

# ***NIGHT HAWK***

Hexacopter Drone with Wi-Fi Camera



**User's Guide for Model DRW557 v1945-02**



# Warnings & Precautions

## Important Safety Instructions

- Read and follow all instructions.
- Keep these instructions for future reference.
- Heed all Warnings.
- Intended for children ages 14 and higher. Adult supervision is required.
- Only use attachments/accessories specified by the manufacturer.
- Before flying, always check the body, rotors, and battery for any damage or obstructions.
- Battery should be free from cracks or swelling.
- Keep the rotors clear of any obstructions and body parts to avoid potential damage and injury.
- Manufacturer and dealer assume no liability for accidental damages from improper use or installation of parts, or from damage incurred from worn or broken parts.
- Pilots are responsible for their actions and any damage caused from improper use.
- Pilots should keep the craft in sight at all times during flight. If you lose sight of the craft at any time, power down and cease flight immediately.
- Only fly in large, open areas that are free from obstacles or potential hazards, such as trees, power lines, ceiling fans, and the like.
- Flying over bodies of water is not recommended.
- Flying at night is not recommended.
- Never try to retrieve the craft from areas you cannot safely reach, such as rooftops or trees.
- Never launch the craft from your hand.
- Never leave the craft unattended while it is powered on or while the battery is charging.

## FCC Warnings

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

NOTE: 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.

## Additional Warnings & Precautions

- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain, moisture, dripping, or splashing.
- **CAUTION:** Use of controls or adjustments or performance of procedures other than those specified may result in personal injury.
- **WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Lithium batteries, like all rechargeable batteries, are recyclable and should be recycled or disposed of according to state and local guidelines. They should never be disposed of in normal household waste, and they should never be incinerated, as they might explode. Contact your local government for disposal or recycling practices in your area.
- **WARNING:** Shock hazard - Do Not Open.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Do not mix old and new batteries.
- Completely replace all old batteries with new ones.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries.
- Batteries should be recycled or disposed of as per state and local guidelines.
- This product meets and complies with all Federal regulations.



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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# NIGHT Hawk Drone

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## Features

- 360° flips & tricks
- 6-axis gyroscope
- Free app for Wi-Fi flight
- Voice activation
- Adjustable angle Wi-Fi camera
- 3 speeds
- Control distance: up to 300 feet
- LED navigation lights
- Glow in the dark rotors
- Operating time: 6-8 minutes
- Charge time: 120 minutes

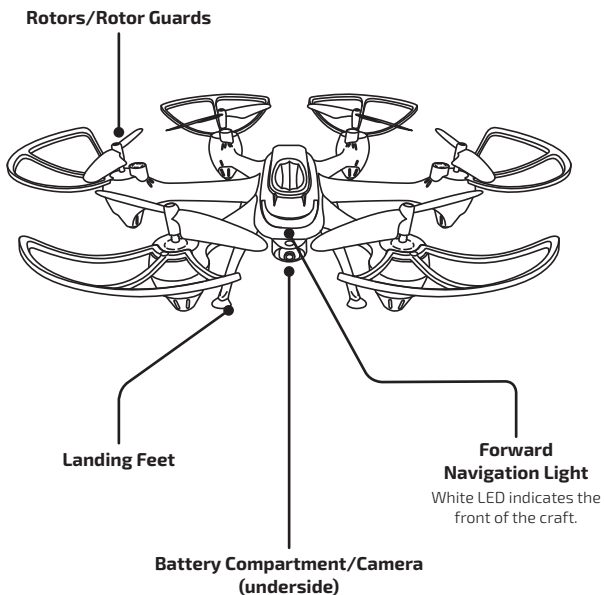
## Includes

- 2.4GHz remote control: requires 4 AAA batteries (not included)
- Rechargeable lithium polymer battery
- 6 replacement rotors
- Detachable smartphone cradle
- Screwdriver
- User's Guide



