, and the aircraft will begin rolling.
3. The drone will complete a 360° rolling flip, and then return to the hovering position.

Pressing the top right button on the remote will initiate a right roll, and pressing the top left button will initiate a left roll.

*It should be noted that when the drone enters a low-battery state, **you will not** be able to carry out this function.

Shutting the Drone Down

To shut the drone down, press the power button in the center of the remote. You also want to power down the drone itself, by long-pressing the power button on top. Once it's powered down, fold it up and immediately store it in the travel pouch.

Folding the drone
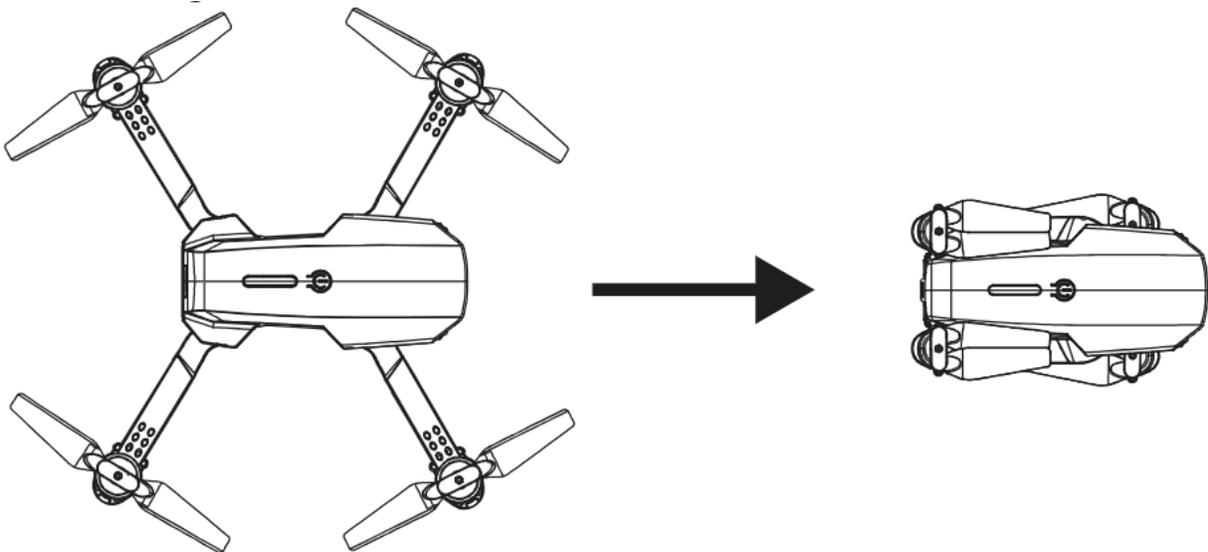
Solving Common Problems

Problem	Cause	How to Fix
The indicator light glasses continuously with no response.	This indicates the drone and remote are not paired.	Perform pairing again.
Nothing happens when the battery is connected.	#1) Check the connection and whether the battery is old. #2) Check whether the positive and negative battery plates are not in poor contact.	#1) Reinstall the battery or replace it with a new one. #2) Confirm the positive and negative polarities of the battery are correctly installed.
The motor doesn't rotate when you press the throttle.	The battery is too low for takeoff.	Charge the battery or replace it.
The propeller keeps turning, but the drone will not take off.	Either the propeller has been damaged, or the battery is too low.	Replace the propeller or change the battery.
The drone is vibrating.	Propeller issue.	Replace the propeller.
The drone keeps drifting in one direction.	The center point of calibration is wrong.	Follow directions to recalibrate the aircraft or restart.
The aircraft will not balance after falling.	The center point of calibration is wrong.	Follow directions to recalibrate the aircraft or restart.
The drone will not connect to the app.	The phone is not connected to the drone's WiFi.	Reboot WiFi.

Safety

Important Safety Information

- A drone is not a toy, but a precision instrument that utilizes the latest in electronics, machining, aerodynamics, and high-frequency transmission technology.
- The aircraft must be correctly assembled and maintained, to avoid accidents.
- The device must be used safely and responsibly at all times, with younger children requiring adult supervision, and no one under 10 years old operating the drone alone.
- Only operate the drone in a legal airspace.
- Black Falcon is not liable for any damage caused by the improper use, assembly, or operation.
- For additional questions regarding the maintenance and operation of the Falcon 4k drone with camera, contact your local distributor.

