



Model no. HY851

FX NANO HAWK QUADCOPTER

INSTRUCTION MANUAL



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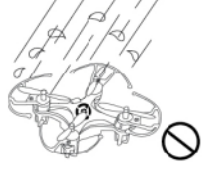


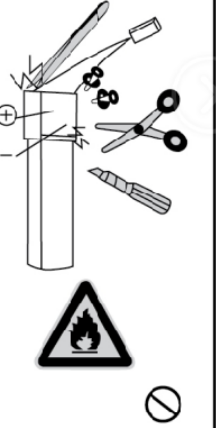
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If you run into any technical difficulties while operating your new drone, please contact our support team by email or at our Blue Sky Wireless Customer Support line from 9 AM to 5 PM EST.
Support@BlueSkyW.com • 954.866.8048.

Boca Raton, FL 33432 • USA

1. SAFETY NOTES

<p>⚠ CAUTION ** Your Nano Drone Quadcopter is a toy, but it is not suitable for children under 14 years old. **</p> <ul style="list-style-type: none"> • If you don't have knowledge of how to fly it, please contact someone who knows how, and at all times operate adult supervision. • The safety instructions are intended not only for the protection of the aircraft, but also to protect your own safety and that of others. • Improper operation can cause injury and property damage. 	
<p>⚠ CAUTION SPECIALLY DESIGNED FOR INDOOR AND OUTDOOR USE</p> <ul style="list-style-type: none"> • This product is suitable for indoor and outdoor use. • Please make sure you choose a flight area with no obstacles and maintain a safe distance from people and pets. • Do not operate near power lines. 	
<p>⚠ CAUTION PREVENT FROM GETTING WET</p> <p>R/C models are composed of many precision electrical components. It is important to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction or crash.</p> <p>NOTE: DO NOT OPERATE IN RAIN OR EXPOSE TO MOISTURE.</p>	
<p>⚠ CAUTION ENSURE PROPER OPERATION</p> <p>To avoid a potential fire hazard from batteries, please do not short, reverse polarity or puncture batteries. Battery charging should be done under adult supervision at all times and at a location out of reach by children.</p> <p>NOTE: DO NOT MIX NI-CAD BATTERIES with ALKALINE BATTERIES</p>	
<p>⚠ CAUTION SAFETY NOTE for Ni-Mh BATTERIES</p> <p>Make sure the batteries are installed correctly by checking the correct polarity (+/-).</p> <p>If you do not plan on using your quadcopter for extended periods of time, remove the batteries from the controller to avoid battery leakage which may damage the transmitter.</p> <p>NOTE: DO NOT MIX NI-CAD BATTERIES or ALKALINE BATTERIES with Ni-Mh BATTERIES</p> <p>NOTE: PLEASE DISPOSE of DEPLETED BATTERIES ACCORDING TO LOCAL LAWS AND ORDINANCES.</p>	
<p>⚠ CAUTION SAFETY NOTES for LI-POLYMER BATTERIES</p> <p>Li-Polymer batteries have higher operational risks compared to other batteries, thus it is imperative to follow proper operational guidelines. Manufacturer and dealers assume no liability for accidental damages caused by improper usage.</p> <p>DO NOT use any other charger other than the supplied charger to avoid potential fire or explosion. DO NOT crush, disassemble, burn, or reverse polarity.</p> <p>Avoid metallic materials coming into contact with the battery terminals, which could cause a short.</p> <p>NOTE: NEVER PUNCTURE BATTERIES, WHICH COULD CAUSE A POTENTIAL FIRE HAZARD!</p> <p>Battery charging should be done under adult supervision at all times and at a location out of reach by children.</p> <p>Please stop the use or charging of the battery should there be an unusual increase in the battery temperature after use. Continued use of this battery may cause it to expand, deform, explode, or even result in potential fire hazards.</p> <p>NOTE: PLEASE DISPOSE of DEPLETED BATTERIES ACCORDING TO LOCAL LAWS AND ORDINANCES.</p> <p>CAUTION: DO NOT LEAVE BATTERIES CHARGING OVERNIGHT</p>	

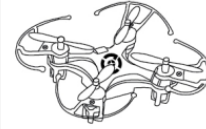
⚠ CAUTION KEEP AWAY FROM HEAT

R/C models are made from various forms of plastic is very susceptible to damage or deformation due to extreme heat and cold temperatures. Make sure not to store model near any heat or adverse temperatures.

