

_banshee

HD Camera Drone with WIFI & FPV

DRONE USER MANUAL



ZERO-X[®]

Capture the skies.™

CONTENTS

1.0	WELCOME	04
1.1	BEFORE YOU GET UP IN THE AIR	04
1.2	GENERAL SAFETY	04
1.3	BATTERY SAFETY	05
2.0	PACKAGE CONTENTS	06
2.1	BANSHEE OVERVIEW.....	06
2.2	CONTROLLER OVERVIEW	07
3.0	SETTING UP THE ZERO-X BANSHEE	07
3.1	CHARGING THE BATTERY	07
3.2	INSTALLING THE BATTERY.....	08
3.3	INSTALLING A MICRO SD CARD	08
3.4	REPLACING ROTOR BLADES	09
3.5	INSTALLING ROTOR GUARDS	10
3.6	FOLDING/UNFOLDING THE BANSHEE'S ARMS.....	11
4.0	WIFI.....	11
4.1	REMOTE CONTROLLER CONTROL	12
4.2	APP CONTROL.....	12
4.3	REMOTE CONTROL	12

5.0	FLYING YOUR BANSHEE.....	13
5.1	TROUBLE SHOOTING.....	14
5.2	BASIC CONTROL.....	15
5.3	360 FLIPS.....	15
5.4	DIRECTIONAL LOCK.....	16
6.0	USING THE BANSHEE'S CAMERA	16
6.1	VIEWING YOUR PHOTOS AND VIDEOS.....	17
6.2	BANSHEE APP.....	17
7.0	DRONE MAINTENANCE	18
7.1	REPLACEMENT PARTS.....	18
8.0	WARRANTY TERMS & CONDITIONS	19

1.0 WELCOME

Thanks for purchasing a Zero-X Banshee, get ready to have the time of your life! We're sure your Zero-X Banshee will bring you a world of great experiences in the air. Please take the time to read the following safety warnings and operating instructions carefully.

1.1 BEFORE YOU GET UP IN THE AIR

Connect the Banshee battery to the included USB charging cable and insert the USB charging cable into the supplied USB wall charger. While the battery is charging please take the time to read the instructions and familiarise yourself with the controls of your Zero-X Banshee.

1.2 GENERAL SAFETY

Please familiarise yourself with your local legislation regarding drone usage before you begin using your Zero-X Banshee. Included in the package contents of your Zero-X Banshee are the Australian CASA guidelines, please read carefully and understand this information as operating a drone outside of these guidelines may result in legal issues. Zero-X takes no responsibility for operation of this product outside of what is legally permissible in your area.

- Do not fly your Banshee any closer than 30 metres from people, animals or buildings. Check to make sure you are no closer than 5.5 kilometres from any airfields or airports. For more information on CASA's Australian legislation visit: <http://www.casa.gov.au/>

For information outside Australia please visit the website of your local aviation authority.

- Do not attempt to modify the Banshee or any of its components in any way, doing so will void your warranty and may affect the operation of the drone.
- Do not use the Banshee in any conditions that could affect, damage or impair your view of the Banshee including rain, wind, snow, fog or low light. Avoid getting your Banshee wet, dusty or sandy. These elements will damage the components of your Banshee.
- Please do not attempt to touch the Banshee when the Remote Control is powered on, or if the rotor blades are turning.
- When flying your Banshee, please keep in mind the privacy of others.

IMPORTANT INFORMATION - PLEASE READ BEFORE USE

1.3 BATTERY SAFETY

When handled incorrectly, Lithium polymer batteries can be dangerous and can potentially harm and do damage to persons or property. Zero-X does not accept any liability for damage to persons or property if the battery is not correctly charged, stored or protected.