# Overview

## Craft Layout & Features



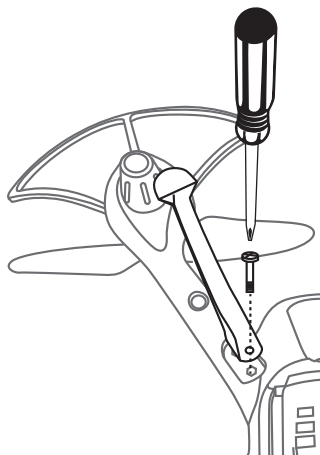
# Assembly

## Landing Struts



x4

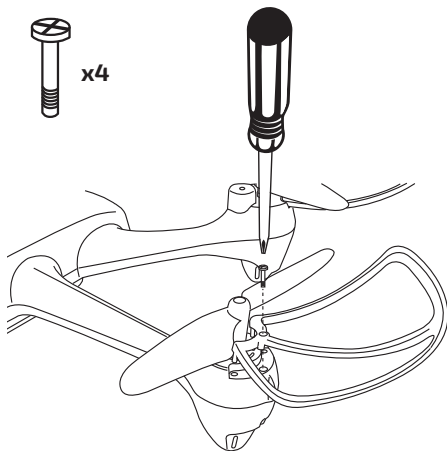
Place each landing strut on the underside of the craft as shown, then tighten down with a screw and the included screwdriver.



## Rotor Guards



x4



Attach each rotor guard as shown, then tighten down with a screw in the center location using the included screwdriver.

# Remote Control

## Functions

### Headless Mode/ Reset

Press to turn Headless Mode ON or OFF.

Press to reset trim settings to default.

### Speed

Press to change speed setting.

### Power/Status Indicator

### Flip

Press once, then move Right Control Stick in any direction to perform a flip.

### Left Control Stick

*Increase Throttle:*  
push forward

*Decrease Throttle:*  
push backward

*Yaw/Spin:*  
push left or right

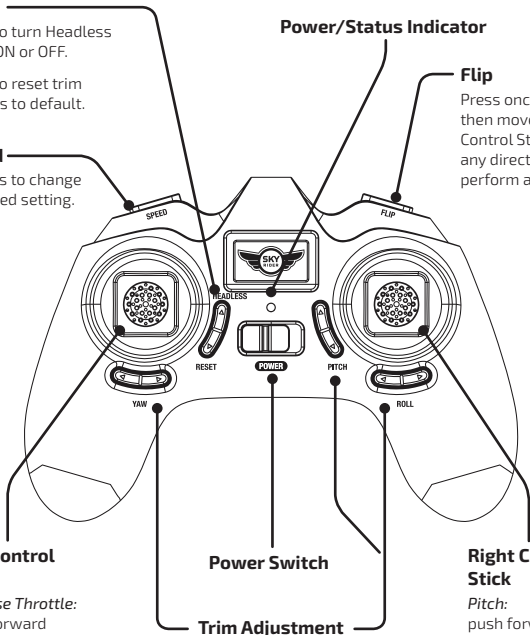
### Power Switch

### Trim Adjustment

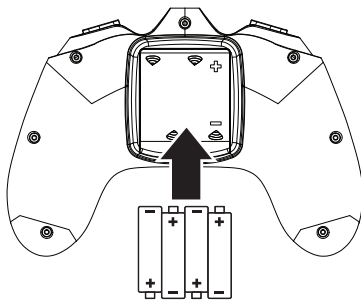
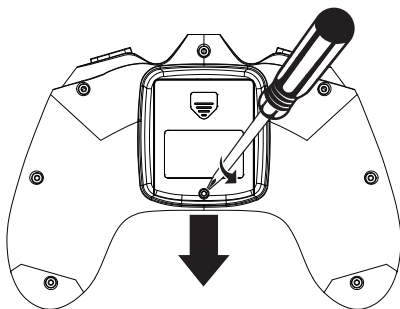
### Right Control Stick

*Pitch:*  
push forward/  
backward

*Roll/Bank:*  
push left/right



## Battery Installation



**4x AAA batteries**

# Charging the Battery

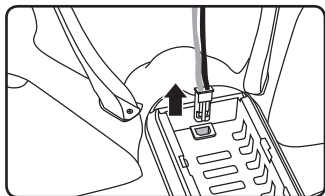
## Information & Procedure

Before charging, be sure the craft and remote control are powered OFF. Failure to do so may result in injury.

**REMINDER: Do not charge batteries overnight. Do not leave the batteries unattended while charging.**

### Step 1

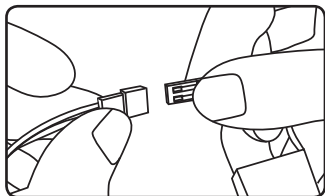
Open the battery compartment and disconnect the battery from the craft.



