



CONDOR_{PRO}

QUADCOPTER DRONE WITH WIFI CAMERA

User's Guide for Model DRW876 v1562-01

CAUTION

There is a delay of approximately 4 seconds between pulling the throttle to the lowest position and the motors actually powering OFF. **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.**

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

This is normal for the operation of the craft, but extra care needs to be taken to reduce the risk of injury or damage.

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.

The Online Registration fee is \$5, but will be credited back to your account if the registration is completed within the first 30 days of ownership. Once completed, the registration is valid for 3 years.

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 the web links listed below.

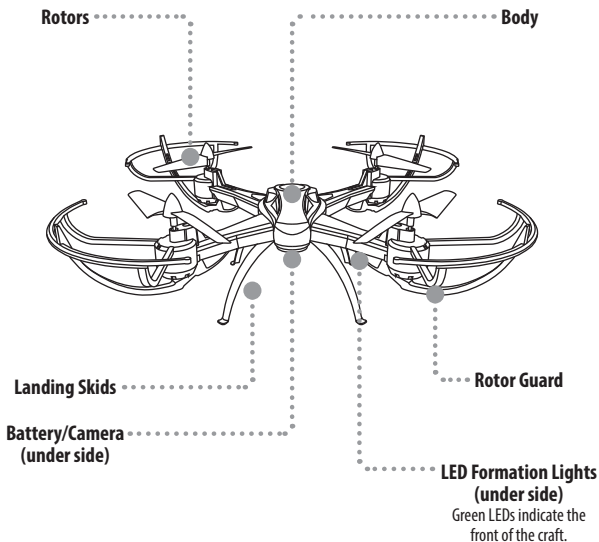
- **FAA Home Page** - <http://www.faa.gov/>
- **UAS Registration Page** - <http://www.faa.gov/uas/registration/>
- **UAS Registration FAQs** - <http://www.faa.gov/uas/registration/faqs/>

Orientation

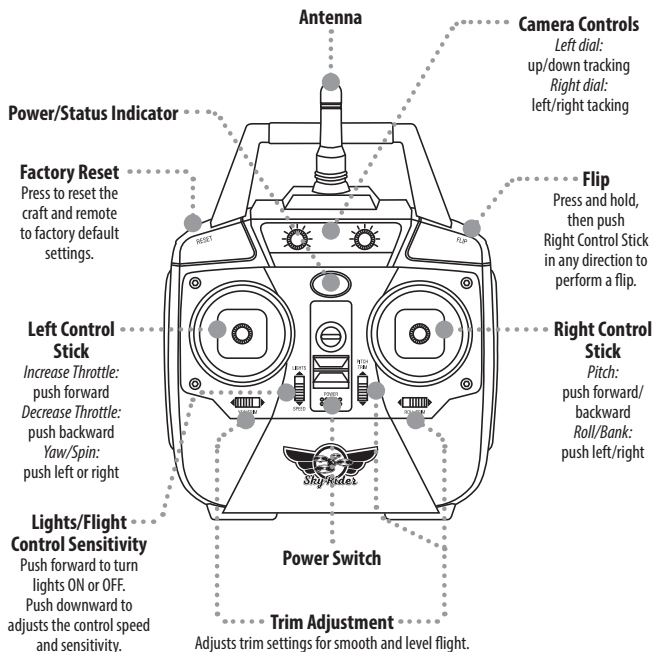
Included

- 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 gimbal mounted camera

Overview

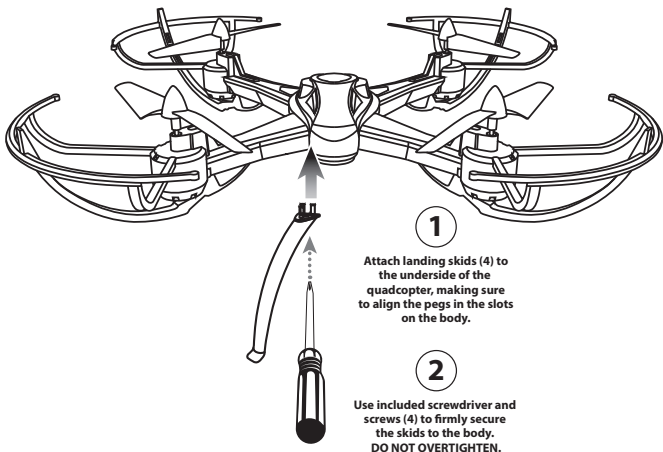


Remote Control



Assembly

Attach Landing Skids (x4)



