

SPIDEX

Instruction Manual



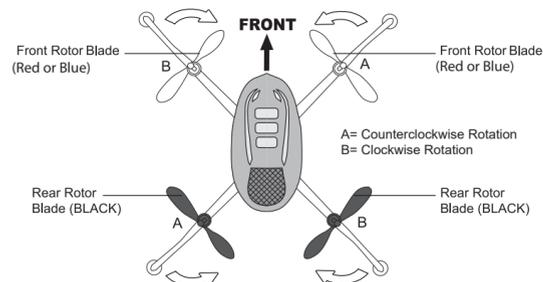
AZSQ1900

Please read the manual and retain it for future reference. For the latest manual and helpful service videos please go to Ares-RC.com and check the support tab.

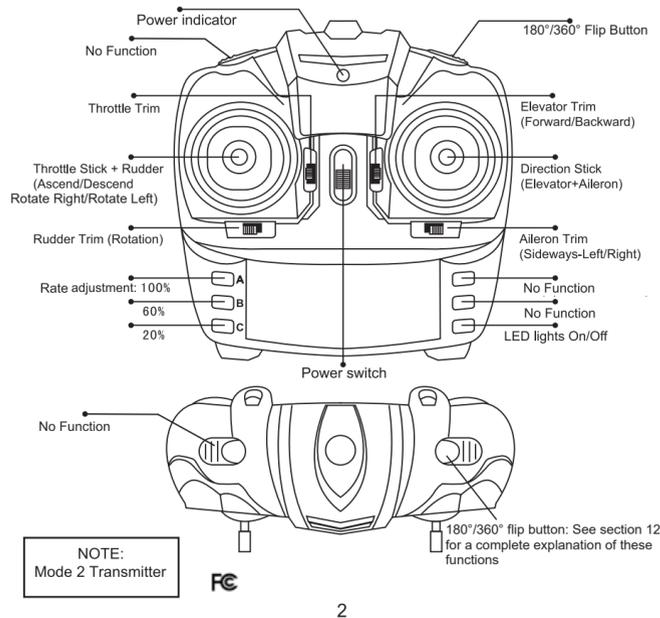
1. Main Features

- 2.4GHz 4 channel radio
- 3 Rates, 20%,60%,100%
- 180°/360° Flip Button
- 300mAh 3.7V LiPo Battery
- USB LiPo Battery Charger
- LED lights for easy orientation
- Long flight time
- Lightweight durable frame
- Second set of props included

2. Spidex 3D General Layout



3. Transmitter Functions



NOTE: Mode 2 Transmitter

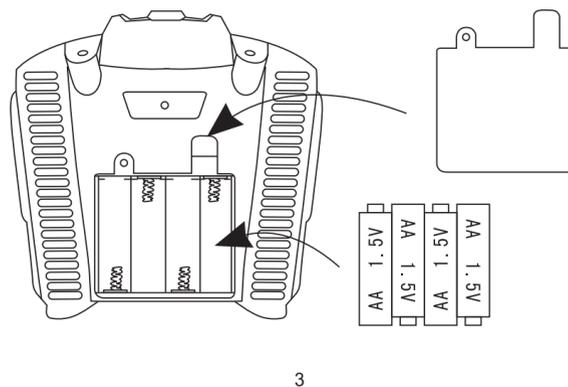
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4. Safety Precautions

1. Please read and follow the instructions carefully.
2. Fly the quadcopter in an open area and within your line of sight.
3. Never fly the quadcopter in crowded areas near people or animals in order to prevent personal injury or property damage.
4. Do not attempt to modify the quadcopter.
5. Keep away from small children as small parts can create a choking hazard.
6. Maintain a safe distance from the quadcopter when flying to avoid injury.
7. Do not dispose of batteries in a fire.
8. Do not dispose of batteries in the trash. Only recycle in an environmentally safe and approved fashion.
9. Never subject the quadcopter to wet conditions, this can lead to malfunction and parts failure not covered under warranty.
10. Parental guidance highly recommended.

