

CARE AND MAINTENANCE

- Always remove the batteries from the wireless remote control when it is not being used for an extended period of time.
- To clean, gently wipe the remote control and Falcon™ with a clean damp cloth.
- Keep the toy away from direct heat or sunlight.
- Do not submerge the toy into water. This can damage the unit beyond repair.
- Parental guidance recommended when installing or replacing the batteries.

FCC Part 15 B Notice

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

INDUSTRY CANADA NOTICE: CANADA ONLY.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Conforms to safety requirements of ASTM, CPSIA and FCC.

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Tel: + (1) 949-566-9573 • www.propelrc.com

Made in China

FALCON™

Full Sized High Performance Camera Drone



INSTRUCTION BOOKLET

WARNING: Never leave product charging unattended for extended periods of time. Always disconnect the Falcon™ from charger immediately after the Falcon™ is fully charged. Please refer to enclosed safety instructions.

PACKAGE CONTAINS:



Colors and styles may slightly vary.

TABLE OF CONTENTS

Product Features	2
Remote Control Battery Installation	2
Charging Your Falcon™ Battery	2
Falcon™ Quadcopter Diagram	3
Remote Control Diagram	3
Attaching The Landing Gear	3
Flight Preparation	4
Syncing Your Falcon™	4
Flying Tips	4
Recognizing The Front & Back Of The Falcon™	5
4 Channel Flight Control	5
Adjusting Trim	6
Level Surface Calibration	6
Flight Environment	6
Flight Practice	7
Performing A 360° Stunt Flip	7
Trouble Shooting	8
Attaching The Camera	8
Operating The Camera	9
Replacing The Propeller Blades	9
Activating Orientation Mode	10
Warnings	10
Battery Warnings	10
Care and Maintenance	11
FCC Information	11

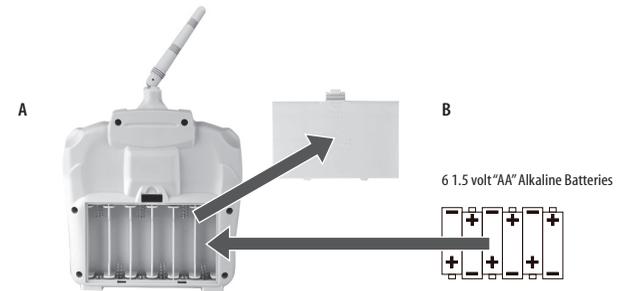
Thank you for purchasing the Falcon™ 2.4 Ghz Quadcopter. Please read this instruction booklet as it contains valuable information on how to properly fly and care for your Falcon™ Drone.

FEATURES

- 4 axis high-speed aircraft for incredible maneuvers including 360° aerial stunts!
- Built-in 6 axis gyro chip for extremely stable flight and maneuverability even in windy conditions.
- Includes wide-angle 5 mega pixel 30 FPS camera on precision stabilizer.
- 2.4 Ghz, remote allows flight range up to 500 feet and multiple player use.

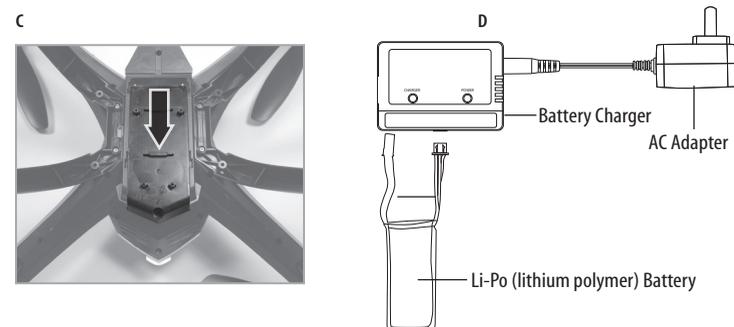
REMOTE CONTROL BATTERY INSTALLATION

1. Remove the battery cover from the back of the controller as shown in diagram A.
2. Install 6“AA” fresh alkaline batteries into the controller as shown in diagram B. Make sure to install batteries to their correct polarity. Do not mix old and new batteries or battery types.
3. Replace the battery cover.



