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 ASTM, CPSIA and FCC.

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Made in China

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

PACKAGE CONTAINS:

- BATWING™
- 2.4G Wireless Controller
- USB Charging Cord
- Charger
- Spare Parts
- Instruction Booklet

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™.

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Battery Compartment
(2 "AAA" batteries not included)

IMPORTANT: ALWAYS REMEMBER TO UNPLUG YOUR CHARGER WHEN NOT IN USE!

BATTERY COMPARTMENT

REMOTE CONTROL BATTERY INSTALLATION

1. UNSCREW THE BATTERY COVER FROM THE BACK OF THE REMOTE CONTROL.
2. INSTALL 2 "AAA" ALKALINE BATTERIES INTO THE BATTERY PACK AS SHOWN IN THE DIAGRAM.
3. REPLACE THE BATTERY COVER AND SECURE IT.

CHARGING YOUR BATWING™ BATTERY

1. TURN THE BATWING™ OVER AND CAREFULLY REMOVE THE BATTERY (SEE DIAGRAM A).
3. AVERAGE CHARGING TIME IS 70 MINUTES. RED LED INDICATOR GOES OFF WHEN CHARGING AND WILL TURN RED WHEN BATTERY IS FULLY CHARGED. A FULL CHARGE WILL ALLOW FOR ABOUT 5-6 MINUTES OF FLIGHT TIME DEPENDING ON ENVIRONMENT AND USER INPUT.

FEATURES

- BUILT IN 6 AXIS GYROSCOPIC CHIP KEEPS THE BATWING™ EXTREMELY STABLE IN ALL CONDITIONS.
- UNIQUE SWITCH BLADE TECHNOLOGY ALLOWS FOR 3CH AND 4CH FLIGHT MODES.
- 3 DIFFERENT SPEED SETTINGS FOR SLOW TO HIGH SPEED FLYING.
- LED DIRECTIONAL LIGHTS MAKES THE BATWING™ EASY TO FOLLOW.
- 2.4G RADIO ALLOWS FOR A 200 FOOT OPERATIONAL RANGE.
- THE BATWING™ IS ENGINEERED FOR INCREDIBLE MANEUVERABILITY INCLUDING 360˚ AERIAL STUNTS!

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™.
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.

**REMOTE DIAGRAM**

- Propeller Guard
- Li-Poly Battery Compartment
- Propeller Blade

**BATWING™ QUADROCOPTER DIAGRAM**

- Propeller Guard
- Li-Poly Battery Compartment
- Propeller Blade

**REMovable Controller Grips**

- Easily slides off and on. (see remote diagram)

**WARNING**

**DO NOT FLY YOUR BATWING™ IN FOUL WEATHER!**

**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 insures 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 BATWING™ battery is disconnected. Make sure that there are no other 2.4G devices in the area as well.
2. Insert the battery into the BATWING™ to turn on and set it down on a flat surface.
3. On the remote, pull the throttle all the way down, then turn on your remote and you will hear 2 short beeps, the white and red LED lights should stay solid. Push the throttle all the way up and pull it down, your BATWING™ and remote should have successfully synced. Should this 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.

**FLying Tips**

- It is recommended that you operate the BATWING™ in a wide space. The ideal space should have a 200 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™.

**PREPARING FOR FLIGHT**

- Verify that there are 2 "AAA" batteries inside the remote control unit and the BATWING™ has been fully charged.
- Make sure to be in a large space with an open radius of at least 50 feet.
- Make sure the empty space has no obstacles or bodies of water. Set your BATWING™ on a clean flat surface before take-off.

**DO NOT attempt to fly your BATWING™ if there is rain, snow, heavy winds, thunder or lightning outdoors. It could damage your product and possibly even cause bodily harm.**

**DO NOT FLY YOUR BATWing™ IN FOUL WEATHER!**

- Verify that there are 2 "AAA" batteries inside the remote control unit and the BATWING™ has been fully charged.
- Make sure to be in a large space with an open radius of at least 50 feet.
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**FLying Tips**

- It is recommended that you operate the BATWING™ in a wide space. The ideal space should have a 200 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™.
Even though the BATWING has four rotors there is still a front or “forward” facing direction and “back” or backwards facing direction. The forward 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 lighted LED lights on the bottom of the BATWING™.

NOTE: The front of the copter displays WHITE LED lights and the back of the copter displays RED LED lights.

The BATWING™ allows you to control your Quadrocopter 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 pg 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 pg 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.

To start the batwing™ for the first time, make sure the propeller guard is installed, and the speed is set to mode 1 (slow).

Make sure you have properly synced the batwing™ as shown on page 4.

Starting with the left control stick at the bottom, slowly push up on the control stick to take off and the rotors should begin to spin and take off.

