

CONDOR PRO

Quadcopter Drone with Wi-Fi Camera



User's Guide for Model DRW876 v1562-04

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.
- **WARNING:** This product may contain chemicals known to the State of California to cause birth defects, or other reproductive harm (California Prop 65). Wash hands after handling.
- This product meets and complies with all Federal regulations.

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FAA Registration

As of December 21, 2015, the U.S. Federal Aviation Administration (FAA) has mandated that all Unmanned Aircraft Systems (UAS) of a certain weight must be registered with the FAA before flying outdoors. This includes aircraft commonly referred to as drones, quadcopters, Unmanned Aerial Vehicles (UAV), and the like.

Which UAS Must Be Registered?

The Online Registration requirement applies to all UAS that weigh between 0.55 lbs. (250g) and 55 lbs. (25kg).

The Sky Rider Condor Pro meets this requirement, and must be registered, with the Registration Number permanently affixed to the craft.

Who Can Register?

- Anyone 13 years of age or older. A person who does not meet this age requirement must have their UAS registered by someone 13 years of age or older.
- A US citizen or legal permanent resident.

What Do You Need to Register?

When registering online, you will need:

- A valid email address
- A Credit or Debit Card
- A physical and mailing address (if different from physical address).

Additional Info

For the latest information on the FAA and the registration process, visit:

- **FAA Home Page** - <http://www.faa.gov/>
- **UAS Registration Page** - <http://www.faa.gov/uas/registration/>
- **UAS Registration FAQs** - <http://www.faa.gov/uas/registration/faqs/>

Rotors & Auto-Hover

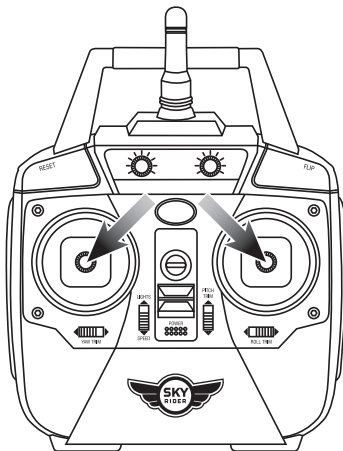
CAUTION

There is a delay between pulling the throttle to the OFF position and the motors actually powering down, **you must hold the throttle in the lowest position and wait for the rotors to stop.** This is normal for the operation of the craft and the Auto-Hover feature but extra care needs to be taken to reduce the risk of injury or damage.

DO NOT POWER OFF THE REMOTE WHILE THE CRAFT IS ON AND THE ROTORS ARE SPINNING. This will not immediately stop the rotors from spinning and you will be unable to otherwise control the craft.

Emergency Stop

To quickly stop the motors, pull and hold both thumbsticks down and outwards as shown. This is an emergency measure and is not recommended as the primary method for landing or stopping the craft.



Condor Pro Quadcopter Drone

Features

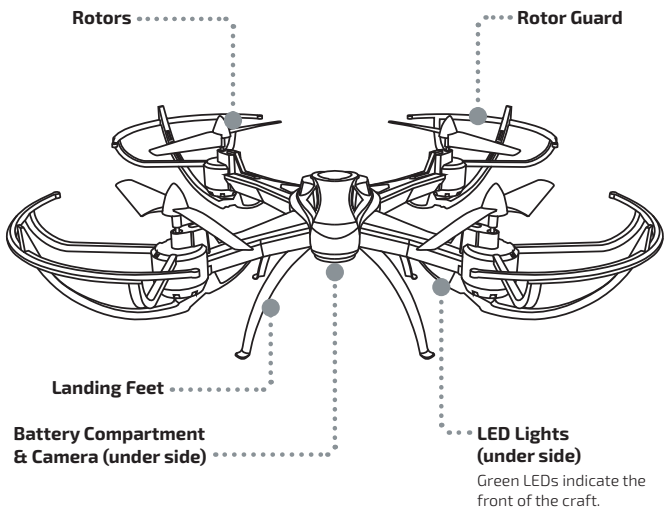
- 360° flips & tricks
- 6-axis gyroscope
- 3 speed settings
- Control distance: up to 300 ft.
- LED navigation lights
- Free app for Wi-Fi flight
- Wi-Fi camera
- Operating time: 6-8 min.
- Charge time: approximately 150 min.

