

# EDA302C

## USERMANUAL



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● 32 bit MCU ● 6 Axis GYRO ● 24GHZ digital Controller

**WARNING****IMPORTANT**

1. This product is only suitable for users over the age of 14. There will be some difficulty piloting this quadcopter in the beginning. Adult/Guardian supervision is recommended.
2. The Quadcopter is designed with delicate electronic & mechanical parts. If you are unfamiliar with operating the quadcopter, do not fly it near large crowds. Improper operation may cause serious bodily injury or property damage.
3. For service or repair please contact the appropriate distributor.

**1. INCLUDED ACCESSORIES**

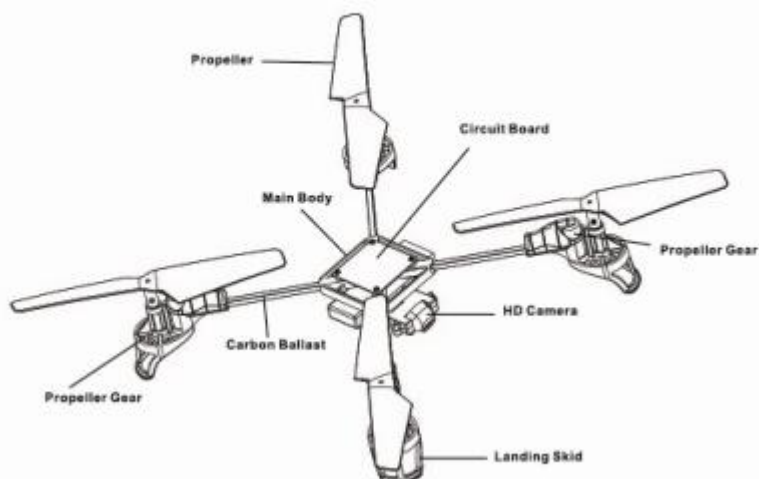
A918 battery  
3.7V500mAh



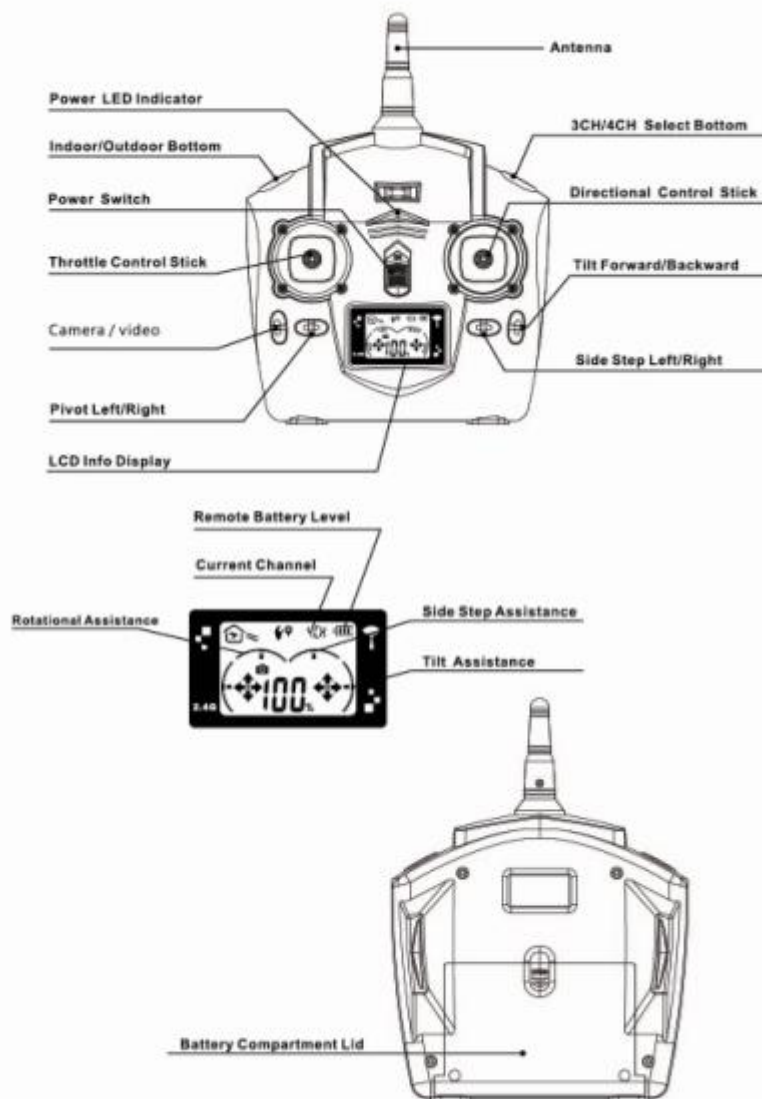
A918 -charger



Propeller X4

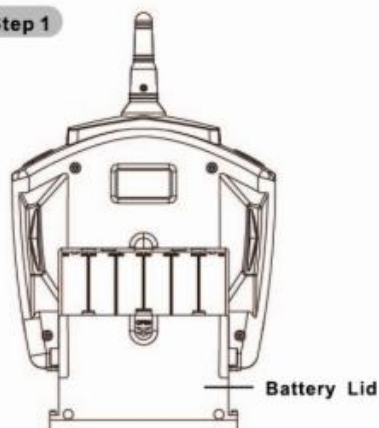
**2. QUADCOPTER PARTS**

### 3. REMOTE CONTROL GUIDE



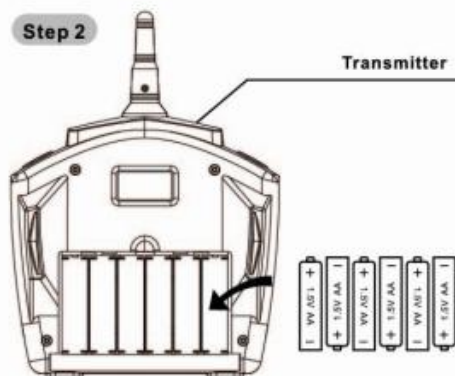
#### 4. REMOTE CONTROL BATTERY INSTALLATION

Step 1



Open the battery lid by sliding the lid in the direction of the arrow.

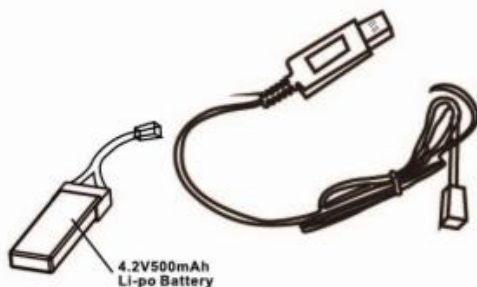
Step 2



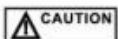
Please use 6 X AA size batteries, installed as illustrated above. Do not mix batteries. (Batteries not included)

#### 5. CHARGING QUADCOPTER BATTERIES

Use the wall charger to charge the quadcopter battery.



Please use the included charger to charge the battery. Connect the battery plug into the charger.



LED Indicator LED

|                            |          |
|----------------------------|----------|
|                            |          |
| Idle and Charge Completion | Charging |

Charger Specifications

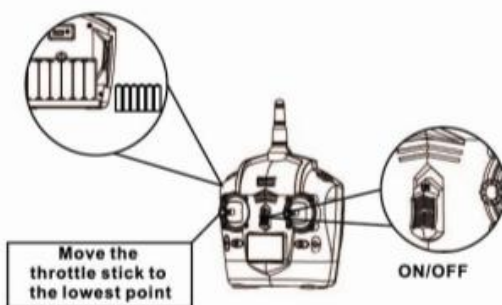
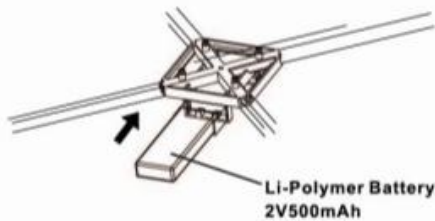
| Input | Charging Current | Full Voltage |
|-------|------------------|--------------|
| 5V    | 420~450mA        | 4.2±0.03V    |

#### 6. BATTERY AND CHARGER SPECIFICATION

Battery usage and charge duration reference

| Battery type                      | Battery Specification | Usage Duration                                                                                 | Charge Time                                           |
|-----------------------------------|-----------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Lithium Polymer Battery           | 3.7V 240mAh           | Quadcopter flight time<br>Approx. 8-10 Minutes                                                 | Approx. 35 Minutes<br>(Charging current Approx. 0.5A) |
| Carbon-Zinc<br>(Non Rechargeable) | 1.5V(GP 15G R6P)      | Remote Control Operation Time 18 Hours<br>Used for Lithium Polymer Charging<br>Approx. 3 times | Non Rechargeable                                      |

## 7. GETTING READY TO TAKE OFF



### Step 1

Insert the battery into the quadcopter, and plug the battery wire to the quadcopter. When the two indicators lights are flashing, put the quadcopter flat on the ground.

**Important:** Make sure the quadcopter is placed on a flat surface. After connecting the interfaces, the Gyroscopes need to calibrate before take off.

### Step 2

Switch on the power. The remote's indicator light will flash. Push the throttle to the top, and then back to the lowest position. The indicator will light up once the remote is in control mode.



**WARNING**  
If the quadcopter will not be used for a long time, please remove the batteries from the quadcopter and remote control, and store in a safe place.

If batteries are left in the quadcopter/control potential leakage could occur. This may damage the unit and create fire hazards.

## 8. BASIC MANUEVERS AND PRACTICE EXERCISES

### PLEASE PRACTICE AND LEARN CONTROLS BEFORE ACTUAL FLYING

Please do not pilot the quadcopter until you are familiar with the controls. Read the instructions carefully, learn directional controls, and simulate flight practice until you are comfortable with basic maneuvers.

1. Place the quadcopter in a clear open space, with the tail of the quadcopter pointing towards you.
2. Practice operating the control sticks (as shown on next page). "Throttle high/low", "Left/right", "Forward/backward", and "Side Step left/right".
3. The simulation flight practice is very important. Please keep practicing until being capable of producing natural movement with the quadcopter.

|                                                                                                       |                                                                                                                    |                                                                                                       |                                                                                                                |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Direction</b><br> | <br>Move left      Move right     | <b>Throttle</b><br> | <br>Ascend<br>Descend       |
| <b>Elevation</b><br> | <br>Fly forwards    Fly backwards | <b>Rudder</b><br>   | <br>Turn left<br>Turn right |

#### PRE-FLIGHT CHECKLIST



- Check if the screws and propellers are firmly tightened
- Check if the remote control and quadcopter are fully charged.



- Make sure that no people or objects are in the vicinity.
- You must first practice hovering for flying safety, this is a basic flight action (keeping the quadcopter in mid air in a fixed position)
- Please stand approximately 6ft diagonally behind the quadcopter.

#### 1.) THROTTLE CONTROL EXERCISE

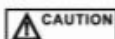


When the quadcopter begins to lift off the ground, slowly reduce the throttle to bring it back down. Keep practicing this action until you can control the throttle smoothly.

#### 2.) DIRECTION CONTROL EXERCISE



1. Slowly raise the throttle stick
2. Fly the quadcopter as shown on the left: backward/forward/, left/right , then slowly push the throttle to the opposite side to return back to the original position.



If the quadcopter flies too high up, please lower the throttle stick and land the quadcopter. Then move 6ft behind the quadcopter to continue practicing.

### 3.) RUDDER CONTROL EXERCISE

1. Slowly raise the throttle stick
2. Move the nose of the quadcopter right or left. Then slowly move the rudder stick in the opposite direction to fly back to the original position



### 4.) PRECISION CONTROL PRACTICE

Once you are familiar with all actions from exercises 1-3, practice within a circle to improve your accuracy. Reduce the size of the circle as you become more familiar with the controls.



### DIRECTIONAL CHANGE AND HOVERING PRACTICE

Once you are familiar with exercises 1-4, stand by the quadcopter and continue practicing. Then repeat the exercises by standing in front of the helicopter.

### CORRECTING FLIGHT USING PRE-PROGRAMMED MOVEMENTS

Slowly raise the throttle stick as the quadcopter lifts off the ground. You can use the pre-programmed movements to correct the actions.