5. Installing Transmitter Batteries

1. Slide open the battery compartment lid.
2. Insert 4 AA batteries, match the polarity as indicated. Do not mix battery types. (Batteries not included).
3. Close battery compartment cover.



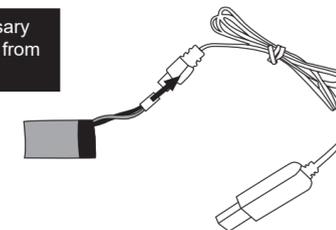
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6. Charging the Quadcopter LiPo Battery

1. Plug the USB charger into a suitable 5V USB port.
2. The red LED indicates power is supplied to charger.
3. The LED goes out when charging is complete.

NOTE: The supplied USB charger is suitable for charging 1-cell LiPo batteries ONLY

Note: It is not necessary to remove the battery from the quad to charge.



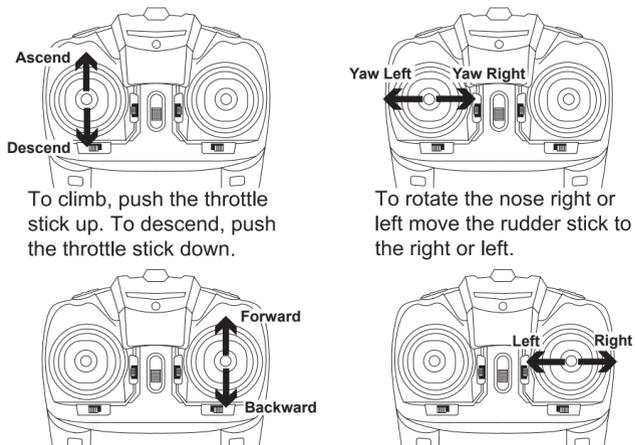
CAUTION: Never leave LiPo batteries unattended during the charging process.

7. Preparing to Fly & Binding

1. The Spidex is designed for indoor and outdoor flight.
2. Recommended minimum flying area 12' x 12' x 9' clear space.
3. Make sure that the quad and transmitter battery are fully charged.
4. Turn the transmitter OFF. Lower the throttle stick to its lowest position. Place the transmitter near the quadcopter.
5. Insert the charged LiPo battery into the battery box and plug in.
6. Place the quadcopter on a flat surface and Do Not Move the quadcopter after this point. LEDs on quad will be blinking.
7. Switch ON the transmitter. The red LED on the transmitter will begin to blink. The binding process begins.
8. Move the throttle stick from Low to High and back to Low, the LEDs will stop blinking and stay on.
9. The quadcopter is armed (bound) and ready to fly. Advance the throttle slowly to rise off the ground.
10. When the flight battery power gets low, the LED's on the quadcopter will blink indicating that it is time to land and recharge.

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8. Flight Controls



To climb, push the throttle stick up. To descend, push the throttle stick down.

To rotate the nose right or left move the rudder stick to the right or left.

To move forward, push the elevator stick forward. To move backward, push the stick backward.

To move right, move the aileron stick right. To move left, move the aileron stick left.

9. Trimming

If your quadcopter is drifting while in a hover the first step is to stabilize the quad by using the trim tabs on the transmitter. If the quad is drifting to the right you would need to push the aileron trim to the left. Each time you push the trim the transmitter beeps, it may take several trim steps to stabilize the quad. Use this same procedure for forward and back drift using the elevator trim and similarly, if the quad is rotating use the rudder trim to correct.

Sometimes when performing a flip the quad will tend to drift in the direction that the flip was performed in. Rather than trying to trim the quad with the trim switches, you may find it quicker and easier to perform a flip in the opposite direction to stop the drift.

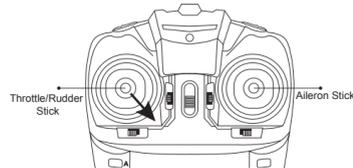
After a crash you may find that the quad is far out of trim and may not take off without flipping. This is the time to recalibrate the quad. See section 11

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10. Calibration

If the quadcopter drifts and will not maintain its position in a hover you may need to recalibrate. Follow these steps:

1. Place quad on a level surface with the throttle OFF.
2. Power up the quad as you would to fly.
3. Push the rudder stick to the bottom right limit of travel, the LEDs will begin to blink. Return the stick to neutral, when the LEDs stop blinking calibration is complete.
4. The quadcopter is now recalibrated and ready for flight.



11. Setting Quadcopter Rates

The 3 rate buttons on the lower left of the transmitter are used to control the sensitivity of the quadcopter controls.

- A: 100% = High Rates (Expert level for highest speed)
- B: 60% = Mid Rate (Good response for normal flying)
- C: 20% = Low Rate (Best for Beginners)

12. 180°/360° Flips and Rolls

Spidex 3D can perform both 180° and 360° flips and rolls with ease. Once you have mastered the normal flight controls of the quadcopter you are ready to try these. The quad should be in Mid or High rates for these maneuvers. The quad will react the same to transmitter input when upright or inverted making fun inverted flight easy to master.

180° Flips and Rolls

1. Select an open space clear of obstacles and away from bystanders.
2. With the quadcopter in a steady hover at about eye level press and release the flip button on the upper right of the transmitter with your index finger.
3. Move the right stick Forward, Backward, Left or Right, the quadcopter will do a 180° flip to a stable inverted hover.
4. While inverted the control of the quadcopter will be the same as when it was upright.

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5. To return to upright, press and release the button again and choose the direction of the flip as before.

360° Flips and Rolls

1. To switch to 360° flip mode press and hold the flip button on the upper right of the transmitter for about 1 second, you will hear 2 beeps indicating you are in 360° mode.
2. Press and release the button again to activate flip mode.
3. Move the right stick Forward, Backward, Left or Right, the quadcopter will do a 360° flip to a stable hover.
4. To return to 180° mode press and hold the flip button again for about 1 second, you will hear a single beep indicating you are in 180° mode.

NOTE: 360° flips can be performed upright to upright or inverted to inverted

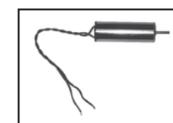
13. Spare Parts



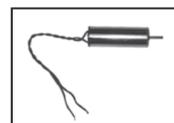
AZSQ19181 Red/Black
AZSQ19182 Blue/Black



AZSQ19201 Red
AZSQ19202 Blue



AZSQ1913 Motor
Clockwise Rotation



AZSQ1914 Motor
Counter-Clockwise
Rotation



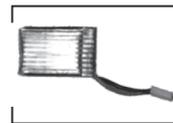
AZSQ1912
Main Frame



AZSQ1906
4-in-1 Control Unit



AZSH1623 500mA
USB Charger



AZSQ1905 1S 300mAh
22C LiPo Battery



AZSQ1908 2.4GHz
4-channel Transmitter

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14. Warranty and Service

30-Day Limited Warranty Term Period:

We warranty that the Product(s) purchased (the "Product") will be free from defects in materials and workmanship when the product is new (before being used) for the limited warranty term period, 30 days, from the date of purchase by the Purchaser.

If you believe a defect in material, workmanship, ect. was not apparent when the Product was new and only became evident after the Product was used, take the following steps. If you purchased the Product at a HobbyTown store, please contact your local HobbyTown store for warranty support and/or service. If you purchased the Product from the Firelands website, use the contact information found under the Support heading to contact Firelands directly.

If you contact Firelands, you may be asked to send the product to Firelands, at your cost, for inspection. Provided the warranty conditions have been met within the warranty term period, the components that are found to be defective, incorrectly manufactured or assembled may be repaired or replaced, at the sole discretion of Firelands. Your warranty item will be returned to you at Firelands' expense. In the event your product needs repair or a replacement part that is not covered by this warranty, your local HobbyTown store or Firelands can assist you with support and in obtaining the genuine replacement parts to repair your Product. Firelands will charge \$40.00 per hour plus the cost of replacement parts to service your vehicle if after contacting you, you so authorize such repairs. Your product will be returned to you at your expense.

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