Includes

- Remote control: requires 4 AA batteries (not included)
- 1 rechargeable lithium polymer battery
- AC/DC power charger for battery recharge
- 4 replacement rotors
- Screwdriver
- Detachable smartphone cradle
- 4 Landing skids
- Detachable motorized camera

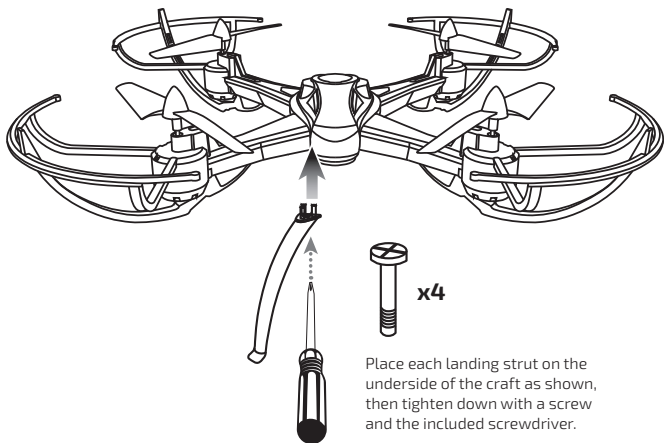


Overview



Assembly

Attach Landing Skids (x4)



Attach Camera

Align tabs on the camera to the slots on the underside of the body and push forward.



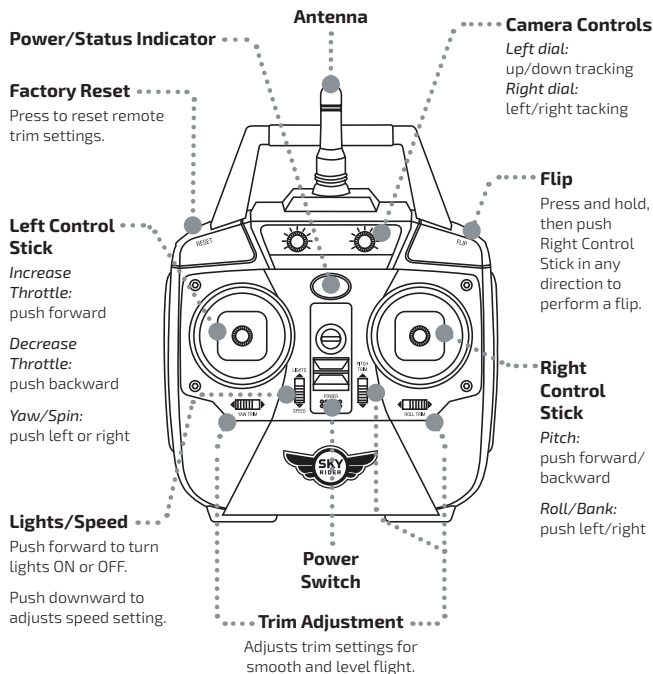
Connect power and data cables on the camera to the corresponding plugs on the craft.

Be sure to align plugs correctly or damage may occur.



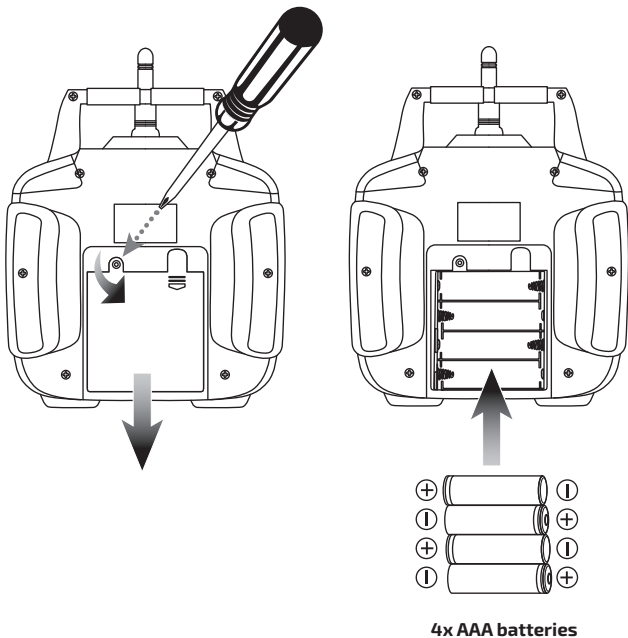
Remote Control

Layout & Functions



Remote Control

Battery Install



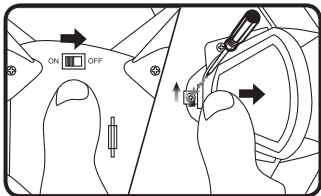
Battery Charging Procedure

The craft's battery must be charged before it can be flown. Before charging, be sure the craft and remote control are powered OFF. Failure to do so may result in injury.

REMINDER: Do not charge overnight. Do not leave unattended while charging.

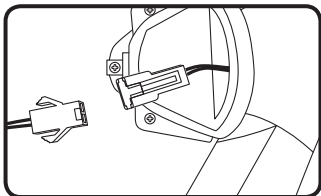
Step 1

Make sure the craft is powered OFF, then remove the battery cover.



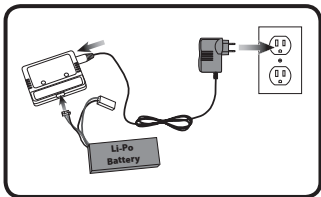
Step 2

Disconnect the power plugs connecting the battery to the craft. **It is strongly recommended to remove the battery from its compartment when charging.** This will reduce the chance of damage or injury.



Step 3

Plug the power adapter in to a standard wall outlet and connect it to the included battery charger.



Battery Charging Procedure

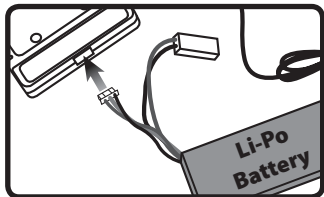
Step 4

Attach the charging plug on the battery to battery charger. The battery will now charge.

While charging, the charger will display a red light.

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

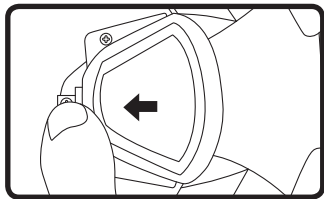
Be sure to match the plugs correctly or damage may occur.



Step 5

When charging is complete, reinstall the battery in its bay, reconnect the power plugs from the battery to the craft, and close the battery cover.

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



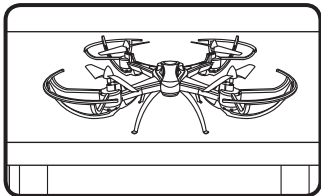
Flying

Craft/Remote Link

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

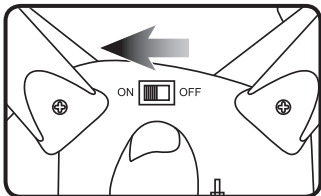
Step 1

Begin with the craft and remote powered OFF and place the craft on a flat, level surface. **This is necessary for the craft's gyroscopes to properly align.**



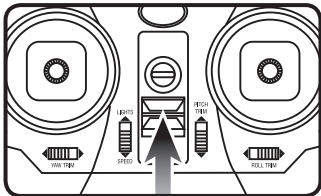
Step 2

Power the craft ON. The LED lights will blink in unison as the craft searches for a signal from the remote.



Step 3

Power ON the remote. The light on the remote will blink as it searches for the signal from the craft. An audible chime will sound when the remote and the craft have linked with each other.

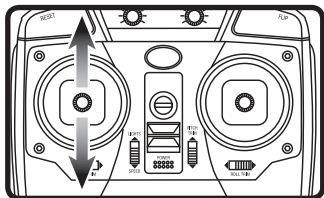


Flying

Step 4

Push the **Left Control Stick (throttle)** fully forward, wait for a chime, then pull the stick fully rearward and wait for a second chime.

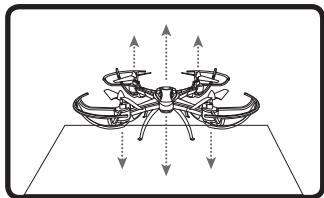
When this last chime has sounded the craft is ready to fly and the rotors should automatically begin spinning.



Step 5

Use the Left Control Stick to take off and control the throttle and Yaw (spin) movement of the craft. When you release the stick, it will return to the neutral, middle position and the craft should maintain its current altitude.

