VUELO

CREST

Pocket Nanodrone

User Manual

Contents

Introduction

Thank you for purchasing your very own Vuelo Crest Nanodrone!

Vuelo, Spanish for 'flight' symbolizes our dedication to providing great quality drone products. Vuelo products are aerial weapons of awesomeness.

The Vuelo Crest Series Nanodrone is perfect for novices and pros alike. Fit Vuelo Crest in your pocket and take off!

Please thoroughly read this instruction manual prior to using the Vuelo Crest Series Nanodrone.

Easy-to-Control Long-Range Transmission:
First flight? Maneuvering it won't be a problem! It's speed is kept controlled and is self-adjusting, even from 50m to 70m afar.

Powerful Portability:
Small in size and lightweight, yet performs mightily for its size.

Multi-Axis Gyro Stability:
Ready to impress with stunts, drifts and 360-degree flips! Easily recognizes 3D tumbling in multiple directions.

LED Illuminators:
Vuelo Crest's lights look great at night; and equally great during the day.

Longer Flying Time, Longer the Fun:
Vuelo Crest's stays on air for 5-6 minutes. Powered by top-notch Lithium-polymer battery, fully charged in just 40-50 minutes.

Specification

- Adopted 2.4G frequency band.
- Far remote-controlled distance of up to 70 meters.
- Multiple Vuelo Crest Nanodrones can be flown at the same place and time without any interference.

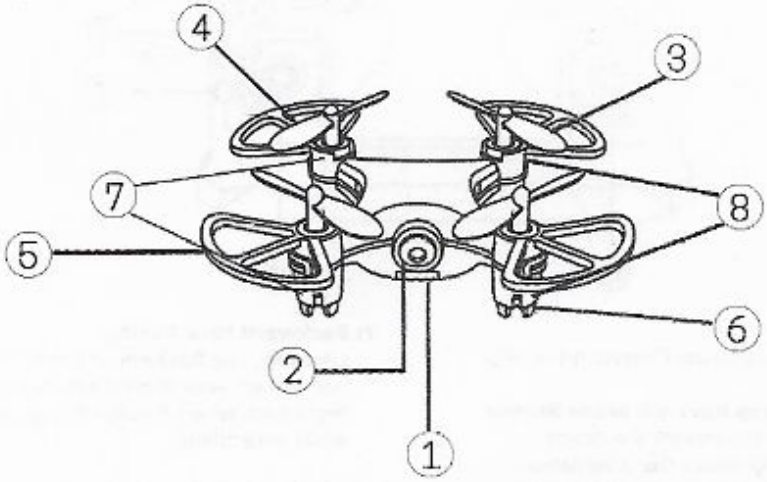
Drone Battery	3.7V 190mAh Lithium Polymer Battery
Controller Battery	AAA Battery x2 (Sold Seperately)
Charging Time	40-60 minutes
Flying Time	5-6 minutes
Remote Controller Distance	50-70 meters
Body Length	90 millimeters
Body Width	90 millimeters
Height	25 millimeters
Length of Rotor Wing	35 millimeters

Package Inclusions

Vuelo Crest Nanodrone	1pc
Vuelo Crest Remote Control	1pc
Vuelo Blade	4pcs - Installed on the Vuelo Nanodrone 4pcs - Spare
Vuelo Blade Guard	4pcs
Vuelo Charger	1pc
Screw	4pcs - Installed on the Vuelo Nanodrone 2pcs - Spare
Screwdriver	1pc
Joystick Extender	2pcs

Parts and Functions

A. Drone



1) Power Switch
Powers the Vuelo Crest Nanodrone on or off.

2) Charging Port
Where the packaged charging cable is plugged in to be able to charge the Vuelo Crest Nanodrone.

3) Rotating Blade
Vuelo Crest Nanodrone's blades that rotate in a clockwise motion. Located at the front left-side (gray) and back ride-side (black). These blades are labelled as either A or D.

4) Reverse Rotating Blade
Vuelo Crest Nanodrone's blades that rotate in a counter-clockwise motion. Located at the front right-side (gray) and back left-side (black). These blades are labelled as either B or C.

