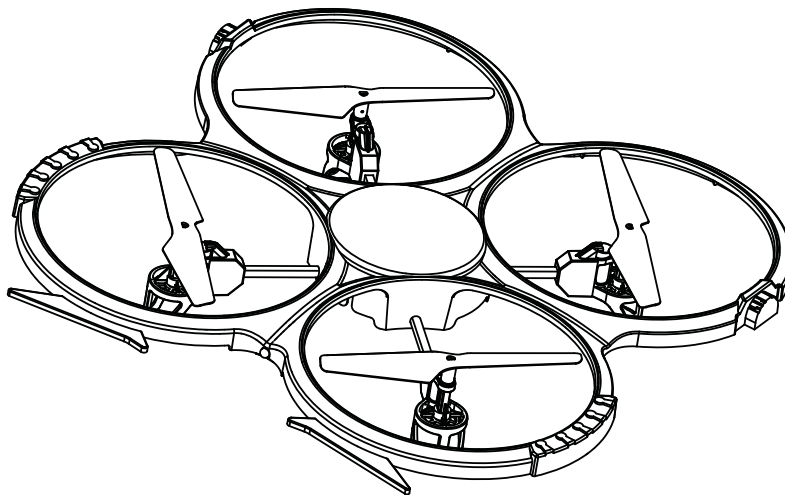


14+



STORM[®]

LiteHawk STORM Instruction Manual



100% Factory Assembled, Tested and Ready To Fly!

From Your First Flight To Your Best Flight!

Litehawk Videos! Tech Support! Replacement Parts! Just a Mouse Click Away!

PLEASE DO NOT RETURN THIS PRODUCT TO ANY RETAIL STORE.

For any questions or problems with this product please call us at 1-800-268-5797 or visit

our website www.litehawk.ca

Made for and distributed by Borgfeldt (Canada) Limited 50 Konrad Cres., Markham, ON L3R 8T4

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LITEHAWK STORM PRECAUTIONS - The LiteHawk STORM is not intended for children under the age of 14 unless closely supervised by an adult. Improper use may cause serious injury. Please read LiPo Battery section before use. Do not fly in areas close to high voltage lines or crowds. Do not fly when windy. Do not fly in rain, snow or if there is lightning and/or thunder. Do not touch ANY moving parts while the model is powered.

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.



WARNING: CHOKING HAZARD - Small parts. Not For Children under 3 years



CAUTION: Do not touch the running propeller! Do not play above someone's head! Adult supervision is required!



CAUTION: Never insert any sharp objects, pins or screws into the model as this may puncture the internal battery!

SAFETY PRECAUTIONS

- Keeps hands, hair and loose clothing away from the rotor blades when power switch is turned ON.
- Turn off controller/charger and STORM when not in use.
- Remove battery from controller/charger when not in use.
- Parental guidance is recommended for the flight.
- Keep your STORM in your sight so that you can supervise it at all times.
- New alkaline batteries are recommended for use in controller to obtain maximum performance.
- Your charger is tailor made for the Li-Poly battery used in your LiteHawk STORM. Do not use it to charge any battery other than that in the LiteHawk STORM.

BATTERY SAFETY INFORMATION

- Requires 6 x 1.5V AA batteries (included).
- Batteries are small objects.
- Replacement of batteries must be done by adults.
- Follow the polarity (+/-) diagram.
- Promptly remove dead batteries from the toy.
- Dispose of used batteries properly.
- Remove batteries for prolonged storage.
- DO NOT incinerate used batteries
- DO NOT dispose of batteries in fire, as batteries may explode or leak.
- DO NOT mix old and new batteries or different types of batteries (i.e. alkaline/standard)
- Always replace the whole set of batteries at one time.
- DO NOT short-circuit the supply terminals

CARE AND MAINTENANCE

- Always remove batteries from the toy when it is not being used for a long period of time (controller/charger only).
- Keep the toy away from direct heat or extreme cold.
- Do not expose the toy to water. This can damage the electronic assemblies.

Your LiteHawk STORM is equipped with a Lithium Polymer battery.

