6-AXIS DRONE

INDOOR / OUTDOOR 2.4 GHz
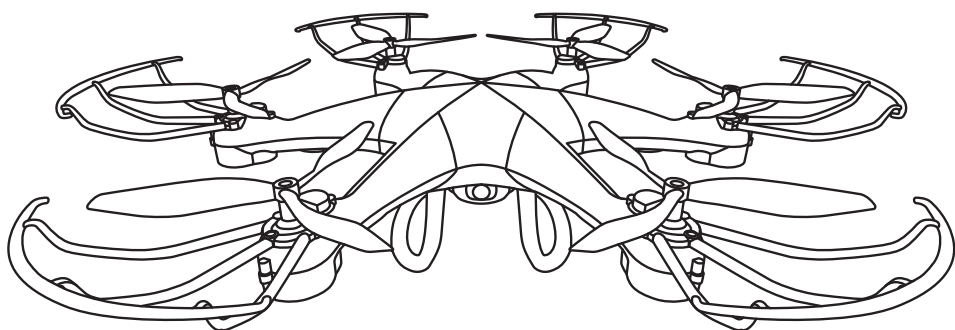
HEADLESS MODE | **AUTO HOVER** | **100 M RANGE**

APEX
AVIATION PRODUCTS

Parts available online at **ShopAtShowcase.com**

Item # 14139

Thank you for purchasing our Apex Drone. Please read this instruction manual carefully in order to master the skills necessary to operate this product safely. Please keep this instruction manual for future reference.

IMPORTANT INSTRUCTIONS

1. This product is a piece of high performance equipment that integrates high tech mechanics with state of the art electronics. You should operate it in a safe and controlled environment. Please note that improper use may result may result in severe injury or loss of property.
2. This product is recommended for ages 14 and up. Children must be supervised by an adult at all times.
3. Operate the Apex Drone according to the guidelines in the manual.
4. Please operate the Apex Drone in wide open areas, away from people, pets and obstacles.
5. Please note the manufacturer and distributer are not responsible for any injury, damage or loss of property resulting from improper use.
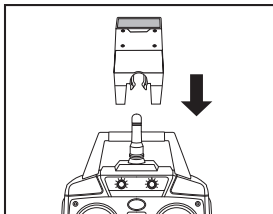
SAFETY NOTICES

This Apex Drone may cause injury. Please ensure to operate the Apex Drone away from people, animals, vehicles and property. Inspect the Apex Drone for damage prior to, and after, each use.

1 .Keep it far away from obstacles and people.
2. Do not operate the Apex Drone in wet or moist conditions.
3. Follow all safety instructions and guidelines for use in the manual.
4. Keep the Apex Drone away from heat sources and electrical equipment.
5. Please follow the power on and power down sequences carefully. The incorrect sequence of actions may cause the Apex Drone to behave unpredictably, resulting in damage or harm to users.
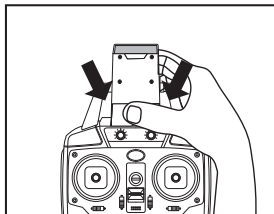
CONTENTS

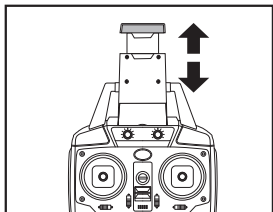| ITEM NO.	WHAT'S IN THE BOX
14139	

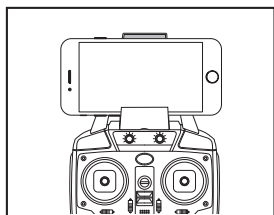# HOW TO ASSEMBLE AND UNASSEMBLE THE MOBILE PHONE MOUNT

1. Put the back of the mobile phone mount in position to match the antenna and handle of the controller.

2. Press the controller into the mobile phone mount until it clicks
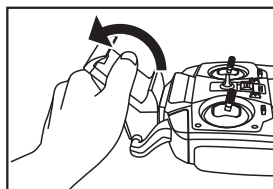
**3. Adjust the mount up or down, according to fit the size of the mobile phone. (The width is 8.5cm)**

4. After you place your mobile phone on the mount, open the software and you can enjoy the real time video showed on your phone.
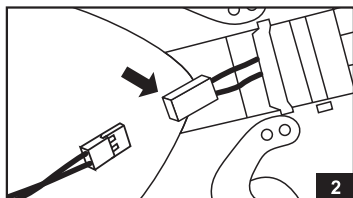
UNASSEMBLING THE MOBILE PHONE MOUNT

When you want to take out the mobile phone mount, you need to pull it upwards, and away from the remote.