5) Blade Guard
Protects the blades and the body of the Vuelo Crest Nanodrone, as well as accidents, caused by wrong landings

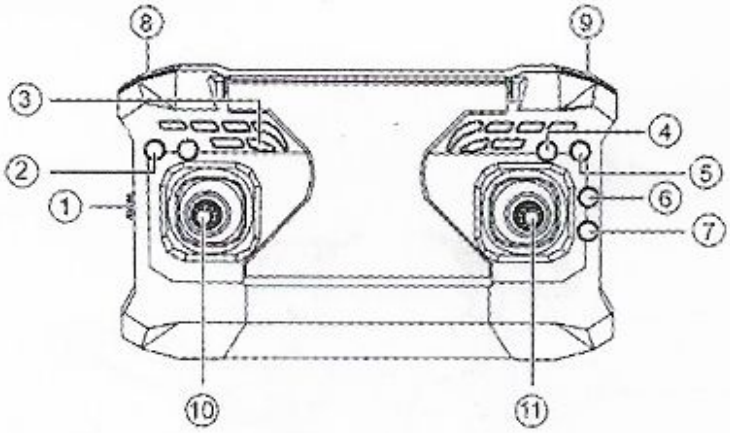
6) Tripod
Protects the Vuelo Crest Nanodrone from landing impact.

7) Front Navigation Light
Red flashing lights that located inside the Tripod of Vuelo Crest Nanodrone that differentiate the front from tail and great for night flying action.

8) Tail Navigation Light
Blue flashing lights that located inside the Tripod of Vuelo Crest Nanodrone that differentiate the tail from front and great for night flying action.

Parts and Functions

B. Remote Control



1) Power Switch
Turns the Vuelo Remote Control on or off.

2) Headless/Course Reversal Mode Button
Allows the user to operate the drone without worrying about the orientation. When pressed long enough, the remote control transmits signals to the Vuelo Crest Nanodrone to return near its starting point. Please note that your Vuelo Crest Nanodrone's battery life may affect the accuracy of its landing, in relation to its starting point.

3) Power Indicator
Indicates the current status of the Vuelo Crest Nanodrone:
- Blinking LED Light - Pairing Mode
- Stable LED Light - Paired/Ready-to-Use
- Lights Off - No Power

4) Left Side Flight Fine-Tuning Button
Fine Tuning enables the Vuelo Crest Nanodrone to stabilize during strong wind conditions, motor problems, or unstable gyroscopes. The Left Side Flight Fine-Tuning Button will correct your Vuelo Crest Nanodrone's flight path when it keeps flying sideways to the left while ascending.

5) Right Side Flight Fine-Tuning
Similarly, the Right Side Flight Fine-Tuning Button corrects its flight path when the Vuelo Crest Nanodrone keeps flying sideways to the right while ascending.

6) Forward Fine-Tuning Button
In the same way, the Forward Fine-Tuning Button corrects its flight path when the Vuelo Crest Nanodrone keeps flying forward while ascending.

7) Backward Fine-Tuning
Likewise, The Backward Fine-Tuning Button will correct your Vuelo Crest Nanodrone's flight path when it keeps flying backward while ascending.

8) Speed Toggle Switch
Changes the speed and sensitivity of the blades. Options are as follows:
- First Press - 30%, for beginners
- Second Press - 60%, for intermediate users
- Third Press - 100%, for advanced users

9) 360-Degree Flip Button
Commands the Vuelo Crest Nanodrone to do a 360-degree flip stunt.

10) Power Control Lever
The Power Control Lever allows the Vuelo Crest Nanodrone to fly, descend, or land. Pushing the Power Control Lever towards to the left or right would dictate the Vuelo Crest Nanodrone to pan to the left or right, respectively, by rotating its body.

11) Directional Control Lever
The Directional Control Lever dictates where your Vuelo Crest Drone would head to. Push to the left or right Directional Control Lever to fly sideways. Push it towards upwards move forward and downwards to move backward.

Usage

Initial Set-Up

1) After unboxing the Vuelo Crest Nanodrone, open the battery cover of the Vuelo Remote Controller and install 2 pieces of AAA batteries, according to the polarity instruction on the battery box. Please note that batteries are not included in the package.

   Pro Tip: You may use rechargeable batteries for a hassle-free flight time!

2) On the left of the battery compartment of the Vuelo Remote Controller is the accessories compartment. Take the following and install it on the Vuelo Crest Nanodrone, to ensure the best possible flight experience:

   a. Joystick Extender - Install the Joystick Extenders on the Directional Control Lever and Power Control Lever joysticks of your Vuelo Remote control. Once installed, the joystick extenders allow an easier control of the Vuelo Crest Nanodrone.
   b. Blade Guards - Place the blade guards below the blades of your Vuelo Crest Nanodrone to protect it when it accidentally hits a wall or other barriers.

3) Prior to using the Vuelo Crest Nanodrone, please charge it initially for an hour. (Please refer to page 12 on how to charge the Vuelo Crest Nanodrone).

4) For your reference, the front part of the Vuelo Crest Nano Drones are the sides where the blades are gray. The charging port must always face the west.