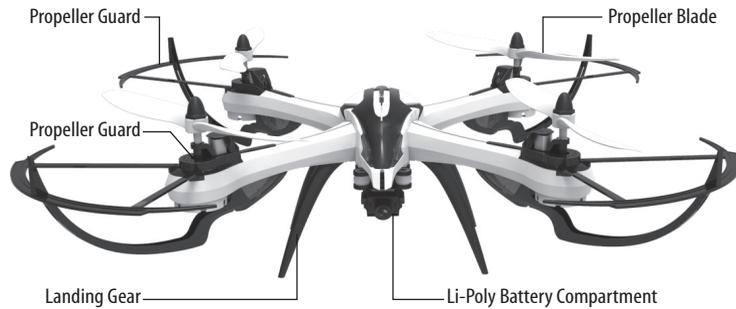
CHARGING YOUR FALCON™ BATTERY

1. Turn the Falcon™ over and carefully remove the battery cover screw with Phillip head screw driver (provided) slide battery cover towards the rear of the Falcon™, and remove battery (see diagram C).
2. Connect the battery's charging connector to the battery charger and plug into a standard wall socket. CAUTION: improper connection may damage the Falcon™.
3. The LED battery charger light will shine green when connected properly to the AC adapter. The indicator LED will glow red while the unit is charging. Remove promptly after the red LED turns off, indicating the charge is complete (see diagram D).
4. A full charge will allow for about 7 minutes of flight time depending on environment and user input.

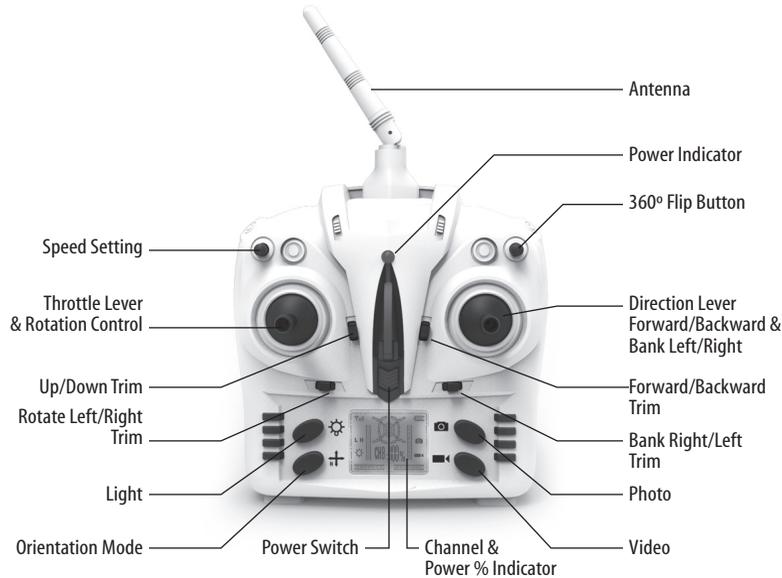


IMPORTANT: ALWAYS REMEMBER TO UNPLUG YOUR CHARGING CORD WHEN NOT IN USE!

FALCON™ QUADROCOPTER DIAGRAM

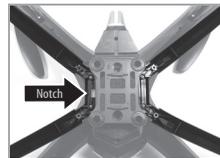


FALCON™ REMOTE DIAGRAM



ATTACHING THE LANDING GEAR

- Attach the right and left landing gear legs on the underside of the Falcon™ with the 4 screws provided (see diagram E).
- Please note the right side landing gear has a notch to accommodate the camera connection.



WARNING

DO NOT FLY YOUR FALCON™ IN FOUL WEATHER!