BATTERY CHARGING - FIRST STEP
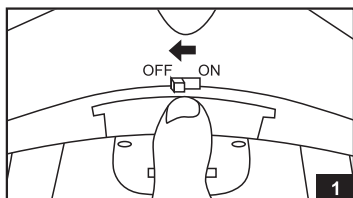
1. Push the on/off switch of drone to OFF position then open the battery cover.

2. Pull out the battery wire from the power port inside the drone.
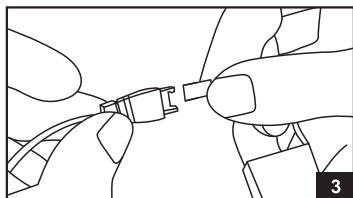
3. Take out the USB charging cable inside the drone, and connect the battery power port.
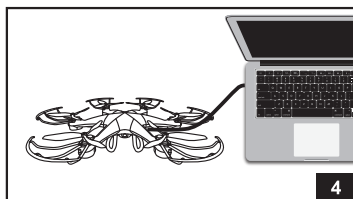
4. Connect the USB charging cable to an adapter, computer, or other suitable charging device.

The indicator light will turn OFF while charging the battery. Once the red light turns ON, the battery is fully charged.
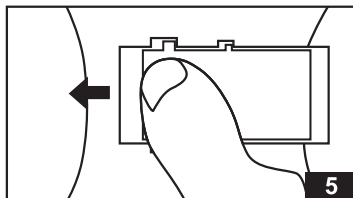
5. When finished charging, reconnect the battery wire to the power port, and then close the battery cover.

Charging time: About 120mins- Fly time: about 6-8mins

GET TO KNOW YOUR REMOTE

INTRODUCTION OF TRANSMITTER

❷ Power Light

❸ Left control lever (accelerator and headless mode)

❹ Left/Right Fine-tuning

❺ Light Control and Low/Medium /High Speed Switch

❻ Power ON/OFF

❶ 360 Flip

❼ Right Control Lever and Auto-return

❽ Sideward Fine-tuning

❾ Forward/Backward Fine-tuning

INSTALLING THE BATTERY

Battery Cover

4 X AA(LR06) 1.5V Batteries
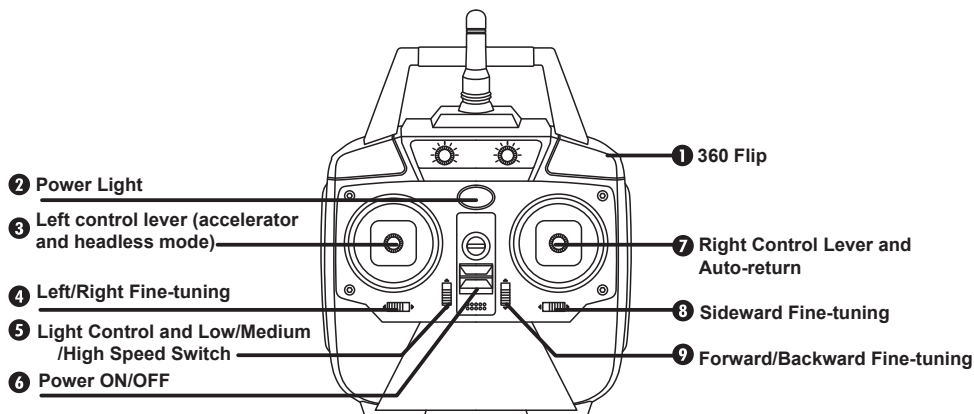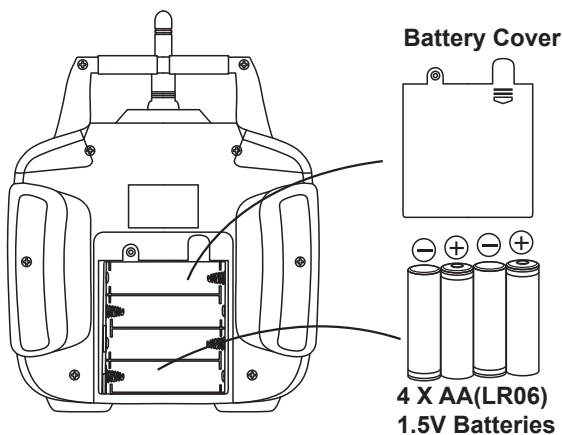
1. Open the battery cover and install 4 AA Batteries (not included) into the back of transmitter then replace battery cover and reinstall the screw.