### Step 2

Attach the plug on the battery to the plug on the USB charging cable (included).

**Be sure to match the plugs correctly or damage may occur.**

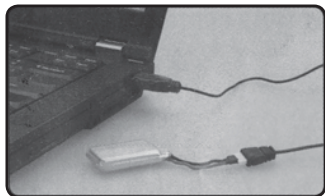


### Step 3

Plug the USB charging cable in to the USB port of a powered ON computer or USB power adapter (not included).

**While charging**, the cable will display a red light.

**When charging is complete**, the light will turn OFF.



# Flying

## Flying & Auto-Hover Mode

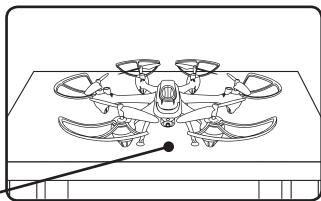
Before flying, the craft and the remote must be linked together and the gyroscopes on the craft must be allowed to calibrate.

**Begin with the battery installed, the battery compartment closed, and the craft and remote powered OFF.**

### Step 1 - Power ON

Power ON the craft and place it on a flat surface. This is necessary for the craft's gyroscopes to properly align. The lights on the craft will blink quickly as it waits for a signal from the remote.

**Be sure the craft and yourself are facing the same forward direction, this will help with orientation while flying.**



### Step 2 - Calibration

Power ON the remote control and wait for it to connect to the craft, a chime will sound and the lights on the craft will begin blinking slowly. Push the **Left Control Stick (throttle)** fully forward and wait for a chime, then pull the stick fully rearward and wait for a second chime. When this last chime has sounded the craft is calibrated and ready to fly.

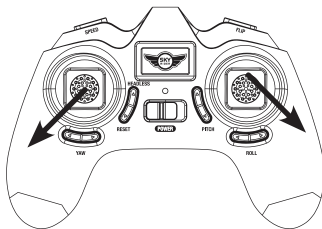
### Step 3 - Take Off

Pull both control sticks down and outwards until the rotors start spinning. This starts the craft and the Auto-Hover feature.

To take off, push up on the **Left Control Stick**. When you release the throttle, the craft will hover in place.

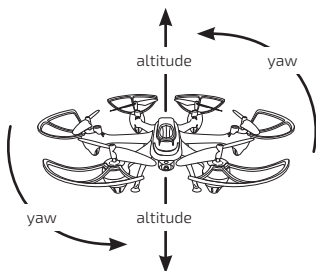
To land, pull down on the **Left Control Stick**. The craft will descend until it detects it has landed and the rotors will stop.

If you are finished flying, pull both control sticks down and outwards again. This stops the craft and Auto-Hover. **Power OFF the remote BEFORE powering OFF the craft** to prevent any signals from being sent by the remote on accident.

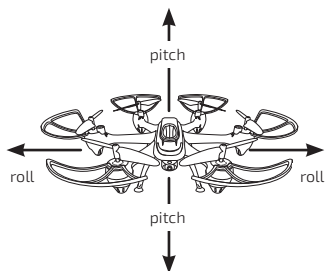


# Flying

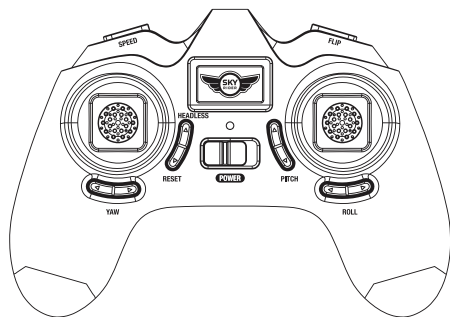
## Flight Controls



**Left Stick** controls  
Altitude and Yaw (spin).



**Right Stick** controls Pitch  
(forward/backward) and  
Roll (left/right).



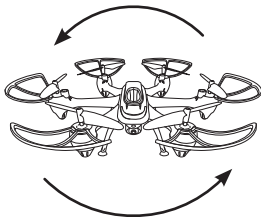
## Setting Trim & Countering Drift

Even after the craft is calibrated, it may show a tendency to drift while airborne. Adjusting the trim will help counter this effect and allow better control of the craft.

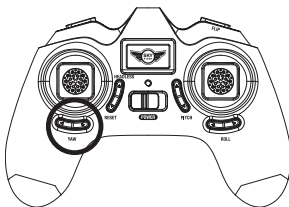
To avoid potential damage, adjust the trim while attempting a stable hover. Try to avoid making any exaggerated movements with the flight controls and adjust one trim setting at a time to avoid confusion.