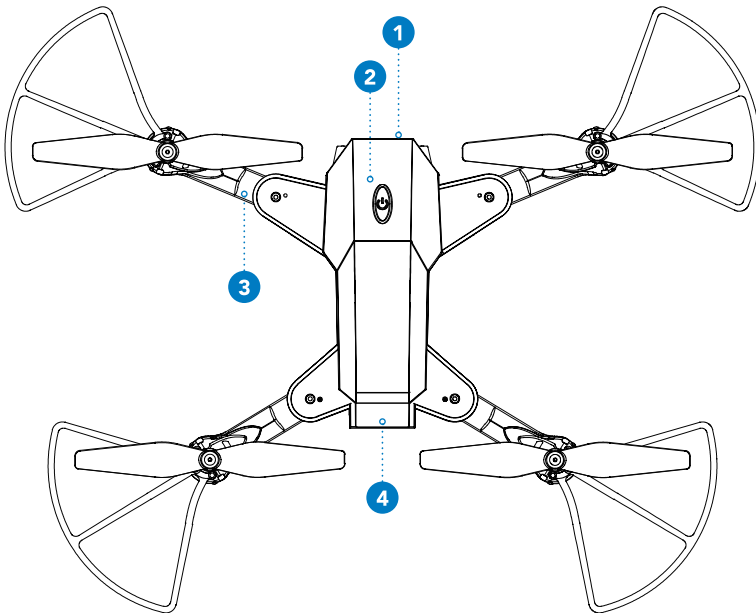
- Always unwind all cables before charging.
- Do not over charge the battery. Once the charging process is completed, remove the battery from the charger as soon as possible.
- Only use the included or replacement Zero-X Banshee chargers and batteries.
- You must charge the Lithium polymer battery in a safe area away from flammable materials.
- The battery is only to be charged under adult supervision, do not leave charging batteries unattended. You should always remain in constant observation to monitor the charging process and react immediately to any potential problems that may occur.
- Do not charge the battery in temperatures hotter than 40°C or colder than 0°C.
- Do not cover the batteries when charging. Do not leave batteries in direct sunlight.
- After each flight & or crash, please check battery for any damage or swelling.
- If the battery is damaged, leaking, making noise, punctured or malformed in any way DO NOT attempt to use it. Please dispose of the battery immediately and safely in the correct manner.
- Do not bend, puncture, crush or scratch the drone's battery. Do not store batteries in your pockets, on your person or in extreme temperatures.
- After flying/discharging the battery you must allow it to cool to ambient room temperature before recharging.
- If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen even a small amount must be removed from service completely.
- Never plug in a battery and leave it to charge unattended overnight.
- Non-compliance with the above warnings may result in the failure of the battery.

2.0 PACKAGE CONTENTS

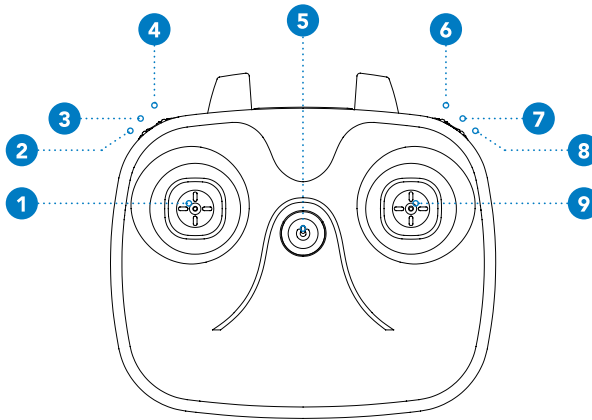
1. Banshee Drone
2. Remote Controller
3. Rotor Blades x 4
4. Rotor Guards x4
5. AC USB Charger
6. Charging Cable
7. Screw Driver
8. Phone Clip
9. Screws
10. Smartphone Clip
11. Manual

2.1 BANSHEE OVERVIEW

1. Camera
2. Power Button
3. Folding Arms
4. Battery Hatch



2.2 CONTROLLER OVERVIEW



- | | |
|---------------------|----------------------------|
| 1. Left Thumb stick | 6. High/Low button |
| 2. Video | 7. Directional Lock Button |
| 3. Photo | 8. LED On/Off button |
| 4. 360 Flip | 9. Right thumb stick |
| 5. Power button | |

3.0 SETTING UP THE ZERO-X BANSHEE

3.1 CHARGING THE BATTERY

PLEASE NOTE: YOUR ZERO-X DRONE COMES WITH A CERTIFIED ZERO-X USB AC CHARGING ADAPTER FOR 240v CHARGING OF YOUR DRONE BATTERY. USE OF A NON ZERO-X CERTIFIED USB AC CHARGING ADAPTER WILL VOID YOUR WARRANTY AND MAY DAMAGE BOTH YOUR BATTERY AND DRONE.

