

AMCREST

SKYLIGHT DRONE MODEL A3-B FLIGHT MANUAL



Flight Time: 7 minutes

Charge Time: 90 minutes



Allow the battery to charge fully before operation.

Battery requirements for transmitter:

4 X 1.5V "AAA" size batteries (not included)

The drone is equipped with a Li-Poly rechargeable battery, is set to maximum speed.

Please also pay attention to the following safety precautions:

Note:

- * Always dispose of old batteries responsibly
- * When flying outdoors make sure the drone

Safety Precautions

- * Do not leave the battery near a direct heat source such as fire or space heaters.
- * Do not strike or throw the battery against any hard surface.
- * Do not immerse the battery in water. Always store the battery in a cool dry place.
- * When recharging the device, only use the battery charger intended for this product.
- * Do not allow the battery to set on the charger for over 90 minutes.
- * Do not operate your drone without a fully charged battery.
- * Do not directly solder the battery to the device or pierce it with a nail or other sharp object.
- * Do not transport or store the battery together with other metal objects.
- * Never leave a charging battery unattended.
- * Please read through the manual before using.
- * To avoid a choking hazard, keep all small parts out of reach of small children.
- * Never leave the drone unattended during battery charging.
- * Never throw any batteries in a fire.
- * Never fly the drone near other people.
- * Keep all body parts away from the drone while the rotor blades are spinning.

- * Never try to repair circuitry. No serviceable circuitry are located inside the drone or transmitter.
- * To avoid a choking hazard, keep all detachable parts out of reach of small children.
- * The drone is very powerful when taking off. Make sure to move the throttle forward gradually to avoid it rising too quickly.
- * After initial flight, turn off the drone first before you turn off the controller.
- * Do not put the battery in high temperature or near extreme heat source.
- * To avoid injury or damage, the drone should be flown 2 meters / 7 feet from people or other obstacles.
- * Children should only fly the drone under adult supervision. Always keep the drone in clear sight while operating.
- * Always make sure to turn off the power of the controller and drone when not in use.

Battery Protection

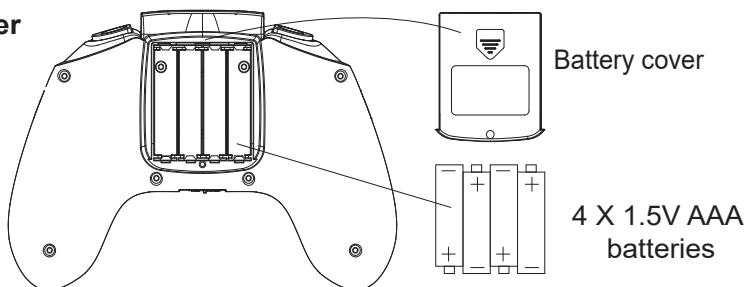
The drone is equipped with low-voltage protection. When the batteries for the drone are low, the internal programmed control system will automatically stop electrical supply to the drone's rotors. When the batteries are low, bring the drone to an area where you can begin charging the battery. Allow the battery to charge fully before flying the device again.

Maintenance

- * Clean the drone with a clean, dry soft cloth only.
- * To avoid irreparable damage, keep the drone dry and away from water. Do not fly in rainy conditions.
- * Check the drone and accessories for any damage. If damage is found, do not use the drone until it is repaired.

Battery Installation & Charging

Controller



To install the batteries: Open the cover of battery case, insert 4 X 1.5V AAA batteries, according to indicated polarity (batteries not included).

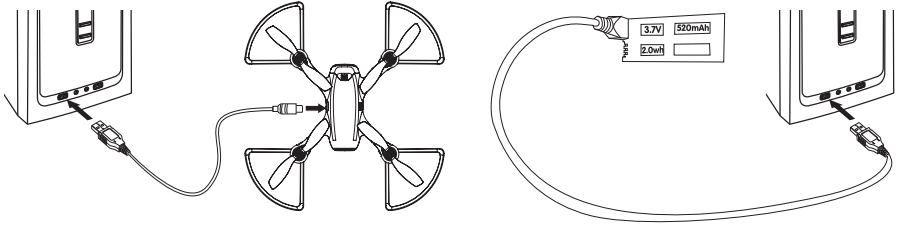
Battery installation should be done under adult supervision only!