Front Tail

Back Tail

5) Please make sure that the blade guards are installed to avoid accidents arising from wrong landing of the Vuelo Crest Nanodrone.

Operating the Vuelo Crest Nanodrone

1) Put the Vuelo Crest Nanodrone on a flat area where it can take off, otherwise, the drone will not fly.

2) Turn on the Crest Nanodrone first by moving the pin found on the side of its body to 'On.' White its internal gyroscopes are being activated prior to flying, both the front and tail LED navigation lights will blink. Please keep your Vuelo Crest Nanodrone still during activation of the gyroscopes.

3) Next, turn on the Vuelo Remote Controller. Blue LED lights will turn on.

4) Once paired, the lights on the Vuelo Crest Nanodrone will become stable.

5) You may now start flying your Vuelo Crest Nanodrone.
*Please refer to page 8 for a guide on how to control and operate your Vuelo Crest Nanodrone.

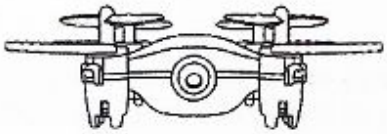
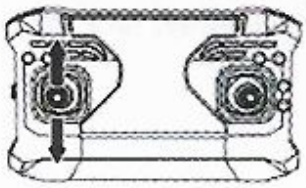
6) Average flight time is 5-6 minutes, depending on usage (in consideration of temperature of the location and wind speed).

7) To land, simply push the Power Control Lever down slowly to ensure a smooth landing.

Controlling the Vuelo Crest Nanodrone

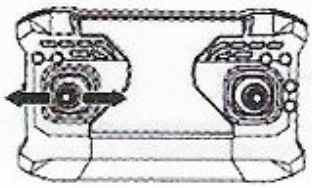
Basic Controls

Behind each drone master is hours of practicing its basic movements. Below is a guide of Vuelo Crest Nanodrone's basic movements you can start exploring:

Intended Movement of the Vuelo Crest Nanodrone	How to Execute through the Vuelo Remote Controller
Flying and Descending Ascending ↑  Descending ↓	 Pushing the Power Control Lever upwards will increase the spinning speed of the blades, which dictates the Vuelo Crest Nanodrone to ascend. When the Power Control Lever is pushed downwards, the blades' spinning speed decreases and eventually, allows the Vuelo Crest Nanodrone to descend or land.

Pan Right and Pan Left

Turn Left Turn Right



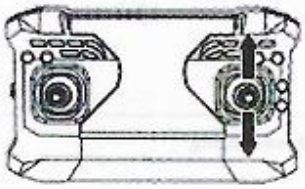
Change the direction where your Vuelo Nanodrone is heading to by pushing the Power Control Lever to the left to pan left and rotate the Vuelo Crest Nanodrone's body to the left.

Pushing it to the right will result in a panning motion to the right and will likewise rotate the Vuelo Crest Nanodrone's to the right.

Forward and Backward

Forward

Backward



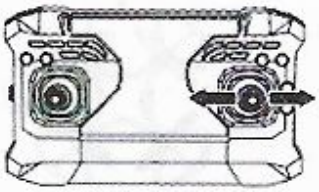
Push the Directional Control Lever upwards to make the Vuelo Crest Nanodrone fly forwards.

Meanwhile, pushing the Directional Control Lever downwards will make the Vuelo Crest Nanodrone fly backwards.

Left and Right

Left
Sideward Fly

Right
Sideward Fly



Moving the Directional Control Lever to the left results in flying the Vuelo Crest Nanodrone sidewards to the left.

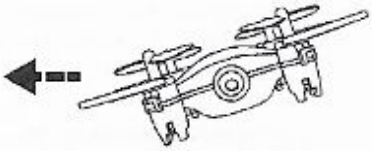
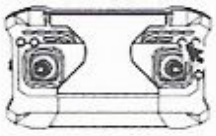
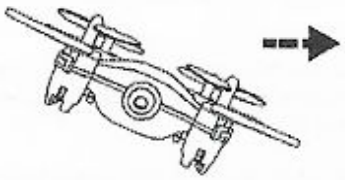
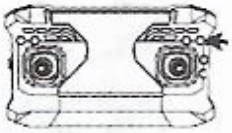
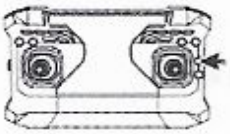
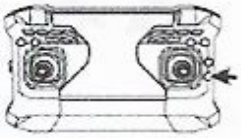
When the Directional Control Lever is pushed to the right, the Vuelo Crest Nanodrone will move sidewards to the right.