Fully unwind the included USB charging cable and plug the USB end into the included Zero-X Certified USB AC charging adapter. When connected to a charging source the LED light in the charger will turn off. Connect the drone battery to the charging cable and the light will glow red indicating charging is in process. The LED on the USB charging cable will turn off again once charging is complete. To keep the battery life as long as possible avoid removing the battery from the charging cable before charging is complete. If you have just finished flying your Banshee drone, please allow the battery to cool down for at least 30 minutes before recharging.

- When the Banshee battery has finished charging it is advised that the battery is removed from the charger as soon as possible. Overcharging will damage the battery and effect the flight time.
- The Banshee battery can take up to 90 minutes to fully charge. If the battery has been on charge for any longer than 2 hours and the indicator on the charging cable is not showing that the battery is charged please remove the battery from the charger.
- When connecting the USB cable with the battery, make sure to follow the guides on the battery connector as these are designed to only be inserted in one direction. Forcing the connection in the incorrect direction, may cause damage to the battery and charging cable.

3.2 INSTALLING THE BATTERY

The battery for the Banshee easily slots into place in the rear of the drone.

For detailed instructions on how to install the battery please follow the steps below.

1. Ensure that the battery is fully charged.
2. Insert the battery into the rear of the drone in the correct orientation (the thumb tab on the battery should be facing down).
3. Slide the battery all the way in until it securely slots into place.

NOTE

Do not force the battery, If the battery is not fitting into position, please check that you have the battery in the correct orientation.

3.3 INSTALLING A MICRO SD CARD

If you are looking to record video with the Banshee drone it is required that you have a Micro SD Card inserted in the drone (Micro SD Card not included). The Micro SD Card slot is on the under side of the drone. To insert a micro SD card please follow the instructions below.

1. Slot the Micro SD Card into the slot on the under side of the Banshee with the Micro SD Card copper contacts facing towards the drone.
2. With your thumbnail press the card into position until the card clicks into place.

NOTE

Do not force the Micro SD Card into position, forcing the card may damage your drone and Micro SD card.

The Banshee will accept Micro SD Cards up to 32GB, class 10 recommended. (Micro SD Card not included).

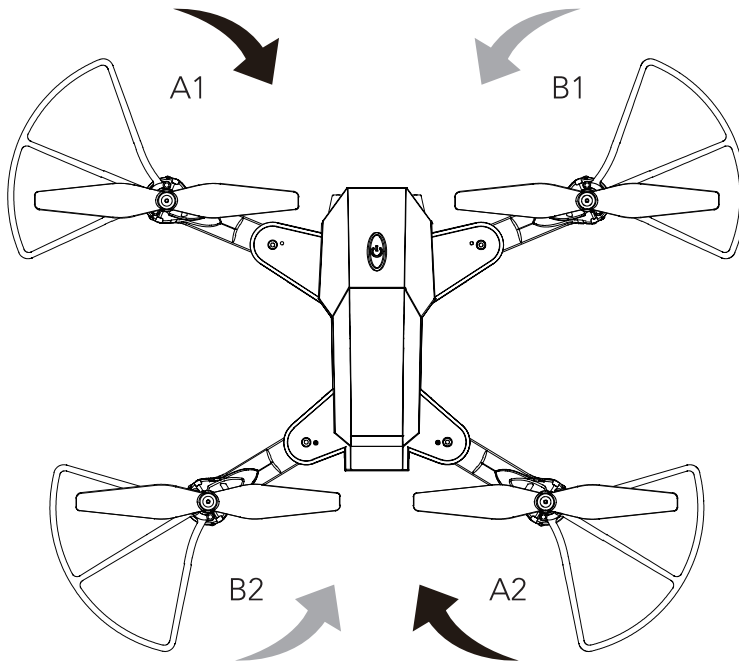
3.4 REPLACING ROTOR BLADES

If your Rotor Blades are damaged they can easily be replaced with the included replacement blades.