Do not mix old and new batteries.

Do not mix different types of batteries.

Charging

Insert one side of the USB connector into the drone/battery, and the other side into any computer USB port.



Allow the battery to charge fully before operation. A fully charged battery will provide about **7 minutes** of flight time per charge. When the green light on the battery disappears, the battery will be fully charged and ready for use. Charging a battery should take no longer than 90 minutes.

Controller

Takeoff/Land

Press one time to unlock the drone
press again for slowly landing
Press for 3 seconds for emergency stop

Speed Select

Push in once to change speed (Listen to beeps)
Slow speed - one beep
Medium speed - two beeps
High speed - three beeps

Throttle /Left Stick

Trim buttons on the controller are used to help balance the drone while in flight. For more information on trim, refer to pg. 5

Trim button

One key return function

Power light

Power On/Off
Turns the controller on/off.

No Function

Not applicable for this model.

No Function

Not applicable for this model

Rudder (Flip)

Press down once (one beep sounds) and then control rudder to perform flip function

Right Stick/Rudder

Trim button

Trim button

Headless mode

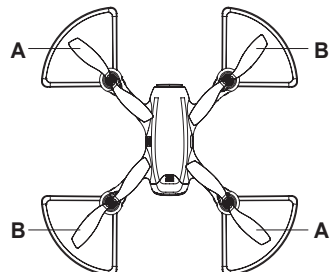
Press once to go into headless mode, press again to quit headless mode. For more information on Headless mode refer to the "Headless Mode" section of this manual.



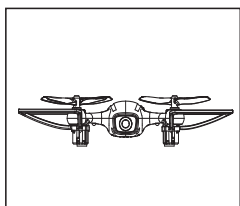
The drone comes equipped with a spotlight on the front. This spotlight can not be turned off, however, will flash when in headless mode.

Drone

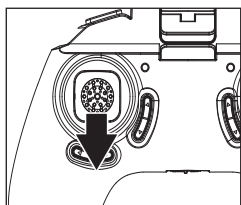
The drone will come with a set of 4 replacement rotor blades. These rotor blades will be denoted by two different types; (A) type and (B) type rotors. You will see the "A" and "B" letters on the canopy of the unit. When replacing the blades of the device be sure to replace the new blades into the rotors on the motor according to their specific rotor types.



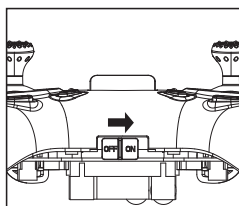
Operating Steps



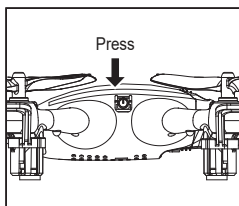
1. Place the drone onto a level surface.



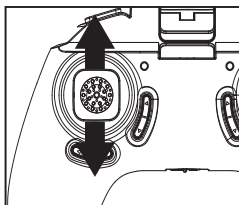
2. Hold the left stick/throttle down on the controller. Continue holding until the end of step 3.



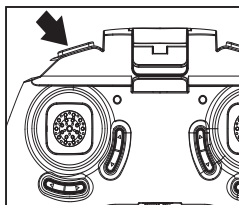
3. Turn on the controller. The power button is on the bottom of the controller. Release the left stick/throttle.



4. Turn on the drone. **The power button is on the side of the drone.** Once the drone is turned on the LED lights will begin to flash indicating the drone is ready to be paired to the controller.



5. To pair the drone, move the left stick/throttle up and down. **If successful, the LED lights on the drone will stop flashing and stay solid.** If unsuccessful, turn off each device and restart from step 2.