Use the Right Control Stick to control the Pitch (forward/backward) and Roll (left/right) movement of the craft.



Landing & Powering Down

To land and power OFF, pull down and hold the Left Control Stick until the rotors have stopped spinning.

When the rotors have stopped spinning, power OFF the remote BEFORE powering OFF the craft. This will ensure that no signals are accidentally sent by the remote, reducing the chance of injury. After this is done, it is safe to pick up and power OFF the craft.

REMINDER:

Pulling down on the throttle does not immediately stop the rotors from spinning, you must hold the throttle in the lowest position and wait for the rotors to stop.

To quickly stop the rotors, pull both thumbsticks down and outwards. **This is regarded as an emergency procedure and it is not recommended to perform this action while the craft is in flight.**

Trim Adjustment

Setting Trim & Countering Drift

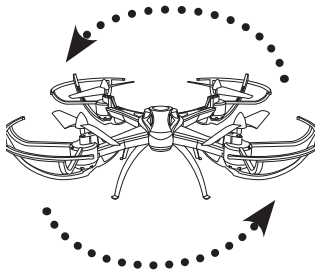
Even after the craft is calibrated, it may show a tendency to drift while airborne. Adjusting the trim will help counter this effect and allow for better control the craft.

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

Adjusting the trim will help with drift but it will not entirely eliminate it. Turbulence and other factors may still influence the craft's flight characteristics.

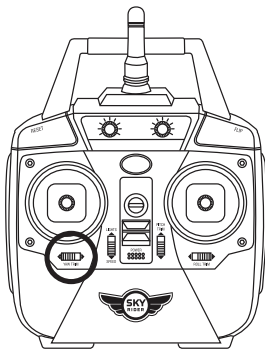
DRIFT TYPE

Craft **yaws/spins** in place.



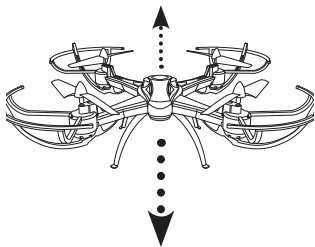
SOLUTION

Adjust **Yaw Trim**.

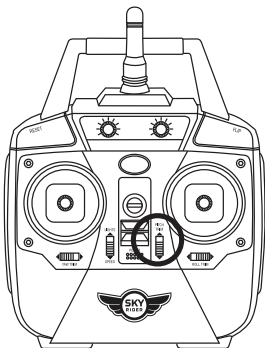


Trim Adjustment

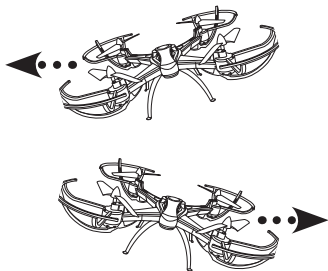
Craft **pitches/angles** forward or backward.



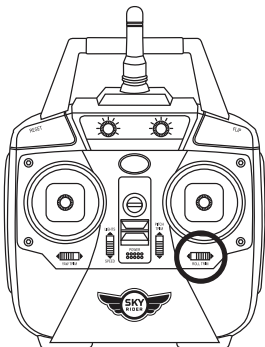
Adjust **Pitch Trim**.



Craft **rolls/banks** left or right.



Adjust **Roll Trim**.



Gyroscope Recalibration

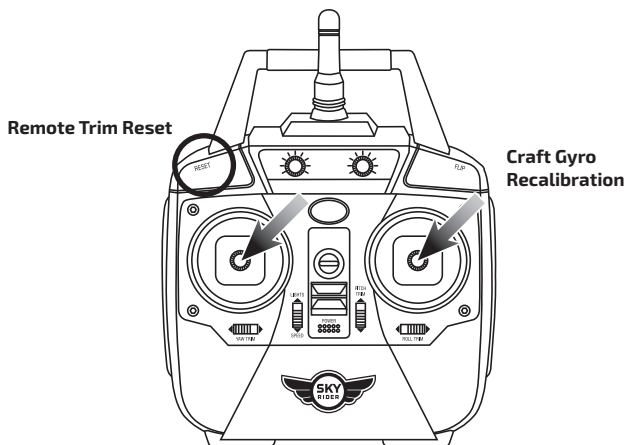
If the craft is experiencing difficulty flying or is behaving erratically, its gyroscopes may need to be recalibrated. Do not attempt to do this while flying, safely land the craft first and place it on a flat surface. The craft and the remote should already be linked together.