There are two types of rotor blades included with the Banshee, A blades (clockwise rotation) and B blades (counter clockwise rotation).

The blades are marked on top showing either A or B.

The arms of the drone are also marked A1, A2, B1 and B2 showing what blades each motor is compatible with (1 showing the front of the drone and 2 showing the rear).



It is important that the correct rotor blades are installed on the correct motors as if they are installed incorrectly the drone will not fly and you could potentially burn out the drone's motors.

To replace the drone's rotor blades please follow the instructions below.

1. Remove the chrome cap from the top of the rotor blade you want to replace by levering the cap off using a small flat head screw driver (not included). This will reveal the securing screw.
2. Remove the rotor blades securing screw by unscrewing counter clockwise. Be careful not to force the screw or strip the screw head.
3. Once the screw has been removed gently pull the rotor blade upward to remove the rotor blade from the motor stem.
4. Get your replacement blade being sure to identify and match the correct blade with the motor (A rotor blade to A motor, B rotor blade to B motor).
5. Slot the replacement rotor blade over the motor stem making sure to align the hexagonal stem shape with the rotor blades hexagonal slot. Press the blade into place until the motor stem is in position.
6. Resecure the securing screw that was removed in step two by screwing it clockwise while being careful not to over tighten the screw.
7. Replace the chrome cap that was removed on step one by pressing it back into position

Note

It is important that the correct rotor blades are installed on the correct motors as if they are installed incorrectly the drone will not fly and you could potentially burn out the drone's motors.

When replacing multiple rotor blades please replace the blades one at a time to avoid any confusion in reattaching the rotor blades.

3.5 INSTALLING ROTOR GUARDS

The rotor guards are an optional fitting. Installing the rotor guards will protect your rotor blades and motors against bumps and light crashes.

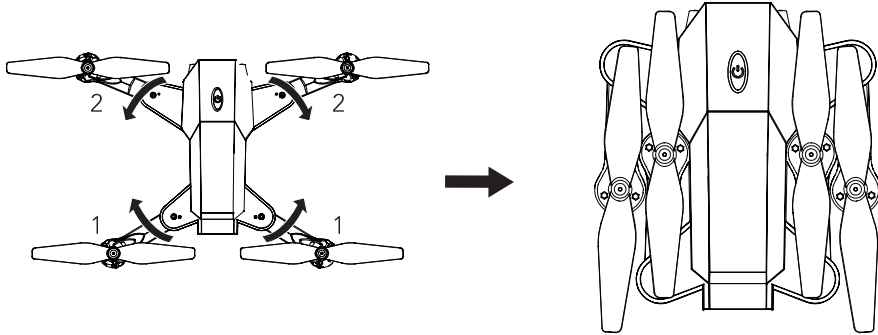
To install the rotor guards please follow the instructions below.

1. Insert the rotor guards pegs into the designated holes near the motors on the Banshee's arms.
2. Use the included screws to secure the rotor guards in position making sure not to over tighten.

3.6 FOLDING/UNFOLDING THE BANSHEE'S ARMS

The Banshee's arms fold up so it is easy to store and take with you.

The Banshee's arms are designed to fold down in a specific order with the rear arms folding inward first and the forward arms folding inward second.



4.0 WIFI

The Banshee has a built in WiFi connection which is used to wirelessly connect your Smartphone to your banshee allowing you to view the cameras live view, trigger recording, control and fly your Banshee.

To connect your Smartphone to the banshee please follow the instructions below.

