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

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 cuase undesired operation. Any 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. 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.

Table of Contents

X-35 Firefly Wi-Fi Drone

FAA Information: Flying Your Drone Under the Special Rule for Model Aircraft

To fly under the Special Rule for Model Aircraft you must:

- Fly for hobby or recreation ONLY
- Register your model aircraft
- Fly within visual line-of-sight
- Follow community-based safety guidelines and fly within the programming of a nationwide community-based organization
- Fly a drone under 55 lbs. unless certified by a community-based organization
- Never fly near other aircraft
- Notify the airport and air traffic control tower prior to flying within 5 miles of an airport
- Never fly near emergency response efforts

You alone are responsible for safely and responsibly flying your drone. For more information on FAA Rules and Guidelines for flying Unmanned Aerial Systems please visit: *http://www.faa.gov/uas/*

Features

- 360° flips & tricks
- Vertical Take Off and Landing (VTOL)
- 6-axis gyroscope
- Altitude hold
- Headless mode
- Wi-Fi camera
- 3 speeds
- Control distance: up to 328 feet
- Wi-Fi distance: up to 164 feet
- LED navigation lights
- Free Sky Rider Flight app
- Operating time: 6–7 minutes
- Charge time: approx. 70 minutes

Includes

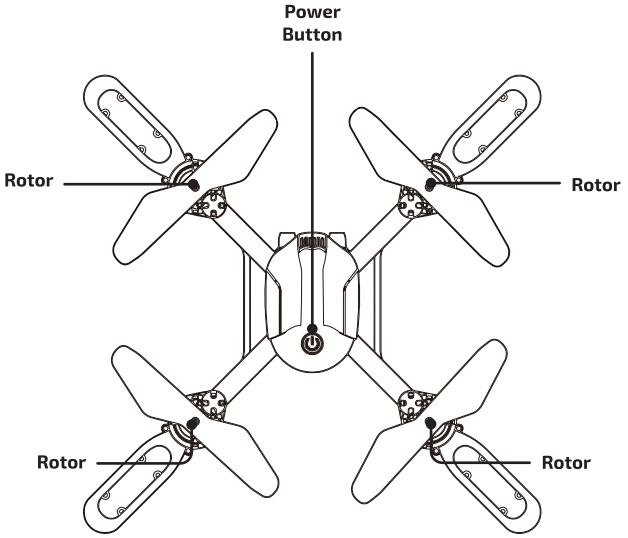
- USB charging cable
- 2.4GHz remote control: requires 2 AA batteries (not included)
- Rechargeable lithium polymer battery
- Smartphone cradle
- 4 replacement rotors
- 2 landing feet
- Screwdriver
- User's Guide

Specifications

- Dimensions: 300x220x75mm/11.81x8.66x2.95in (LWH)
- Weight: 158.75g/5.6oz/0.35lb

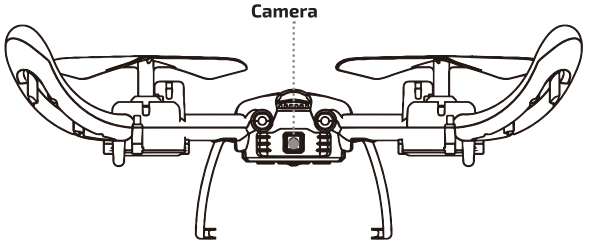
Overview

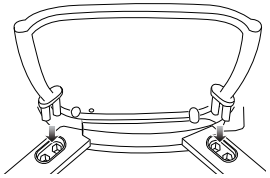
Top View Diagram



Overview

Front View Diagram



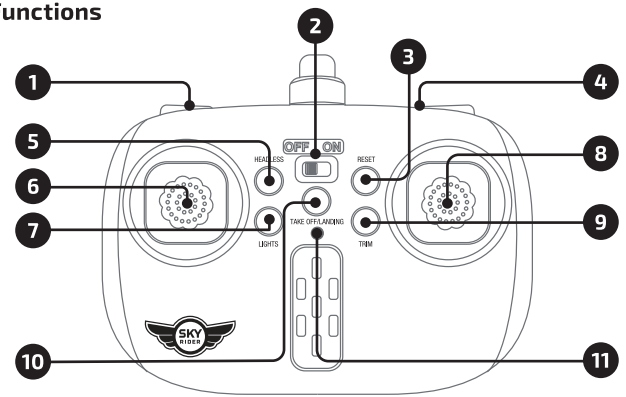


Landing Feet

Attach landing feet to the bottom of the drone. Line up the prongs on the feet to the holes on the bottom of the drone and press into place.