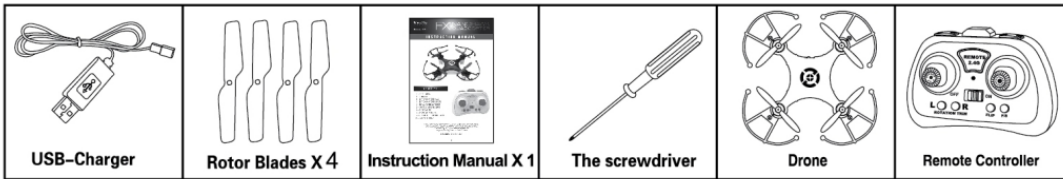


⚠ CAUTION OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT

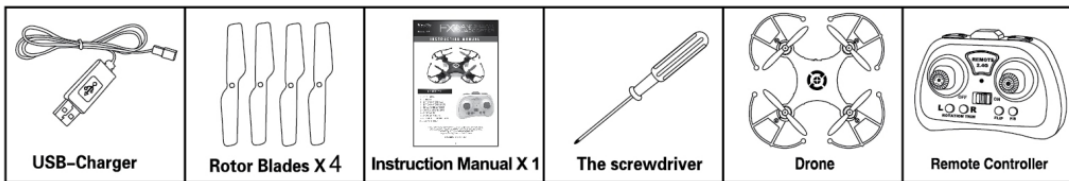
Your FX1 NanoHawk Quacopter is a toy, but is not suitable for children under 14 years old. In the beginning there will be a slight learning curve until you become a proficient pilot. It is advisable to obtain the assistance of an experienced pilot to help you through this period.