1. Go to the Google Play store if you are using an Android Smartphone, or The App store if you are using an iPhone and search for the Zero-X Banshee App, once located please download the App.
2. Once the App is downloaded and installed, ensure that the Banshee's battery is fully charged and power up the drone by holding the power button for 2 seconds.
3. Wait for 10 seconds allowing the WiFi connection to power up, then go into the WiFi settings on your smartphone and select the connection named **ZX Banshee_XXXX**.



- Once connected, open the Zero-X Banshee App on your smartphone.
- When the App opens tap the on screen Start button and you will be prompted to choose either Remote Controller Control, or App controlled

4.1 REMOTE CONTROLLER CONTROL

Activating Remote Controller Control Will show the drones first person view on your Smartphone and give a few on screen controls allowing you to capture a video or photo.

If you are using this mode you will now need to pair the controller using the instructions laid out in the section of this manual titled FLYING YOUR BANSHEE.

4.2 APP CONTROL

Activating APP Control will show the drones first person view and will overlay two virtual thumb sticks and other controls allowing you to fly the Banshee solely with your smartphone.

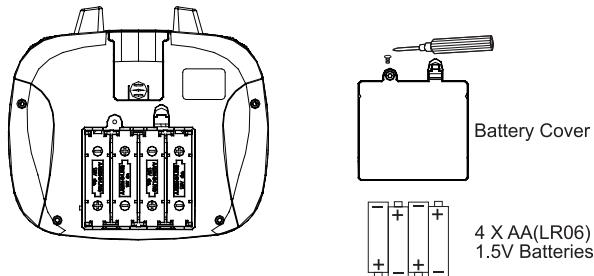
4.3 REMOTE CONTROL

The included remote control is used to launch land and fly your Banshee drone.

The remote control requires 4 x AA batteries (not included) with full charge of the same brand.

To install the batteries into the controller please follow the instructions below.

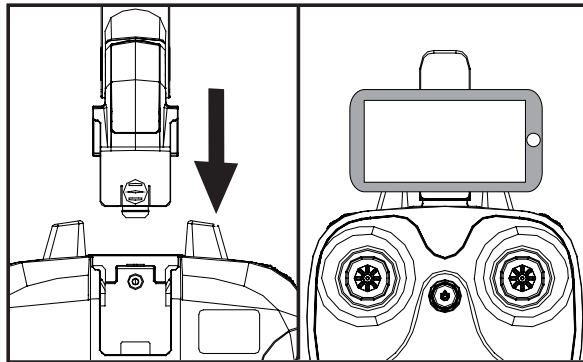
- Ensure that the remote control is powered off.
- Remove the securing screw on the battery hatch on the rear of the remote controller
- Remove the battery flap by pulling down the locking tab on the remote controllers battery hatch.



4. Insert your batteries into the remote controller in the specified orientation.
5. Re attach the battery hatch and re-install the securing screw.

The controller also has a smartphone clip to hold your smartphone while you are using the Banshee's WiFi functions.

To install the smartphones clip slide the clips mounting end into the slot on the rear of the remote controller. You will now be able to clip in your smartphone.



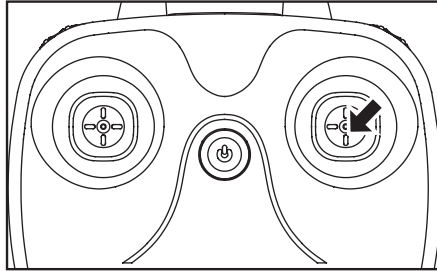
5.0 FLYING YOUR BANSHEE

Please read through all of the instructions below before attempting to start the launch the Banshee drone.

To launch the banshee drone please follow the steps below.

1. Check your surroundings ensure your intended flight area conforms with your local laws.
2. Ensure that the Banshee's battery is fully charged and power up the drone by holding the power button for 2 seconds. The drone's lights will begin to flash indicating that the drone is awaiting pairing.
3. If you want to connect your smartphone follow the instructions in the WIFI section of this manual at this point.
4. Ensure that the Banshee's arms are fully extended and are locked into position and then place the Banshee on a section of level flat ground free of any obstacles that may impede take off. Once the Banshee has been placed in position step back to a safe distance (approx. 5m)

5. Power up the remote control by pressing the power button in the centre of the remote control. The lights on the drone will glow solid when the connection between the controller and drone has been made (Can take up to 10 seconds).
6. Once the control has been paired click in the right thumb stick as if it were a button to activate the one button take off and the drone will launch and hover at shoulder height.

