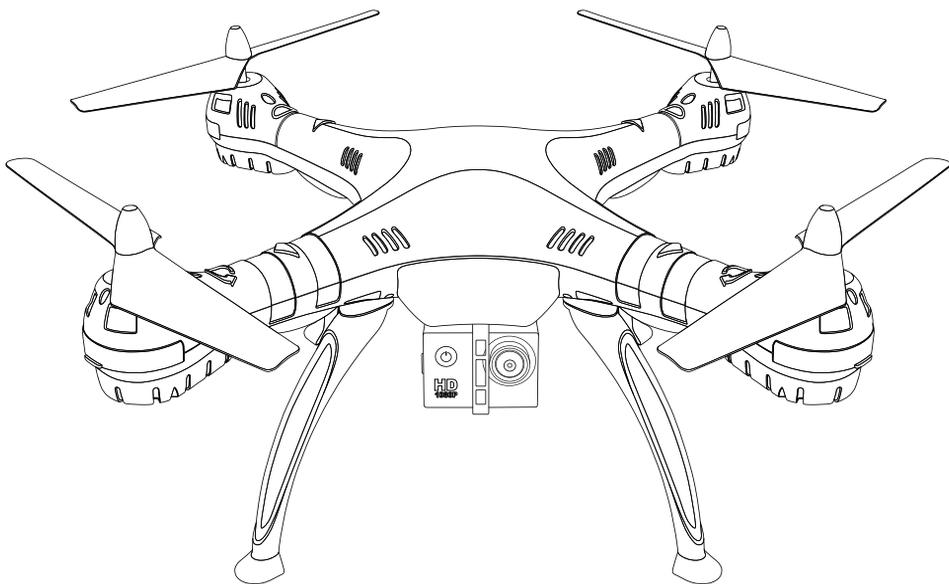# OMEGA

SPY DRONE

PICTURE & VIDEO CAMERA
2.4GHz 4.5CH RC DRONE

INSTRUCTION MANUAL

WORLD TECH TOYS

14+
FOR AGES 14 AND UP

ITEM NO. 33746

INTRODUCTION

Thank you for purchasing this amazing World Tech Toys product. This drone is suitable for indoor and outdoor flight. Please carefully read the entire manual before operating this drone and keep it for reference in the future.

SAFETY & PRECAUTIONS

1. Important Instructions

(1) This product is not a toy but a precision piece of equipment with integrated technologies of mechanics, electronic, air dynamics and radio frequencies. In order to avoid accidents, the operator must read these instructions carefully. Use safety precautions when operating, if operated incorrectly, serious physical injury and/or property loss may occur.

(2) This product is suitable for operators with previous hobby flying experience, age 14 and up.

(3) Only fly in a safe environment that is legal for remote control flying.

(4) We do not take any responsibility for the operation and control of this device and related safety responsibilities.

2. Safety Instructions

(1) Operate far away from obstacles and crowds.
This drone has uncertain flying speed and conditions which present potential danger.
Fly away from people and animals, high buildings, high voltage wiring, etc. Avoid bad weather conditions, wind, rain, thunder, and other conditions to ensure a safe and fun flying environment.