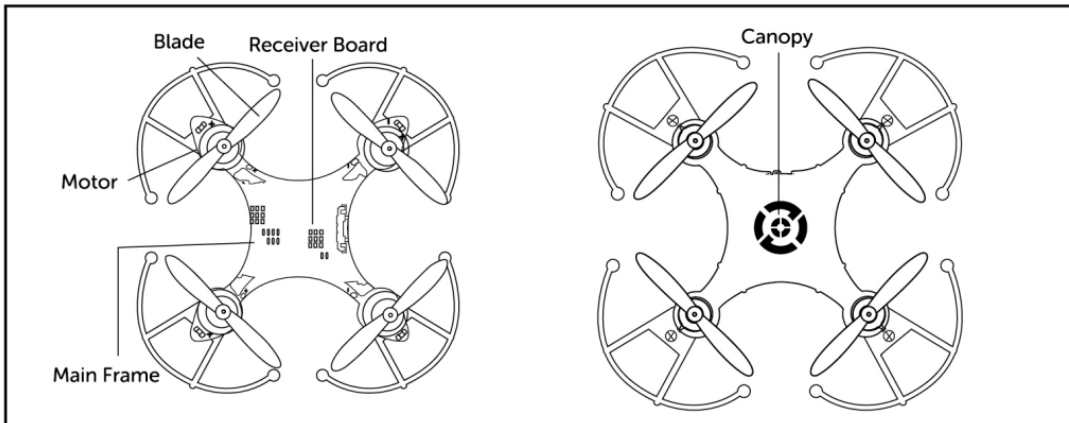
2. PARTS LIST



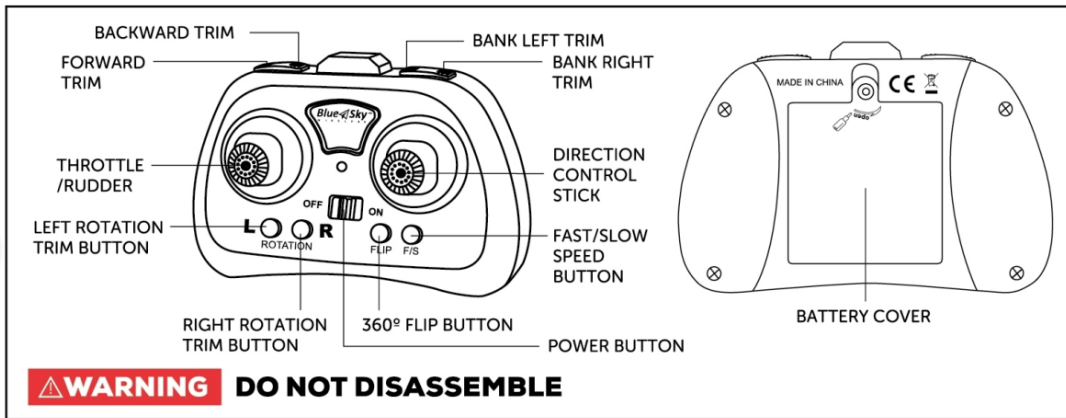
2. PARTS LIST



3. GET TO KNOW YOUR QUAD

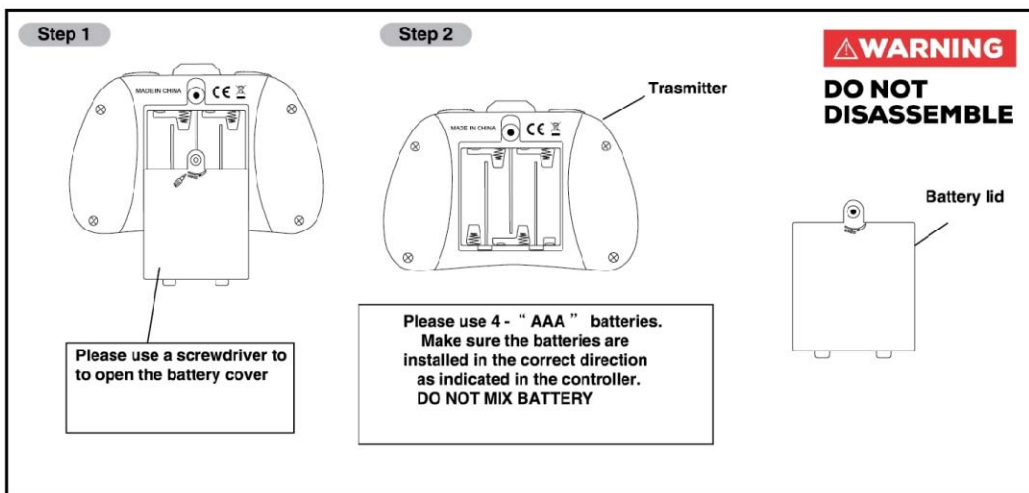


4. GET TO KNOW YOUR REMOTE



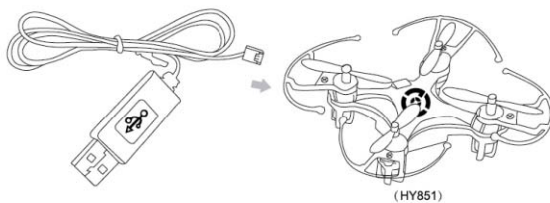
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5. INSTALLING THE BATTERIES



6. HOW TO CHARGE THE QUAD

Use the supplied charging cord to charge the quadcopter





CAUTION

Use ONLY the supplied USB cord for charging.

WARNING

Battery charging should be performed under adult supervision at all times!