⚠ 1.Install batteries with correct polarity.
2.Do not mix old and new batteries.
3.Do not mix different types of batteries.

HOW TO RESET YOUR DRONE

In case of drifting or uneven flight, restore factory default settings by the following methods:

① **Press the power switch to turn on the remote.**

② **Press the power switch to turn on the Apex Drone.**
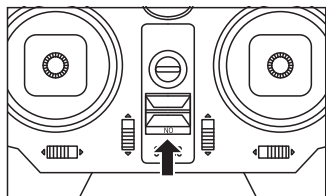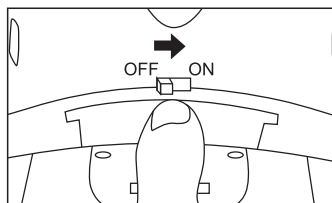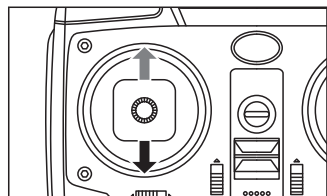
③ **When the Apex Drone indicator rapidly flashes, please push the throttle lever to the highest position, and then pull back to the lowest position.**

Then the Apex Drone indicator will change from flashing to solid lights. The drone is now in a pre-flight state.
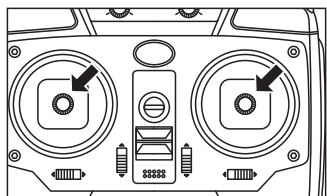
④ **Place the Apex Drone on a horizontal surface. Push transmitter both left and right to lowest left corner for about 2-3 seconds.**

The indicator on the Apex Drone will change from solid light to flashing. After 2-3 seconds, the indicator will change to solid lights. It means the Apex Drone restarted/reset successfully.

OPERATING DIRECTION

UP AND DOWN

Push the throttle up or down, the Apex Drone flies upward or downward.

TURN LEFT AND RIGHT

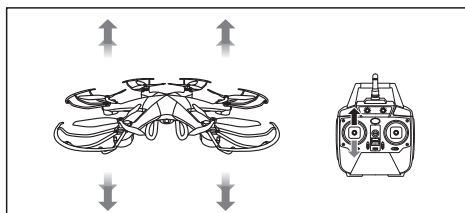**Pull the throttle left or right, the Apex Drone turns to left or right.**

FORWARD AND BACKWARD

Push the direction lever up or down, the Apex Drone flies forward or backward.

SIDEWARD FLY
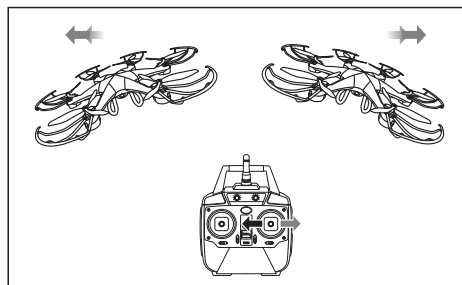
Pull the direction lever left or right, the Apex Drone flies to left side or right side.
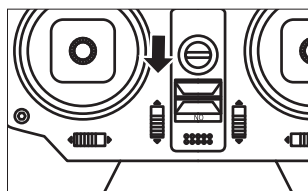
In order to adapt for more player skills, our controller has three different speeds - Low/Medium/High Speed.