Advanced Functions

Once you've mastered the basic functions above, it's time to step-up your drone flying game with these movements:

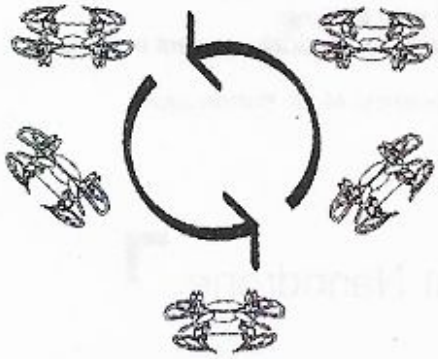
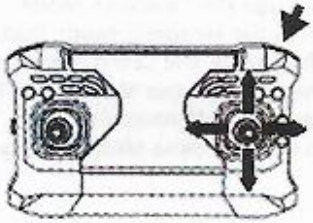
A. Fine-Tuning

The Vuelo Crest Nanodrone has a Fine-Tuning feature which stabilizes it during strong wind conditions, motor problems, or unstable gyrospopes.

Intended Movement of the Vuelo Crest Nanodrone	How to Execute through the Vuelo Remote Controller
Left Fine-Tuning 	 When the Vuelo Crest Nanodrone is flying lopsidedly to the left while ascending, press the Left Side Flight Fine-Tuning Button to correct its flight path.
Right Fine-Tuning 	 Balance the Vuelo Crest Nanodrone when it's irregulary flying to the right during take-off by pressing the Right Side Flight Fine-Tuning Button to stabilize.
Forward Fine-Tuning 	 Should the Vuelo Crest Nanodrone fly irregularly forwards during take-off, press the Forward Flight Fine-Tuning Button to stabilize it.
Backward Fine-Tuning 	 Press the Backward Flight Fine-Tuning Button to stabilize the Vuelo Crest Nanodrone when its back part is irregularly flying backwards while ascending.

B. 360-Degree Flips

Time to level-up your drone-flying game by using flips. Please note that your Vuelo Crest Nanodrone must be flying at a height of at least 3 meters to do this trick

Intended Movement of the Vuelo Crest Nanodrone	How to Execute through the Vuelo Remote Controller
	 Push the 360-Degree button to do this trick. Once the Vuelo Crest Nanodrone beeps, push the Directional Control Lever to the direction you wish your drone to flip to.

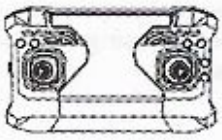
C. Headless Mode

The Headless Mode is activated mostly by long-range drone users. Use this when you're comfortable enough with your drone skills!

Headless Mode will disregard the native directional sides of your Vuelo Crest Nanodrone. Instead, the side which directly faces the Vuelo Remote Contoller will be considered as the 'back' part when the Headless Mode is activated.

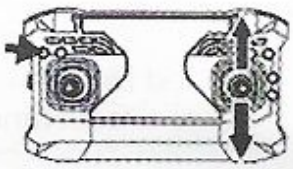
Position of the Vuelo Crest Nanodrone and the Vuelo Remote Controller when the Headless Mode is turned off:

Front



Back

Position of the Vuelo Crest Nanodrone and the Vuelo Remote Controller when the Headless Mode is turned on:

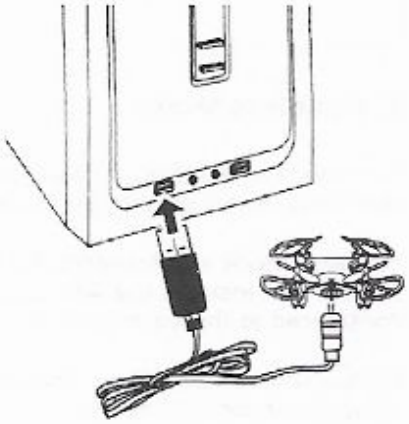


To activate the Headless Mode:
1) Press the Headless Mode Button on the Vuelo Remote Controller.
2) Afterwards, the LED navigational lights will start blinking.
3) The sides of your Vuelo Crest Nanodrone will automatically reorient in reference to your Vuelo Remote Control.
4) To exit Headless Mode, simply press the Headless Mode Button again.

Charging the Vuelo Crest Nanodrone

1) Blinking LED lights found on the sides of the Vuelo Crest Nanodrone signals that your drone is low on battery.

2) To charge your Vuelo Crest Nanodrone, simply connect the charging cable to the charging port found into the side of your drone. You may connect it to any power source, such as laptops or computers, which has a power source of 3.7V and current less than 2A. You may also charge by connecting the charging cable directly to a wall plug via a USB adapter (sold separately).