(2) Avoid high temperatures.
This drone is made of metal, carbon fiber, plastic, electronic components and other materials. Keep away from any heat source and avoid using in high temperatures such as hot sunny days to avoid transformation and broken parts resulting from the heat.
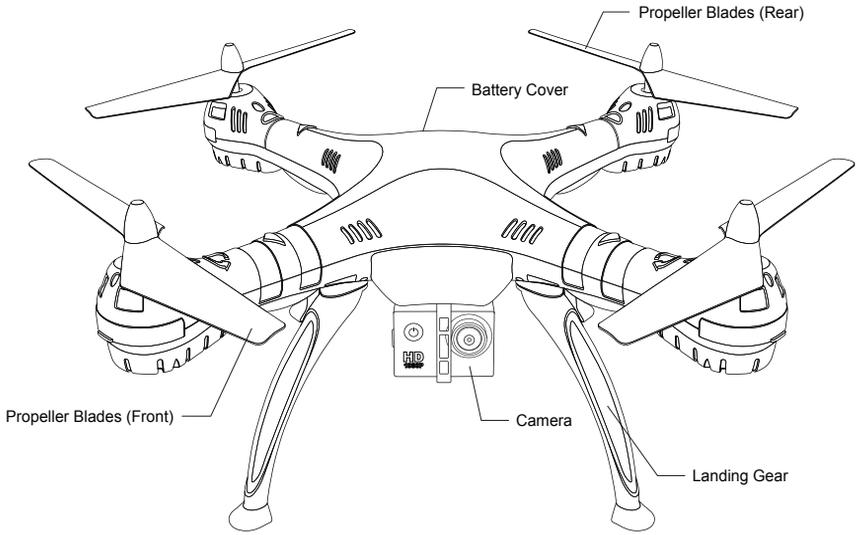
3. Flight Environment

The inside of this drone is integrated with precision electric and mechanical parts, avoid water and wet environments. Water can enter the aircraft and result in part breakdown and accidents may occur.
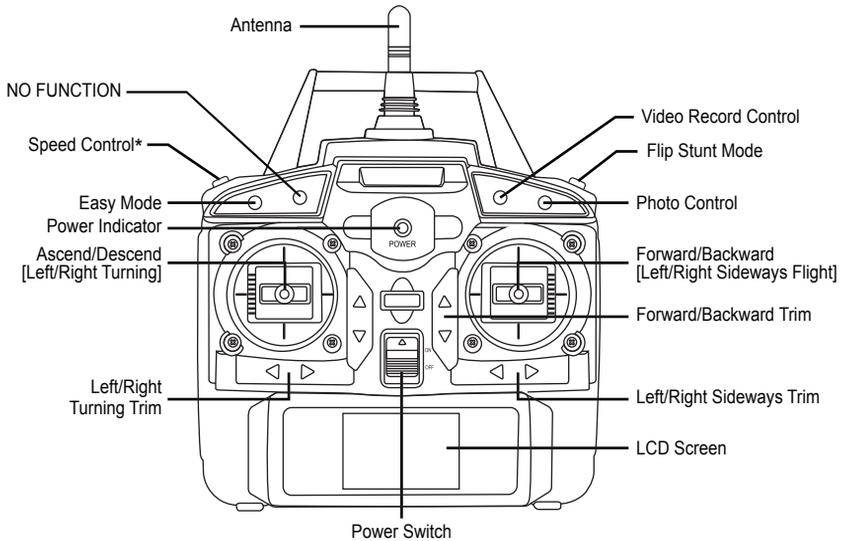
3. Attention Before Flying

(1) It is recommended that the flying area is at least an area of 25ft x 25ft x 15ft.

(2) Be sure that the transmitter and drone batteries are fully charged.

(3) Be sure that the throttle is at its lowest position to avoid premature flight.

(4) Before playing turn on the drone first, then turn on the transmitter. Incorrect operation may result in failure and the possible influencing of other devices in area.

(5) Ensure that all plugs and wires are secure and in place, rocking during flight may loosen over time.

GENERAL DRONE PARTS

Propeller Blades (Rear)

Battery Cover

Propeller Blades (Front)

Camera

Landing Gear

TRANSMITTER SPECIFICATIONS

Antenna

NO FUNCTION

Speed Control*

Easy Mode

Power Indicator

Ascend/Descend
[Left/Right Turning]

POWER

Left/Right
Turning Trim

Video Record Control

Flip Stunt Mode

Photo Control

Forward/Backward
[Left/Right Sideways Flight]

Forward/Backward Trim

Left/Right Sideways Trim

LCD Screen

Power Switch

*Speed Control Modes:

• **Low Speed:** Transmitter *(beeps)* once.
• **Medium Speed:** Transmitter *(beeps)* twice.
• **High Speed:** Transmitter *(beeps)* 3 times.