FLIGHT PREPARATION

- Verify that there are 6 "AA" batteries inside the remote control unit and the Falcon™ has been fully charged.
- Make sure your Falcon™ and controller are both turned on.
- Make sure to be in a large space with an open radius of at least 50 feet.
- Make sure the empty space has no obstacles. Set your Falcon™ on a clean flat surface before take-off.

DO NOT ATTEMPT TO FLY YOUR FALCON™ IF THERE IS RAIN, SNOW, HEAVY WINDS, THUNDER OR LIGHTNING OUTDOORS. IT COULD DAMAGE YOUR PRODUCT AND POSSIBLY EVEN CAUSE BODILY HARM.

SYNCING YOUR FALCON™

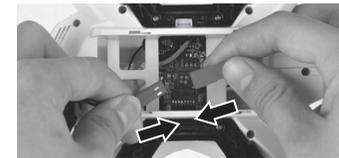
Important! When syncing your Falcon™ quadcopter with the controller always make sure that the quadcopter is on a flat level surface and that your digital trim settings are in the center position. This insures that the 6 Axis gyro is properly programmed to mimic your trim settings.

Your Falcon™ utilizes an automatic 2.4G channel selection system that allows up to 8 people to fly side by side in the same wireless range with no interference.

Syncing your aircraft:

1. Before starting, make sure that the power on your controller is in the OFF position and the Falcon™ wire leads are not connected. Make sure that there are no other 2.4G devices in the area as well.
2. Connect the battery wire lead to the Falcon™ lead and replace Battery cover (see diagram C) and turn the Falcon over and set it down on a flat surface (see diagram F). The LED indicator lights of the Falcon™ will begin to flash.
3. Turn ON the remote, the flashing LED lights should change to solid, and you should hear 2 beeps push the throttle on the left all the way forward and then slowly pull the throttle all the way back until you hear a beep. Your controller and the Falcon™ should now be successfully synced, if not, repeat above steps.

F

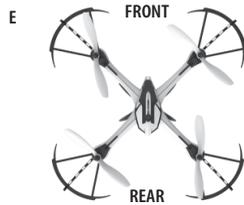


FLYING TIPS

- It is recommended that you operate the Falcon™ in a wide space. The ideal space should have a 200 foot radius.
- Parental guidance or adult supervision is suggested at all times.
- If you are flying the Falcon™ with others, make sure all spectators are behind you.
- For best performance, it is recommended that you operate the Falcon™ in zero wind conditions. Heavy wind can greatly affect the performance of the aircraft or cause injury.

RECOGNIZING THE FRONT & BACK OF THE FALCON™

Even though the Falcon™ has four rotors there is still a front or "forward" facing direction and "back" or backwards facing direction. The front of the Quadcopter displays BLUE LED lights and the back of the Quadcopter displays RED LED lights when activated (see diagram E).



4 CHANNEL FLIGHT CONTROL

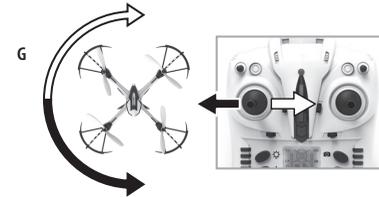
Below is a list of basic flight functions for your long-range remote control Falcon™. While learning to fly your Falcon™ it is best to start with a large space until you get used to the basic controls. As you master flying your Falcon™ you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

Move the left Throttle stick up to increase the propeller speed and the Falcon™ will accelerate and ascend.



Move the left Throttle stick down to decrease the propeller speed and the Falcon™ will decelerate and descend (see diagram F).

While in the air, move the left Throttle stick left and the Falcon™ will rotate left.



Move the left Throttle stick right and the Falcon™ will rotate right (see diagram G).

While in the air, move the right Direction Stick up and the Falcon™ will move forward.



Move the right Direction Control down and the Falcon™ will move backward (see diagram H).