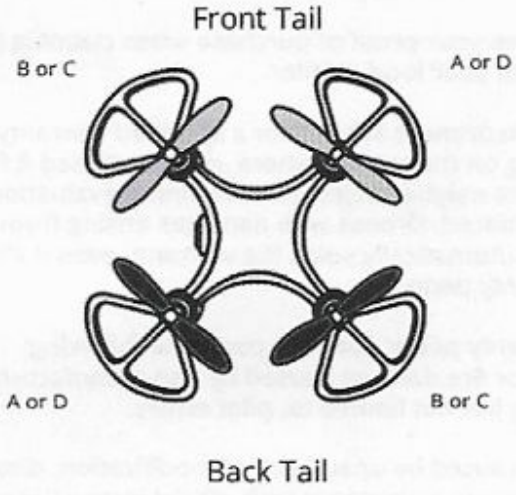
3) Once charging, the red LED indicator lights will appear. It is advisable to charge the Vuelo Crest Nanodrone for 50 minutes. The LED lights will turn off once the Vuelo Crest Nanodrone is fully charged. Once fully charged, wait for at least 20 minutes before using the Vuelo Crest Nanodrone again.

Changing the Blades

1) With the additional blades packaged with the the Vuelo Fuerza Nanodrone, you may easily change a blade that breaks due to caused by wear and tear.

2) To remove the damaged blade, simply pull it out from the drone.

3) The blades have been labeled for easy reference when replacing it. Check the letter (A, B, C, or D) of the blade and look for the exact label on one of the spare blades inside the Vuelo Remote Control's compartment. Please ensure that the exact same blade will be installed. The Vuelo Crest Nanodrone will not ascend if the wrong blade is installed



Precautions

1) The remote controlled distance will be shortened when the battery power of the Vuelo Crest Nanodrone is insufficient. Likewise, the Vuelo Crest Nanodrone would have problems taking off or flying.

2) Please change damaged blades immediately prior to flying the Vuelo Crest Nanodrone again, as it might lead to completely damaging your drone.

3) Remove batteries when not using the Vuelo Remote Control to avoid product damage arising from battery leakage.

4) Intentionally crashing the Vuelo Crest Nanodrone from a high altitude significantly shortens its lifetime and will void the warranty. .

5) Wind speeds greatly affect the performance of the Vuelo Crest Nanodrone.

VUELO

WARRANTY TERMS AND CONDITIONS

1) Please keep your proof of purchase when claiming for a Vuelo warranty at your local retailer.

2) Your Vuelo drone is subject for a specified warranty period depending on the retailer where you purchased it from. Please note that drones maybe subject for a technical evaluation first before it can be replaced. Drones with damages arising from negligence and crashes, automatically voids the warranty even if it's still covered by the warranty period.

3) This warranty policy does not cover the following:
- Crashes or fire damage caused by non-manufacturing factors, including but not limited to, pilot errors.
- Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.
- Damage caused by improper installation, incorrect use, or operation not in accordance with official instructions or manuals.
- Damage caused by a non-authorized service provider.
- Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.
- Damage caused by flights which did not follow instruction manual recommendations.
- Damage caused by operation in bad weather (i.e. strong winds, rain, sand/dust storms, etc.)
- Damage caused by operating the product in an environment with electromagnetic interference (i.e. in mining areas or close to radio transmission towers, high-voltage wires, substations, etc.).

- Damage caused by operating the product in an environment with electromagnetic interference (i.e. in mining areas or close to radio transmission towers, high-voltage wires, substations, etc.).
- Damage caused by operating the product in an environment suffering from interference from other wireless devices (i.e. transmitter, video-downlink, Wi-Fi signals, etc.).
- Damage caused by operating the product at a weight greater than the safe takeoff weight, as specified by instruction manuals.
- Damage caused by a forced flight when components have aged or been damaged.
- Damage caused by reliability or compatibility issues when using unauthorized third-party parts.
- Damage caused by operating the unit with a low-charged or defective battery.
- Uninterrupted or error-free operation of a product.
- Loss of, or damage to, your data by a product.
- Any software programs, whether provided with the product or installed subsequently.
- Failure of, or damage caused by, any third party products, including those that Vuelo may provide or integrate into the Vuelo product at your request.
- Damage resulting from any non-Vuelo technical or other support, such as assistance with "how-to" questions or inaccurate product set-up and installation.
- Products or parts with an altered identification label or from which the identification label has been removed.

VUELO

CERTIFICATE OF WARRANTY

NAME:

DATE PURCHASE:

WHERE PURCHASED:

COUNTRY:

DRONE UNIT & COLOR:

SERIAL NUMBER:

CONTACT NO: