FCC PART 15 C NOTICE

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.

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.

INDUSTRY CANADA NOTICE: CANADA ONLY.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conforms to safety requirements of FCC.
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Made in China CAN ICES-3(B)/NMB-3(B)

WARNING! Avertissement: ¡Advertencia!
GUARDAR LAS INSTRUCCIONES. Nota de cortesía para el usuario final. DÉ AL USUARIO FINAL LAS INSTRUCCIONES. ¡GUARDALAS PARA FUTURAS CONSULTAS!
PAS DE DESCARTAR. Para mayor información, consulte este documento en español. No apto para niños menores de 14 años.

WARNING: Never leave product charging unattended for extended periods of time. Always disconnect battery from charger immediately after the BATWING™ is fully charged. Please refer to enclosed safety instructions.

PACKAGE CONTAINS:

BATWING™ 2.4G Wireless Controller USB Charging Cord Charger Spares Parts Instruction Booklet Micro SD card reader

Colors and styles may slightly vary.
Thank you for purchasing the 2.4 G Indoor/Outdoor BATWING™. Please read this instruction booklet as it contains valuable information on how to properly fly and care for your BATWING™.
**BATWING™ QUADROCOPTER DIAGRAM**

The safety guard is easy to clip on and off, simply pull the clips away from each motor mount and remove the Batwing™ from below.

**NOTE:** Always have the safety guard attached when flying in speed mode 1.

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**REMOTE DIAGRAM**

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**WARNING**

DO NOT FLY YOUR BATWING™ IN FOUL WEATHER!

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**SYNCING YOUR BATWING™**

**IMPORTANT:** When syncing your Batwing™ drone with the controller always make sure that the drone is on a flat level surface. This ensures that the 6-axis gyro is properly programmed to mimic your trim settings.

Your Batwing™ utilizes an automatic 2.4G channel selection system that allows up to 8 people to fly side by side in the same wireless range.

**FOR ONE PERSON PLAY:**

1. Before starting, make sure that the power on your controller is in the off position and the Batwing™ battery is disconnected. Make sure that there are no other 2.4G devices in the area.

2. Insert the battery into the Batwing™ to turn on and set it down on a flat surface. The white and red LED indicators of the Batwing™ should flash rapidly.

3. Turn on your remote and you will hear 2 short beeps; the white and red LED lights start flashing slower, push the throttle all the way up and pull it down. The white and red LED lights stay solid. Your Batwing™® and remote should have successfully synced. This should not happen. Repeat all steps again.

**FOR MULTI PERSON PLAY:**

4. Before starting, make sure that the power on all Batwing™® and controllers are in the off position, make sure that there are no other 2.4G devices in the area as well.

5. Each person will have to sync their Batwing™® individually at a different time to avoid interference. Follow steps 1 to 3 above making sure to keep away from other people while also making sure that no one else is syncing at the same time.

6. After syncing a player's Batwing™®, it should be left on until all players have synced their Batwing™.

7. Should there be a mistake/interference, all players must turn off their controllers and Batwing™® and start the process all over again.

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**FLYING TIPS**

- It is recommended that you operate the Batwing™® in a wide space. The ideal space should be a zoo foot radius.
- Parental guidance or adult supervision is suggested at all times.
- If you are flying the Batwing™® with others, make sure all spectators are behind you.
- For best performance, it is recommended that you operate the Batwing™® in zero wind conditions. Wind can greatly affect the performance of the Batwing™®.
NOW YOU ARE READY TO FLY!

IF YOU HAVE SUCCESSFULLY SYNCHED YOUR BATWING™ TO YOUR CONTROLLER AS EXPLAINED ON PAGE 4, YOU ARE NOW READY TO FLY. BEFORE BEGINNING TO FLY YOUR DRONE YOU SHOULD FAMILIARIZE YOURSELF WITH HOW TO START AND STOP THE ROTORS, HOW TO USE YOUR TAKE-OFF AND AUTO LAND FEATURE AND HOW THE CONTROLS WORK. PLEASE CAREFULLY READ AND FAMILIARIZE YOURSELF WITH VARIOUS CONTROL FEATURES EXPLAINED IN THE NEXT FEW PAGES. ONCE AGAIN AS A BEGINNER PILOT YOU SHOULD LEARN HOW TO CONTROL YOUR DRONE IN A LARGE OPEN FIELD OR PARK ON A DAY WITH ZERO OR VERY LIGHT WIND. DO NOT TRY TO FLY YOUR BATWING™ TOO HIGH UNTIL YOU BECOME A MORE EXPERIENCED PILOT.