Attach Camera

Step 1

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



Step 2

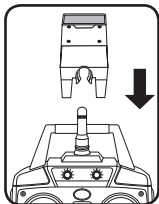
Connect power and data cables on the camera to the corresponding ports on craft.

Be sure to align plugs correctly or damage may occur.



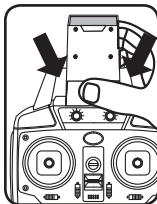
Attach Smartphone Cradle

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.



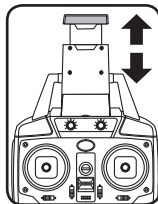
Step 1

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



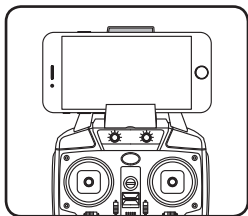
Step 2

Gently press on the cradle until it locks into place.



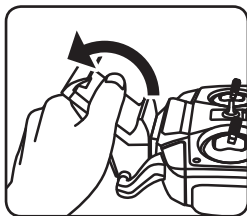
Step 3

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



Step 4

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



Removal

Gently pull the cradle off of the remote in a twisting motion, as shown above.

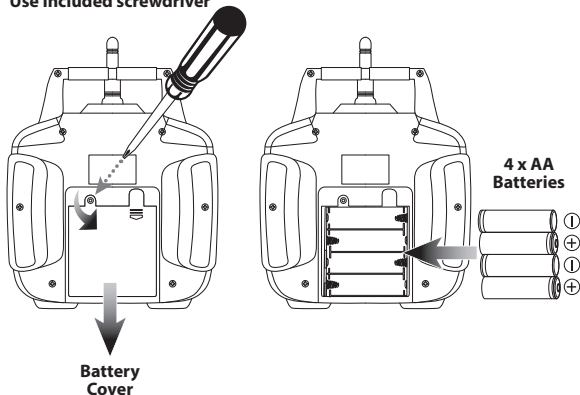
Batteries & Charging

Battery Information

BATTERY TYPE	SPECIFICATION	DURATION	CHARGE TIME
Li-Po Battery	7.4V 1500mAh	6 to 8 minutes flight time	Approx. 150 minutes
Remote AA Batteries	1.5V	Approx. 18 hours	Non-rechargeable

Remote Control Battery Installation

Use included screwdriver

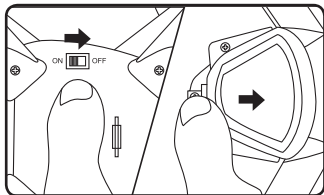


Battery Charging Procedure

The craft's lithium-polymer (Li-Po) battery must be charged before the unit can be flown. Before charging, be sure the craft and remote control are powered off. Failure to do so may result in injury.

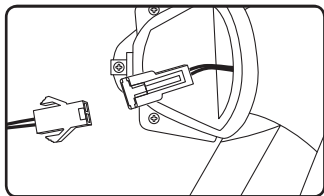
Step 1

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



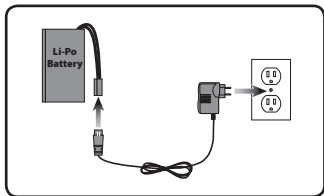
Step 2

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



Step 3

Plug the power adapter in to a standard wall outlet.

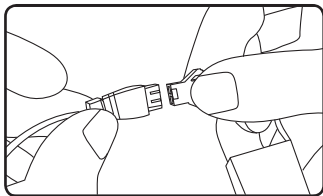


Batteries & Charging

Step 4

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

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



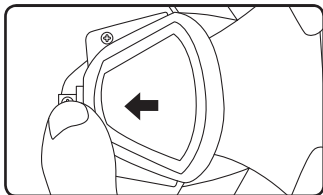
AC/DC Charger Status

LIGHT	STATUS
Red Light ON	Charging
Green Light ON	Ready

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.