INSTALLING TRANSMITTER BATTERY

First remove the screw on the battery cover and remove the battery cover itself. Then install 4 AA batteries. Make sure they are installed with the correct polarity. Replace the battery cover and screw in place.
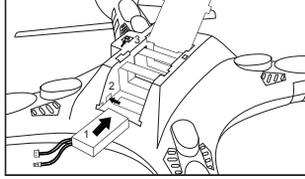
Battery Cover

4 AA Batteries
(Not included.)
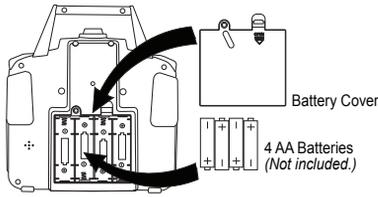
CAUTION:

1. **Make sure the polarity of the batteries are correctly installed.**
2. **Do not mix old and new batteries.**
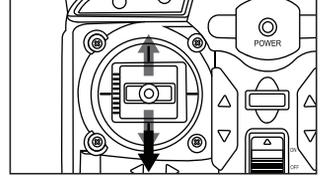3. **Do not mix different types of batteries.**

INSTALLING DRONE BATTERY
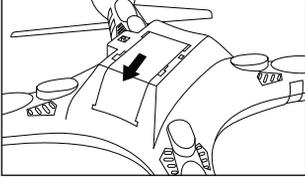
Locate the battery cover on underside of drone. Slide open the battery compartment in the direction shown.
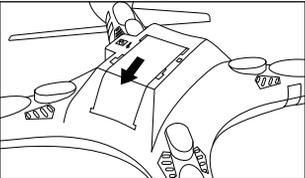
Insert Battery (1) and connect the red plug on battery to the power port just inside the battery compartment (2). Close the battery cover and switch on the drone (3).
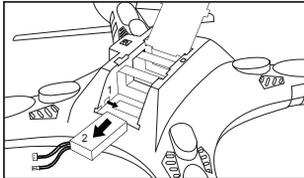
POWER

Push the left throttle joystick all the way forward and then pull it all the way back. A clear *(Beep)* will indicate that your drone is now ready to fly!
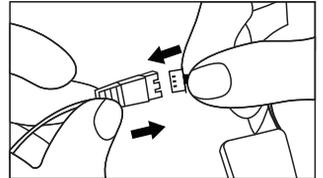
CHARGING DRONE BATTERY

Switch off the power and slide open the battery cover.

Pull out the battery cable from the drone's power port (1) and remove the battery (2) before charging.

Connect the batteries white connector to the supplied wall charger, connect to a power source. The LED light on the wall charger will be orange when charging and will turn green when fully charged. Charge for approximately 200 minutes for a full charge.

BATTERY PACK SPECIFICATIONS

Battery Type	Battery Specification	Usage Duration	Charge Time
Li-Po Battery	7.4V 850mAh	Flight Duration 7 minutes	Charging Time 200 minutes

CAUTION WHILE CHARGING:

Do not charge with batteries still installed. Do not charge battery unsupervised. Do not immediately charge after use. Do not overcharge battery. **Ideal charge time is 200 minutes.** Overcharging can cause a catastrophic failure. Always charge on dry and ventilated areas away from any heat source or flammable materials. Always use the original USB charging cable provided. Promptly change and replace old or defective batteries.
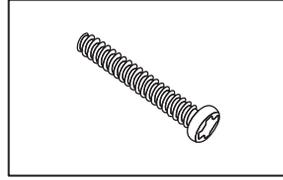
The drone comes with 2 types of screws. (A) Screw and (B) Screw. (A) Screw will be used for securing the 4 landing gears/legs to the bottom of the drone. (B) Screw is used to secure the 4 rotor guards to the drone(optional). There may be extra screws included. Please hold on to them for future use as spares.
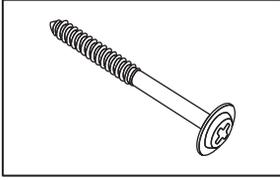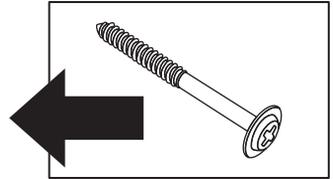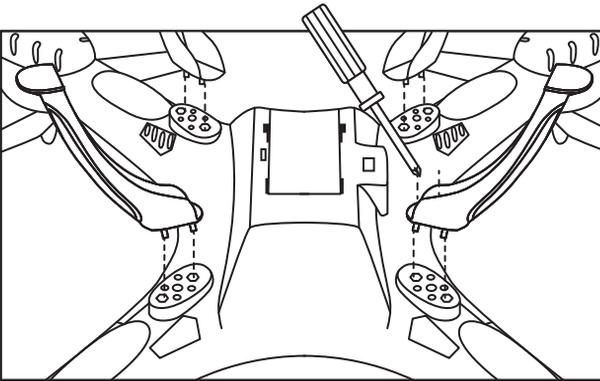
(A) SCREW
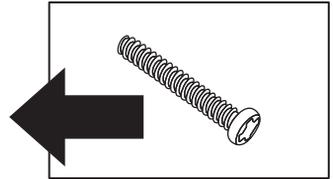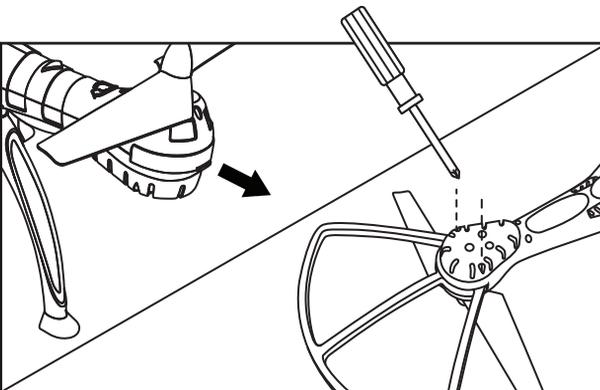
USED FOR LANDING GEAR/LEGS

(B) SCREW

USED FOR ROTOR GUARDS

(A) SCREW

LANDING GEARS: Flip drone over and insert landing gears/legs into slots lining up the two pegs on each leg. Firmly secure each landing gear with 2 of the **(A) screws**.

(B) SCREW

ROTOR GUARDS: Pull out rotor guard covers as shown, replace with rotor guards. Flip over and use 2 of the **(B) screws** to firmly secure each frame to the body as shown. Do not over tighten the screws, you may strip the plastic.
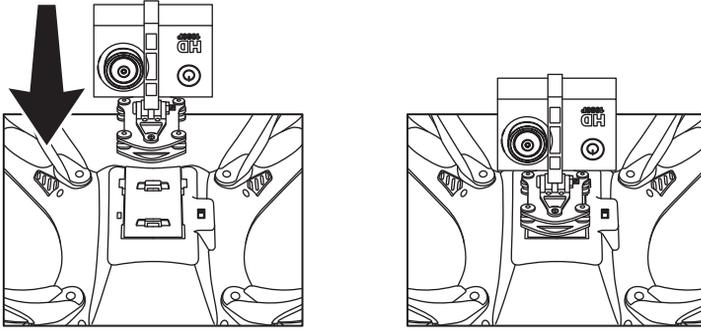
The camera will come with the mount already attached. Flip the drone over and notice the clip attachments on the bottom of the battery cover. The camera mount has two clips that snap into the clip attachments.

Line up the camera with the mount to the clip attachments. The Camera lens should be facing the front of the drone. If you don't know which way is the front, the side with the 2 red rotors is the front of the drone. Push the camera with the mount toward the front until the 2 clips on the mount snap into place.