- Special Lipo Battery Instructions:
- Never charge battery unattended.
- Charge battery in isolated area. Keep away from flammable materials.
- Do not expose to direct sunlight. There is a risk of the batteries exploding, overheating or igniting.
- Do not disassemble, modify, heat or short circuit the batteries. Do not place them in fires or leave them in hot places.
- Do not allow the batteries to get wet.
- Only charge the batteries with the specified battery charger.
- Only use the batteries in the device specified by LiteHawk.
- In the unlikely event of leakage or explosion use sand or a chemical fire extinguisher for the battery.
- Batteries must be recycled or disposed of properly.

Before charging the LiteHawk STORM please read the following!

- DO NOT leave the battery unattended during charging.
- DO NOT leave the battery plugged into the charger any longer than 2 hours. If the Red light does not go out in this time, the charger or battery could be faulty - unplug immediately!
- DO NOT drain the battery to the point at which you can no longer lift off. Stop using the STORM when you begin to lose significant power.
- DO NOT install another battery without letting the motors cool first! 5-10 minutes is sufficient.
- DO NOT recharge the battery until it is cool to the touch! 10 minutes is sufficient.
- DO NOT store battery for longer than 24 hours without recharging to at least 65% capacity.

DO NOT FULLY DISCHARGE THE BATTERY! STOP AND RECHARGE WHEN YOUR STORM BEGINS TO LOSE POWER! FAILING TO DO SO WILL RESULT IN IRREPARABLE DAMAGE TO THE BATTERY!

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Welcome to the World of LiteHawk!

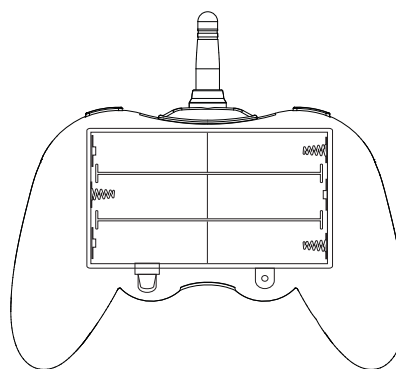
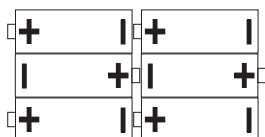
Welcome aboard, this is your new LiteHawk STORM! Before we get ready for your first aerial adventure, let's cover the basics together!

Attempting to fly your LiteHawk STORM without completely reading the manual may cause injury to yourself and people in the vicinity, as well as damage to the RC model. Please read the Instruction Manual thoroughly before taking your first flight.

LiteHawk STORM - Transmitter Set Up

Battery Installation:

1. Open the Battery Cover.
2. If used batteries are present, remove these batteries from the unit by pulling up on one end of each battery.
3. Install new batteries as shown in the battery compartment (+/-).
4. Replace battery door securely.
5. Check your local laws and regulations for correct recycling and/or battery disposal.



LiteHawk STORM - Charging Flight Pack

Before charging the battery, please ensure that you have read ALL of the information on page 2 of this manual. Failure to do so will increase the risk of a potential problem.

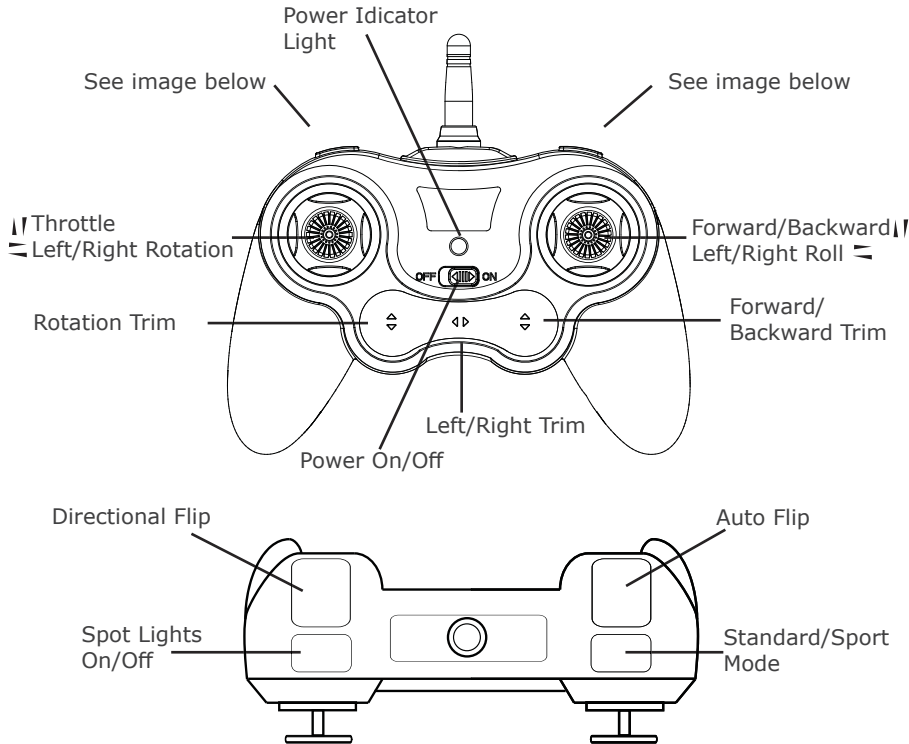
1. Plug the supplied wall charger in to any 120V outlet. *Green light indicates there is power going to the charger*
2. Remove the Battery from the underside of the toy. *Keep the battery away from any flammable objects*
3. Plug the red connector from the battery into the charger. *The LED will change from GREEN to RED indicating that the battery is charging*
4. Once the LED changes from RED to GREEN, un-plug the battery from the charger. *Charge time is approximately 1 hour* Do NOT let battery charge for more than 2 hours.
5. Re-install the battery into the toy.