While in the air, move the right Direction Control left and the Falcon™ will bank to the left.



Move the right Direction Control right and the Falcon™ will bank to the right (see diagram I).

ADJUSTING TRIM

From time to time you may have to adjust the TRIM buttons to ensure the Falcon™ will hover in mid-air and respond accurately to your commands.

Forward/Backward Trim

- If your Falcon™ drifts forward, push and release the BACKWARD TRIM button back repeatedly until the motion stops and proper flight is maintained (see diagram J).
- If your Falcon™ drifts backwards, push and release the FORWARD TRIM button forward in the same manner until the problem is resolved.



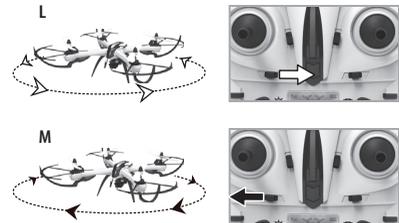
Bank Right/Left Trim

- If your Falcon™ drifts left, push and release the RIGHT TRIM button back repeatedly until the motion stops and proper flight is maintained (see diagram K).
- If your Falcon™ drifts right, push and release the LEFT TRIM button in the same manner until the problem is resolved.



Spin Right/Left Trim

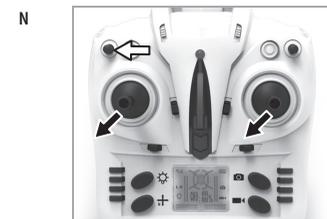
- If your Falcon™ spins left, push and release the RIGHT SPIN TRIM button back repeatedly until the motion stops and proper flight is maintained (see diagram L).
- If your Falcon™ spins right, push and release the LEFT SPIN TRIM button in the same manner until the problem is resolved (see diagram M).



LEVEL SURFACE CALIBRATION

If the aircraft becomes unstable during the course of flying, you may need to re stabilize the internal gyros.

To do this place the Falcon™ on a level surface, set the speed setting to 100% first, then pull both of the control levers on the remote down and to the left (approximately 45°) at the same time. The LEDs on the Falcon™ will flash quickly and then remain solid, this indicates your aircraft has been stabilized (see diagram N).



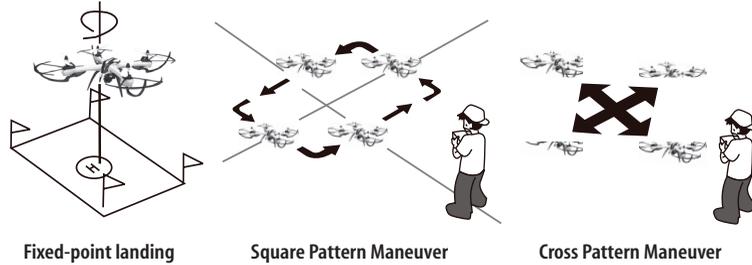
FLYING ENVIRONMENT

When flying the Falcon™ do so in warm sunny weather with no wind or rain.

WARNING: Do not fly in extreme temperatures or windy conditions as this may affect the performance of your Falcon™ and cause damage or injury.

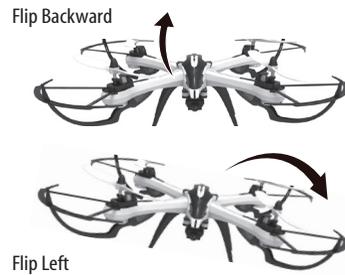
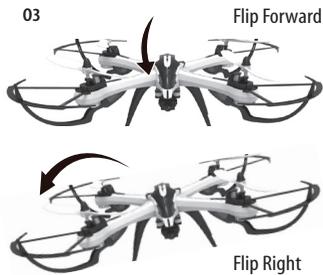
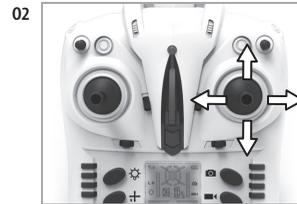
FLIGHT PRACTICE

To master flying your aircraft try practicing the exercises shown below. Start with simple vertical takeoffs, landings, and left/right turning and rotating. Once those are mastered move on to square and cross maneuvers. Good luck and have fun!