Pull both control sticks to the lowest left position for 2-3 seconds. When the LED lights on the craft start blinking, release the controls sticks. When the lights have stopped blinking and are solid again, the gyroscopes are re-aligned and the craft is ready to fly.

Remote Trim Reset

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

Press the **Reset** button on the remote control to restore the factory default settings to both the craft and remote. **Do not attempt to do this while flying. Safely land and power down the rotors before reset.**



Flying Tips & Features

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.
- **Remember: To quickly stop the motors, pull both thumbsticks down and outwards.**
- If you crash, power down IMMEDIATELY to reduce the chance of damage or injury.
- If anything obstructs the propellers for any reason, power down IMMEDIATELY and safely clear the obstruction. Check for possible damage before flying again.

Speed Setting

Press the **Speed button** on the remote control once to set the craft's speed. The remote will chime to indicate the speed setting.

- **Low:** Provides smooth and predictable control of the craft.
- **Medium:** The craft will move and respond faster to all control inputs.
- **High:** Highest setting for maximum performance.

Altitude Hold/Hover

The Condor Pro automatically holds its altitude by maintaining a "half-way" position for the **Left Control Stick (throttle)**. This can be useful for flying and operating the camera controls at the same time.

Note: The craft will may shift in altitude within a range of approximately 8-12 inches. Bear this in mind while flying and performing precise maneuvers.

Auto-Reverse

To enable Auto-Reverse, press down (into the body of the remote) on the **Right Control Stick**. The remote will emit a chime and the craft will begin flying in the reverse of the direction it was originally flying. Note that the throttle control functions normally and any directional change from the **Right Control Stick** will disable Auto-Reverse.

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.

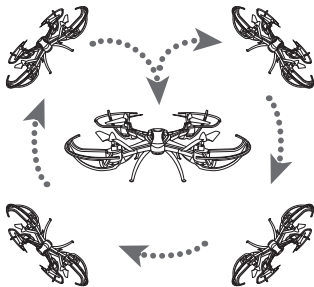
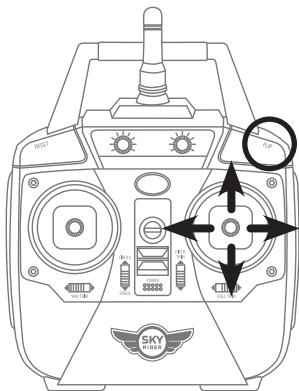
To activate Headless Mode, press down (into the body of the remote control) on the **Left Control Stick**. Press again to deactivate Headless Mode. A chime will sound both times to indicate when Headless Mode is active or inactive.

Flips & Tricks

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

Press and hold the Flip button, then move the Right Control Stick in any direction.

Craft will perform flip in the desired direction.



Wi-Fi Flight

Sky Rider Drones App

The craft can be flown using a Wi-Fi linked smartphone and our free app. Scan the appropriate QR code to the right, or search for **"Sky Rider Drones"** in the Apple App Store or Google Play Store to download the app to your phone.

NOTE: Wi-Fi control may be interrupted by interference from other nearby 2.4G Wi-Fi equipment.



