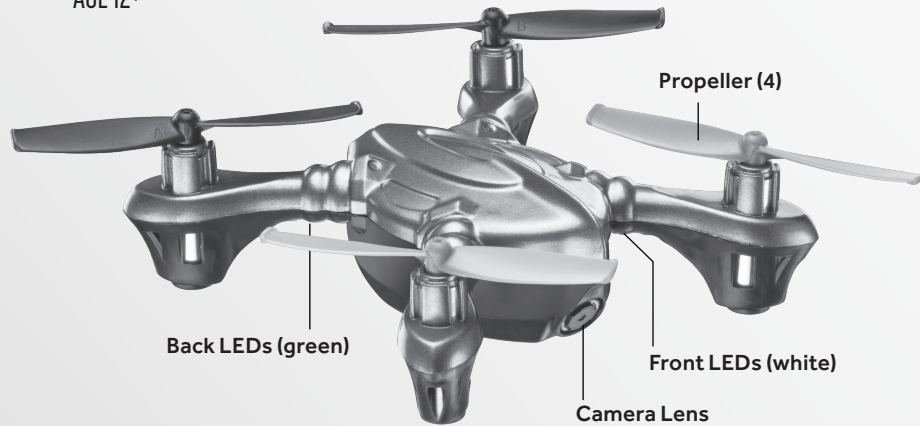




# SURVEYOR CAMERA DRONE

AGE 12+



We hope you enjoy your Surveyor Camera Drone from RadioShack. Congratulations! No FAA Registration is required for this drone. Please read this user's guide before using your drone.

### Package Contents

- Surveyor Camera Drone
- Spare Propellers (4)
- User's Guide
- USB Charging Cable
- 2.4 GHz Remote Control
- 3.7V, 250mAh Lithium-polymer battery

### Specifications

Drone power.....3.7V, 250 mAh lithium polymer battery  
 Remote Control power.....4xAAA batteries  
 Control Distance.....65 ft. (20m)  
 Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

**CHOKING HAZARD! Small parts. Not for children under 3 years.**

### Lithium Battery Notes

- Follow the manufacturer's instructions for charging the drone and do not charge longer than recommended. Unplug the charging cable when the drone is charged.
- Do not puncture or crush. Do not disassemble.
- Do not dispose of lithium batteries in the trash.
- If the electrolyte in the cells should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek

medical attention.

- Do not attempt to charge or operate damaged toys.

### FCC Information

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 your dealer or an experienced radio/TV technician for help.

If you cannot eliminate the interference, the FCC requires that you stop using your equipment. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept

any interference received, including interference that may cause undesired operation.

### Limited Warranty

Go to [www.radioshack.com/help](http://www.radioshack.com/help) for details.  
 RadioShack Customer Relations  
 300 RadioShack Circle, Fort Worth, TX 76102

[www.radioshack.com](http://www.radioshack.com)



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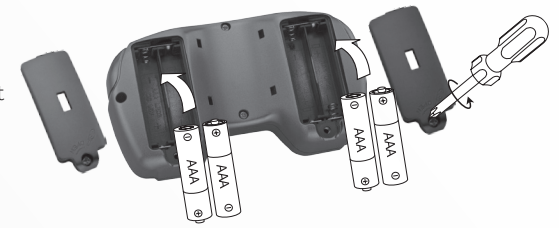
### Install Batteries in the Remote Control

1. Turn off the controller.
2. Open the battery compartment and insert 4 x AAA batteries (not included), matching the polarity symbols (+ and -) marked inside the compartment. Replace the battery cover securely with the screws.

**Note:** If the remote control's LED flashes during use, the batteries are low and should be replaced.

### Battery Notes

- Dispose of old batteries promptly and properly. Do not burn or bury them. Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Remove batteries during longer storage periods.



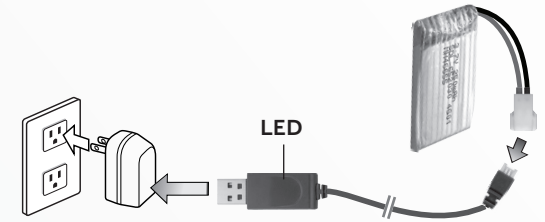
### Charge the Drone Battery

1. Use the USB charging cable to connect the battery to a USB power source. The LED on the USB connector lights red during charging, and turns off when charging is complete.