**CAMERA WIRE**
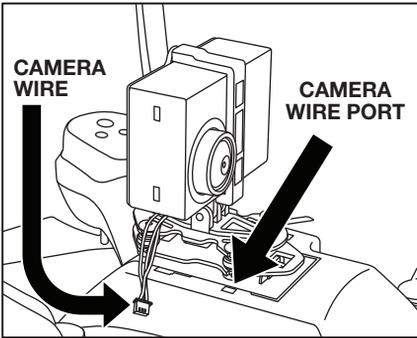
CAMERA WIRE PORT

Once the camera with the mount is correctly attached to the bottom of the drone, you will need to connect the camera wire to the drone.

The camera wire port is located right next to the battery cover.

If the camera wire isn't easily plugging into the camera port then you may be installing it backwards. Pull it out and flip it around and try again.

Make sure the camera wire is fully plugged in.
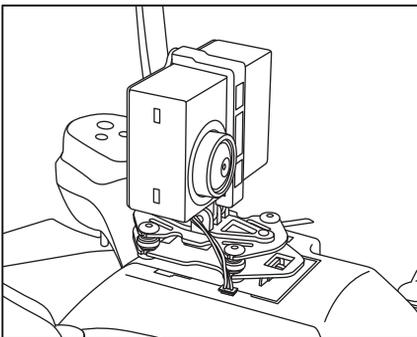
To check if the camera is connected properly, turn on the drone (power switch is located next to the battery cover) and check to see if the LED lights on the back of the camera are on. A blue and green LED light should be blinking.

If the memory card is already installed, the LED light will stay on blue.

USING THE CAMERA

SD Card Installation: Insert the SD card into the slot, lightly press until the SD card clicks into place. Press the SD card to eject the card. The camera indicator **WILL BLINK** unless the SD card is properly inserted.

Indicator Lights of Camera:

• **Blue**: Camera Standby Status
• **Blue Light Flashing**: Recording Video
• **Blue Light Stops Flashing:** Stops Recording Video
• **Green Light Flashes Once:** Taking Photo

Recording Video/Taking Photos: Turn on the drone, press the **Video Record** button to start recording video. Press the button again to stop recording and save the video onto the SD card. Press the **Photo** button to take a single image When the light flashes once, a photo will be taken, which will then be saved onto the SD card. **NOTE: Pictures cannot be taken while camera is in Video Recording Mode.**

VIEWING VIDEO/PHOTO FILES ON THE COMPUTER

Turn the drone off. Remove the SD card, then install it into the included memory card USB adaptor and plug it into a computer. Videos and photos can be viewed using media players. If you are having issues viewing your drone videos, try downloading and viewing the video files with VLC media player.

VLC media player

http://www.videolan.org/vlc/index.html

Download the latest version for the operating system you are using and install the VLC program. Restart your computer if necessary.

Once the USB adaptor with the memory card is plugged in, Windows AutoPlay will give you options to quickly access files saved, select "Open folder to view files" to go directly to the files location on card.
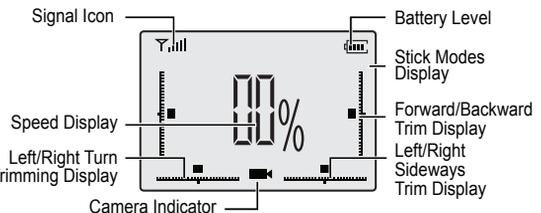
In Mac, locate the memory cards mounted image and open folder to access the saved files.

Right click video files and select "Open with" to select VLC media player and open and view video files.

To save time in the future select "Choose default program..." to select VLC as the program to open the selected file type. Once set files will automatically open in VLC media player when double clicked to open.

SYNCING AND LCD INTERFACE PROCEDURE

After installing the batteries, turn the transmitter switch to "ON." The power indicator light flashes and the signal icon "T" appears in the top left of the LCD screen, when there is no signal. After the transmitter successfully pairs with the drone, the transmitter will beep twice and the signal icon changes to "Tull". Push the Ascend/Descend control to the top, then pull the control back to the bottom. The transmitter will beep once. The power indicator will light. The transmitter has successfully paired with the drone and control information appears on the LED screen.