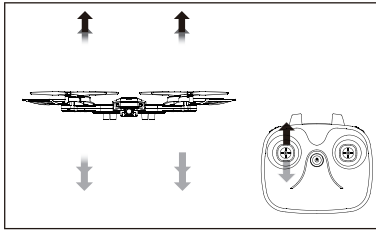


5.1 TROUBLE SHOOTING

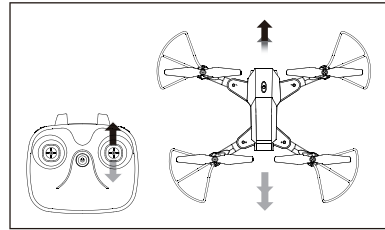
1. Do not approach the drone again until the remote has been powered off. If for any reason the Banshee does not work after following the above steps please check the following.
2. The Banshee battery is fully charged, correctly connected and not damaged.
3. The batteries in the remote control are the same brand, have an equal amount of charge and have enough charge to power the remote control correctly (using an assortment of batteries will affect the performance of the remote control).

5.2 BASIC CONTROL

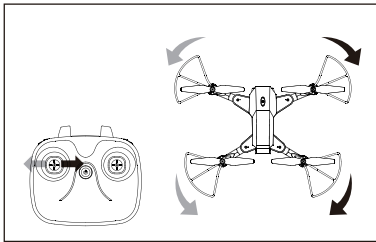
Up and Down



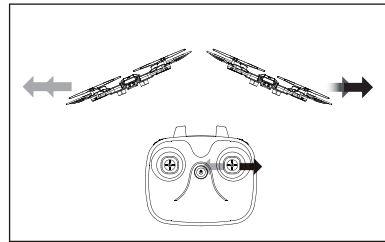
Forward and Backward



Rotation



Leftward/Rightward Flight

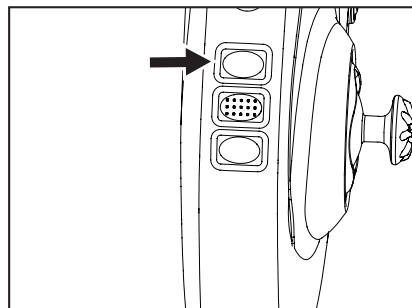


5.3 360 FLIPS

To activate a 360 flip press the 360 flip button on the controller and hold the right thumb stick in the direction you want to flip.

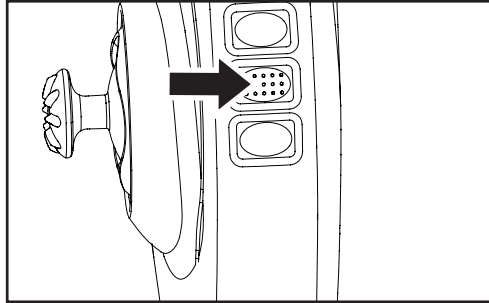
The drone will lunge in the specified direction.

Please ensure that you have at least 2 meters clearance beneath the drone when you activate the 360 flip as the drone can lose altitude during the flip.



5.4 DIRECTIONAL LOCK

Directional Lock mode is a mode that makes it easy for beginners to fly. In this mode the direction you and the Banshee are facing when the Banshee is launched will always be forward on the controls, no matter which way the Banshee is facing. This means that even if you can't see which way the Banshee is facing you will be able to bring the drone back towards yourself by pulling back on the Right Thumb stick (Pitch/ Roll).



6.0 USING THE BANSHEE'S CAMERA

The Banshee's camera can be angled manually by hand by tilting the camera up and down.