**Note:** Adjusting the trim will help with drift but it will not entirely eliminate it. Air currents and other factors may still cause slight drift while airborne. Adjusting the trim is meant to correct distinct and obvious drift that makes the craft difficult to control.

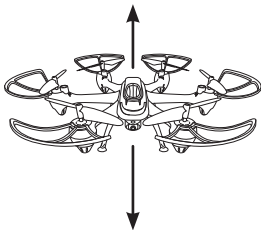
Craft spins left or right.



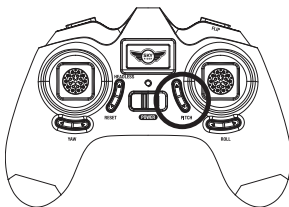
Adjust **Yaw Trim**.



Craft drifts forward or backward.



Adjust **Pitch Trim**.

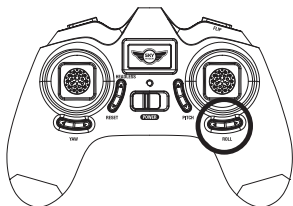


# Flying

Craft drifts left or right.



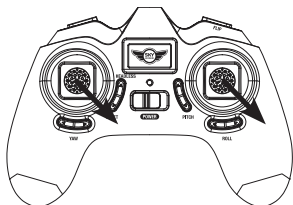
Adjust **Roll Trim**.



## Gyroscope Recalibration

If the craft is experiencing difficulty flying or is behaving erratically, its gyroscopes may need to be recalibrated. Do not attempt to do this while flying, safely land the craft first and place it on a flat surface. The craft and the remote should already be linked together.

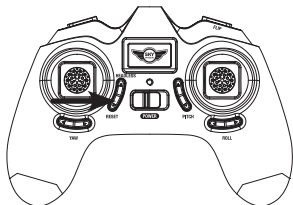
Pull down and to the right on both controls sticks for 2-3 seconds. When the LED lights have stopped blinking and turn solid the recalibration is complete and the craft is ready to fly.



## Remote Trim Reset

If you are still having difficulty flying, it may help to reset the trim controls on the remote. Do not attempt to do this while flying, safely land the craft first.

Press the **Reset** button on the remote. The remote will chime once to indicate that the trim has been reset to default.



## Tips for Safe Operation

- It is recommended to only fly in large, open spaces that are free of obstacles like power lines, trees, ceiling fans, etc.
- When flying indoors, avoid walls and ceilings, as the craft will be drawn towards them if closer than 2-3 feet.
- Stand behind the craft when first taking off, so that you and the craft are facing the same "forward" direction. This will help with orientation when the craft is airborne.
- Novice pilots should move the controls slowly and deliberately to get used to the craft's flying characteristics. Try using one control at a time.
- Practice basic flight operations like take off, hovering, and landing.
- If you crash, power down the engines IMMEDIATELY to reduce the chance of damage or injury.
- If anything obstructs the propellers for any reason, throttle down IMMEDIATELY and safely clear the obstruction. Check for possible damage before flying again.

## Speed Setting

Press the **Speed** button on the remote to change the craft's speed setting.

- **Low:** Provides smooth and predictable control of the craft. The remote will chime once to indicate the low speed setting.
- **Medium:** The craft will move and respond faster to all control inputs. The remote will chime twice to indicate the medium speed setting.
- **High:** Highest setting for maximum performance. The remote will chime three times to indicate the high speed setting.

## Headless Mode

While Headless Mode is active the craft will fly in whatever direction the **Right Control Stick** is pushed, regardless of where the front of the craft is pointing. For example, if the front of the craft was pointed straight ahead but is now pointed right 90°, when you push forward on the stick the craft will fly forwards as if it was still pointed straight ahead. This can be useful if you become disoriented while flying and cannot visually determine which direction the craft is facing.