Remote Control

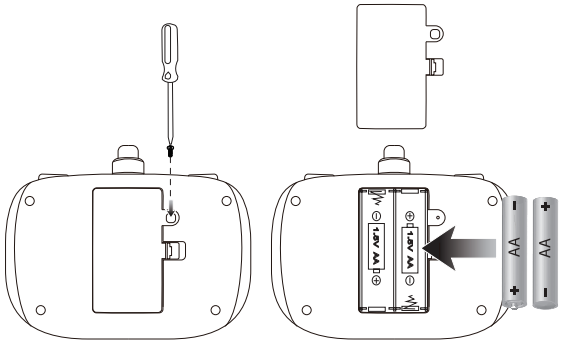
Functions



1. **Speed Setting**
   Press to set low/med/high speed.
   Remote will chime to indicate setting.
2. **Power Switch**
3. **Reset**
4. **Flip**
   Press to perform a flip.
5. **Headless**
   Press once to enter headless mode.
6. **Left Control Stick**
   Up: push forward
   Spin Counterclockwise: push left
   Down: push backward
   Spin Clockwise: push right
7. **Lights**
   Press to turn lights on. Press and hold to turn LED lights off.
   Press to cycle through light modes.
8. **Right Control Stick**
   Forward: push forward
   Left: push left
   Backward: push backward
   Right: push right
9. **Yaw (Left/Right) Trim**
   Press and hold to adjust trim.
10. **One Key Takeoff/Landing**
    Press once after unlocking drone to takeoff.
    Press during flight to slowly land drone.
    Press and hold to activate emergency landing.
11. **Power Indicator LED**

Remote Control

Battery Installation



2x AA batteries (not included)

Charging the Battery

Information & Procedure

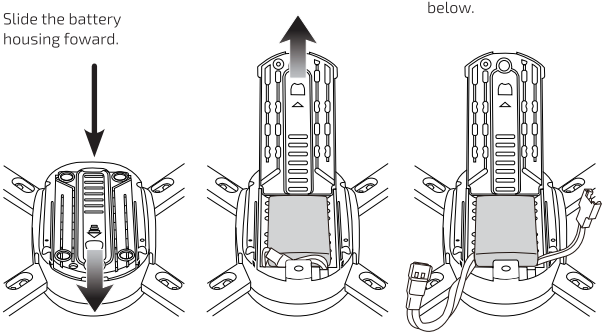
The drone's battery must be charged before it can be flown. To avoid risk of injury or damage, **be sure the craft and remote control are both powered OFF and remove the battery from the drone when charging.** Charging time is approximately 70 minutes. Charge fully before use for best performance.

Battery compartment (bottom view of drone).

Slide the battery housing foward.

Lift battery housing up

Slide battery out and follow charging steps below.



Connect the USB charging cable (included) to the USB port of a powered-on computer or USB power adapter (not included), then connect the charging plug to the battery plug.

While charging, the charger will display a red light.

When charging is complete, the light will turn OFF.

Flying

Remote Link & Calibration

Before flying, the drone and the remote must be linked together, the gyroscopes on the drone must be calibrated, and the drone must be unlocked.

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

Step 1

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

Be sure you and the drone are facing the same forward direction; this will help with orientation while flying.

figure 1

Front

Step 2

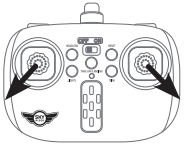
Power ON the remote. The light on the remote will blink as it searches for the signal from the craft. An audible chime will sound when the remote and the craft have linked.

Step 3

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

Step 4

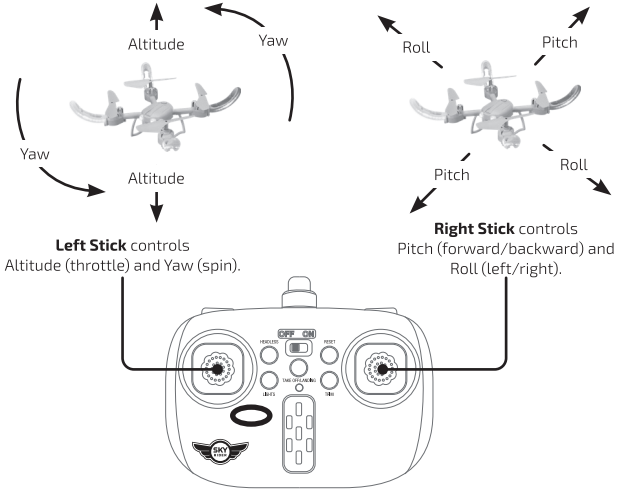
To start/stop the rotors, push both control sticks down and to the outside as shown in the diagram. Once the rotors have started, the craft is ready for flight.



One Key Takeoff

After completing step 3, you can press the **One Key Takeoff** button to unlock the drone and take off.

Flight Controls



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

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

When You're Finished Flying

Press the **Landing** button during flight to slowly land the drone.

