

INSTALLING BATTERIES:

Your BladeRunner Heliquad has a built-in, non-removable, non-replaceable, rechargeable 3.7 Volt Lithium-Polymer Battery. Do not temper with this Battery. Tampering with this battery is dangerous and will void the warranty.

The BladeRunner Heliquad controller requires 3 AA batteries (Alkaline only). Install the batteries as shown:

1. Use a Philips screwdriver (not included) to unscrew the Battery Compartment Door's retaining screw at the rear of the Heliquad Controller.
2. Open the Battery Compartment Door on the back of the Heliquad Controller by sliding it down.
3. Insert the 3 AA batteries as shown. Make sure to respect the polarity.
4. Replace the Battery Compartment Door and tighten the screw with your Philips Screwdriver.

When the 2.4 GHz Controller's Batteries are low on power, the Controller will emit short beeping sounds every 2 seconds and the Controller's LED will also blink. It will be necessary to stop flying and replace the 3 AA Alkaline Batteries in the Controller.

CHARGING YOUR BLADERUNNER HELIQUAD 2.4:

1. Ensure the BladeRunner Heliquad's On / Off switch is in the OFF position. (The 2 red Headlight LEDs at the front of the Heliquad will turn off when the Heliquad is turned off.)

2. Connect the USB cable's Output Jack to the Charger's Input Port.

3. Plug the USB Charging Cable into the USB power source. Make sure the electronic device (such as a laptop) is turned on and is delivering power through the USB Charging Cable. Most laptops will only transmit power through the USB port if they are turned on. The LED on the Charger will light up green.

4. Plug in the Charger's Output Jack into the Charging Port at the rear of the Heliquad's body. Charging will start automatically. The Charger's LED will light up red to indicate charging has started.

Charging will NOT start if the Power Switch is in the "ON" position.

The Heliquad has a built-in, advanced power management circuit. Charging will NOT start unless the battery charge is depleted below 70% of capacity. It is safe to fly the Heliquad even if the Battery is not fully charged. Only the flying time will be decreased.

Always insert the USB connectors to the USB power source before inserting the Charger's Output Jack into the Heliquad.

5. When the Charger's LED turns green, the charging is complete.

Charging will take 30 - 75 minutes for 4-7 minutes of flight. Charging time depends on the current supplied by the USB Power Source and the internal Battery charge conditions. Not all USB Power Sources supply the same current.

Get in the air fast!

The BladeRunner Heliquad is partially charged so you can fly immediately out of the box.

If you fly your Heliquad starts to fly erratically and its Headlight LEDs are flashing rapidly, the built-in Li-Po Battery is out of charge. Please re-charge the Heliquad with the provided Charger to fly again.

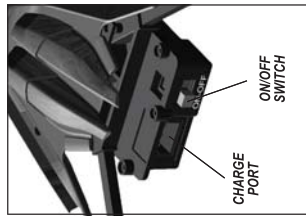
6. Make sure to unplug the USB Charging Cable from the USB Power Source first. Secondly, unplug the Charger's Output Jack from the Heliquad's Charging Port. The Heliquad is now ready to fly.

Charger's LED Functions

LED lights up green - Charger is plugged into a USB Power Source but is not charging, or the Charging has completed.

LED lights up red - Charger is plugged in and is charging the Heliquad.

LED is off - Charger is not plugged in and is not charging the Heliquad.



CHOOSING YOUR FLYING LOCATION:

You can operate your BladeRunner Heliquad outdoors on a calm day or indoors. The outdoor space should be at least 50' x 50' (15 meters x 15 meters) with a minimum height allowance of about 35' (10 meters). Avoid operating your Heliquad near powerlines, trees, or roof-tops. Do not fly your Heliquad during windy conditions, rain or any other form of precipitation or harsh weather. Also make sure that your Heliquad does not have the opportunity to land in a wet or hazardous area such as a body of water (e.g., 5 meters) with the standard forward calling height as a minimum. The edge of the wings of your Heliquad is up to 100' (30 meters), and varies depending on interference within the operational environment. Up to 6 Heliquads can operate in the same vicinity. If multiple Heliquads are flying in the same area, it is recommended to choose a location with more flying space.

If you fly your Heliquad goes out of control during operation and the Heliquad's headlight LEDs are slowly flashing, the 2.4GHz radio link to the Controller has been lost. This may be caused by radio interference or if the Heliquad flies out of radio control range (up to 300M/100feet). Make sure to operate the Heliquad within the radio control range or operate in another location with less radio interference.

WARNING:
The spinning rotors of the Heliquad are capable of damaging or injuring plants, furniture, pets or people so fly carefully.

SYNCING YOUR HELIQUAD WITH ITS CONTROLLER:

1. Place the Heliquad on a flat surface and Turn it on. The Heliquad's Headlight LEDs will be flashing rapidly for about 3 seconds. The on-board computer is booting and calibrating during this time. Once booting and calibration is complete, the LEDs will flash slowly, and the Heliquad is ready for sync with the 2.4GHz Controller.

2. Turn on the 2.4GHz Controller by sliding up the On / Off Switch. The Controller's LED will be flashing and the Controller will be emitting short beeping sounds.

3. Move the Left Stick all the way up and down. The LEDs on both the Heliquad and the Controller will be on continuously. The Controller will stop beeping and the syncing is completed.

