360 SKY VIEW
VIDEO DRONE

GPS
FOLLOW ME
TECHNOLOGY

DRC-888/X-98
USER'S MANUAL

## PRE-FLIGHT CHECKLIST

Before attempting to fly your drone, make sure that you have done all of the following:

- [ ] **Inserted 4 AA Batteries In Your Remote**
  See page 7 of this manual for more information.
- [ ] **Charged Your Drone's Battery**
  See page 8 of this manual for more information.
- [ ] **Check That the Propellers are Firmly Attached**
  See page 21 of this manual for more information.
- [ ] **Calibrated Your Drone with the Remote Control**
  See page 9 of this manual for more information.
- [ ] **Calibrated Your Drone's Gyroscope**
  See page 9 of this manual for more information.
- [ ] **Completed the Compass Calibration Process**
  See page 9-10 of this manual for more information.
- [ ] **Unlocked Your Drone**
  See page 11 of this manual for more information.

**WARNING!**
Failure to calibrate your drone before flight can lead to uncontrollable flight, injury and potential damage to your drone. Always fly carefully!

For more information and instructional videos about your drone, scan the QR code to the right.



## 1. Introduction

Thank you for purchasing the Vivitar 360 SkyEYEview Video Drone, item DRC-888. The included remote controlled aircraft 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

- 2.4Ghz Remote Control System and Wifi Control
- GPS Technology
- Follow Me Technology
- Full HD 360 Camera with Live Video Feed, Real Time Transmission
- One Key Takeoff/One Key Landing
- 20 MPH
- 100Ft Range



## 3. Important Safety Precautions

When using your Vivitar 360 SkyEYEview Video Drone, basic safety precautions should always be followed, including the following:

1. Do not allow children or the infirm to operate your drone without adult supervision. For safety purposes, any older experienced pilots aged 14 and up fly your drone.

2. To avoid choking hazards, keep all small parts and pieces away from children.

3. Your drone is not a toy. Makes sure that it is properly assembled before use, and operated safely.

4. 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 safe, open space and environment. Avoid flying your drone directly above people or animals. Maintain a 7ft (2m) distance from the aircraft when taking off and landing.

5. 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.

6. Beginner and novice level pilots should practice flying with experienced pilots until suitably experienced in flight.

7. To ensure safety, only use the included parts when using your drones.

8. Make sure to keep your ears and eyes protected when using your drone. When your drone's blades are spinning, make sure to keep people and objects at a distance from rotating parts.

9. Keep your drone away from excessive heat or flames, especially while charging the battery.

10. 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 speaker for further information.



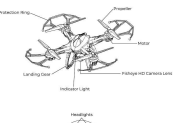
## 4. Package Contents

## 5. Specifications

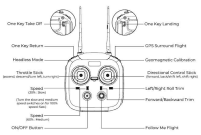
Weight: 70g
Battery: 7.4V Lithium Polymer Battery
Flight Time: 7 minutes
Diameter: ~150mm
Charging Time: ~3 hours
Flying Time Per Charge: ~10 minutes



## 6. A Quick Look at Your Drone

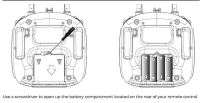


## 7. A Quick Look at Your Remote Control






## 8. Inserting Batteries Into Your Remote



Use a screwdriver to open up the battery compartment located on the rear of your remote control.

Insert 4 AA 1.5V batteries, making sure that the batteries are inserted with the correct polarity (+/-) as displayed in the battery compartment.

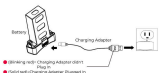
Once the batteries are inserted, put the battery compartment cover back on the battery compartment, and use a screwdriver to close it securely.

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



## 9. Charging Your Drone's Battery

Use the included charging adapter to charge your drone's battery.




Charging takes about five hours to complete.

It is recommended to use a 5V 1.2A charger (not included) to charge your battery. Do not boost the charger unattended in the presence of children.
Do not charge the battery for more than 8 hours.
While charging your battery, keep it away from flammable materials.
When the quadcopter's battery is on low power and cannot fly the power switch of quadcopter must be turned off.

Once your battery is fully charged it can be inserted directly into the battery slot on the underside of your drone.

## 10. Calibrating Your Drone (Preparing for Flight)

To power on your drone, slide the ON/OFF button on the bottom of your drone to the ON position. Once your drone and remote control are powered on, follow the calibration steps below in order to prepare your drone for flight.

**Calibrating Your Drone with Your Remote Control**
-Pull the throttle stick all the way down and then push it all the way up.

-When the LED lights on the rear legs of your drone are solid blue and the LED lights on the front legs of your drone are solid red then your drone is synchronized with your remote control and ready to fly.

-When the LED lights on the rear legs of your drone are solid green and the LED lights on the front legs of your drone are solid red then your drone is in GPS mode.