RECOGNIZING THE FRONT AND BACK OF THE BATWING™

Even though the BATWING™ has four rotors there is still a front or “forward” facing direction and “back” or backwards facing direction. The front and forward facing direction of the BATWING™ is the side with two ears, the rear and back of the BATWING™ is where the battery compartment is. The BATWING™ when in flight will also help you keep aware of the orientation with lit LED lights in the arms of the BATWING™. Note: The front of the copter displays white LED lights and the back of the copter displays red LED lights.

AUTOMATICALLY TAKE OFF / LAND

Make sure you have properly synchronized the BATWING™.
- Simply press the “START/LAND” button on the top of controller, your BATWING™ will automatically take off.
- To stop or land the BATWING™ just press the “START/LAND” button again and the BATWING™ will descend and land automatically.

Tips: You can also move the two control sticks simultaneously down and to the inside corners and hold for one second and you will hear a “beep” then push the throttle slowly to start the rotors manually.

In case of emergency: To stop the rotors instantly, simply press the calibrate button on the top of the controller, located in the center.

SPEED SETTING BUTTON

The BATWING™ has 3 speed settings: 1 (SLOW), 2 (MEDIUM) and 3 (HIGH). The default setting when you first turn on your BATWING™ is the 3 (HIGH) speed mode. To increase the speed, simply press the speed setting button (see remote diagram on page 3), you will hear a beep, and the speed indicator will display the current speed setting with the number. Number 1 indicates slow speed, 2 indicates medium speed and 3 indicates high speed.

3/4 CHANNEL SELECT

BATWING™ allows you to control your quadcopter in 3 channel mode (beginner) or 4 channel mode (advanced flying). The BATWING™ default setting is 4 channel mode. To change to 3 channel mode: Press the 3CH button (see remote diagram on page 3), you will hear 3 short beeps and the “3” will light up on the controller indicating the BATWING™ is now set to 3CH mode. To change back to 4 channel mode: Press the 4CH button (see remote diagram on page 3), you will hear 4 short beeps and the “4” will light up on the controller indicating the BATWING™ is now set to 4CH mode.

UNDERSTANDING TRIM ADJUSTMENTS

FORWARD/BACKWARD TRIM

- If your BATWING™ is moving forwards or backwards automatically, you may need to adjust the forward/backward trim buttons.
- If your BATWING™ flies forward, push and release the forward trim button repeatedly until the drone stops and proper flight is maintained.
- If your BATWING™ flies backwards, push and release the forward trim button in the same manner until the problem is resolved.
- From time to time you may have to adjust the forward/backward trim to ensure the BATWING™ will hover in mid-air and respond accurately to your commands.

BANKING LEFT/RIGHT TRIM

- If your BATWING™ is not steadily hovering and is banking to the left or right automatically, you may need to adjust the banking trim buttons.
- If your BATWING™ banks to the left, push and release the right trim button repeatedly until the banking stops and proper flight is maintained.
- If your BATWING™ banks to the right, push and release the left trim button in the same manner until the problem is resolved.
- From time to time you may have to adjust the banking trim to ensure the BATWING™ will steadily hover in mid-air and respond accurately to your commands.

Notes: The use of the trim buttons are accompanied with a beep tone. A single long beep indicates the product is centered. Two continuous long beeps indicate the product is trimmed to the maximum on a particular side.
4 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote control Batwing™. While learning to fly your Batwing™ it is best to start with a large space until you get used to the basic controls. As you master flying your Batwing™ you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

- **Move the throttle up to increase the speed of the motors and the Batwing™ will rise up.**
- **Move the throttle down to decrease the speed of the motors and the Batwing™ will descend.**
- **Move the throttle stick left and the Batwing™ will rotate left.**
- **Move the throttle stick right and the Batwing™ will rotate right.**
- **Move the direction control left and the Batwing™ will move forward.**
- **Move the direction control right and the Batwing™ will move backward.**
- **Move the direction control left and the Batwing™ will bank to the left.**
- **Move the direction control right and the Batwing™ will bank to the right.**

3 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote control Batwing™. While learning to fly your Batwing™ it is best to start with a large space until you get used to the basic controls. As you master flying your Batwing™ you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

- **Move the throttle up to increase the speed of the motors and the Batwing™ will rise up.**
- **Move the throttle down to decrease the speed of the motors and the Batwing™ will descend.**
- **Move the throttle stick left and the Batwing™ will rotate left.**
- **Move the throttle stick right and the Batwing™ will rotate right.**
- **Move the direction control left and the Batwing™ will move forward.**
- **Move the direction control right and the Batwing™ will move backward.**
- **Move the direction control up and the Batwing™ will move upward.**
- **Move the direction control down and the Batwing™ will move downward.**

Calibrating the Batwing™

If the Batwing™ becomes unstable during the course of flying, you may need to recalibrate the internal gyros. To do this place the Batwing™ on a flat level surface, press and hold the calibrate button for 3 seconds on the top of remote controller.