Apple



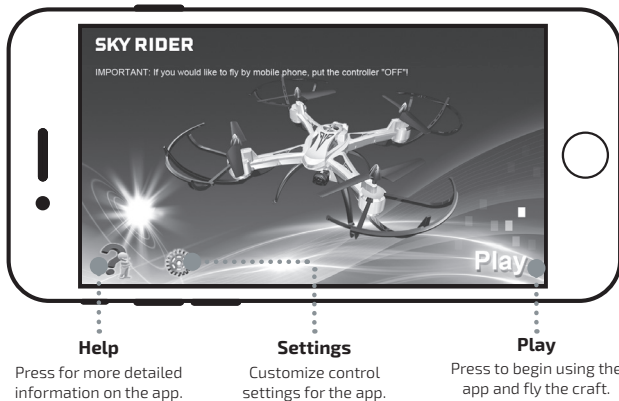
Android

Connect Wi-Fi

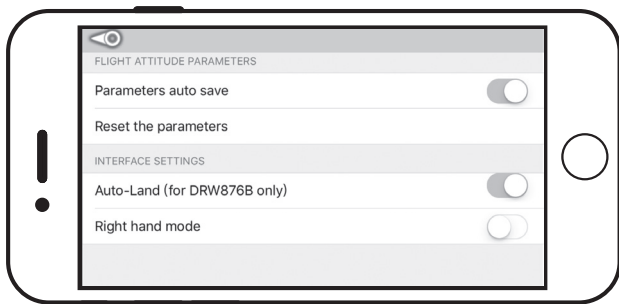
If you are going to fly using only your phone, do not power ON or connect the remote control. Before beginning, make sure your phone's Wi-Fi is enabled.

- Power ON the craft and place it on a flat level surface.
- Access the Wi-Fi settings menu on your phone, then search for and select **Sky Rider** to connect to the craft.
- Once connected, open the app and click on the **Play icon** to begin flying.

Start Screen



Settings Screen



Parameters Auto Save

Trim settings adjusted in the app will be saved for future flights.

Reset the Parameters

Reset trim settings to default.

Right Hand Mode

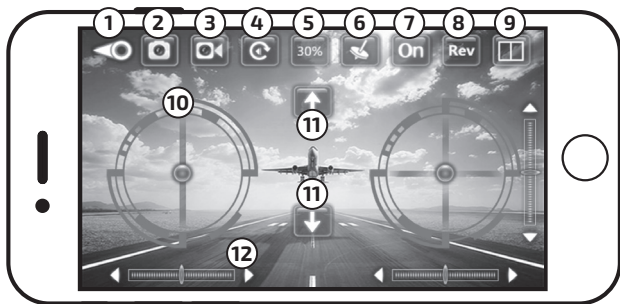
Reverses the locations of the Left and Right flight controls on the flight screen.

Auto-Land (DRW876B Only)

Enables Auto-Land and Start Up controls for the app. When Flying the Condor Pro (DRW876), this setting must be ON.

Wi-Fi Flight

Flight Screen



- | | | |
|------------------------|---------------------------|----------------------------|
| 1. Start Screen | 5. Speed Setting | 9. VR Mode |
| 2. Photo | 6. Intuitive Mode | 10. Flight & Trim Controls |
| 3. Video | 7. Flight Controls ON/OFF | 11. Start Up/Auto-Land |
| 4. Photo/Video Gallery | 8. Reverse Camera Image | 12. Trim Controls |

Camera & Video

Press the Photo and Video buttons to capture images and video during your flight. These are saved to your phone and can be viewed later by pressing the Gallery button.

Intuitive Mode

This mode uses the gyroscopes 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 Control Stick** on the phone's screen.

Start Up

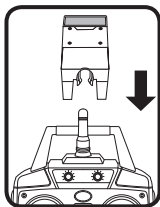
Press the **Up Arrow** to start the craft's motors. Use the flight controls to begin flying.

Auto-Land/Shut Down

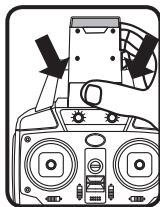
When you are ready to land press the **Down Arrow** and the craft will make a gradual descent until it has landed, wait for the rotors to stop spinning before handling. This button will also power OFF the motors if the craft is resting on the ground with the motors ON.

Attach Smartphone Cradle

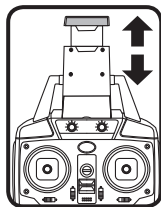
You can use your smartphone and the remote control together by attaching the included smartphone cradle to the top of the remote. This can be useful for photography and video, or for flying the craft just by watching the screen.



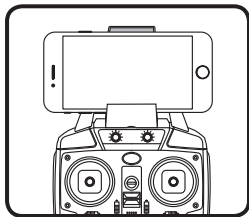
Slide the cradle into position on the remote antenna and handle.



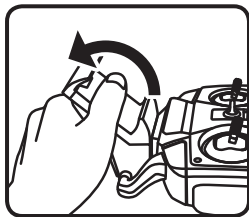
Gently press on the cradle until it locks into place.



Pull upwards on the top of the cradle so that it will fit your smartphone.



Place your phone in the cradle and release the top portion. Your phone should sit firmly in place.