Reminder:

Do not charge batteries overnight.

Do not leave batteries unattended while charging.

Pre-Flight Calibration

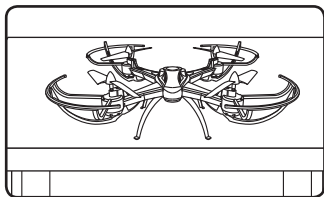
Craft/Remote Link

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

Begin with the craft and remote powered OFF.

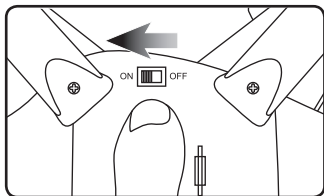
Step 1

Begin with the craft resting on a flat and level surface.



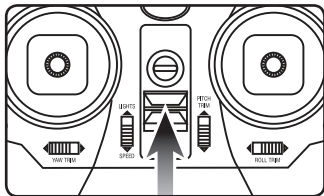
Step 2

Power the craft ON. The LED formation lights will blink in unison indicating it is searching for a signal from the remote.



Step 3

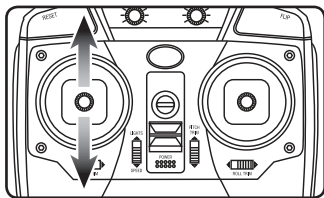
Power the remote control ON. The light on the remote will blink as it searches for the signal from the craft. An audible chime will sound when the remote and the craft have linked with each other.



Pre-Flight Calibration

Step 4

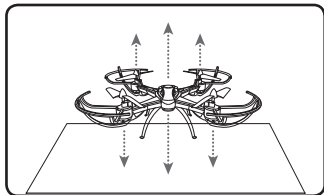
Push the Left Control Stick fully forward, wait for a chime to sound, then pull the stick fully backward, and wait for a second chime. **When this last chime has sounded, the rotors will automatically begin spinning and you are ready to fly.** This is a normal operation of the craft necessary for Auto-Hover to function.



Step 5

Attempt a stable hover by pushing forward on the Left Control Stick. When you release the stick, it will return to the neutral position and the craft should hover in place.

To land and power off, pull down on the Left Control Stick and hold for approximately 4 seconds or until the rotors have stopped spinning.



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

CAUTION

There is a delay of approximately 4 seconds between pulling the throttle to the lowest position and the motors actually powering OFF. **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.**

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

This is normal for the operation of the craft, but extra care needs to be taken to reduce the risk of injury or damage.

Trim Adjustment

Setting Trim & Countering Drift

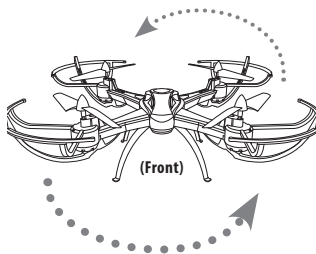
Even after the craft is calibrated, it may show a tendency to drift while airborne. Adjusting the trim will help counter this effect and allow you to better control the craft. To avoid potential damage, adjust the trim while in a stable hover, and do not make any sudden movements with the flight controls. Adjust one trim setting at a time to avoid confusion. Trim can also be set from the Sky Rider Drones app.

Remember, the green LEDs indicate the front of the craft.

While adjusting the trim will help with drift, it is not guaranteed to eliminate it entirely. Physical, mechanical, and environmental factors (ex: a gust of wind) may still influence the craft's direction and flight.

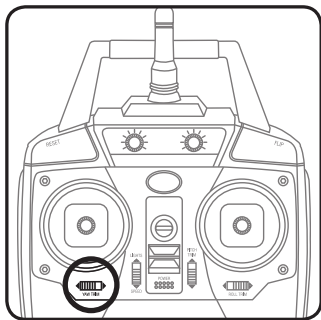
DRIFT TYPE

Craft **yaws/spins** in place.