LED INDICATOR

Red light on 	Red light off 
Charge Completion	Charging

CHARGER SPECIFICATIONS

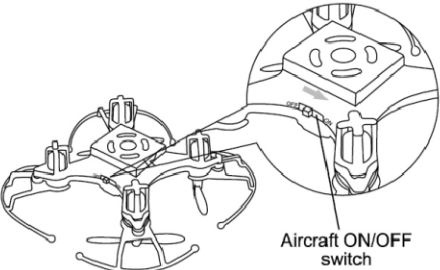
Input	Charging Current	Full Voltage
5V	350MAH	4.2 ± 0.03V

7. SPECIFICATIONS

Battery usage and charge duration reference				
Battery type	ITEM NO.	Battery Specification	Usage Duration	Charge Time
Li-po battery	HY851	3.7V 150mAh	Helicopter flight time Approx 7 Minutes	Approx.30Minutes (Charging current approx.0.35A)
Carbon-Zinc (Non Rechargeable)		1.5V (GP 15G R4P)	Transmitter Operation Time 18 Hours	Non Rechargeable

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8. PAIRING YOUR REMOTE

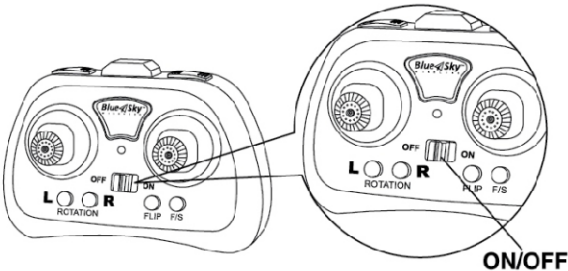


Aircraft ON/OFF switch

Step1

Turn ON aircraft using switch on bottom side. Place the aircraft on a flat surface (do not move the aircraft during the pairing process) to ensure the gyroscope is centered.

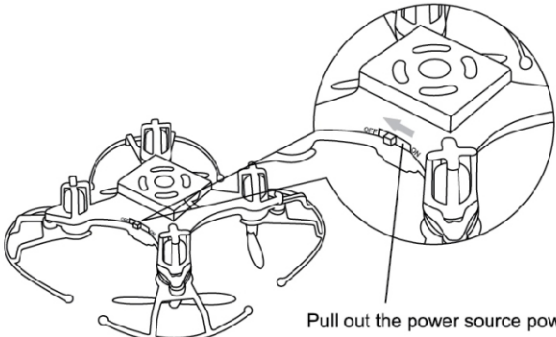
Turn the controller power button to the ON position. The LED light will flash. Wait 5 seconds and the pairing will be established.



ON/OFF

Step2

Push the throttle stick from the lowest position to the highest position, and then back to the the lowest position. When the flashing light turns solid, the pairing of the drone to the remote control is complete.



Pull out the power source power

Step3

After flying, turn the power switch on the transmitter to the OFF position (Power light will turn off) and also turn the power switch on the bottom side of the aircraft to the OFF position (Lights will turn off) indicating all systems are now powered OFF.

Turn off the remote control when finished with operation. If the remote control is not going to be used for an extended period of time, please remove the batteries and store properly.

⚠ WARNING

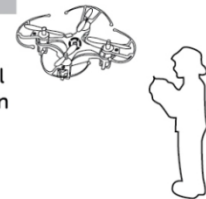
Warning: If the AAA batteries are left in the transmitter, potentiation leakage could occur which may damage the transmitter and possibly create a fire hazard.

NOTE: Some illustrations may reference another model but all of the drones operate in the same manner.

9. SETTINGS & FLIGHT ADJUSTMENT

PLEASE PRACTICE SIMULATION FLIGHT BEFORE ACTUAL FLYING

Before flying your FX1 NanoHawk Quadcopter it is highly recommended that you familiarize yourself completely with the controls. Read through the instruction manual completely before attempting your first flight. When ready, place the Quadcopter in an open area with the back (red lights) facing the pilot. First practice the throttle, front, back, up and down and side to side stick movements (remember it is very sensitive). When you are confident in your stick movements, you're ready to hit the skies.