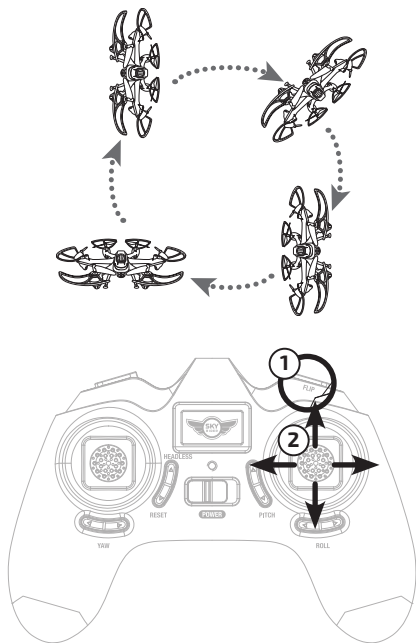
Before using Headless Mode be sure you and the craft are facing the same "forward" direction, otherwise the craft will not fly correctly. To activate Headless Mode, press the **Headless button** on the remote control. The LED lights will slowly flash while Headless Mode is ON. Press the button again to deactivate Headless Mode.

# Flying

## Flips

Before attempting a flip, be sure that there is ample clear space around the craft, ideally 9-10 ft. in all directions. It is not recommended to attempt to flip around or through any obstacles, as this may result in unintended damage.

Press the **Flip button** to activate Flip Mode, then move the Right Control Stick in any direction and the craft will perform a flip in the same direction. Press the **Flip button** again to deactivate without performing a flip.



# Wi-Fi Flight

## Sky Rider App Download

Scan the appropriate QR code with your smartphone to download the app to your phone. You can also search for "Sky Rider Vox" in the Apple App Store or Google Play Store.

**NOTE:** Wi-Fi control may be interrupted by interference from other nearby Wi-Fi equipment.



Apple



Android

## Connect Wi-Fi & Open App

Before beginning, make sure your phone's Wi-Fi is ON.

- Insert and connect the battery, then power ON the craft and place it on a flat surface.
- From your smartphone, open the Wi-Fi settings menu, then search for and select **Sky Rider Vox** to connect to the craft.
- Once connected, open the app. You will see the Home screen pictured below.

IMPORTANT: If you would like to fly using a mobile device, power"OFF" the remote control.  
Does your drone have Altitude Hold?  
If not turn off Altitude Hold in the Settings menu.

**SKY RIDER**



### 1. Help

Press for more detailed information on the app.



### 2. Settings

Customize control settings for the app.

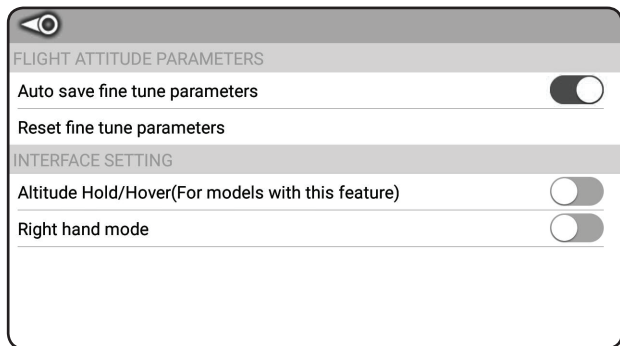


### 3. Play

Press to begin using the app and fly the craft.

# Wi-Fi Flight

## Settings Screen



### Auto Save Fine Tune Parameters

Trim settings adjusted in the app will be saved for future flights. *Be sure to reset the parameters before flying a different craft with the app.*

### Reset Fine Tune Parameters

Reset trim settings to default.

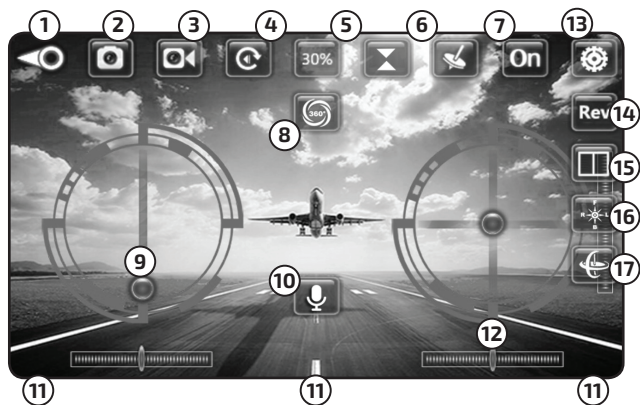
### Altitude Hold/Hover (applies to this model)

Enables Altitude Hold/Hover controls for the app.

### Right Hand Mode

Reverses the locations of the Left and Right flight controls on the screen.