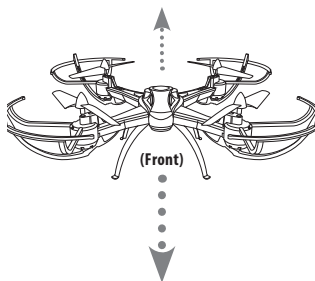
SOLUTION

Use **Yaw Trim** under the Left Control Stick.

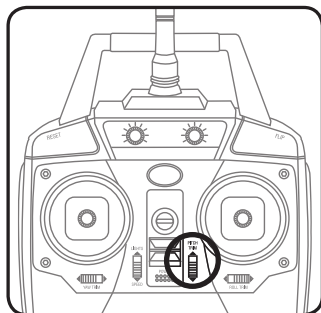


Trim Adjustment

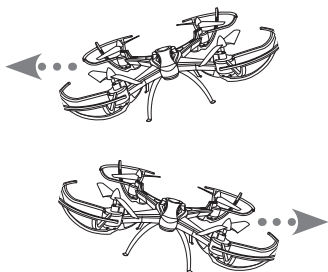
Craft **pitches/angles** forward or backward.



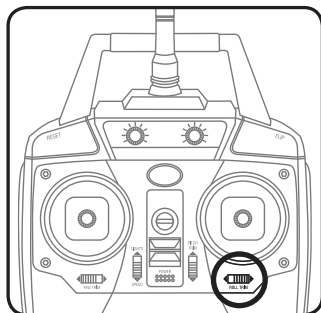
Use **Pitch Trim** to the left of the Right Control Stick.



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



Use **Roll Trim** under the Right Control Stick.



Flying Tips & Features

Tips for Safe Operation

- Only fly in large, open spaces, such as a field or a very large indoor area, 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 to 3 feet.
- Stand behind the craft when first taking off, so that it and you are facing the same “forward” direction. This will make it easier to determine which direction it is flying. Also, remember that the green LED lights indicate the front of the craft.
- Practice basic flight operations like take off, hovering, and landing.
- Flying inside, at low speed and low to the ground will reduce the chance of turbulence that can negatively affect the stable flight of the craft.
- Novice pilots should move the controls slowly and deliberately, using one control at a time, to get used to the craft’s flying characteristics. Next, try combining the pitch and roll controls (forward/backward and left/right on the Right Control Stick) to fly the craft similar to the way an airplane flies. After mastering this, try the yaw controls (left/right on the left thumbstick) to spin the craft in place and perform more complex maneuvers.
- If anything obstructs the rotors for any reason, throttle down IMMEDIATELY and safely clear the obstruction. Check for possible damage before flying again.

Speed Setting

The craft has three settings for the responsiveness of the flight controls: 30%, 60%, and 100%. The higher settings allow for faster and more precise control of the craft. It is recommended to start with the lowest setting, then as you become more skilled at flying, increase the sensitivity as you see fit.

- **30%:** Intended for novice pilots. Gives smooth and predictable control.
- **60%:** Intended for intermediate pilots. The craft will move and respond faster to all control inputs.
- **100%:** Intended for expert pilots. Highest setting for maximum performance.

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. Throttle control will still function, and any directional change from the **Right Control Stick** will disable Auto-Reverse flight.

Flying Tips & Features

Headless Mode

Headless Mode disables the default orientation of the craft, where the green LEDs indicate the front of the craft. Instead, the craft will reorient its "front" based on the first **Right Control Stick** input from the user. This can be useful if you become disoriented while flying, or cannot visually determine which direction is "true front".

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.

Altitude Hold/Hover

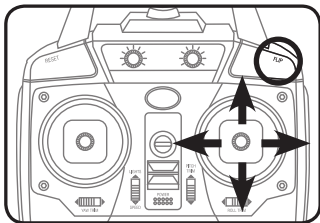
The Condor Pro automatically hovers at any altitude set by the user, simply push the **Left Control Stick/throttle** up or down to reach the desired altitude, then release the stick. The craft will hold that altitude until adjusted again by the user. This can be useful for flying and operating the camera controls at the same time.

Note: The craft will generally oscillate in altitude within a range of approximately 8 in. Bear this in mind while flying and performing precise hover maneuvers.