PERFORMING 360° STUNT FLIPS

After you have mastered flying the Falcon™ you are ready to try flips. Once the Falcon™ is hovering at least 3 meters (about 10 feet) off the ground click the 360° Flip Button (see diagram O1) and push the right lever forward slightly and let go. The Falcon™ will instantly perform a forward flip. To perform a backwards or side flip click the 360° Flip Button and push the right lever in the direction you wish to flip just as you did for the forward flip (see diagram O2 & O3).



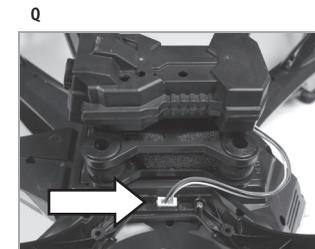
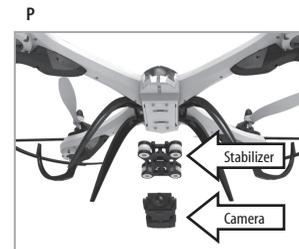
TROUBLESHOOTING YOUR FALCON™

PROBLEM	POSSIBLE REASON	SOLUTION
No Power	<ol style="list-style-type: none"> 1. Power switched off 2. Polarity is reversed 3. Batteries may be dead 	<ol style="list-style-type: none"> 1. Switch the ON/OFF switch to ON 2. Make sure all batteries are installed correctly (see diagram B) 3. Replace batteries
Remote Not Responding	<ol style="list-style-type: none"> 1. Remote is switched off 2. Falcon™ battery is not connected 3. Too windy 4. The remote is not synced 	<ol style="list-style-type: none"> 1. Switch the ON/OFF switch to ON 2. Switch the ON/OFF switch to ON 3. Windy conditions severely impair the operation of the Falcon™ 4. Re-sync the remote
Aircraft Won't lift off	<ol style="list-style-type: none"> 1. Rotor speed too slow 2. Aircraft not fully charged 	<ol style="list-style-type: none"> 1. Push throttle lever forward 2. Recharge your Falcon™
Aircraft Descends Too Fast	<ol style="list-style-type: none"> 1. Moving the throttle too quickly 	<ol style="list-style-type: none"> 1. Control the throttle slower and smoother
Aircraft Not Responding	<ol style="list-style-type: none"> 1. Gyroscopes not functioning 	<ol style="list-style-type: none"> 1. Turn of the Falcon™ and Reset the Gyros (see diagram L)
Loss of Falcon™ Control	<ol style="list-style-type: none"> 1. Aircraft is out of range of remote 	<ol style="list-style-type: none"> 1. Keep the aircraft within a 500 Feet radius of the remote

ATTACHING THE CAMERA

You have the option of attaching the included wide-angle 5 mega pixel 30 FPS camera with precision stabilizer to your Falcon™ quadcopter.

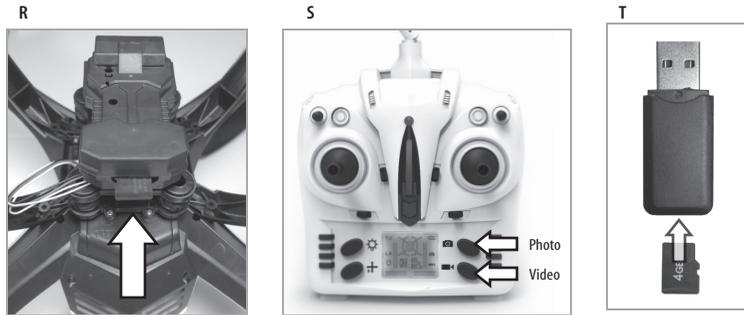
1. Install the stabilizer to the battery cover panel on the under side of the Falcon™ with the 4 screws provided (see diagram P).
2. Snap the camera to the stabilizer and connect the camera lead to the Falcon™ base (see diagram Q).



OPERATING THE CAMERA

You can take in-flight photos or video with your Falcon™ on board camera.

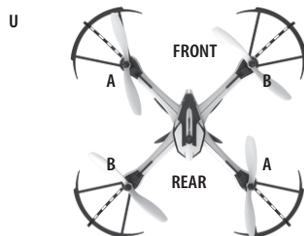
1. Once the camera is attached and connected insert the Micro SD card into the camera body (see diagram R).
2. To take still photos press the photo button on the remote (see diagram S).
3. To take video footage press the video button on the remote to record and again to stop (see diagram S).
4. To retrieve your photos and footage remove the card once the Falcon™ has landed safely and insert the card into the USB card reader provided and connect to your computer's USB port and download the photos and video footage (see diagram T).



REPLACING THE PROPELLER BLADES

Your Falcon™ propeller system is a precision instrument that may need repair or replacement from time to time for optimal flight function. Crash landing from high-speed aerial flights may cause damage to your Falcon™ propellers.

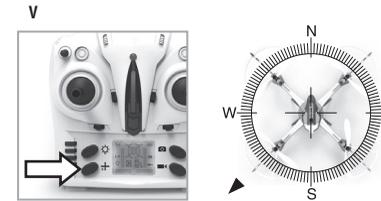
1. Falcon™ have four blades, two on the front, and two on the back. Always disconnect the battery before replacing the propeller blades. Please note that the blades and the Falcon™ are labeled with an embossed A or B (see diagram P).
2. When replacing the propeller blades, remove the small screw and gently lift the blade from the rotor shaft.
3. Replace the damaged blade with the correct blade. Make sure to match the indication letter on the blade with the letter on the aircraft as shown in diagram U.



ACTIVATING ORIENTATION MODE

You can maintain orientation of your Falcon™ during flight.

1. Once the Falcon™ is activated press the orientation mode button (see diagram V) to activate the internal compass.
2. The flying orientation is now locked to match the direction control lever.



FALCON™ WARNING:

The Falcon™ is designed for OUTDOOR use. Falcon™ blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the Falcon™ to reduce the risk of getting into the flight path. Warn spectators that you will be flying your Falcon™ so that they are aware of its position. Before flight, inspect the rotor blades to make certain that the blades are securely fastened to the Falcon™.

WARNING!

- Choking/Cutting Hazard. Small Parts/Sharp Rotor Blades.
- Keep hands, hair and loose clothing away from the propeller when the power switch is turned to the ON position.
- Turn off the transmitter and Falcon™ power switches when not in use.
- The included charger is built specifically for the Falcon™ Li-Poly battery. Do not use it to charge any other battery.
- New alkaline batteries are recommended for maximum performance.
- Parental supervision recommended when flying Falcon™.

BATTERY WARNINGS

RECHARGEABLE BATTERY:

This Falcon™ uses a Li-Poly rechargeable battery. If battery no longer stays charged, dispose of battery properly according to local disposal requirements.

CONTROLLER BATTERIES:

Remote control requires 6 "AA" batteries (not included). Please read the important battery safety warning below.

- Do not mix alkaline, standard (carbon-zinc) and rechargeable batteries (Nickel Metal Hydride).
- Do not mix old and new batteries.
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are to be removed from the item before being charged (if removable).
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries should be removed immediately and must be recycled or disposed of properly according to state or local government ordinances and regulations.
- The supply terminals are not to be short-circuited.
- Only batteries of the same or equivalent type as recommended are to be used.
- Batteries are to be inserted with the correct polarity (see inside booklet for diagram).
- Do not dispose batteries in a fire - batteries may leak or explode.