The LEDs on the Batwing™ will flash quickly and then remain solid. This indicates your drone has been recalibrated (see diagram).
HOW TO DO 360° STUNT ROLLS

1. IN ORDER TO MAKE YOUR BATWING™ DO 360° ROLLS, YOU MUST FULLY CHARGE YOUR BATTERY.

   **NOTE:** THE BATWING™ WILL NOT DO 360° STUNT ROLLS IN SPEED MODE 1 AND UNDER LOW BATTERY INDICATION (THE LED LIGHTS ON THE DRONE WILL BE FLASHING).

2. ONCE YOU ARE READY TO ATTEMPT A 360° ROLL, SIMPLY DEPRESS AND LET GO OF THE "STUNT" BUTTON ON THE TOP RIGHT HAND SIDE OF YOUR CONTROLLER (SEE REMOTE DIAGRAM ON PAGE 3), YOU WILL HEAR A SOUND. THIS INDICATES YOU ARE IN "STUNT MODE."

3. NOW QUICKLY MOVE YOUR RIGHT CONTROL STICK IN ANY OF 4 DIRECTIONS; UP, DOWN, LEFT OR RIGHT AND YOUR BATWING™ COPTER WILL INSTANTLY ROLL IN THE ASSOCIATED DIRECTION. SEE DIAGRAM BELOW.

![Diagram](image)

USING YOUR ON BOARD CAMERA AND VIDEO RECORDER

YOUR BATWING™ COMES EQUIPPED WITH AN ONBOARD DIGITAL CAMERA THAT TAKES BOTH VIDEO AND STILL PHOTOGRAPHS. NOW YOU CAN HAVE HOURS OF FUN CREATING AERIAL PHOTOGRAPHY AND VIDEOS FOR FAMILY AND FRIENDS.

WHAT YOU WILL NEED TO GET STARTED USING YOUR CAMERA

1. ONE MICRO SD CARD (NOT INCLUDED). SUPPORT CLASS 10 MICRO SD CARD OR FASTER, UP TO 32 GB MEMORY STORAGE.
2. ONE MICRO SD CARD READER (INCLUDED)
3. ONE COMPUTER WITH USB PORT AND WINDOWS MEDIA PLAYER OR OTHER MEDIA PLAYER THAT CAN PLAY AVI FILES (NOT INCLUDED).

FORMATTING YOUR MICRO SD CARD

BEFORE YOU CAN BEGIN TO TAKE VIDEOS OR DIGITAL PHOTOGRAPHS YOU MUST FIRST FORMAT YOUR MICRO SD CARD. TO FORMAT YOUR MICRO SD CARD SIMPLY PLACE THE MICRO SD CARD INTO THE INCLUDED USB CARD READER AND PLUG IT INTO YOUR COMPUTER'S USB PORT (SEE DIAGRAM 1 AND 2 BELOW). AFTER A FEW MOMENTS AN ICON WILL APPEAR ON YOUR DESKTOP. RIGHT CLICK ON THE ICON AND FOLLOW INSTRUCTIONS TO FORMAT YOUR MICRO SD CARD.

INSTALLING THE MICRO SD CARD IN YOUR BATWING™ QUADROCOPTER

- DISCONNECT THE BATTERY FROM YOUR BATWING™.
- PLACE THE FORMATTED MICRO SD CARD INTO THE BACK OF THE BATWING™'S DIGITAL CAMERA PORT. (SEE DIAGRAM 3 BELOW) PUSH GENTLY AND CONSISTENTLY UNTIL YOU HEAR AND FEEL THE MICRO SD CARD "CLICK" INTO THE DIGITAL CAMERA SLOT.
- RECONNECT THE BATWING™ BATTERY AND MAKE SURE THAT IT IS BOTH FULLY CHARGED AND PROPERLY SYNCRONIZED TO THE CONTROLLER (SEE HOW TO SYNC YOUR DRONE ON PAGE 7).
- WHEN YOU HAVE SUCCESSFULLY INSTALLED YOUR MICRO SD CARD AND YOUR BATWING™ IS POWERED UP, YOU WILL SEE SOLID RED LED LIGHTS ON THE CAMERA UNIT BRIEFLY.