Mode	Illustration	Mode	Illustration
Left side/right side	<p>Move right Move left</p>	Throttle	<p>Ascent Descent</p>
Forward/Backward	<p>Fly backward Fly forward</p>	Rudder	<p>Turn left Turn right</p>

FLIGHT ADJUSTMENT AND NOTICE FOR BEGINNERS

CAUTION

- ⊙ Check if all connections and canopy is secure.
- ⊙ Check to ensure transmitter and aircraft are fully charged.

When arriving at flying site
have both aircraft and transmitter



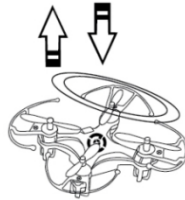
CAUTION

- ⊙ Make sure the flight area is clear of obstacles and people.
- ⊙ The first basic flight action to practice is hovering.
(Aircraft should stay in a fixed position in front of pilot.)
- ⊙ The pilot should stand approximately 5 feet behind the aircraft.



STEP 1 THROTTLE CONTROL PRACTICE

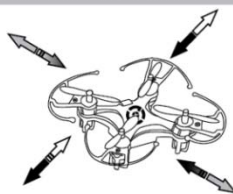
Mode



When the Quad begins to lift-off the ground, slowly reduce the throttle to bring the quad back down. Keep practicing this movement until you can control the throttle smoothly.

STEP 2 AILERON AND ELEVATOR CONTROL PRACTICE

CAUTION

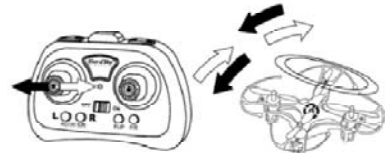


1. Raise the throttle stick.
2. Practice flying the quad as below...
Forward, backward, left, right, and then slowly move the direction stick back to its original center position.

- ⊙ If quad gets away from you, immediately lower the throttle stick and land, then either reposition yourself behind the quad or bring the quad back to your starting position manually.

STEP 3 RUDDER CONTROL PRACTICING

1. Slowly raise the throttle stick.
2. Move the nose of the quad to the right or left, and then slowly move the rudder stick in the opposite direction to fly back to its original position.



STEP 4

After you are familiar with the actions from step 1 to 3, draw a circle on the ground and practice flying within the circle to increase your accuracy.

- ⊙ You can reduce the size of the circle as you become more familiar with controls reflexes get better.



STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE

After you become familiar with step 1 to 4, standing on the side of the quad and continue practicing step 1 to 4. Then repeat this step by standing in front of the quad.



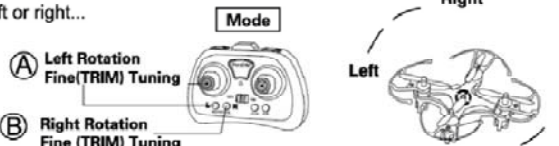
ADJUSTMENT OF EACH TRIM

Slowly raise the throttle stick, and just as the quad begins to lift off the ground, you can use the trim to correct the action if the quad leans in a different direction.

1. Adjustment of the rudder trim

Just before the quad lifts off, and the nose leans to the left or right...

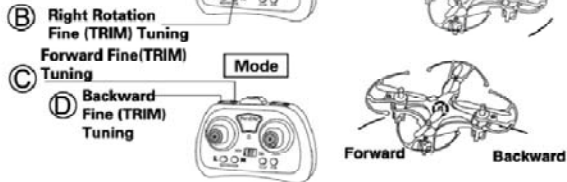
If it leans to the right, press button (A)
If it leans to the left, press button (B)



2. Adjustment of elevator trim

Just before the quad lifts off, and the nose leans forward/back...