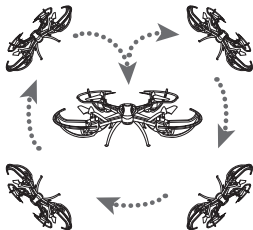
Flips & Tricks

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.



Sky Rider Drones App

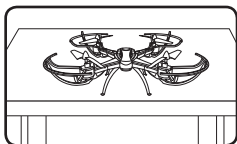
Sky Rider Drones App

Using the Sky Rider Drones app, you can fly the craft with your smartphone and take video and images with the craft's on board camera. The app is free to download, just scan the correct QR code, install the app and start flying! The app can also be found on the Apple App Store or Google Play Store by searching for **Sky Rider Drones**.

Note: Wi-Fi control may be disabled if the flying area is experiencing interference from nearby 2.4G equipment. Move to another area and try again.

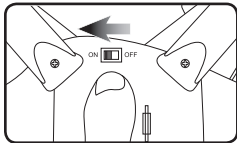
Step 1

With the craft powered OFF, place the it on a flat, level surface before you begin.



Step 2

Power the craft ON. The LED formation lights will blink in unison as it awaits a signal from your smartphone.



Step 3

Be sure your phone's Wi-Fi is ON.

Open your phone's Wi-Fi settings and search for and select **Sky Rider** from the Wi-Fi networks menu. Once connected, open the app and tap the Settings icon **to activate the Auto-Land option in the Settings menu or the app will not operate the craft.**

Tap the Back arrow to return to the Start Screen and tap **Play** to start flying.

Sky Rider Drones App

QR Code for App Download

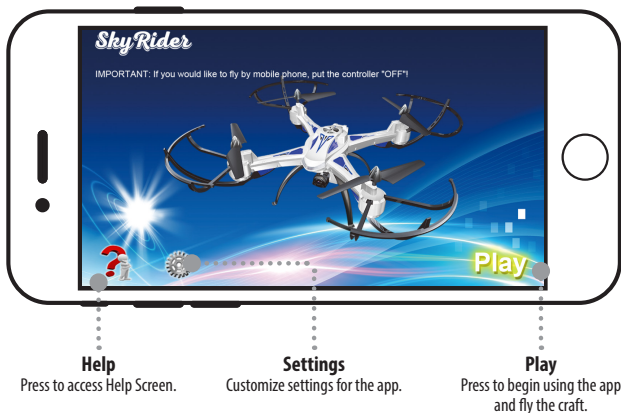


iOS/iPhone (Apple)



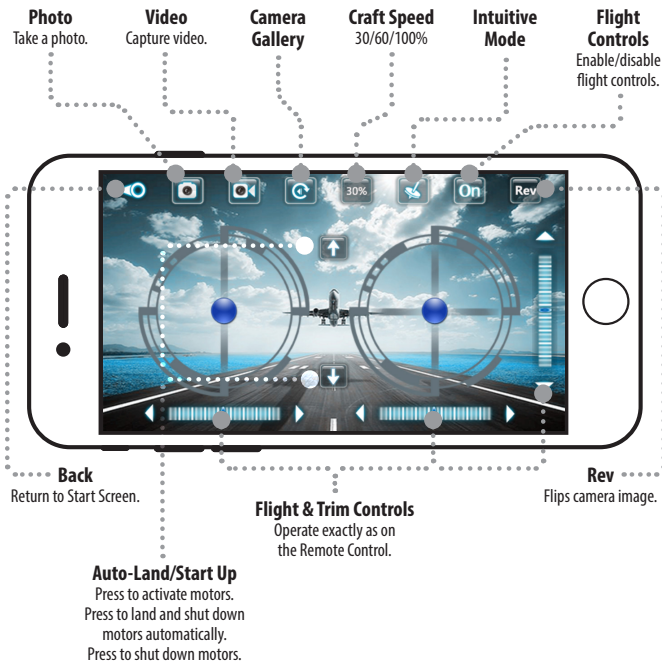
**Google Play
(Android)**

Start Screen



Flight Screen

Note: The airplane and runway graphic will be replaced by the view from the on board camera when using the app.