## Flight Screen & Controls



- |                           |                                     |                           |
|---------------------------|-------------------------------------|---------------------------|
| 1. Back to Home Screen    | 8. Flip                             | 14. Flip Camera View      |
| 2. Photo                  | 9. Flight Controls                  | 15. VR Mode               |
| 3. Video                  | 10. Voice Commands ON/OFF           | 16. Headless Mode         |
| 4. Photo/Video Gallery    | 11. Auto-Hover Controls             | 17. Gyroscope Calibration |
| 5. Speed Setting          | 12. Trim Settings                   |                           |
| 6. Intuitive Mode         | 13. Additional Settings (see 14-17) |                           |
| 7. Flight Controls ON/OFF |                                     |                           |

**Intuitive Mode** uses the G-Sensor in your phone to control the craft. Tilt the phone forward, back, left and right to control the **pitch and roll** of the craft. **Throttle and yaw** are still manually controlled from the **Left Directional Control**.

### Camera & Video

Use the **Photo and Video buttons** to document your flight. Images and video are saved to your phone and can be viewed later by pressing the **Gallery button**.

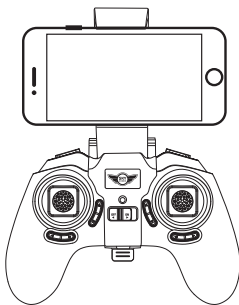
# Wi-Fi Flight

## Using the Remote & App Together

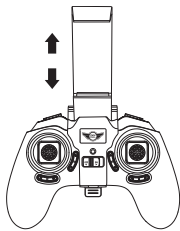
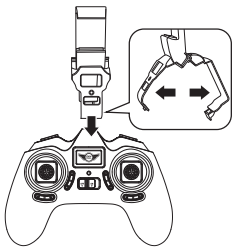
Use the app and the remote together by attaching the smartphone holder (included) to the remote and placing your phone in the holder.

Follow the steps below to connect to the remote and the app in the proper sequence.

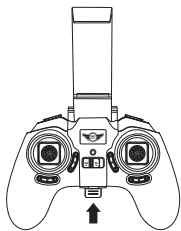
- **First, connect the remote to the craft like normal.** Connecting the remote first overrides any control signals from the app.
- Next, use your phone to connect to the craft's Wi-Fi. Open the app and go to the Flight Screen.
- **Use the controls on the remote** to fly the craft while the Wi-Fi camera streams to your phone.
- When you're finished flying, power down the remote and craft like normal.



## Attachment



## Removal



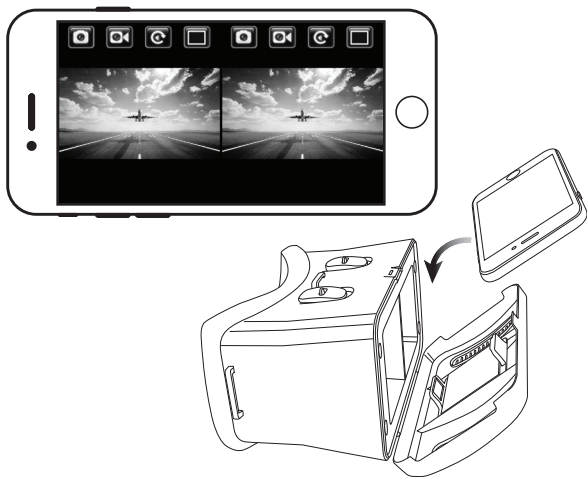
Push tab to release

## Virtual Reality Mode

VR Mode splits the phone's screen for use in a VR headset. **Press the VR button** on the screen to turn this feature ON or OFF. Use VR Mode to give a friend a fully immersive, point-of-view flying adventure.

### NOTE:

- On screen flight controls are locked out in VR Mode. You must have the regular remote connected in order to fly the craft.
- **We do not recommend flying the craft while wearing a headset.** The craft's camera has a limited forward view and the headset will completely obscure the user's peripheral vision and situational awareness. **Pilots assume all risk and are responsible for any damage caused by improper use.**



# Parts & Repair

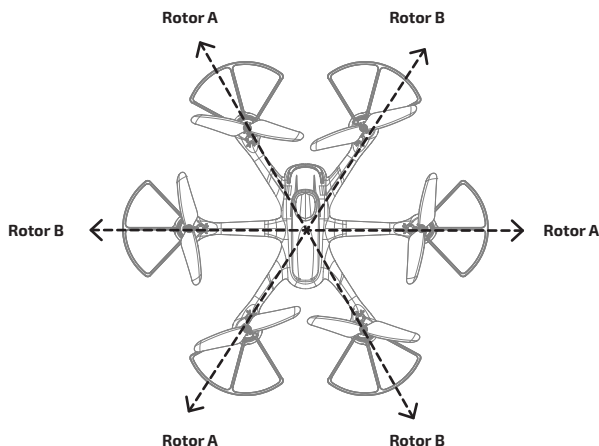
**REMINDER:** Pilots are responsible for any damage caused by improper use.

