



# SKYHORNET

## 1. Introduction

Thank you for purchasing the VTI Skyhornet Drone. See DCR088. This included remote control device is designed specifically for outdoor flying. In order to get the best possible results, please read this user's manual carefully before using. In addition, be sure to keep this manual in a safe place for future reference.

## 2. Features

- Headless Mode
- Variable Speed Selection
- LED Light
- Easy Charging

## 3. Package Contents

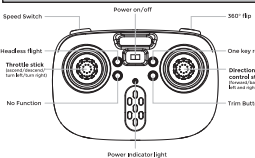
- Skyhornet Drone
- Remote Control
- Wings and Link Legs
- 2x 1.5 AA NiMH Battery
- USB Charger
- Carrying Case
- Owner's Manual with Warranty Information

## 4. Important Safety Precautions

When using your Skyhornet Drone, basic safety precautions should always be followed, including the following:

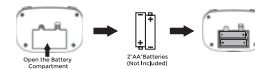
- Do not allow children or the infirm to operate your drone without adult supervision. For safety purposes, only those experienced pilots aged 16 and up fly your drone.
- Avoid flying over people or animals. Maintain a 75 (3m) distance from the aircraft when taking off and landing.
- Your drone is not to fly. Make sure that it is properly assembled before use, and operated safely.
- Keep your drone away from obstacles, crowds, power lines, trees, and bodies of water while it is in flight. Always fly your drone in a wide open, unpopulated environment. Avoid flying your drone directly above people or animals. Maintain a 75 (3m) distance from the aircraft when taking off and landing.
- Only use your drone in a dry environment. Your drone is composed of sophisticated electronic components and parts. To avoid damage to your drone, please keep your drone away from water and moisture. Use a soft dry cloth to wipe the surface of your drone and keep it clean.
- Beginner and novice level pilots should practice flying with experienced pilots until suitably experienced in flight.
- To ensure safety, only use the included parts when using your drone.
- Make sure to keep your eyes and eyes protected when using your drone. When your drone is in flight, always make sure to keep yourself and objects at a distance from rotating parts.
- Keep your drone away from excessive heat of flames, especially while charging the battery.
- Please recycle or dispose of your drone properly based on the laws and rules of your municipality. Contact local recycling facilities and/or the manufacturer of your drone for further information.

## 5. A Quick Look at Your Remote Control



Speed Switch, Headless Mode, No Function, Power Indicator Light, Power on/Off, 300° Flip, One key return, Directional Control Stick, Trim Button.


## 6. Inserting Batteries Into Your Remote Control



Open the Battery Compartment, 2 AA Batteries (Not Included), Insert 2 AA 1.5V batteries, making sure that the batteries are inserted with the correct polarity.

Do not mix rechargeable and non-rechargeable batteries. Do not mix old and new batteries in different types of batteries. Remove exhausted batteries and dispose of them based on the rules of your local jurisdiction. Do not leave the batteries from your remote control in it. It will not be in use for an extended period of time.

## 7. Charging Your Drone's Battery



Open the drone's rear battery module and then pull the Bafang battery compartment.

Connect the battery to the included charger. Then plug the charger into a valid charging adapter (not included). For best results, use a 2A USB charger to charge the battery.

While charging, an LED light on the charger will flash. This light will stop once charging is complete. Charging typically takes approximately 90 minutes.

Once fully charged, insert the battery back into the battery compartment, making sure to connect it to the connection on the front board. Make sure when connecting to not reverse the positive and negative poles (+/-).

## 8. Setup

### Attaching Landing Gear

Before flying your drone, make sure that you attach the landing gear. The landing gear consists of two pieces. Each piece has two legs that twist into the sockets on your drone.

Make sure the landing gear is attached securely on your drone before take off.

## 9. Pre-Flight Preparation

### Powering ON

With the Power On/Off switch to the On position in order to power the remote to begin flying. When you are finished flying, flip the On/Off switch to the Off position. Then turn the power switch on your drone on.

### Synchronizing the Drone with the Remote Control

Next, hold your remote close to your drone and all the throttle sticks to the way down, and then point it off to the way you want to fly. The remote control throttle stick to the way down. The indicator light in your remote also will flash. When powered on and then stop flying and stop standing when both are synchronized.

## Replacing Propellers

To detach the propellers from the body of your drone, take out the screws by pulling them in counter-clockwise direction and then remove the propellers.

Next, to attach new propellers, be sure that the propeller is aligned to the correct motor (propeller A attaching to motor A, and propeller B attaching to motor B). The aircraft will rock normally if the wrong propeller level been attached.

To attach, rotate the screws in a counter-clockwise direction.