Safety Precautions

This aircraft has spinning rotor blades that can be hazardous when handled improperly. Poor assembly, broken parts, and improper operation will result in damage to the device or your personal property.

Pilots must observe their surroundings at all times and only use the device within its intended parameters.

Here are a few tips to remain safe while using the drone:

1. **Avoid crowds and obstacles.** The drone can be hazardous at high speeds or in strong winds. Keep it away from crowded areas, power lines, and tall structures. Avoid operating the device in bad weather to ensure safe and enjoyable use.
2. **Do not operate in strong humidity.** This device is fitted with sophisticated electronics that may be susceptible to moisture. It's critical to prevent any moisture from getting into the equipment, which can prevent mechanical or electrical failure.
3. **Pilots must be responsible.** Regardless of age, pilots should always fly with caution, developing skills gradually. Always be aware of your surroundings. Remember that fatigue, lack of focus, and inebriation can all greatly increase the risk of damage or injury.
4. **Avoid rotor blades.** Refrain from all contact with the high-speed rotor blades when the device is on. This will help to avoid personal injury and property damage.

Battery Warnings

Lithium batteries are energy-dense, which allows them to charge quickly and provide longer flights. However, that's also what makes these batteries require special care. Improper use can result in fire hazards, so the battery should only be used for its intended purpose.

- Do not change the battery while it's inside of the device.
- Store the device with at least 50% capacity to prolong battery life. This also reduces the time it takes to fully charge the drone.
- Never drain the battery completely. This will prolong its lifespan. Recharge the battery when it hits 20% or more (never less).
- Only use the provided charger to charge the battery.
- Do not charge the battery on carpet or fabric, as it's a fire hazard.

It should also be noted that Lithium batteries need to be recharged in three months or less to maintain the voltage.

FAQs

How long does it take to charge the drone?

It takes between 60-70 minutes to reach a full charge.

Can you fix the balance?

You can offset the balance by pressing the Fine-Tuning buttons to stabilize the drone.

Does it have Altitude Hold?

You can lock the height and location precisely. This ensures stable hovering and enables convenient shooting from any angle.

Does it have FPV (First Person View) capability?

The Wi-Fi real-time transmission FPV system allows you to connect your phone to the drone, providing a direct view on your mobile device. This enables you to enjoy the world beyond the horizon, capture photos, and record videos to create lasting memories.

My drone is not staying on course or is out of control. What should I do?

Check to ensure that there are no strong winds that may be impacting the course of the drone. Try bringing the drone at least 30 cm from the ground to reduce instability.

Follow the instructions for the Fine-Tuning function to further stabilize the drone's flight. Ensure that you are keeping the remote control within 100 meters of the drone at all times during flight.

My drone won't ascend, what do I do?

If your drone is failing to ascend, please check the battery levels of your controller and drone to ensure that they are fully charged. Make sure that the rotation of the blades is fast enough to cause the drone to ascend.

My drone is landing too fast. What now?

If your drone is landing too fast, try slowly pulling down on the throttle stick so that your drone loses altitude at a slower pace.

My WiFi connection to the drone keeps dropping. Why?

If your phone is disconnecting from the drone's WiFi signal, you may need to adjust one of two settings on your phone.

1) When connecting to the drone's WiFi, your phone may ask if you want to stay connected to this WiFi signal even though it does not have an internet connection. Check the box next to this setting.

2) Some phones allow for prioritizing specific WiFi Network connections. Making your drone's WiFi Network the highest priority may help with your connection stability without impacting your normal usage.

My controller is failing to connect. What should I do?

Check to ensure that both the controller and the drone are turned on and have a sufficient battery life. If they are still failing to connect, please reset both units and follow the directions to connect the transmitter and receiver again.

How do I initiate a cool backflip?

Press the 360 button on the top right of the controller and you will hear a beep. Push the right joystick forward for a front flip, back for a backflip, right for a right flip, and left for a left flip.