NOTE: IF YOU SEE A CONTINUOUS RAPID FLASHING LIGHT THIS MEANS YOU HAVE NOT INSTALLED YOUR MICRO SD CARD CORRECTLY OR THERE IS A PROBLEM WITH YOUR CARD.

IF THIS HAPPENS FIRST MAKE SURE THAT THE PRODUCT IS NOT IN VIDEO RECORD MODE AND IF NOT THEN PLEASE REFORMAT AND TRY AGAIN. IF YOU CONTINUE TO ENCOUNTER PROBLEMS CALL OUR CUSTOMER SERVICE LINE AT 949.566.9573 EXT. 7 FOR ASSISTANCE.

![Diagram](image)
TAKING DIGITAL PHOTOS

TO TAKE PHOTOGRAPHS SIMPLY PRESS AND RELEASE THE PHOTO BUTTON ON THE TOP OF THE CONTROLLER (REFER TO CONTROLLER DIAGRAM ON PA. 3). WHEN YOU PUSH THE BUTTON YOU WILL HERE A "Beep" AND THE RED LED LIGHTS ON CAMERA WILL FLASH ONE TIME INDICATING THAT A PICTURE HAS BEEN TAKEN. WHEN THE CAMERA READY LIGHT BECOMES SOLID AGAIN YOU ARE READY FOR YOUR NEXT PHOTOGRAPH.

RECORDING VIDEOS

TO RECORD A VIDEO FIRST MAKE SURE THAT YOUR QUADROCOPTER IS FULLY CHARGED AND THAT YOU HAVE CORRECTLY INSTALLED THE MICRO SD CARD IN THE QUADROCOPTER CAMERA PORT. BEGIN RECORDER A VIDEO BY PRESSING AND HOLDING THE VIDEO RECORD BUTTON ON THE TOP OF THE CONTROLLER (SEE CONTROLLER DIAGRAM ON PAGE 3). THE RED LED LIGHTS ON THE CAMERA UNIT WILL SLOW FLASH CONSTANTLY TO INDICATE THAT YOU ARE IN VIDEO MODE AND THE CAMERA IS RECORDING. TO STOP THE VIDEO RECORDING, PRESS THE RECORD BUTTON A SECOND TIME. THE RED INDICATOR LIGHT ON THE BELLY OF THE CAMERA WILL CHAGE TO SOLID INDICATING THAT VIDEO RECORDING HAS STOPPED AND THE CAMERA IS IN READY MODE AGAIN.

IMPORTANT NOTICE: YOU CANNOT TAKE PHOTOS AND VIDEOS AT THE SAME TIME. WHEN YOU ARE IN VIDEO MODE YOUR CAMERA/PHOTO BUTTON IS DISABLED. IF YOU WANT TO TAKE PHOTOS YOU MUST FIRST TURN OFF VIDEO MODE.

REMOVING YOUR MICRO SD CARD

TO REMOVE YOUR MICRO SD CARD PUSH IN GENTLY ON THE BACK OF THE CARD WITH YOUR THUMB OR FINGERTIP UNTIL YOU HEAR AND FEEL A "CLICKING SOUND". THE MICRO SD CARD WILL "POP OUT" SLIGHTLY AND IS READY FOR REMOVAL. SIMPLY GRAB AND PULL GENTLY AWAY FROM THE QUADROCOPTER CAMERA PORT TO REMOVE THE CARD. ALWAYS STORE YOUR MICRO SD CARD IN A CLEAN, SAFE AND COOL ENVIRONMENT.

DOWNLOADING AND CLEARING SPACE ON YOUR MICRO SD CARD

PLUG YOUR MICRO SD CARD INTO THE MICRO SD CARD READER AND CONNECT TO YOUR COMPUTER. IT IS BEST TO ALWAYS DOWNLOAD ALL YOUR VIDEOS AND PICTURES ON TO YOUR COMPUTER AND NOT STORE THIS DATA ON YOUR MICRO SD CARD. AFTER DOWNLOADING YOUR PHOTOS AND VIDEOS, FOLLOW YOUR COMPUTER'S INSTRUCTIONS TO "DELETE" FILES ON YOUR MICRO SD CARD.

IMPORTANT NOTICE: WHEN YOUR MICRO SD CARD IS FULL THE INDICATOR LIGHT ON THE BOTTOM OF YOUR QUADROCOPTER WILL NOT FLASH WHEN YOU PRESS THE PHOTOGRAPH OR VIDEO RECORD BUTTON. THIS INDICATES THAT ITS TIME PUT A NEW SD CARD IN YOUR QUADROCOPTER OR DOWNLOAD FILES AND CLEAR SPACE FOR FUTURE PHOTOS AND VIDEOS.