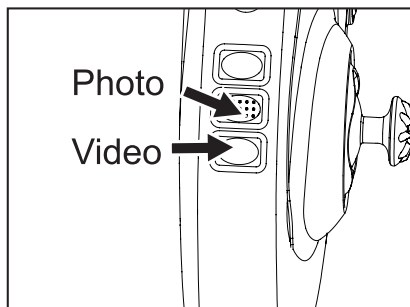
To record video with the Banshee drone it is required that you have a Micro SD Card inserted in the drone (Micro SD Card not included).

VIDEO

To activate a recording press the Video button on the remote controller.

PHOTO

To Trigger a photo push the Photo button on the remote control



6.1 VIEWING YOUR PHOTOS AND VIDEOS

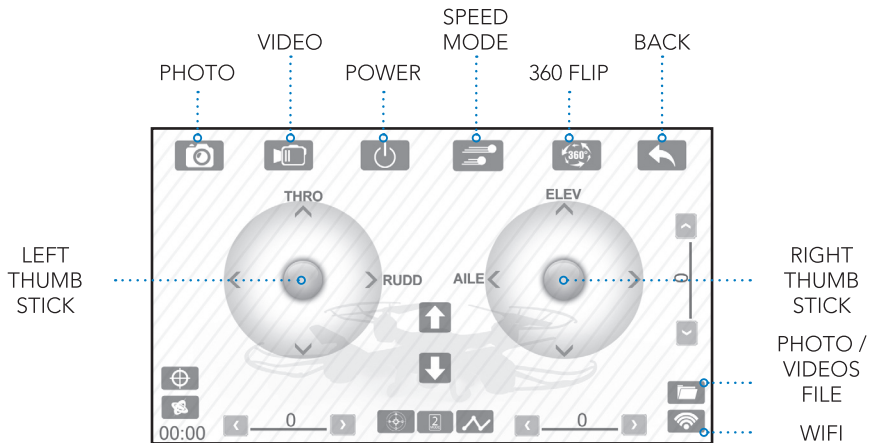
To view your footage and videos you will need to connect the Micro SD Card to your computer via either a USB Micro SD Card reader or via an SD card converter if your computer has an SD card reader.

Once connected to your computer the SD card will appear as a removable drive which will contain your videos and photos.

6.2 BANSHEE APP

The App can be used to control the drone or view the Banshee's first person view.

When in the App control mode, the below controls can be used to operate the drone.



7.0 DRONE MAINTENANCE

Avoid exposing your Banshee and its accessories to dust, sand and moisture as these can damage the Banshee. If the Banshee is exposed to dust or sand, use a soft brush to remove any visible particles.

7.1 REPLACEMENT PARTS

We understand that it's not always easy learning how to fly a drone, and sometimes a close call can turn into a crash landing. To thank you for your support of Zero-X purchase and to help you build you confidence in learning how to fly your drone we want to offer you 50% off your first order of any spare parts by using the code below on www.zero-x.com.au. There you will be able to find and buy the spare parts listed below.

- Battery
- Clockwise Motor
- Counter Clockwise Motor
- Rotor guards



8.0 WARRANTY TERMS & CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian and New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian & New Zealand Consumer Law.

Zero-X warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Zero-X.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Zero-X. Zero-X will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to Zero-X, will be borne by you.

Zero-X Address: 33 Quinn Drive, Keilor Park ,Victoria 3042 Australia

Ph: +61 03 8331 4800 **Email:** service@zero-x.com.au

_banshee

Capture the skies.™

ZERO-X

www.zero-x.com.au | www.zero-x.co.nz

CE FC   ROHS 

All Images, Information and Content are
Copyright © 2018 Directed Electronics
Australia Pty Ltd. All Rights Reserved.

© Zero-X v1.0 2018

_banshee

Capture the skies.™

ZERO-X

www.zero-x.com.au | www.zero-x.co.nz



All Images, Information and Content are
Copyright © 2018 Directed Electronics
Australia Pty Ltd. All Rights Reserved.

© Zero-X v1.0 2018