**Calibrating Your Drone's Internal Gyroscope**
Calibrate your drone's internal gyroscope to ensure smooth and balanced flight. Before you start, make sure your drone is placed on a flat, stable surface.

-Pull the throttle stick and the directional stick all the way down and to the left simultaneously. Release them after about 2-3 seconds.

-The LED lights on the rear legs of your drone will turn blue and green and start blinking rapidly. The LED lights on the front legs of your drone will turn red and start blinking rapidly while synchronizing.

-The LED lights on the rear legs of your drone will turn solid blue, and the LED lights on the front legs of your drone will turn solid red to indicate that your drone's internal gyroscope is calibrated.

**Aircraft Compass Calibration**
The aircraft compass calibration allows your drone to be tracked over GPS. Before you start, make sure your drone is placed on a flat, stable surface.

-Press the gyromagnetic calibration button on the remote control.

-Rotate your drone horizontally, spinning it in a clockwise direction. Continue rotating your drone until the rear legs of your drone will solidly shine red, after the light on the back legs of your drone will solidly shine green.

-Turn the head downwards and rotate your drone vertically, spinning it for 2 revolutions. When you see green lights shining solidly, calibration is complete.

When flying your drone in GPS mode, make sure you are in a wide open space.
Do not calibrate your drone's compass near large metallic objects.
When calibrating, do not carry ferromagnetic materials such as keys or cell phones.
Do not calibrate near large sheets of metal.



## 11. Locking and Unlocking Your Drone

**Unlocking Your Drone**
With your drone in a level position, push the throttle stick all the way up and the yaw stick to the right simultaneously for 2 seconds. The motor will stop and your drone will be locked in place.

**Locking Your Drone**
With your drone in a level position, push the throttle stick all the way down and the yaw stick to the left simultaneously for 2 seconds. The motor will stop and your drone will be locked in place.

## 12. Flying Your Drone

**Pre-Flight Preparation**
If you have never used a drone before and you are not an experienced pilot, make sure to read through these instructions before flying. Get familiar with all of the controls. If necessary, read through these instructions more than once and practice translating the remote control and you feel completely comfortable and ready.

1. Pave your drone in a clear, open field. Make sure that it is resting on a secure, flat surface.
2. Practice using the throttle stick and the directional control stick (see below).
3. By simulating 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.

| | | |
|---|---|---|
| Ascend & Descend | Push the throttle stick upwards and the drone will ascend.<br>Pull the throttle stick downwards and the drone will descend. | |
| Forward & Backward | Push the directional control stick upwards and the drone will tilt upwards, causing it to move forward. Push the directional control stick downwards and the drone will tilt upwards, causing it to move backwards. | |
| Turn | Slide the throttle stick to the left, and the drone will rotate to the left, turning it to the left. Slide the throttle stick to the right and the nose of the drone will turn to the right. | |
| Slide Left & Slide Right | Slide the directional control stick to the left and the entire body of the drone will slide to the left.<br>Slide the directional control stick to the right and the entire body of the drone will slide to the right. | |



## 13. One Key Takeoff & Landing

Once your drone is unlocked, you can press the one key takeoff button and the drone will automatically hover 1.5 meters above the ground.

By pressing the one key landing button, your drone will automatically land on the ground.

## 14. Headless Mode

Headless mode allows users to fly their drone without worrying about the drone's orientation. Regardless of the direction that the nose of the drone is facing, so long as that the drone will always follow controls from your perspective at the time.

To enter headless mode, before your drone takes off, stand in front of your drone and press the headless mode button on your remote control.






## 15. Return Functions

When your drone is properly calibrated to be tracked over GPS, then you can use multiple return functions which allow your drone to return to a specific destination.

NOTES:

1. In order to make sure that your drone can be tracked over GPS, complete the "aircraft compass calibration" process discussed earlier in this manual.
2. You can use the Vivitar SkyEYEview app to view your drone's GPS status.
3. Make sure to fly your drone in clear areas with strong GPS signal in order to use the return to home functions successfully.

**Smart Return Function**
The Smart Return Function returns your drone to the location of your remote control. To activate the Smart Return, make sure that the drone will always follow controls from your perspective at the time.

NOTE: If GPS signal and remote control signal is lost for more than 6 seconds while in Return to Home mode, the drone will descend slowly until it lands on the ground.

**Failsafe Return Function**
If GPS signal and remote control signal is lost for more than 6 seconds while flying, the Failsafe Return Function automatically returns your drone to the origin of its flight. This feature is only available when you begin your flight with a strong GPS signal.

NOTE: When in Failsafe Return mode, your drone is unable to automatically avoid obstacles.



## 16. Follow Me Flight Mode

When your remote control and your drone receive GPS signal, press the Follow Me flight button on the remote control, and your drone will automatically fly to the area covered by the remote control and follow it as it moves around.