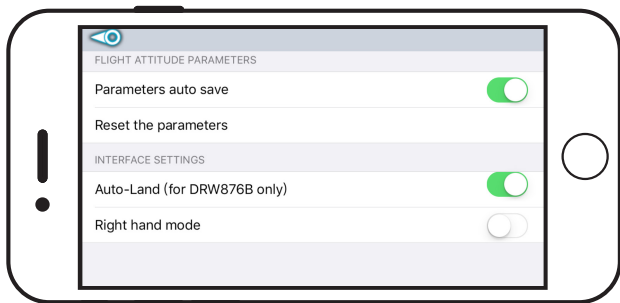
Sky Rider Drones App

Intuitive Mode

This mode uses the G-Sensor in your smartphone for directional control during flight. Tilt the phone forward, back, left, and right to change the craft's direction. Throttle, yaw and trim controls still behave normally. **It is not recommended to adjust trim in Intuitive mode.**

Auto-Land/Start Up

To operate the automatic landing and start up feature using the app, be sure to activate the option in the Settings screen. **This is a default feature of the craft and you must have this option turned on to fly the Condor Pro with the app.**



Start Up

After linking the craft to your smartphone, press the **Up arrow button** on the screen. The rotors will begin spinning in preparation for take off. Use the throttle controls as normal to begin flying.

Landing/Shut Down

When you are ready to land the craft, press the **Down arrow button** on the screen. 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.

The Gimbal Mounted Camera

Using the Remote and App to Capture Images/Video

The Condor Pro features a gimbal mounted camera that will tilt and swivel, allowing for more flexibility while capturing images and video.

To use the motorized camera and the app at the same time, read these steps carefully and complete them in order. **If you encounter difficulty or perform any steps out of order, power OFF the craft and remote, close the app and disable your phone's Wi-Fi, and start over.**

Step 1 - Link the Remote to the Craft

Complete the Craft/Remote link (pg. 13-14) but do not start flying. **Power OFF the motors by pulling the Left Control Stick/throttle to the lowest position** for 4 seconds to reduce the chance of injury.

Step 2 - Connect the App to the Craft

Connect your phone to the craft by performing **Step 3** of the Wi-Fi link (pg.19) **but do not start flying with the app.** Turn the app flight controls off using the ON/OFF button on the Main Flight Screen, then attach your phone to the remote with the cradle.

Step 3 - Ready to Fly

Use the controls on the remote to fly the craft and adjust the camera position.
Use the app to view and capture images and video.

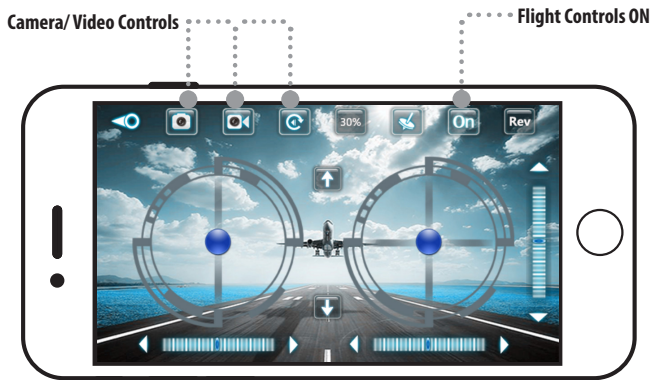
DO NOT USE THE FLIGHT CONTROLS IN THE APP WHILE ALSO USING THE REMOTE CONTROL TO FLY THE CRAFT.

The Gimbal Mounted Camera



Using the App to Fly and Capture Images/Video

You can always use the app to fly and capture images, but without the remote, camera controls will not function. When used this way, the camera will default to a centered, forward looking position as soon as the craft is powered ON. Use the app and flight controls to fly and capture images and video.