Speed can be changed by pushing down button 5 on the transmitter.

FINE-TUNING ADJUSTMENTS

Forward/Backward fine-tuning
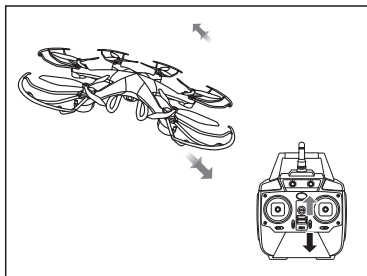
When the Apex Drone keeps flying forward/backward, correct it by pressing the fine-tuning button down/up.

When the Apex Drone keeps flying to left/right side, correct it by pressing the fine-tuning button right/left.

Sideward fly fine-tuning

Tum left/right fine-tuning

When the Apex Drone keeps rotating to left /right, correct it by pressing the fine-tuning turn button right/left.

LIGHT CONTROL FUNCTION
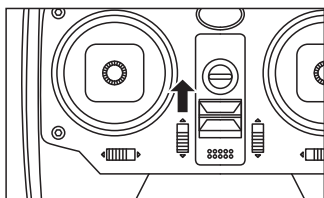
The LED light on the product can be controlled by pushing button "5".

Push this button and the light will turn on. Push this button again, and the light will turn off.

HEADLESS MODE FUNCTION

Under normal control mode, controls are relative to the front and back of the unit. When headless mode is activated, the controls are relative to the remote regardless of which direction the Apex Drone is facing.
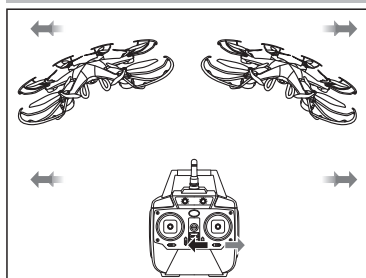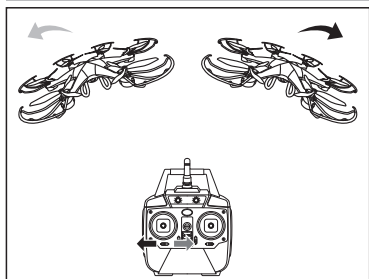To activate Headless Mode, push down on the left throttle until you hear a click. Push down on the left stick again to cancel Headless Mode.

When using Headless Mode, no matter which way the Apex Drone is actually facing, if you throttle forward, the drone will actually move forward as per the original position set, regardless of which way the Apex Drone currently faces. This makes the Apex Drone much easier to fly and operate safely.

CORRECT	WRONG
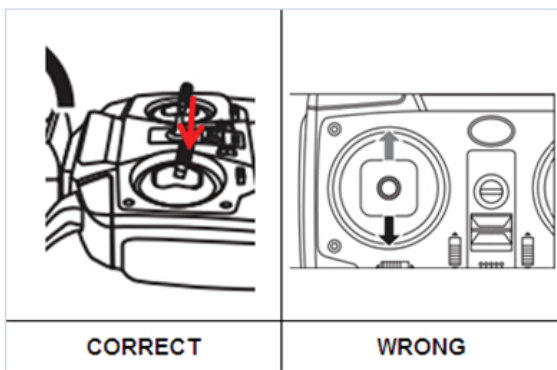
AUTO RETURN FUNCTION
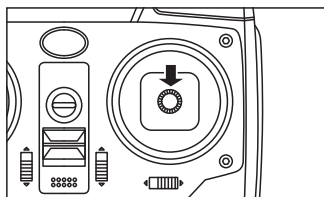
When you want the Apex Drone to auto-return, ensure the Apext Drone is in front of you.

Press in the right control lever and it will return in the general direction of the remote. This function can commence operation at any time.

ALTITUDE CONTROL FUNCTION

When the Apex Drone is at the desired height, push down on the right stick until you hear a click. This will lock the Apex Drone to the current height.
Push down on the right stick again to cancel the altitude control function.

See headless mode figure for correct method.