When in follow me flight mode, the drone will stay between 4-20 meters of your remote control. Push the directional control stick forward to move the drone further from the remote control. Pull the stick backwards to move the drone closer to control. If the drone gets closer than 4 meters to the remote control, or further than 20 meters away, then press the follow me flight button again to bring your drone back in range.

Follow me flight mode can be used with both your remote control or your phone. If you are using both together your drone will stay within range of your remote control.



## 19. Using the Vivitar SkyEYEview App

**1. Connect Mobile Phone Holder to the Remote Control**

Press the bottom on the side of your phone holder to pull down the hooks so that you can insert your phone in the holder.

Slide your phone into the phone holder so that it rests between the hooks. Push down on the top of your phone holder to hold your phone in place.

Connect the phone holder to the remote control. Make sure that the connection between the two devices slides under the connection clasp on your remote control. Push the clasp down to hold the phone holder in place.

**2. Download the Vivitar SkyEYEview App**
Go to the App Store or Google Play store and search for the Vivitar SkyEYEview app. Follow the instructions to download and install the app. You can also scan the applicable QR code below.

Google Play QR Code

App Store QR Code

**3. Using Wifi to Connect the Drone to Your Phone**
-Power on your drone. LED lights will illuminate to indicate that it is powered on.
-On your mobile phone, find the Wifi Settings menu. Select the network labeled SKYE WiFi xxxxx and enter the default password: 12345678.
-Open the Vivitar SkyEYEview application on your phone. Press the "SNS OFF" option on the menu screen in order to open the control interface.

## 17. GPS Surround Flight Mode

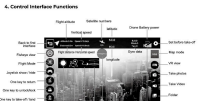
When your remote control and your drone receive GPS signal, press the GPS Surround Flight button on the remote control, and your drone will automatically fly in circles around the remote.

When in GPS Surround Flight, push the directional control stick to the left and the drone will fly in counterclockwise circles. Push the directional control stick to the right and the drone will fly in clockwise circles. Push the stick forward to enlarge the radius of the circle or pull it backwards to shrink the diameter of the circle.

## 18. Emergency Stop Function

If your drone is flying abnormally press the one key return button and the GPS surround flight buttons on your remote control simultaneously to trigger an emergency stop.

**4. Control Interface Functions**






**5. Menu Screen Options**

Tap "Take Off" to access the control interface.

Tap "Photos and Videos" to view photos and videos recorded with your drone's camera.

For more information on using your app, tap "Instructions"



## Troubleshooting

**Problem: During calibration, the red lights on the front legs as well as green and blue lights on the rear legs flash slowly.**

Solution: The drone and remote control are not recognizing each other. Turn both units off, turn them back on and then try calibrating your drone and remote control again.

**Problem: The drone is not connecting to GPS.**

Solution: There may not be a strong enough GPS signal available. Try moving outside to a clear, spacious area. Then restart and the compass calibration process.

**Problem: The drone won't unlock.**

Solution: The drones battery may be drained. Try replacing or recharging the battery. Also, the remote control and the drone may not be synchronized. Try turning both off and then try reconnecting them.



## Remote Control Light Indicators

**The green light is flashing slowly**
The remote control is still calibrating.

**The green light is flashing slowly while the remote is making repeated beeping sounds.**
The remote control's battery is low or power and need to be replaced.

**There is a red light flashing slowly while the remote is making repeated beeping sounds.**
The remote control is not connected to GPS.

**There is a red light shining steadily.**
The remote control is connected to GPS.



## Replacing Your Propeller Blades

Remove the cap covering the propeller.

Unscrew the propeller so that your current propeller can be removed and replaced with a new one.

Screw the new propeller on and then place the cap back on the propeller.





## FCC Compliance Statement

Changes or modifications not expressly 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 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.

## Vivitar One Year Warranty

This warranty covers the original consumer purchaser only and is not transferable.

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

**What Is 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 limited to, repair by unauthorized parties, tampering, modification or accident.

**To Obtain Warranty Service and Troubleshooting Information:**
Call 1.800.592.1164 in the U.S. or visit our website at www.vivitar.com.

To receive Warranty service along with the name and address of an authorized product service center, you must call or visit our website prior to returning the product for warranty service. Follow all instructions. Proof of purchase in the form of a bill of sale or receipted invoice, evidencing that the product is within the applicable Warranty period(s), MUST be presented in order to obtain the warranty service. For Warranty service, return the product only as directed to the authorized center, along with a dated copy of proof of purchase, a written explanation of the problem, and a valid return address to the authorized service center at your expense. Do not include any other items or accessories. Vivitar is not responsible for any items returned to the authorized service center that are not covered by warranty will be returned unreviewed.

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