Signal Icon

Battery Level

Stick Modes Display

Speed Display

Forward/Backward Trim Display

Left/Right Turn Trimming Display

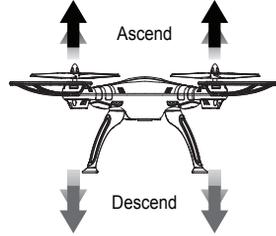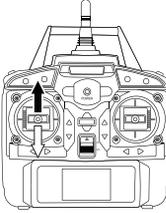Left/Right Sideways Trim Display

Camera Indicator

FLYING THE DRONE

Before flying the drone for the first time please read the instructions carefully and make sure you fully understand how to control your drone.
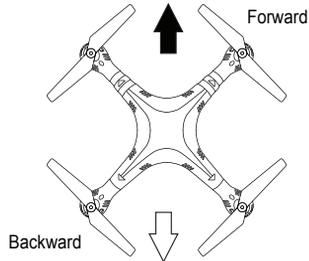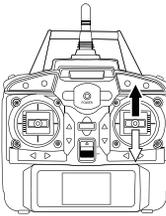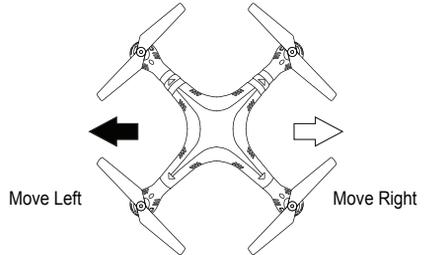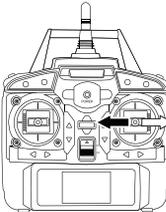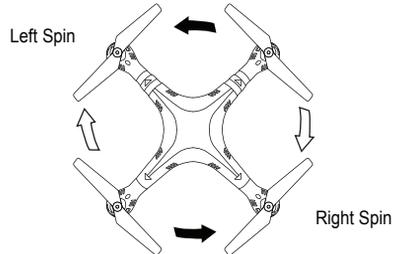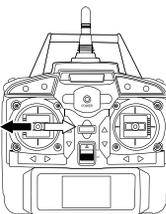
BASIC FLYING CONTROLS

Throttle

Ascend

Descend

Move Forward/Backward

Forward

Backward
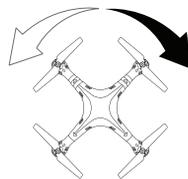
Move Right/Move Left

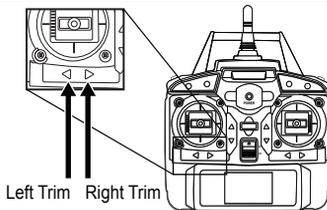Move Left

Move Right

Left Spin/Right Spin

Left Spin

Right Spin

ADJUSTING THE TRIM

When drone moves with no directional transmitter input, adjust the trim controls until hovering is stable.

If the drone is spinning to the left, push the **RIGHT TRIM** button until the drone stops spinning.

If the drone is spinning to the right, push the **LEFT TRIM** button until the drone stops spinning.

Left Trim   Right Trim

If the drone is moving forward, push the **BACKWARD TRIM** button until the drone stops moving forward.
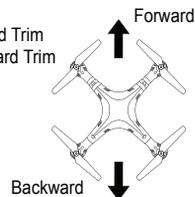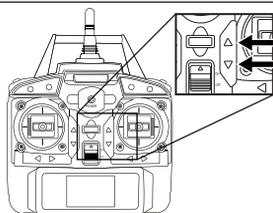
If the drone is moving backward, push the **FORWARD TRIM** button until the drone stops moving backward.
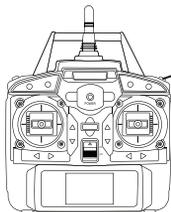
Forward Trim
Backward Trim

Forward

Backward

If the drone is moving left, push the **MOVE RIGHT TRIM** button until the drone stops moving left.
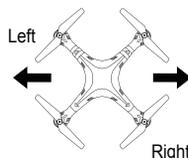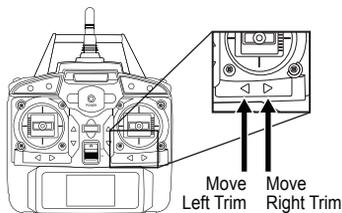
If the drone is moving right, push the **MOVE LEFT TRIM** button until the drone stops moving right.