When using Altitude Control, the Apex Drone will stay at approximately the same height, regardless of other input. This can make the Apex Drone much easier to fly and operate safely.
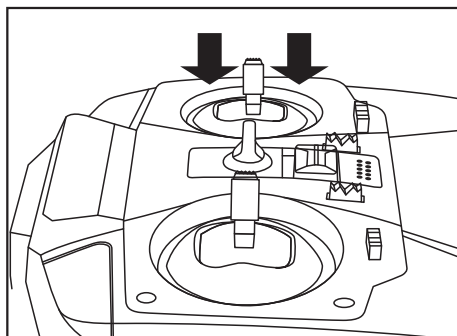
STUNT MODE INSTRUCTIONS

Thanks to the 6 axis gyroscope, you can throw the Apex Drone and push the throttle right up, it will automatically level out and hover smoothly in the sky. This can also be done when the Apex Drone is rolling.
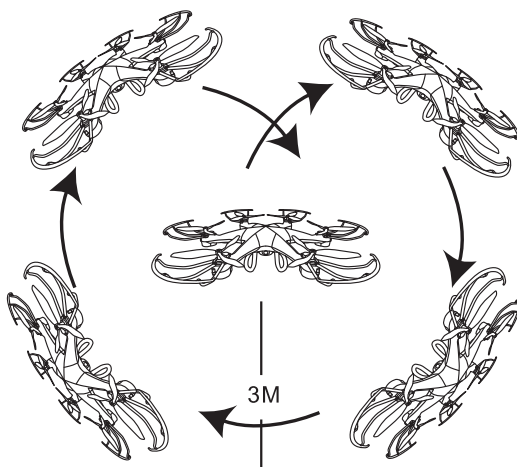
When you are familiar with the basic operation, you can do some awesome & exciting tricks!
Fly the aircraft to a height of more than 3 meters, press the 360 Flip switch on the rear right side of the transmitter, then push the right rudder (in any direction) to make 360 degree flip.

Tips:
360 Flip goes better when battery is fully charged.

BATTERY REPAIR & MAINTENANCE

1. The battery should be put in a dry or ventilated place with a room temperature of about 18-25°C.

2. In order to increase the longevity of the battery avoid excessive charging.

3. When the battery needs to be stored for a long time, please charge the battery for approximately one hour to 50-60% charge level.

CAUTIONS WHEN CHARGING

1. When charging, the drone, battery and charger cannot be anywhere close to liquids. Charging the battery must be in a dry and ventilated area. Keep it far away from heat sources.

2. When charging, batteries must be removed from the drone. Charging process should be supervised by an adult.

3. When using the computer for charging, please remember to pull out the charging cable before shutting down the computer.

4. After use, do not charge the battery if its surface is hot or swollen or damaged in any way. This may increase the risk of fire.

5. Please make sure that you use the original USB charging cable provided. When the battery has been used for a long time, or appears to be swollen, please replace it.

6. A battery when not in use for a long time will lose its charge automatically. Charging or discharging too often may reduce the life of the battery.

PROTECTIVE FEATURES

Low-Voltage Protection:
When the Apex Drone battery is low, the unit will slow down and gradually loose altitude until it comes to a stop.

Over-Voltage Protection
When the Apex Drone rotating blade is jammed, the control system will stop supplying power to the rotors automatically. Turn the Apex Drone off and follow the start up process to re-sync.

SOFTWARE DOWNLOAD, INSTALLATION AND USE

Software Download and Installation

Google Play (Android

**APP (IOS)**

360 (Android)

1. Turn on the Apex Drone, the indicator on camera turns red.

2. Enter the "setting" menu of your mobile device and turn on WiFi.

3. Find a WiFi network named "RC-LEADING" and connect to this network.

4. Open the "RC-LEADING" software, click the "play" icon into the control interface.
   You can now watch real time video.