To stop or land the batwing™, slowly lower the left control stick, the rotors will slow down and the batwing™ will descend when the batwing™ lands on the ground the rotors will turn off automatically.

The BATWING™ has 3 speed settings; 1 (SLOW), 2 (MEDIUM) and 3 (HIGH). The default setting when you first turn on your BATWING™ is mode 1 (SLOW). 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.

**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 forward 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 lighted LED lights on the bottom of the BATWING™.

**NOTE:** The front of the copter displays WHITE LED lights and the back of the copter displays RED LED lights.

**NOW YOU ARE READY TO FLY!**

- **RECOGNIZING THE FRONT AND BACK OF THE BATWING™**
- **HOW TO TAKE OFF / LAND**
- **SPEED SETTING BUTTON**
- **3/4 CHANNEL SELECT**

**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 B trim button repeatedly until the moving stops and proper flight is maintained.
- If your BATWING™ flies backwards, push and release the F 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 R trim button repeatedly until the banking stops and proper flight is maintained.
- If your BATWING™ banks to the right, push and release the L 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.

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**NOTE:** The use of the trim buttons are accompanied with a beep tone. A single long beep indicates the product is center trimmed. Continuous long beeps indicate the product is trimmed to the maximum on a particular side.
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 up and the BATWING™ will move forward.

Move the Direction Control down 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.

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.

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.

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 on the top of the remote controller for 3 seconds.

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

1. IN ORDER TO MAKE YOUR BATWING™ DO 360º ROLLS YOU MUST FULLY CHARGE YOUR BATTERY.
   **NOTE:** THE BATWING™ WILL NOT DO 360º STUNT ROLLS IN MODE1 AND UNDER LOW BATTERY INDICATION (THE LED LIGHTS ON THE DRONE WILL BE FLASHING).

2. ONCE YOU ARE READY TO ATTEMPT A 360º 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 INDICATING 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.

BATTERY 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 BATWING™ TO REDUCE THE RISK OF GETTING INTO THE FLIGHT PATH. WARN SPECTATORS 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/PUTTING HAZARD SMALL PARTS/SHARP ROTOR BLADES.
- KEEP HANDS, HAIR AND LOOSE CLOTHING AWAY FROM THE PROPELLER WHEN THE POWER SWITCH IS TURNED TO THE ON POSITION.
- TURN OFF THE TRANSMITTER AND THE BATWING™ POWER SWITCHES WHEN NOT IN USE.
- THE INCLUDED CHARGER IS BUILT SPECIFICALLY FOR THE BATWING™ LI-PO 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-PO RECHARGEABLE BATTERY. IF THE BATTERY NO LONGER STAYS CHARGED, DISPOSE OF THE BATTERY PROPERLY ACCORDING TO LOCAL DISPOSAL REQUIREMENTS.

**CONTROLLER BATTERIES:**
- REMOTE CONTROL REQUIRES 2 “AAA” BATTERIES (NOT INCLUDED). PLEASE READ THE IMPORTANT BATTERY SAFETY WARNINGS BELOW.
- **DO NOT** MIX ALKALINE, STANDARD (CARBON-ZINC) AND RECHARGEABLE BATTERIES (NICKEL METAL HYDROXIDE).
- **DO NOT** MIX OLD AND NEW BATTERIES.
- **NON-RECHARGEABLE BATTERIES ARE NOT TO BE RECHARGED.**
- **RECHARGEABLE BATTERIES ARE TO BE REMOVED FROM THE ITEM BEFORE BEING CHARGED (IF REMOVABLE).**
- **RECHARGEABLE BATTERIES ARE ONLY TO BE CHARGED UNDER ADULT SUPERVISION.**
- **EXHAUSTED BATTERIES SHOULD BE REMOVED IMMEDIATELY AND MUST BE RECYCLED OR DISPOSED OF PROPERLY, ACCORDING TO STATE OR LOCAL GOVERNMENT ORDINANCES AND REGULATIONS.**
- **THE SUPPLY TERMINALS ARE NOT TO BE SHORT-CIRCUITED.**
- **ONLY BATTERIES OF THE SAME OR EQUIVALENT TYPE AS RECOMMENDED ARE TO BE USED.**
- **BATTERIES ARE TO BE INSERTED WITH THE CORRECT POLARITY (SEE INSIDE BOOKLET FOR DIAGRAM).**
- **DO NOT DISPOSE OF BATTERIES IN A FIRE – BATTERIES MAY LEAK OR EXPLODE.**

CARE AND MAINTENANCE

- **ALWAYS** REMOVE 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 DAMP 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 AERIAL 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 MARKING TO THE DIAGRAM BELOW.
3. REPLACING THE CORRECT BLADE TO THE BROKEN BLADE.