A full charge takes about 45 minutes, and provides up to 5 minutes of flight time.

2. After charging, unplug the charging cable. Do not attempt to overcharge.

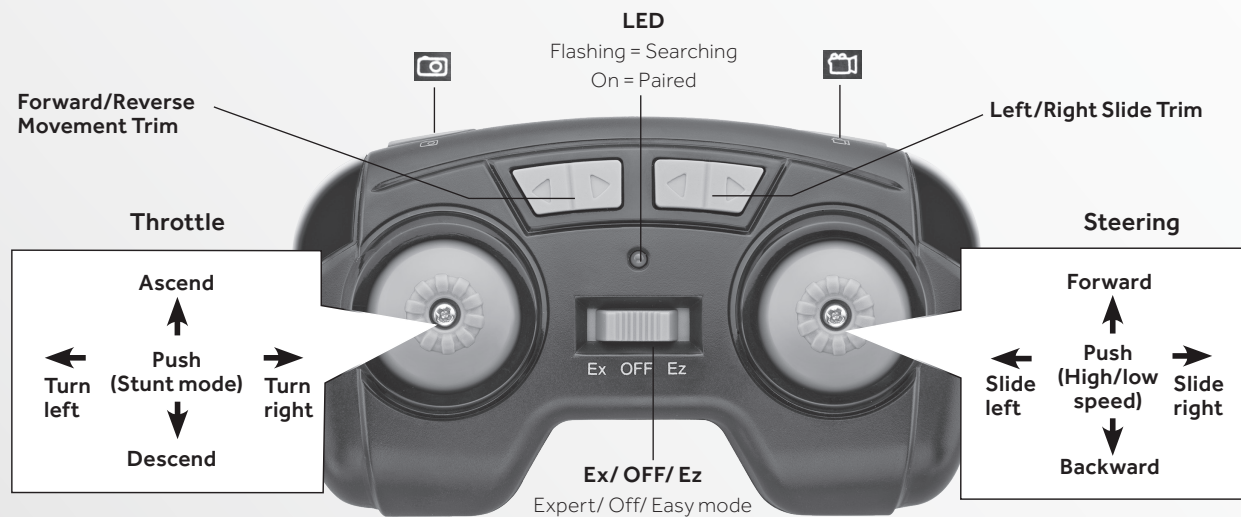
3. Open the drone battery compartment door to connect the battery socket cables. The drone's 4 LEDs flash. Tuck the battery and wires neatly inside the compartment and secure the door.



### CAUTION:

- Use only the supplied lithium battery and cable, or ones with the same specification to charge. Using any other batteries, cables or different specifications may damage the drone.
- After playing, let the battery cool before charging.

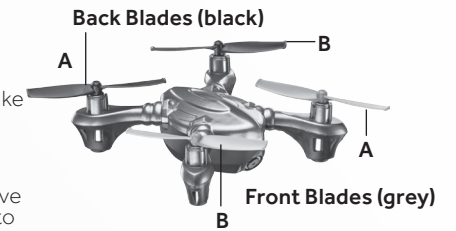




## Replace Damaged Propellers

The left and right propellers of the drone are different (see color and A/B orientation marking on underside). Make sure you insert the correct propeller in the correct location, otherwise the drone will fail to take off.

To replace a damaged propeller, remove the old one and press the new one onto the propeller axle. If you cannot remove the old propeller by hand, carefully use pliers.



### WARNING:

- To avoid injury and damage, inspect the propellers for nicks and breaks and make sure they are securely attached before and after each flight. Replace nicked, chipped, cracked or broken propellers.
- Use only the supplied propellers. Do not alter, modify, or customize the propellers.

## About Easy and Expert Fly Modes

This drone is designed with 2 play modes.