## 9. Pre-Flight Preparation

### Pre-Flight Preparation

If you have never used a drone before and you are not an experienced pilot, make sure to read these instructions carefully before flying. Get familiar with all of the controls. If necessary, read through these instructions many times and practice handling the remote control and your drone until completely comfortable and ready.

- Make your drone in a clear, open field. Make sure that it is resting on a secure, flat surface.
- Practice using the throttle stick and the directional control stick.
- By practicing the use of the remote and both sticks, you will grow more comfortable with the natural motions required during flight and you will learn to react more rapidly to unexpected circumstances.

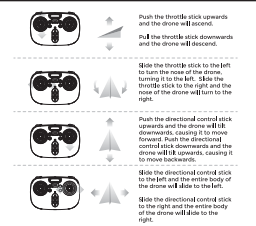
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## 10. Flying Your Drone



Push the throttle stick upwards and the drone will ascend. Push the throttle stick downwards and the drone will descend. Move the throttle stick to the left. Make the throttle stick to the right and the nose of the drone will turn to the right.

Push the directional control stick upwards and the drone will ascend. Push the directional control stick downwards and the drone will descend. Push the directional control stick to the left and the entire body of the drone will lean to the left. Push the directional control stick to the right and the entire body of the drone will lean to the right.

## 11. Headless Mode

Headless mode allows you to fly your drone without worrying about the drone's orientation. Regardless of which way the drone is flying, this function ensures that the drone will always fly from your perspective all the time.

To enter headless mode, after your drone takes off, stand in front of your drone and press the headless mode button on your remote control. You should hear a beep to indicate that headless mode is enabled, and the drone indicator light will flash blue. To quit headless mode, press the headless mode button again, and once again you will hear a beep to indicate that headless mode is disabled.

## 12. One Key Return

While flying your drone, press the One Key Return button to start a return flight. The left throttle stick will control the flying height of the drone during the return flight. The drone will travel directly back to the direction coordinate of the remote frequency.

As the drone gets close, you can push the right directional control stick in any direction to exit one key return mode.

NOTE: The drone will fly normally if you are at a height above one foot in the air. This is a common phenomenon called "Wind-up" effect. The lower the drone is to the ground, the more pronounced this effect will be.

## 13. Speed Adjustment

Press the Speed Switch button on your remote to adjust how fast the drone coordinates in response to movement of the control sticks. The drone has three speeds: Low, medium, high. Press the button repeatedly to toggle between speeds.

## 14. 360° Flips

While flying, make sure that the speed is set to high, and the drone is flying at a height of at least 3 meters. Press the 360° Flip button and the right directional control stick to make your drone do a 360° flip and roll in the same direction.

## 15. Adjusting the Trim

Press the trim button to make minor adjustments in the direction the aircraft flies.

For example, if the drone was tilting forward and take off, press the trim button and you have a balancing point, and then adjust the right directional control stick in the opposite direction. In this case straight down and the drone straightens and is more balanced.

## Additional Important Safety Notes

Owners of a drone that weighs more than 0.55 lbs. (250 g) and less than 55 lbs. (25 kg) must register their UAV (unmanned aircraft system) online at the FAA website.

<https://www.faa.gov/uas/registration>

After receiving the certificate of registration, an unique FAA registration number will be provided and it must be marked on the Drone by any means, such as permanent marker, ink, engraving, or other means, as long as the number is readily accessible and maintained in a condition that is readable and legible upon close visual inspection.

### Drone Safety Tips

- Register your drone.
- Fly your drone at or below 400 feet.
- Keep your drone within your line of sight.
- Be aware of FAA Airspace Restrictions.
- Respect privacy.
- Never fly near other aircraft, especially near airports.
- Never fly over groups of people, public events, or stadiums full of people.
- Never fly near emergencies such as fires or hurricane recovery efforts.
- Never fly under the influence of drugs or alcohol.

### Vivitar One Year Warranty

This warranty covers products that fail to function properly UNDER NORMAL USAGE, due to defects in material or workmanship. Your product will be repaired or replaced at no charge for parts or labor for a period of one year.

What Not Covered by Warranty: Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but not limited to, but not restricted to, tampering, modification or accident.

To obtain Vivitar Service and Troubleshooting Material: Call 1-800-959-5613 or visit our website at [www.vivitar.com](http://www.vivitar.com).

To receive Warranty Service along with the name and address of an authorized product service center, the original consumer purchase must contain a return problem description and service procedure. Proof of purchase in the form of a bill of sale or receipt is required, indicating that the product is within the warranty time period. Warranties are presented in order to obtain the return service. It is your responsibility to properly package and send any defective products along with a dated proof of purchase, a written description of the problem, and a valid return address to the authorized service center at your expense. Do not include any other items or accessories with an defective product. Any products exceeding the authorized service center that are not covered by warranty will be returned unopened.

## FCC Compliance Statement


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

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.

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 any 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.



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