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LiteHawk STORM - Controller Functions

2.4GHz radio technology makes it possible to fly multiple LiteHawk STORM models simultaneously.



LiteHawk STORM - Standard Mode

This mode is meant for beginners and experienced pilots alike. This mode will only allow you to fly at 50% of the models capability when attempting maneuvers such as pitch, yaw and roll. If you do not understand what these terms mean, do not worry as it is covered in detail under the "Controls" section.

LiteHawk STORM - Sport Mode

This mode is not meant for beginners! We highly recommend that this be used only by experienced pilots. Sport Mode enables the pilot to use 100% of the models capabilities such as pitch, yaw and roll. If you do not understand what these terms mean, do not worry as it is covered in detail under the "Controls" section.

LiteHawk STORM - Auto Flip

As the name suggests, pressing this button will allow the model to do a full 360 degree flip without any other input. It can be used at any time during flight, but it is highly recommended that you be at least 6 feet above the ground before attempting this maneuver.

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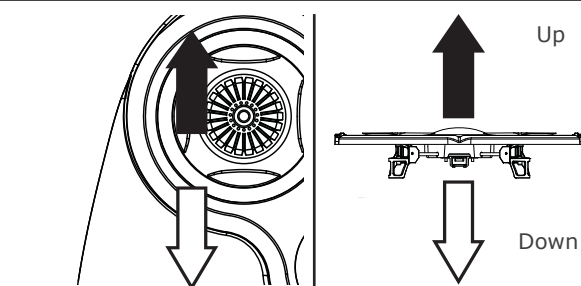
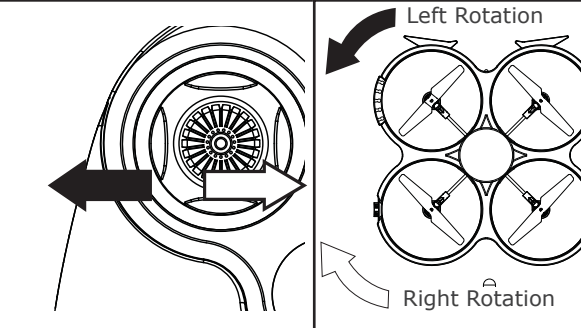
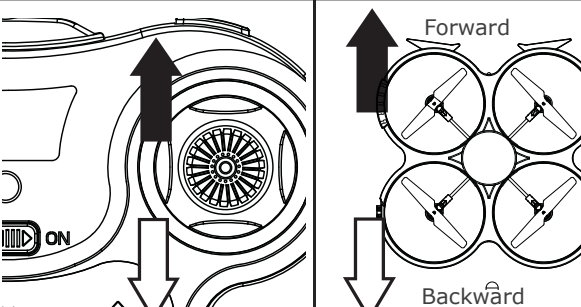
LiteHawk STORM - Directional Flip

Similar to the Auto Flip, pressing this button will allow the model to do a complete 360 degree flip. However, once the button is pressed, you must then use the right stick to choose the direction of the flip; i.e forward, back, left, right. The button must be pressed each time before you can choose the direction of the flip.

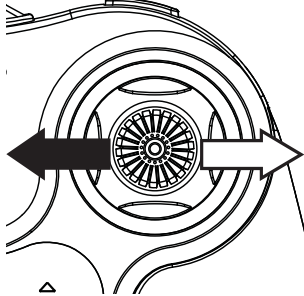
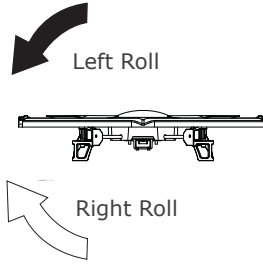
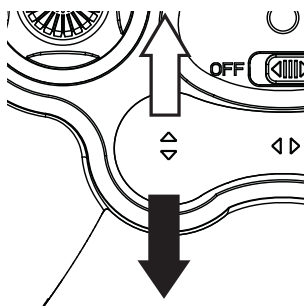
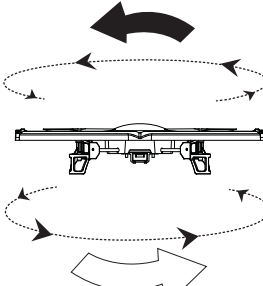
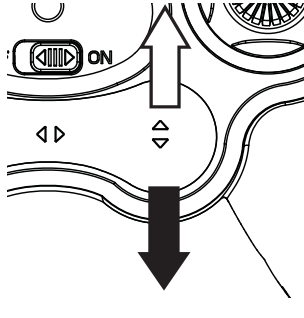
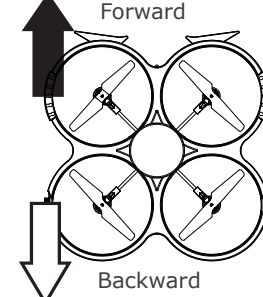
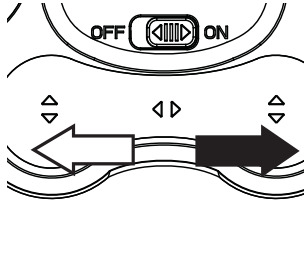
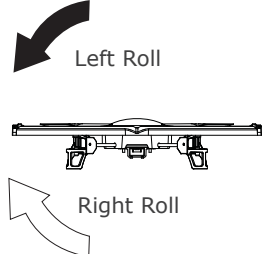
LiteHawk STORM - Spot lights On/Off

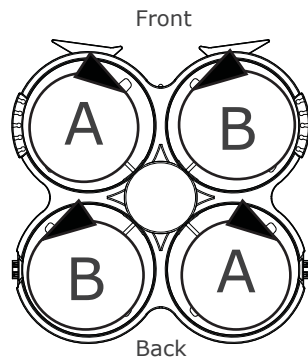
This button turns on/off the LED's closest to the battery - all other lights remain ON.

LiteHawk STORM - Controller Functions

<p>Throttle Control: Moving the left stick up increases power and will result in more lift. Lowering the throttle stick or decreasing power will result in less lift.</p>	
<p>Left/Right Rotation (Yaw) Control: Moving the stick to the left will rotate the quadcopter left or counter-clockwise. Moving the stick to the right will rotate the quadcopter right or clockwise.</p>	
<p>Forward/Backward (Pitch) Control: Moving the right stick up will make the quadcopter go forward. Moving the right stick down will make the quadcopter go backwards.</p>	

LiteHawk STORM Controller Functions

<p>Roll Control: Moving the stick left will make the quadcopter roll left (move sideways). Moving the stick to the right will make the quadcopter roll right (move sideways).</p>		 <p>Left Roll</p> <p>Right Roll</p>
<p>Left/Right Rotation (Yaw) Trim: If the quadcopter spins to the left, push the trim button on the bottom until it stops. If the quadcopter is spinning to the right, push the the trim button on the top until it is stable.</p>		
<p>Forward/Backward (Pitch) trim: If the quadcopter is moving forward, push the trim button on the bottom until it is stationary. If the quadcopter is moving backwards, push the trim button on the top until it is stationary.</p>		 <p>Forward</p> <p>Backward</p>
<p>Roll Trim: If the quadcopter is rolling left, push the trim button in the opposite direction until it is stationary. If the quadcopter is rolling right, push the trim button in the opposite direction until it is stationary.</p>		 <p>Left Roll</p> <p>Right Roll</p>



Blade Rotation Direction

Your new STORM has 2 pairs of unique blades. One pair is "A" and one pair is "B". You can easily tell by closely looking at the top of the rotor blade, there will be a stamp indicating "A" or "B". All "A" blades spin in a clockwise direction while all "B" blades spin in a counter clockwise direction.

LiteHawk STORM - Syncing

1. Plug the battery into the model and place it down *ON A FLAT, LEVEL SURFACE*.
2. Within 2-5 seconds, turn the remote ON and immediately move the left stick up and down.
3. Once the Red LED has turned solid, the remote and model are now communicating.

LiteHawk STORM - First Flight

If you've never flown then the first thing you need to learn is throttle control. Slowly and carefully ramp up the throttle until the model starts to lift off, then as soon as the model leaves the ground, ease off the throttle gently and let it settle back down. If the hardware is working correctly the quad should remain fairly level, and shouldn't drift too far. Repeat this process, lift off gently and then land again, until you have a good feel for how much throttle is required to keep the model in the air. Try keeping it in the air a little longer - don't worry about pitch, yaw and roll - all we care about right now is that the model stays at a steady height. Don't go more than a meter off the ground. If the quad drifts too far, ease off the throttle and land it.

Once you are able to hold the quad at a steady height, try moving the right stick gently to start controlling the model's direction. If the STORM moves left, move the stick slightly to the right. If it starts moving towards you, push the stick up slightly. Get the feel for how the STORM moves around while using the right stick. Remember, if at any point the STORM moves out of position, especially if it starts coming towards you, cut the throttle immediately. Repeat this process until you are comfortable with how the right stick controls the STORM.

LiteHawk STORM - Post Flight

- Remove the battery from the model and allow it to cool for 10-15 minutes.
- Recharge the battery for at least 20 minutes if storing for more than 24 hours.
- Check the model for damage or any possible issue that may affect your next flight.

LiteHawk Parts & Tech

There's nothing worse than buying a new toy, having a question, or needing a replacement part, and then being left out in the cold. No worries! We pride ourselves on the very best customer service!

We have all the parts you'll ever need to keep your new LiteHawk in tip top shape! Like we always say, "accidents happen, even to the best of us"....with that in mind www.litehawk.ca is available 24 hours a day, 7 days a week! Our technical personnel are just a phone call away! Monday to Friday 8:30am to 4:00pm EST. 1-800-268-5797 toll free in North America!

We ship your parts Same Day! Except weekends of course - that's when we are out playing too!

LiteHawk Guarantee

All LiteHawk products have been tested and designed to perform as claimed out of the box. If you have an issue with a product or part of a product please contact us directly. We cover claims towards manufacturing defects. We know that there is nothing worse than having a question or needing a replacement part and having nowhere to go. We have all the parts and help you need to keep your LiteHawk in the air! LiteHawk is not responsible for covering the costs of replacement parts or repair on products that have been damaged due to product use.

LiteHawk Forum



Trust us, this is no ordinary forum! Staffed by a full team of LiteHawk Moderators whose backgrounds range from Engineering, Component Design, Forum Management, R/C Build and Development....professionally, you are in good hands. We cover everything under the LiteHawk sun! Do-It-Yourself Guides, common questions, Tips and Tricks, User Custom Mods...that's just the beginning, really!

It all has to do with community and we want you to see for yourself! With over one million views to date, we're doing something right!

Oh, Contests. We love to give away stuff, everything that we make is up for grabs. Contests are run at least once per month, so it's a great way to meet everyone and have some fun too!



See all of our Litehawk products in action! Everything from videos that show LiteHawks in their natural environments - flying, sailing, power boating....to helpful In-Depth product information too! It's all just a mouse click away!



Get the inside scoop - by joining LiteHawk INSIDER e-bulletin!

Keep up to speed with our newest product releases - we have some great stuff just around the corner! Ever missed a Forum contest, simply because it happened so fast? Heck, it was over before you even got to the party! LiteHawk will never, ever share your email address - it's private and we respect that.

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