BATWING™ WARNING:

THE BATWING™ IS DESIGNED FOR INDOOR AND OUTDOOR USE. THE BATWING™ BLADES REVOLVE AT HIGH SPEEDS AND CAN CAUSE DAMAGE TO THE USER, SPECTATORS AND ANIMALS. STAND AWAY FROM THE BLADES TO REDUCE THE RISK OF GETTING INTO THE PATH WAY. IF ANIMALS THAT YOU WILL BE FLYING YOUR BATWING™ SO THAT THEY ARE AWARE OF ITS POSITION. BEFORE FLIGHT, INSPECT THE ROTOR BLADES TO MAKE CERTAIN THAT THE BLADES ARE SECURELY FASTENED TO THE BATWING™.

WARNING!

- CHECKING/CLIPPING HAZARD SMALL PARTS/SHARP ROTOR BLADES.
- KEEP HANDS, HAIR AND LOOSE CLOTHINGS AWAY FROM THE PROPULSER WHEN THE POWER IS TURNED TO THE ON POSITION.
- TURN OFF THE TRANSMITTER AND THE BATWING™ POWER SWITCHES WHEN NOT IN USE.
- THE INCLUDED CHARGER IS NOT SPECIFICALLY FOR THE BATWING™ Li-POLY BATTERY. DO NOT USE IT TO CHARGE ANY OTHER BATTERY.
- NEW ALKALINE BATTERIES ARE RECOMMENDED FOR MAXIMUM PERFORMANCE.
- PARENTAL SUPERVISION RECOMMENDED WHEN FLYING BATWING™

BATTERY WARNINGS

RECHARGEABLE BATTERY

THIS BATWING™ USES A Li-POLY RECHARGEABLE BATTERY. IF THE BATTERY NO LONGER STAYS CHARGED, DISPOSE OF THE BATTERY PROPERLY ACCORDING TO LOCAL RECYCLING REQUIREMENTS.

CONTROLLER BATTERIES

REMOTE CONTROL REQUIRES 2 "AAA" BATTERIES (NOT INCLUDED). PLEASE READ THE IMPORTANT BATTERY SAFETY WARNING BELOW.

- DO NOT MIX OLD AND NEW BATTERIES.
- NON-RECHARGEABLE BATTERIES ARE NOT TO BE RECHARGED.
- RECHARGEABLE BATTERIES ARE TO BE REMOVED FROM THE UNIT BEFORE BEING CHARGED.
- RECHARGEABLE BATTERIES HAVE A SEAL WHICH WHEN OPENED CAN BE RISK OF LEAKAGE.
- BATTERIES ARE TO BE INSTALLED WITH THE CORRECT POLARITY (SEE WIRE BOOKLET FOR DIAGRAM), DO NOT DISPOSE OF BATTERIES IN A FIRE - BATTERIES MAY LEAK OR EXPLODE.

CARE AND MAINTENANCE

- ONCE REMOVED, THE BATTERIES FROM THE WIRELESS INFRARED REMOTE CONTROL WHEN IT IS NOT BEING USED FOR AN EXTENDED PERIOD OF TIME.
- TO CLEAN, GENTLY Wipe THE REMOTE CONTROL AND BATWING™ WITH A CLEAN DRY CLOTH.
- KEEP THE TOY AWAY FROM DIRECT HEAT OR SUNLIGHT.
- DO NOT SUBMERGE THE TOY INTO WATER. THIS CAN DAMAGE THE UNIT BEYOND REPAIR.
- PARENTAL GUIDANCE RECOMMENDED WHEN INSTALLING OR REPLACING THE BATTERIES.

REPLACING THE PROPELLER BLADES

WARNING: REMOVE BATTERY BEFORE REPLACING BLADES

YOUR BATWING™ PROPELLER SYSTEM IS A PRECISION INSTRUMENT THAT MAY NEED REPAIR OR REPLACEMENT FROM TIME TO TIME FOR OPTIMAL FLIGHT FUNCTION. CRASH LANDING FROM HIGH-SPEED DROPPING FLIGHTS MAY CAUSE DAMAGE TO YOUR BATWING™ PROPELLERS.

1. THE BATWING™ HAS FOUR BLADES, TWO A & B BLADES ON FRONT, AND TWO B & A BLADES ON BACK (SEE THE DIAGRAM BELOW).
2. PICK UP A BLADE FROM THE INCLUDED SPARE PARTS AND MATCH THE MARKINGS TO THE DIAGRAM BELOW.
3. REPLACING THE CORRECT BLADE TO THE BROKEN BLADE.