- Expert:** select this mode when you are ready to fly at a higher speed and perform stunts.
- Ez (Easy)** for beginners and new drone owners. This operates at a slower speed to help you focus on basic navigation and develop a feel of the throttle's sensitivity. By default, in Ez mode, the stunt and speed options are disabled to prevent them from being accidentally activated.
- When pairing and flying for the first time, we recommend you use **Ez** for practising your takeoff, steering and landing skills.

## Pairing

- Place the drone on level ground.
- Turn on the remote control to **Ez** or **Ex**. The remote control's LED flashes.
- Move the throttle all the way up and then down to pair the remote control with the drone. The drone's blades remain still during pairing. When paired, the LEDs on both the remote control and drone light steadily.

**Note:** If pairing fails, turn off the drone and remote control and repeat the steps above, or change locations to avoid electrical interference.

## Fly Your Drone

- After pairing, with the drone on the ground, move the throttle forward to ascend. To avoid ground air turbulence, fly the drone at least 1 ft. (30cm) off the ground.

**For advanced users:** Hold the remote control with one hand, resting your thumb on the throttle. Toss the drone about 4 ft. (1.2m) away from you, and move the throttle forward to fly. The drone adjusts itself automatically and flies smoothly.

- For speed options, pair and fly in **Ex** mode. Push the steering control in to switch between high speed (double beep) and low speed (single beep).

**IMPORTANT:** If your drone crashes upside down, pull the throttle down and switch off the remote control first. Never touch the drone when blades are still moving.

## Trim Your Drone

Move the throttle forward and see how the drone reacts.

**Forward/Reverse Movement Trim:** If the drone tends to move forward, press ◀; if it tends to move backward, press ▶.

**Left/Right Slide Trim:** If the drone tends to slide right, press ◀; if it tends to slide left, press ▶.

**Note:** The remote control beeps when you press a trim control but stops beeping when you reach maximum trim adjustment.

## Land Your Drone

- Slowly move the throttle backward to descend. Avoid moving the throttle too quickly, as it can stop the blades instantly and cause the drone to crash.
- After playing, turn off the remote control and remove the drone's battery.

## Perform Stunts

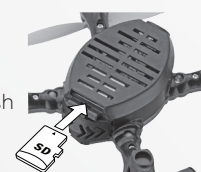
**IMPORTANT:** Make sure there is enough space for the drone to perform stunts without crashing into objects or people.

- Push the throttle control in so that the remote control beeps repeatedly to enter stunt mode.
- Use the steering control to perform stunts:
  - Front flip:** Move steering forward
  - Back flip:** Move steering backward
  - Barrel roll:** Move steering right or left
- The drone automatically exits stunt mode after performing a stunt.

## Using the Camera

- Insert a micro SD card (not included) in the card slot as shown. Push the SD card in until it clicks.
- During flight, press once to take a photo, or press and hold to record a video. Release the button to stop recording.
- After flying, to remove the SD card, press it to eject.

**Note:** Before inserting the SD card, make sure it has enough free space. The SD card fits the slot only one way. Do not force it.



## Troubleshooting

### Drone does not respond

- Make sure the drone and remote control are switched on and paired.
- Drone battery maybe low. Fully charge the battery. See **"Charge the Drone Battery"**.
- Make sure the drone is within the control range (65 ft./20 m) and in line of sight.

### Drone difficult to control

- The throttle control is very sensitive. Use small, fine movements to control.
- Practice in **Ez** (Easy) mode.
- Propellers may be deformed/ damaged. Adjust the propellers by hand. If you cannot adjust them, replace with the spare propellers.

### FLY SAFELY

- Adult supervision is recommended at all times.
- Fly the drone safely. If it crashes, the SD card may fall out and be lost.
- Keep eyes, hands, hair, and loose clothing away from moving propellers.
- Do not fly the drone near or at other people or animals.
- When flying indoors, keep the drone away from walls, air conditioning, air vents, fans, breakable objects, and other obstacles.
- When flying outdoors, keep the drone away from power lines, trees, weeds, and water.
- Do not fly your drone over private property where you are not welcomed.
- Do not fly your drone where emergency responders are working, or emergency aircraft are operating.