After landing, keep the **Left Control Stick** pulled down and wait for the rotors to stop spinning. **Power OFF the remote BEFORE powering OFF the drone.** 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 drone.

Flying

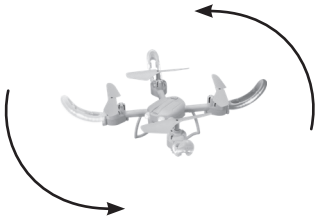
Setting Trim & Countering Drift

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

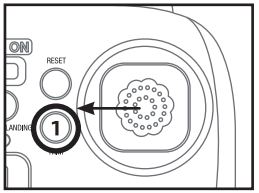
To avoid potential damage, adjust the trim while attempting a stable hover. Try to avoid making any exaggerated movements with the flight controls and adjust one trim setting at a time to avoid confusion.

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 obvious drift that makes the craft difficult to control.

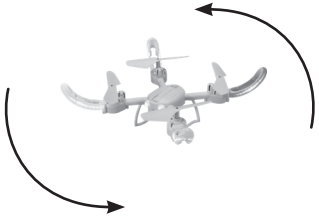
Drone spins right.



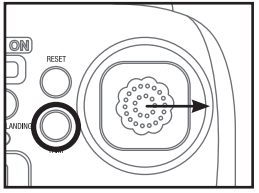
Adjust **Trim to the LEFT**.



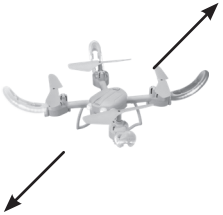
Drone spins left.



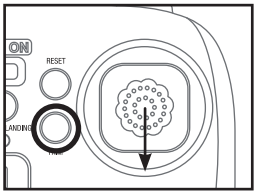
Adjust **Trim to the RIGHT**.



Drone drifts forward

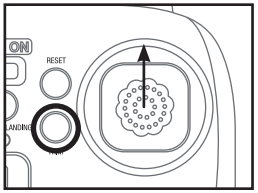


Adjust **Trim DOWN**.



Drone drifts backward.

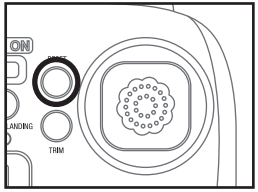
Adjust **Trim UP**.



Remote Trim Reset

If you are still having difficulty flying, it may help to reset the trim adjustments 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.



Flying

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 drone may be drawn towards them if closer than 2-3 feet.
- Stand behind the drone when first taking off, so that you and the drone are facing the same "forward" direction. This will help with orientation when the drone is airborne.
- Novice pilots should move the controls slowly and deliberately to get used to the drone's flying characteristics. Try using one control at a time.
- Practice basic flight operations like take off, hovering, and landing.
- If you get into trouble or if anything obstructs the rotors, cut power 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 drone's speed setting.

- **Low:** Provides smooth and predictable control of the drone. The remote will chime once to indicate the Low speed setting.
- **Medium:** The drone 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

Before using Headless Mode be sure you and the drone are facing the same "forward" direction, otherwise the drone 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.

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

Flips

Before attempting a flip, be sure that there is enough clear space around the drone, 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 Stic**k in any direction and the drone will perform a flip in the same direction. Press the **Flip button** again to deactivate without performing a flip.

Sky Rider Cruise App

The Sky Rider Cruise app will display the image from the drone's camera on your smartphone's screen, allowing you to capture images and video of your flights. Connect your smartphone to the drone's Wi-Fi signal and start flying!

Free Download

Scan the appropriate QR code with your smartphone or search for **"Sky Rider Cruise"** in the Apple App Store or Google Play Store.

Android

Apple

Connect to Wi-Fi

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

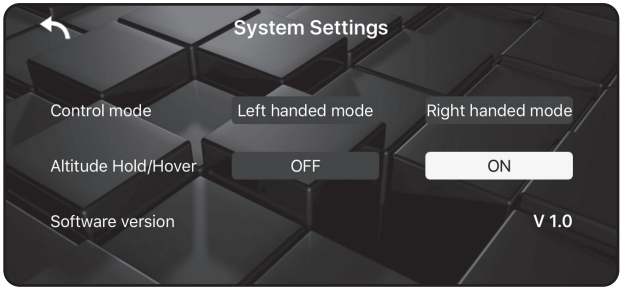
Before beginning, make sure your phone's Wi-Fi is enabled and the craft is powered ON.

- From your smartphone, open the Wi-Fi settings menu, then search for and select **Sky Rider Cruise-xxxx** to connect to the craft.
- Once connected, open the app. You will see the **Home Screen** (image below). From here you can adjust settings and start using the app.