SOFTWARE DOWNLOAD, INSTALLATION AND USE

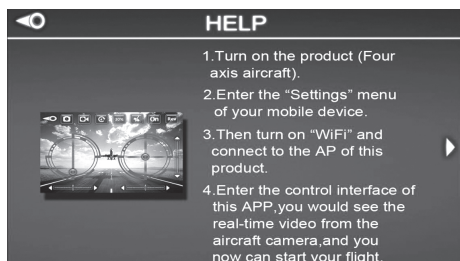Altitude hold mode

MANUAL   SETTING   START
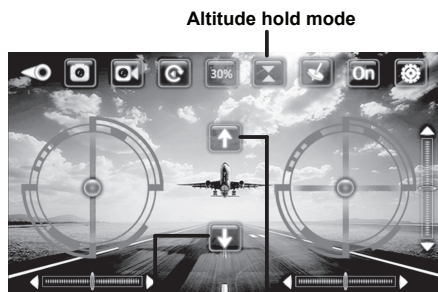
One key landing   One key take off

HELP

1. Turn on the product (Four axis aircraft).
2. Enter the "Settings" menu of your mobile device.
3. Then turn on "WiFi" and connect to the AP of this product.
4. Enter the control interface of this APP, you would see the real-time video from the aircraft camera, and you now can start your flight.

1. Turn on the Apex Drone.
2. Enter the settings menu on your mobile device.
3. Turn on WiFi and connect to the Apex App.
4. Enter the control interface of the App. When the real-time video loads, you can start your flight
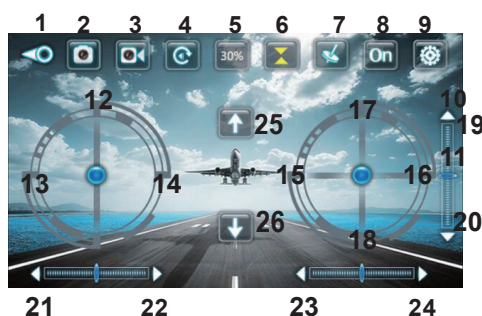
1. Return
2. Take photo
3. Record video
4. Photo & video playback
5. Speed: Slow 30%, Quick 60%, High 100%
6. Altitude hold mode
7. Gravity sensor mode
8. Show/Hide control interface
9. Show /Hide setup menu
10. Reverse the screen
11. Goggle Mode
12.Throttle control
13/14. Left/Right roll
15/16. Left/Right directional control
17/18. Forward/Backward control
19/20. Forward/Backward fine-tune
21/22. Left/Right roll fine-tune
23/24. Left/Right fine-tune
25. One key takeoff

TROUBLESHOOTING

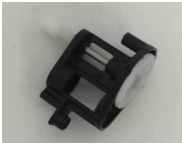| Problem	Possible Reason	Solution
No response from the drone	**1. Apex Drone's battery power is low.**	**1. Charge the battery for the drone**
	2. Transmitter's battery power is low.	**2. Charge or replace batteries if required.**
	3. Not synced correctly.	**3. Turn off the drone and transmitter, then re-sync.**
The drone Is slow to respond or difficult to maneuver	**1. Batteries in remote are low**	**1.Replace the batteries**
	2. There is local interference with the transmitter control signal.	**2.Use the Apex Drone out of range of other RC drones.**
Drifting or uneven flight	**1. Drone and transmitter are not synced properly**	**Restore Factory Settings following directions on page 5**
Headless mode not activating	**1. Drone de-synced**	**Restore Factory Settings following directions on page 5**
Altitude Control not activating	**1. Drone's sensors failing**	**Restore Factory Settings following directions on page 5**