## Parts Replacement

Standard parts such as extra batteries and remotes are available online for purchase when in stock. However, any non-standard parts such as cameras, screws, bodies, SD cards etc. can be ordered by placing an inquiry with our parts department at: [partsinfo@dpiinc.com](mailto:partsinfo@dpiinc.com).

## Rotor Replacement

The craft comes with replacement rotors if the originals are broken or badly damaged. Use the included screwdriver to loosen and tighten the screw connecting the rotor to the motor shaft. **It is extremely important to use the correct rotor (A or B) for replacement.** Using the incorrect rotor will make the craft impossible to control. The marking can be found on the rotor and on the top of the craft body near the motor.



# Troubleshooting

## Troubleshooting Guide

| PROBLEM                                                      | POSSIBLE CAUSES                                                                                                                                             | SOLUTION                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Craft does not respond to controls.</b>                   | <ul style="list-style-type: none"><li>• No power to remote or craft.</li><li>• Poor contact between power plugs.</li><li>• Craft is out of range.</li></ul> | <ul style="list-style-type: none"><li>• Check remote batteries, replace if needed.</li><li>• Check craft battery, be sure it is fully charged.</li><li>• Be sure the power plugs are firmly connected.</li><li>• Be sure the remote has an unobstructed line of sight to the craft.</li><li>• Remain within the remote's 300 ft. range.</li></ul> |
| <b>Craft is difficult to control or flies erratically.</b>   | <ul style="list-style-type: none"><li>• Gyroscopes may be misaligned.</li></ul>                                                                             | <ul style="list-style-type: none"><li>• Power OFF remote and craft and reconnect (see pg. 11).</li></ul>                                                                                                                                                                                                                                          |
| <b>Craft drifts while in flight.</b>                         | <ul style="list-style-type: none"><li>• Trim not set or needs adjustment.</li></ul>                                                                         | <ul style="list-style-type: none"><li>• Adjust trim settings (see pg. 13).</li></ul>                                                                                                                                                                                                                                                              |
| <b>Craft suffers from mechanical trouble.</b>                | <ul style="list-style-type: none"><li>• Damage to body, rotors or other major components.</li></ul>                                                         | <ul style="list-style-type: none"><li>• Repair or replace parts as needed.</li></ul>                                                                                                                                                                                                                                                              |
| <b>LED lights ON but craft does not respond to controls.</b> | <ul style="list-style-type: none"><li>• Low battery power.</li></ul>                                                                                        | <ul style="list-style-type: none"><li>• Recharge the battery.</li></ul>                                                                                                                                                                                                                                                                           |

# Customer Support

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## Contact Information

Website: [www.gpx.com](http://www.gpx.com)

Email Support: [prodinfo@dpiinc.com](mailto:prodinfo@dpiinc.com)

Email Parts: [partsinfo@dpiinc.com](mailto:partsinfo@dpiinc.com)

Phone Support: 1-888-999-4215

## Warranty

See included 30 Day Warranty for warranty information. Warranty and the most up-to-date version of this User's Guide can also be found at: [www.gpx.com](http://www.gpx.com)

## International Support

To download this User's Guide in English, Spanish, and French, or to get answers to frequently asked questions, visit the support section at: [www.gpx.com](http://www.gpx.com)

Para descargar este Manual del Usuario en inglés, español y francés, o para obtener respuestas a preguntas frecuentes, visite la sección de apoyo en: [www.gpx.com](http://www.gpx.com)

Pour télécharger ce guide de l'utilisateur en anglais, espagnol ou français, ou pour obtenir des réponses à des questions fréquemment posées, consultez la rubrique d'assistance sur: [www.gpx.com](http://www.gpx.com)



***Protect for Today  
Sustain for Tomorrow***

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