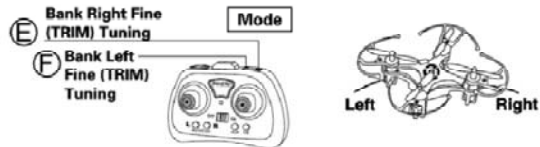
When quad leans forward, press button (C)
When quad leans backward, press button (D)



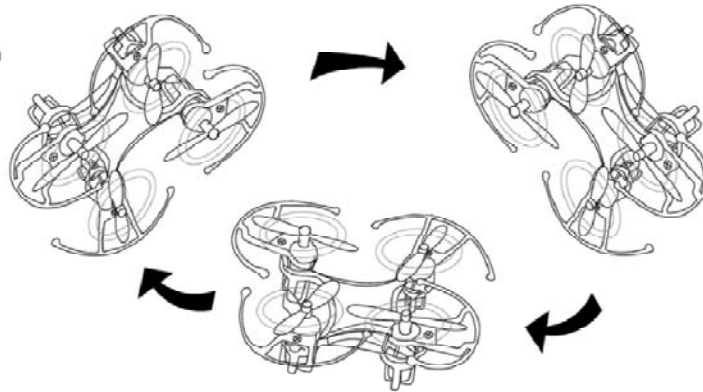
3. Adjustment of aileron trim

Just before the quad lifts off, and the nose leans left/right...

When leans right, press the button (E)
When leans left, press the button (F)



Stable, and flexible flight controls make 360° flips a breeze!

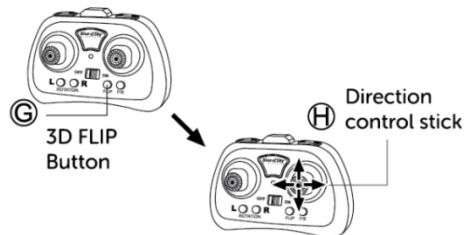


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3D FLIP ROLL

When you press the button, the red light on the transmitter will flash, denoting you are in 3D FLIP mode. (G)

When in 3D FLIP mode, move the direction stick left or right and quad will flip in whatever direction you want. (H)



Switch between Fast/Slow mode

Press Fast/Slow speed button to toggle between fast or slow quad speed.



Note: If the quad moves erratically, it may need to be calibrated. Turn the controller and the quad off. Wait 5 seconds, then turn the quadcopter back on and turn on the controller while holding down the F/S button. The light on the controller will blink and the lights on the quad will blink. When the lights on the quad stop blinking for 2 seconds the calibration is complete.

10. TROUBLESHOOTING

	Situation	Probable Cause	Fix
1	Receiver status LED blinks continuously for more than 4 seconds after quad battery is inserted.No response to control output.	Unable to bind to transmitter.	Repeat the power up initializing process. (Refer to P.6:Binding of transmitter and receiver)
2	No response after battery is connected to quad.	1.Check power to transmitter and receiver. 2.Check transmitter and receiver voltage. 3.Poor contact on battery terminals.	1.Turn on transmitter and make sure quadcopter battery inserted properly. 2.Use fully charged batteries. 3.Re-seat batteries if needed to ensure good contact.
3	Motor does not respond to throttle stick, receiver LED flashes.	Quadcopter battery depleted.	Fully charge the battery or replace with a new or fully charged one.
4	Main does not respond to throttle stick, receiver LED flashes.	Throttle trim accidentally increased during flight.	Confirm throttle trim is centered or slightly below.
5	Main rotor spins but unable to take off.	1.Bent rotor blades. 2. Quadcopter battery depleted.	1.Replace any bent or damaged rotor blades. 2.Fully charge the battery or replace with a new or fully charged one.
6	Quad has strong vibration	Bent rotor blades.	1.Replace any bent or damaged rotor blades.
7	Quadcopter still wanders forward after trim adjustment during hover.	Forward trim increased.	Check and adjust forward/back trim.
8	Helicopter still wanders forward after trim adjustment during hover.	1.Elevator servo not level during power up. 2.Elevator pushrod too long or too short.	The boot will lift fine-tune the normalized neutral point,the new boot.
9	Can not fly after the aircraft fall	1.motor fall out 2.gear loosen	1.install the motor again 2.tighen the gear

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

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 an experienced radio/TV technician for help.