Move Left Trim   Move Right Trim

Left

Right

SPECIAL ACTIONS
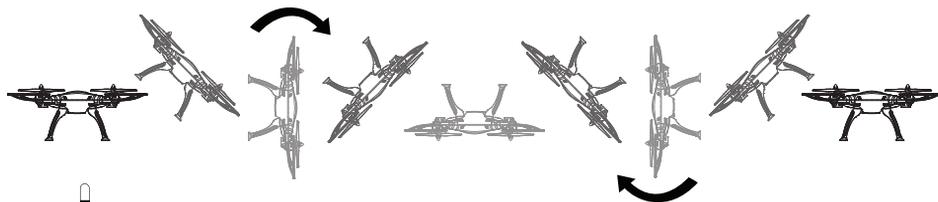
FLIP STUNT MODE
Have the drone hover at least 10 feet off the ground. Press the Flip Stunt Button and push the right joystick in the direction you want the drone to perform a single flip.
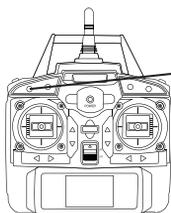
EASY MODE
Simplifies drone flight use by limiting command directions based on your direction. Use Easy Mode when you are having difficulty telling which direction the drone is pointing because of distance. Press the Easy Mode button once to activate it. Press again to deactivate it.

POST FLIGHT

After you are done flying the Drone make sure the battery pack on the drone is disconnected and the transmitter power is turned off. If you are not going to use the drone for a long period of time, please remove the AA batteries to prevent the batteries from draining or leaking.

AUTOMATIC SHUTDOWN OVERRIDE FUNCTIONS

For safety precautions, the drone will automatically shut down when the following situations occur:

1. When the drone's battery is running low.

2. When one or more of the drone's propellers gets into a collision impact or any form of entanglement.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Drone is unresponsive. The Transmitter light keeps flashing.	Transmitter is not syncing with drone.	Repeat the power up process.
Drone is unresponsive.	Transmitter and or drone is not powered ON.	Turn both transmitter and drone ON.
	Transmitter batteries are installed incorrectly.	Install the batteries with the correct polarity.
	Transmitter batteries are drained.	Install fresh batteries to the transmitter.
Transmitter light is ON. Drone is unresponsive.	Drone's battery pack is drained.	Charge the drone's battery pack.
Drone's rotors spins but doesn't take off.	Rotor blades are damaged.	Replace the damaged rotor blades.
	Drone's battery pack is drained.	Charge the drone's battery pack.
	Drone is not on a flat surface.	Place the drone on a flat surface before attempting to take off.
Drone is shaking when flying.	Rotor blades are damaged.	Replace the damaged rotor blades.
Drone moves while hovering without transmitter input.	Trim needs to be adjusted.	Adjust the trim.
Drone still moves forward after adjusting the trim.	Gyroscope midpoint is off.	Turn off both transmitter and drone. Go through power on process and make sure you place the drone on a flat surface before taking off.

Website: www.worldtechtoys.com
Email: customerserv@worldtechtoys.com
Phone: (877) 498-8697
                  Monday - Friday / 9:00AM - 5:00PM / Pacific Time

SPECIFICATIONS,
COLORS AND CONTENT
MAY VARY FROM ILLUSTRATIONS

MADE IN CHINA

WORLD TECH TOYS

WWW.WORLDTECHTOYS.COM

⚠ **WARNING:**

CHOKING HAZARD-Small parts.
Not for children under 3 years.