Troubleshooting

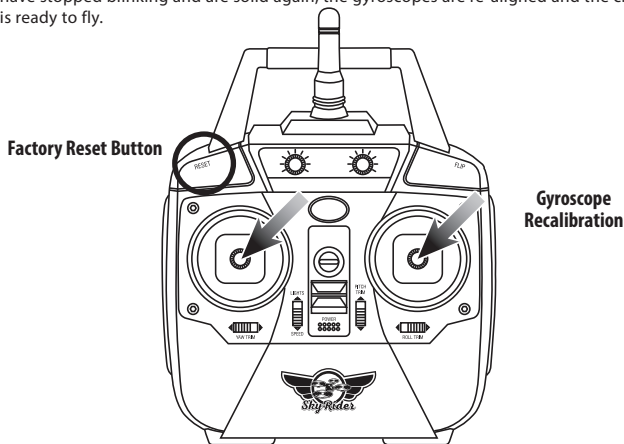
If you are experiencing problems using or flying the craft, consult this table.

PROBLEM	POSSIBLE CAUSES	SOLUTION
Craft is unresponsive	• No power to remote or craft • Poor contact between power plugs • Craft is out of receiver range • Battery out of charge	• Charge battery • Be sure the power plugs are firmly connected • Be sure the remote has an unobstructed line of sight and remain within the remote's 300 ft. range
Craft flies erratically	• Gyroscopes may be misaligned	• Perform Pre-Flight Calibration (see pg. 13) • Recalibrate gyroscopes (see next page) • Perform factory reset (see next page)
Craft drifts while in flight	• Trim not set or needs adjustment	• Adjust trim settings (see pg. 15)
Craft experiences mechanical difficulty	• Damage to body, rotors, or other major components	• Check to make sure the craft has not taken significant damage • Replacement parts may be needed (see pg. 28)
Formation lights ON, but craft no longer responds to throttle inputs	• Low battery power	• Recharge the battery

Gyroscope Recalibration

If the craft is experiencing difficulty flying or is behaving erratically, the gyroscopes may need to be recalibrated. **Safely land the craft and power down the rotors to avoid possible injury or damage.**

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



Factory Default Settings

If the craft is still experiencing difficulty flying or is behaving erratically, the craft and remote may need to have the factory default settings restored.

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.**

Rotor Replacement

The craft comes with 4 replacement rotors, to be used if the originals are broken or badly damaged.

To replace a rotor, use a small Phillips head screwdriver (included) and remove the two screws connecting the rotor to the electric motor shaft. **Take 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 cause the craft's flight to be erratic and difficult to control. The marking can be seen on the bottom of the rotor, near the shaft.

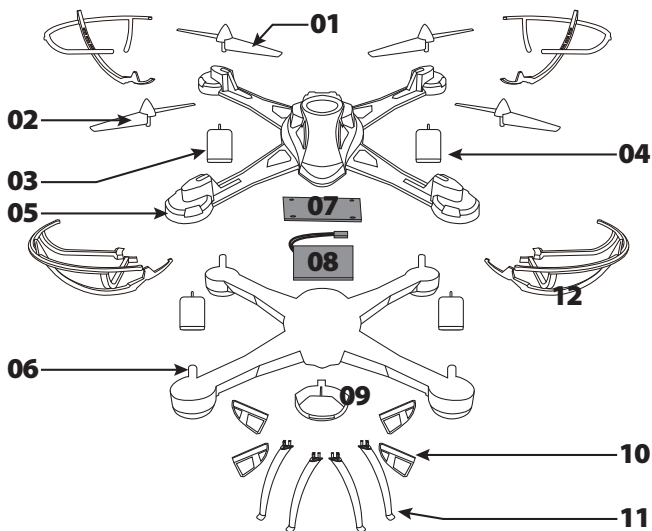
REMINDER: Pilots are responsible for any damage caused by improper use.

Parts

Parts Replacement

If any major components of the craft are damaged beyond repair, use the contact information at the back of this manual to order replacements.

Parts Diagram



Parts

Parts List

PART	NAME	QUANTITY
1	Rotor A	2
2	Rotor B	2
3	Motor A	2
4	Motor B	2
5	Upper Frame	1
6	Lower Frame	1
7	PCB	1
8	Battery	1
9	Battery Cover	1
10	Light Cover	4
11	Landing Skid	4
12	Rotor Shroud	4

Company Information

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.

The warranty and the most up-to-date version of this user's guide can also be found at: www.gpx.com/drw876.html

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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