#### 1. Correcting using Rotational movement

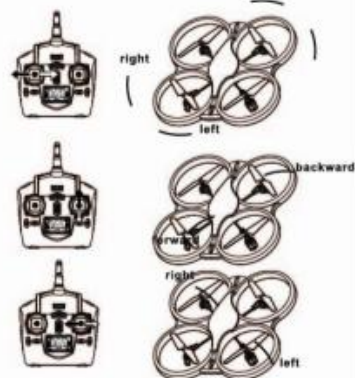
Just before the quadcopter lifts off, the nose may lean left or right. When the quadcopter leans right, adjust the trim to left side. When the quadcopter leans left, adjust the trim to right side.

#### 2. Correcting using Forwards/Backwards Tilt movement

Just before the quadcopter lifts off, the nose may lean forwards or backwards. When the quadcopter leans forwards adjust the tilt back. When the quadcopter leans backwards, adjust the tilt forward.

#### 3. Correcting using Side Step Movement

Just before the quadcopter lifts off, if the unit shifts left or right. When the quadcopter shifts right, side step to left side. When the quadcopter shifts left, side step to right side.



### ADVANCED MANUEVERS



Being stable facilitates rolls and tumbles



After you've mastered the basic movements above, you can play around with some breathtaking tumbling quadcopter action. First, set the rudder to 100%. Fly the quadcopter more than 10ft high; then push the stick all the way forwards or backwards, or left or right and release. The quadcopter will roll over.

## 9.TROUBLE SHOOTING

|   | Problem                                                                                                                    | Cause                                                                                                                                                                                                                         | Solution                                                                                                                                                                                                                                                   |
|---|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | After connecting the quadcopter to the battery, the LED indicators keep flashing, but there is no response when operating. | Unable to pair to remote control                                                                                                                                                                                              | Pair the controller and quadcopter (refer to P.7)                                                                                                                                                                                                          |
| 2 | No response after battery is connected to quadcopter.                                                                      | <ol style="list-style-type: none"> <li>1. Check if the power of remote control or receiver is connected.</li> <li>2. Check the remote control and receiver voltage.</li> <li>3. Poor contact on battery terminals.</li> </ol> | <ol style="list-style-type: none"> <li>1. Turn on control and make sure helicopter battery is inserted properly.</li> <li>2. Use fully charged batteries</li> <li>3. Re-seat the battery and make sure there is good contact between batteries.</li> </ol> |
| 3 | Motor does not respond to throttle stick, receiver LED flashes.                                                            | Quadcopter battery depleted                                                                                                                                                                                                   | Fully charge the battery, or replace with a fully charged battery                                                                                                                                                                                          |
| 4 | Main rotor continue to spin after landing                                                                                  | Throttle stick not in the lowest position                                                                                                                                                                                     | Make sure the Throttle stick is on the lowest position.                                                                                                                                                                                                    |
| 5 | Main rotor spins but unable to take off                                                                                    | <ol style="list-style-type: none"> <li>1. Deformed propellers</li> <li>2. Quadcopter battery depleted</li> </ol>                                                                                                              | <ol style="list-style-type: none"> <li>1. Replace main propellers.</li> <li>2. Charge or replace with a fully charged battery.</li> </ol>                                                                                                                  |
| 6 | Strong vibration of quadcopter                                                                                             | Deformed propellers                                                                                                                                                                                                           | Replace main propellers                                                                                                                                                                                                                                    |
| 7 | The quadcopter still keeps turning after rudder trim, or inconsistent speed during side step.                              | <ol style="list-style-type: none"> <li>1. Damaged rotors</li> <li>2. Damaged drive motor</li> </ol>                                                                                                                           | Replace the main wing<br>Replace the main motor                                                                                                                                                                                                            |
| 8 | The quadcopter shifts forward or backwards                                                                                 | Gyroscope is not centered or calibrated.                                                                                                                                                                                      | Restart the qudcopter and control to recalibrate the Gyroscopes.                                                                                                                                                                                           |
| 9 | Can not fly the helicopter after crash                                                                                     | <ol style="list-style-type: none"> <li>1. Motor fell out</li> <li>2. Rotors loosend</li> </ol>                                                                                                                                | <ol style="list-style-type: none"> <li>1. Install the motor again</li> <li>2. Tighten the Rotors</li> </ol>                                                                                                                                                |

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.