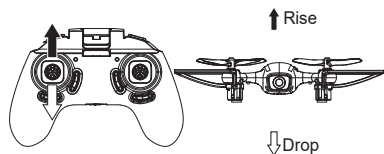
6. After the drone is paired to the controller, press the **takeoff/land** button on the top left of the controller to start the motor. To **launch**, move the left stick/throttle up. To **land**, press the takeoff/land button.



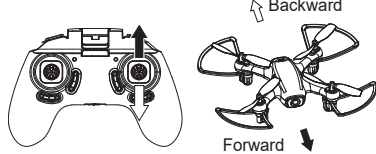
The red LED lights indicate the front of the drone, the green LEDs lights indicate the rear of the drone.

Operation and Control

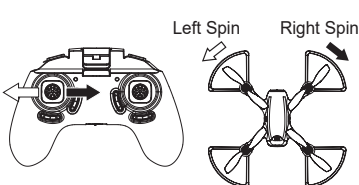
Up and down



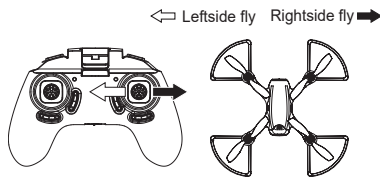
Forward and Backward



Left Spin and Right Spin

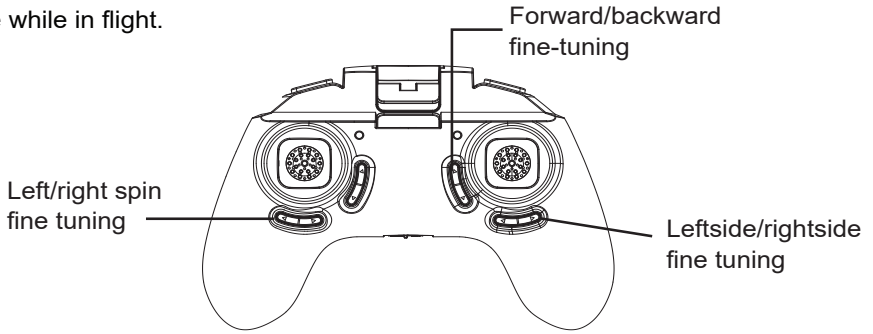


Leftside and Rightside



Trim Fine Tuning

Trim is used to balance the drone while in flight.

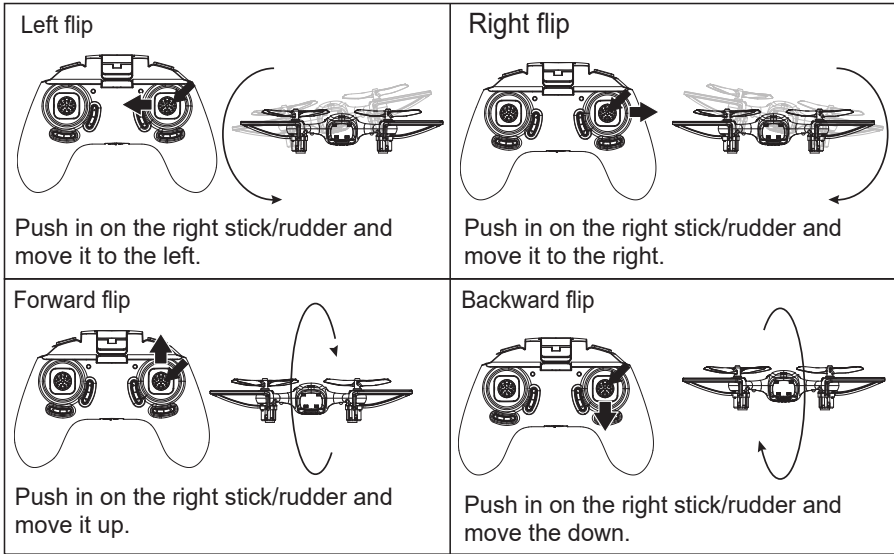


Backward Trim	<p>← Forward</p>		<p>Backward Trimmer</p>
Forward Trim	<p>Backward →</p>		<p>Forward Trimmer</p>
Leftside Trim			<p>LeftSide trimmer</p>
Rightside Trim			<p>RightSide trimmer</p>
Left spin Trim			<p>Left Spin trimmer</p>
Right spin Trim			<p>Right Spin trimmer</p>

Radical Flips & Rolls

You can perform flips and rolls with your drone in any speed setting.