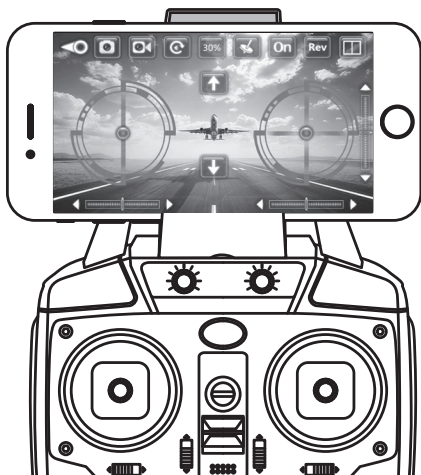


To remove, gently pull the cradle off of the remote in a twisting motion, as shown above.

Wi-Fi Flight

Using the Remote & Wi-Fi App Together

- **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 and open the app. The image from the camera should appear on the flight screen.
- The app's flight controls will not be needed, disable them for a better view of the camera feed.
- The Condor Pro features a motorized camera that can tilt and swivel, allowing for more flexibility while capturing images and video. **Use the controls on the remote** to fly the craft and adjust the camera position. **Use the app camera/video controls** to capture images and video. *Note: When using just the app to fly, the camera defaults to a centered, forward looking position. The app does not have controls to adjust the camera position.*
- When you're finished flying, power down the remote and craft like normal.

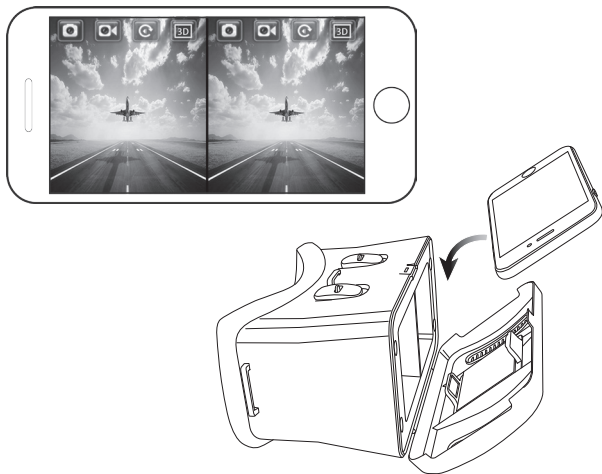


Virtual Reality Mode

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:

- **We do not recommend flying the craft while wearing a headset.** The craft's camera has a limited forward view and the user's peripheral vision and situational awareness will be entirely obscured by the headset.
- On screen flight controls are locked out in VR Mode. You must have the regular remote connected in order to fly the craft (see next section).
- Images and video captured in VR Mode are not saved with the split screen view.
- **USERS 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**.

Rotor Replacement

The craft comes with replacement rotors if the originals are broken or badly damaged. To replace a rotor, use a small Phillips head screwdriver (included) to remove the screws connecting the rotor to the motor shaft. **Take special care not to drop the screws into the body of the craft.** Pull the damaged rotor off of the motor shaft and replace it with a new one, then screw it back into place. **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 underside of the rotor.

Troubleshooting

If you are experiencing problems using or flying the craft, consult this table.

PROBLEM	POSSIBLE CAUSES	SOLUTION
Craft does not respond to controls.	• No power to remote or craft. • Poor contact between power plugs. • Craft is out of range. • Batteries out of charge.	• Check remote batteries, replace if needed. • Check craft battery, recharge if needed. • Be sure the power plugs are firmly connected. • Be sure the remote has an unobstructed line of sight to the craft. • Remain within the remote's 300 ft. range.
Craft is difficult to control or flies erratically.	• Gyroscopes may be misaligned.	• Recalibrate gyroscopes (see pg. 17). • Power OFF remote and craft and reconnect (see pg. 13).
Craft drifts while in flight.	• Trim not set or needs adjustment.	• Adjust trim settings (see pg. 15). • Reset trim settings (see pg. 17).
Craft suffers from mechanical trouble.	• Damage to body, rotors or other major components.	• Repair or replace parts as needed.
LED lights ON but craft does not respond to controls.	• Low battery power.	• Recharge the battery.

Customer Support

Contact Information

Website: www.gpx.com

Email Support: prodinfo@dpiinc.com

Email Parts: 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

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

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

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



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