BREAKDOWN & DIAGRAM
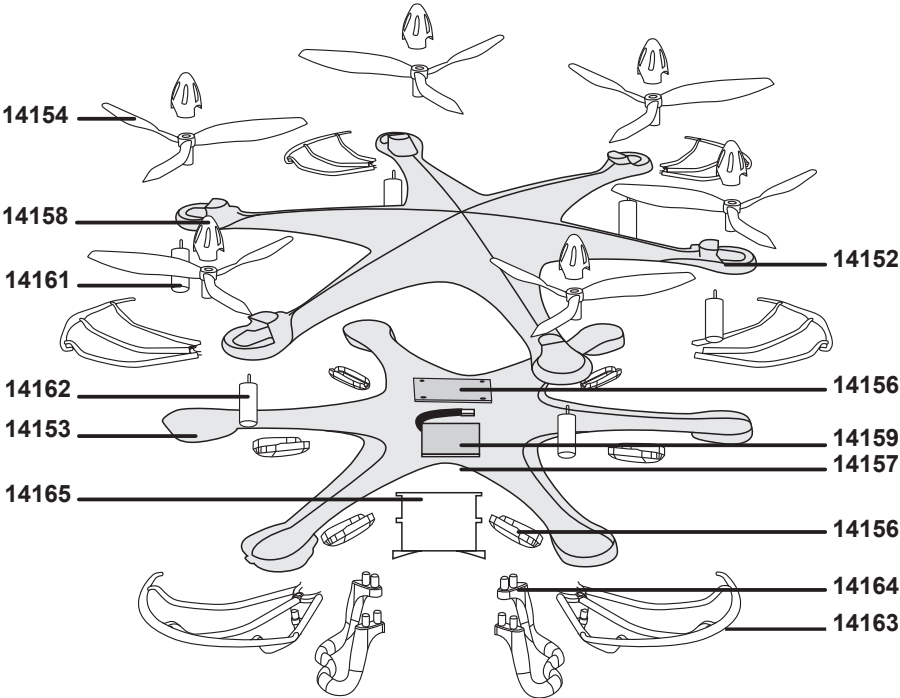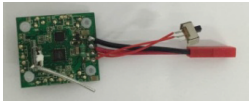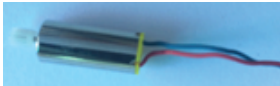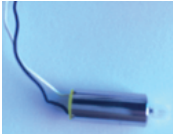
Individual parts can be reordered at www.ShopatShowcase.com
Search by individual code number.

Code	Description	Quantity	Code	Description	Quantity
14154	Propeller	6	14160	PCB	1
14161	Motor A	6	14156	Battery cover	1
14162	Motor B	6	14157	Gear set	1
14153	Bottom frame	1	14163	Propeller protection	6
14158	Blade covers	6	14164	Landing Skid	2
14165	Mobile phone holder	1	14152	Upper frame	1

REPLACEMENT PARTS

Indiviudual parts can be reordered at www.ShopatShowcase.com
Search by individual code number.

14151		**Transmitter**	**$22.99**
14152		**Upper frame**	**$7.99**
14153		**Bottom frame**	**$4.99**
14154		**Propellor (6pcs)**	**$4.99**
14155		**USB cable**	**$4.99**
14156		**Battery cover**	**$4.99**
14157		**Gear set**	**$4.99**

14158		**Blade covers (6 pcs)**	**$4.99**
14159		**Battery 3.7v 800 mah**	**$4.99**
14160		**PCB**	**$14.99**
14161		**Motor A**	**$29.99**
14162		**Motor B**	**$9.99**
14163		**Propeller protection 6 pc**	**$9.99**
14164		**Landing Skit (2 pc)**	**$7.99**
14165		**Mobile phone holder**	**$9.99**

TECHNICAL SPECIFICATIONS
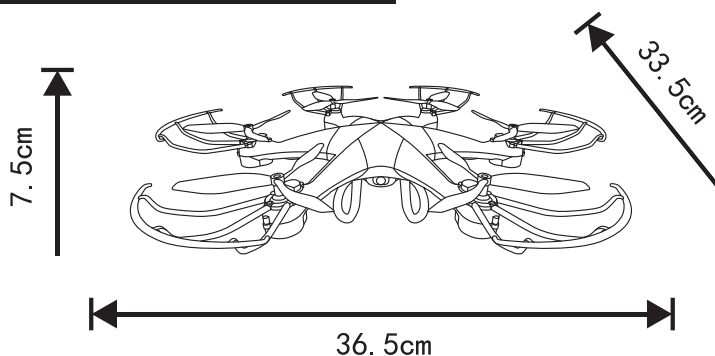
7. 5cm

33. 5cm

36. 5cm

Body length: 36.5cm
Body width: 33.5cm
Body high: 7.5cm

Main motor code: Φ8
Battery: 3.7V 800 mAh Li-poly

SPECIFICATIONS AND COLORS OF CONTENTS MAY VARY FROM PHOTO.

MADE IN CHINA