To perform a flip or roll with your drone push in on the right stick/rudder. You will hear a click and a beep will sound. Move the right stick/rudder in the direction you want to flip or roll.

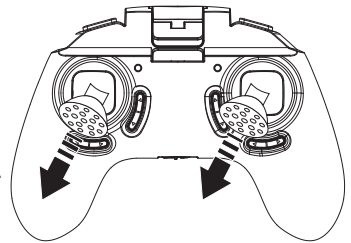


Before you perform a flip or roll on your drone, make sure you have enough space to prevent damage or injury to others.

Auto Calibration

To enable this function on the controller, turn on the controller and drone then press the throttle and rudder sticks both to a 45° angle as shown in the image to the right. Hold this position for 10 seconds and a light will illuminate on the drone.

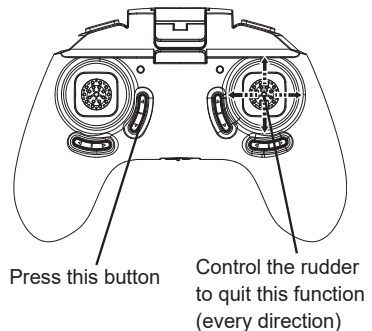
Once you see this action, release the throttle and rudder. The lights on the drone will remain on until the calibration process is complete.



One Key Return Function

While in flight, locate the return flight button on your controller and press the button one time. Once initiated, the drone will automatically set its front side to the front direction indicating a one-key return is being performed. If you want to reset the front direction, then you will need to turn off the drone turn it back on and calibrate it.

To control the drone upon landing, use the directional rudder controls to guide the drone to a safe place to land. To quit this function, move the rudder controls to every direction until the one-key return function quits.



Headless Mode

Headless mode is used to align the drone's movements to be relative to the controller no matter which way the drone is facing.

HOW TO GET ENABLE/DISABLE HEADLESS MODE?

Press the button on controller(as shown in Figure A on the right) when pressed you will hear a beep sound indicating the drone is in headless mode. To quit headless mode, press it again and you will hear another beep sound indicating that headless mode has been disabled.

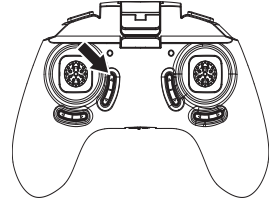


Figure A.

HOW TO RECOGNIZE THE " FORWARD SIDE" UNDER HEADLESS MODE?

When the drone initially takes off and the LED lights on the device stop flashing the drone will have its front side to the front direction of the controller. The red LEDs on the drone indicate the front/forward side, the green LEDs indicate the rear of the drone.

1



If you want to reset the orientation of headless mode, you need to turn off the device and auto calibrate it.



2



FCC Compliance

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.

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

Compliance Information

FCC Warning Message

Any 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a class B digital, 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 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.
- Consult the dealer or an experienced radio/TV technician for help.

IC RSS Warning

This equipment complies with Industry Canada license-exempt RSS standard(s). 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.

This device has been designated to operate with the antennas provided within the equipment. Use of other antennas may violate industry Canada rules and void the user's authority to operate the equipment.

Son fonctionnement est soumis aux deux conditions suivantes:

- 1) Cet appareil ne doit pas causer d'interférence nuisible et
- (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

Cet appareil a été conçu pour fonctionner avec les antennes fournies dans l'équipement. L'utilisation d'autres antennes peut enfreindre les règles de l'industrie du Canada et annuler l'autorité de l'utilisateur à utiliser l'équipement.

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 - Canada: 437-888-0177
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