1. Start
2. FAQ
3. Settings

Sky Rider Cruise App

Settings Screen

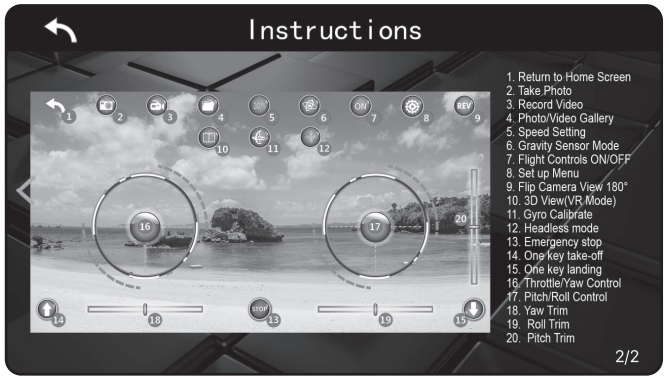


Altitude Hold/Hover- This setting will lock the drone at the altitude it is currently at.

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

Sky Rider Cruise App

Screen Controls

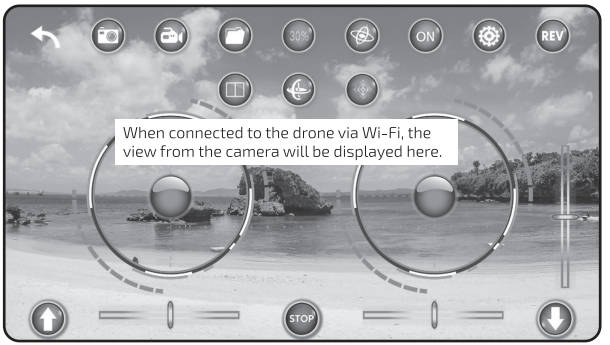


Gravity Sensor Mode uses the G-Sensor in your phone to control the drone. Tilt the phone forward, back, left, and right to control the **pitch and roll** of the drone. **Throttle and yaw** are still manually controlled from the **Left Control Stick.**

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.**

Sky Rider Cruise App

Flight Controls



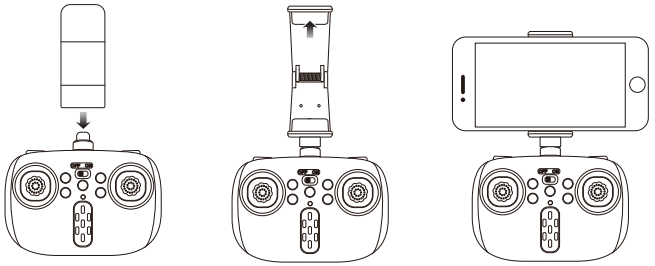
Sky Rider Flight App

Using the Remote & App Together

It can be easier to capture photos and video by using the remote to fly the drone and using the app in a viewing only method. 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 drone like normal.** Connecting the remote first overrides any control signals from the app.
- Next, use your phone to connect to the drone's Wi-Fi. Open the app and go to the Flight Screen. Leave the Flight Controls off for the best view from the drone's camera.
- **Use the controls on the remote** to fly the drone while the Wi-Fi camera streams to your phone.
- When you're finished flying, power down the remote and drone like normal.

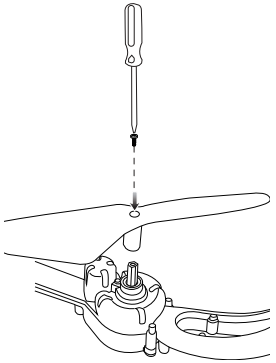


Parts & Repair

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

Parts Replacement

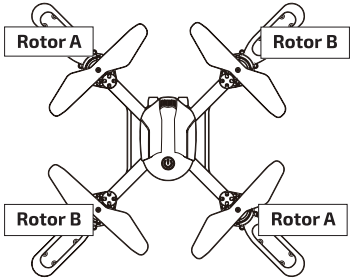
Standard parts such as extra batteries and remotes are available online for purchase when in stock. However, any non-standard parts such as cameras, screws, bodies, etc. can be ordered by placing an inquiry with our parts department at: **partsinfo@dpiinc.com.**



Rotor Replacement

The drone comes with replacement rotors if the originals are broken or badly damaged. Use the included screwdriver to remove the rotor retaining screw that holds the rotor to the motor shaft. Once the retaining screw is out, pull upwards on the rotor to remove it from the motor shaft. Installation of the new rotor is the reverse of the removal process. Be sure to tighten the rotor retaining screw firmly, but do not over tighten.

It is extremely important to use the correct rotor (A or B) for replacement. Using the incorrect rotor will make the drone impossible to control. The marking can be found on the rotor near the shaft.



FCC Statement

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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.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.