It is possible to fly up to 6 Heliquads in the same vicinity without any control frequency conflicts. Simply sync each Heliquad with its 2.4 GHz Controller one by one using the above steps. Ensure that only one Heliquad and Controller are syncing at a time and those Heliquads and Controllers that have not yet been synced are turned off.

If you experience a problem in syncing your Heliquad with the Controller, power off both the Heliquad and the Controller. Repeat the above steps.

If the Syncing problem persists, locate another place to fly your Heliquad with less radio interference and repeat the above steps.

4. Select either the Regular Mode or the Pro Mode on the Controller by sliding the Pro / Regular Mode Switch to the desired setting.

In Regular Mode, the Heliquad will fly at normal speed. In Pro Mode the Heliquad will fly at a faster speed. Regular Mode is recommended for beginners and intermediate users, while Pro Mode is recommended for advanced users. Pro / Regular Mode setting can be switched during flight.

5. Gently push the Left Stick up to increase the throttle and ensure that the Rotors start spinning. Now that you know your Heliquad is functioning as it should - RELAX! DO NOT TAKE OFF!

Be sure to read the next section on "FIRST FLIGHT / TRIMMING YOUR HELIQUAD" before your first flight!

FIRST FLIGHT / TRIMMING YOUR HELIQUAD:

Your Heliquad must be "Trimmed" to counteract unwanted drifting or rotation. First, using the Left Control Stick, raise the Heliquad to just below eye level. There are 3 trim pads, each ergonomically placed for easy access. The 2.4GHz Controller has 3 trim pads: Forward / Reverse, Roll, and Pitch. The trim pads are used to adjust the Heliquad's flight path by drifting forwards / backwards, drift-sliding sideways, or rotating in mid-air. This should be done every time you fly your Heliquad after charging. The Trim setting will vary as the Heliquad Battery drains. In addition to the Battery condition, some other factors will affect the trim of the Heliquad such as, throttle setting and damage to the Rotor Blades. Trim re-adjustment during flight may be required. Once trimmed, minor corrections can be managed using the Right, and Left Sticks in conjunction with the appropriate Trim Pads. The operational details of each Trim Pad are described below:

Left / Right Slide Trim Pad - If your Heliquad is sliding left or right while flying it will be necessary to adjust this by using the "Left / Right Slide Trim Pad". Press the Pad left or right until the Heliquad stops sliding sideways.

Forward / Reverse Movement Trim Pad - If your Heliquad has unwanted forward or backward movement while flying you will be able to adjust this by using the "Forward / Reverse Movement Trim Pad". Press the Pad up or down to compensate for unwanted movement of Heliquad in forward or reverse directions.

Rotational Trim Pad - If your Heliquad has unwanted rotation during flight it will be necessary to compensate for this by using the "Rotational Trim Pad". Press the Pad left or right to compensate for unwanted rotation of the Heliquad along its vertical axis until the Heliquad holds a true heading.

Trimming under Control Reversal Conditions - If the Heliquad is flying towards you, all trim operations will appear to reverse. This is normal and still requires some practice. It is important to keep in mind that left / right sliding, forward / reverse movement, and rotation, are still controlled by their respective Trim Pads.

When any TRIM Pad is pressed, a short beeping tone is heard indicating that the trim input was successful. A long beeping tone is heard if the trim input has reached its maximum limit. If the Heliquad is still exhibiting excessive drifting or rotation, this is indicative of possible problems with the Rotor Blades.

The Heliquad should never be flown with damaged Rotor Blades. Fly the Heliquad with damaged Rotor Blades is potentially dangerous. See the "REPLACING DAMAGED ROTOR BLADES" section for more information.

FLYING YOUR BLADERUNNER HELIQUAD 2.4:

WARNING:

Check the condition of all the Rotor Blades prior to each flight. Do not try to operate the BladeRunner Heliquad if any rotor blade has been damaged. Broken or damaged Rotor Blades may have sharp edges or corners and they will be spinning fast with a potential injury! Flying the Heliquad with broken Rotor Blades can also make it fly in an unstable or uncontrollable manner. This may cause damage to furniture and other property, as well as injury to plants, animals and people. Broken Rotor Blades can be easily replaced as described in the "REPLACING DAMAGED ROTOR BLADES" section below.

1. Move the Left Stick completely up and watch the Heliquad leap off the ground. Once off the ground, gently reduce the throttle with the Left Stick so that the Heliquad is at the desired height above the ground. This is a digital proportional system, therefore fine up and down movements of the Left Stick will modulate the throttle and produce minor changes in the Heliquad's altitude. Take time to practice controlling the altitude and getting accustomed to the throttle sensitivity.

Fly forward or backwards by moving the Right Stick up or down respectively. Since this is a digital proportional Control Stick, you will be able to attain a very smooth transition between slower and faster forward and reverse speeds as well as lowering in place. The best forward flight motion is achieved by gently moving the Right Stick up, this produces the smoothest transition from lower to flying forward. Sharp or abrupt movements can cause the Heliquad to "repose" or swing, but might be required to overcome a slight wind or draft.

3. Turn left or right by moving the Right Stick left or right. Since this is a digital proportional Control Stick, you will be able to attain a very smooth transition between turning left and turning right. Move the Right Stick quickly for a quick turn, or slowly for a slow turn. Direction convention is based as if you were sitting in the pilot's seat of the Heliquad.

4. Slide to the left or right by moving the Left Stick left or right. Since this is a digital proportional Control Stick, you will be able to attain a very smooth transition between sliding left and sliding right. Move the stick quickly for quick sideways slides, or slowly for slow sideways slides.