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.

⚠ WARNING!
CHOKING HAZARD - Small parts.
Not suitable for children under 3 years.

microSDHC™ CLASS 6

Requires Speed Class 6 or higher microSD or microSDHC card (not included)

microSDHC Logo is a trademark of SD-3C, LLC.

Conforms to safety requirements of FCC.

Made in China   V 3.0

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X04
2.4GHz Quadrocopter with HD Camera

ON BOARD CAMERA   ON BOARD VIDEO
1280 x 720 pixel
30 frames per second

INSTRUCTION BOOKLET

WARNING: Never leave product charging unattended for extended periods of time. Always disconnect X04 from charger immediately after the X04 is fully charged. Please refer to enclosed safety instructions.

PACKAGE CONTAINS:

X04   2.4G Wireless Controller   Spare Parts   Instruction Booklet

Colors and styles may vary slightly.

BC   PROPEL

| ARTWORK NO.	DESCRIPTION	MDSER	DESIGNER	DATE
X04 En IM	112×172 mm		Jerry	2019/3/22

PROPEL

TABLE OF CONTENTS

Thank you for purchasing the X04 2.4Ghz Indoor/Outdoor Quadrocopter. Please read this instruction booklet as it contains valuable information on how to properly fly and care your X04.

FEATURES
• Built in 6 axis gyroscopic chip keeps the X04 extremely stable in all conditions.
• Incredible maneuverability including 360˚ aerial stunts!
• LED directional lights make the X04 easy to follow.
• Unique Switch-Blade technology allows you to operate in either 3ch or 4ch modes.
• Takes still photos and records video footage.
• Air pressure sensor locks flight altitude for stable video footage.

REMOTE CONTROL BATTERY INSTALLATION
1. Unscrew and remove the battery cover from the back of the controller.
2. Install 2 "AAA" alkaline batteries into the controller as shown in diagram A
3. Replace the battery cover and secure it.
4. Turn over the controller and short press the power button, you will see the indicator light turn on and start flashing.
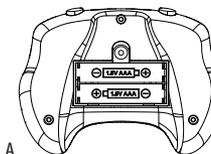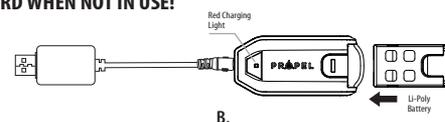
Battery Cover

Battery Compartment
(2 "AAA" batteries)
A.

CHARGING THE X04 LI-POLY BATTERY
1. Insert the battery to the charger as shown (see diagram B).
2. Connect the USB end of the cable to your computers USB port or a USB wall charger (see diagram C).
   Note: When the charger is charging it will show a flashing RED indicator light. This lets you know that charging is in progress.
3. When the X04 battery is fully charged the charging indicator light will turn green.
4. Average charging time is approximately 30-40 minutes (via 5.0V⎓2A USB wall charger). A fully charged X04 can fly for 5-7 minutes depending on environment and user input.
   NOTE: You may purchase additional batteries and rapid wall chargers at www.propelrc.com.

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

Red Charging Light

PROPEL

Li-Poly Battery

B.

C.

X04 BATTERY INSTALLATION
1. Slide the fully charged battery into X04 battery compartment (see diagram D).
   NOTE: The X04 has no on/off switch. The X04 automatically turns on when the LI-POLY battery is inserted. To Switch off simply unplug the Battery

CAUTION!NEVER FORCE THE BATTERY IN! The battery fits in only in one direction, always use mild force! If you feel it won't slide in easily or can't go in all the way, please remove it off and try again!

D

X04 DIAGRAM
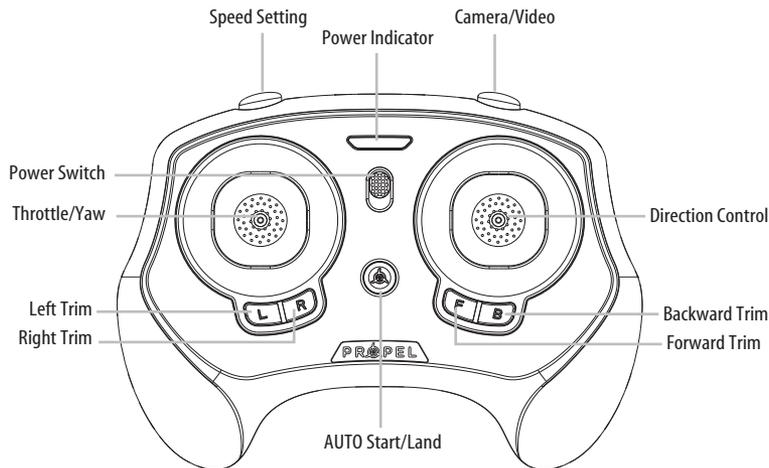
Rear Rotor Blades
(black color)

Front Rotor Blades
(Gray color)

battery
compartment

Digital Camera

Safety Cage

Landing Gear

REMOTE DIAGRAM

Speed Setting

Power Indicator

Camera/Video

Power Switch

Throttle/Yaw

Direction Control

Left Trim

Backward Trim

Right Trim

Forward Trim

AUTO Start/Land

PROPEL
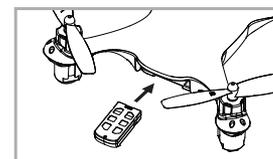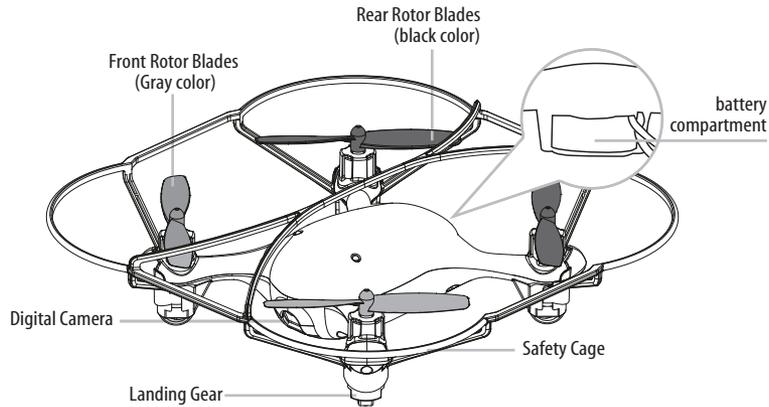
WARNING
DO NOT FLY YOUR DRONE IN FOUL WEATHER!

SYNCING YOUR X04

Important! When syncing your X04 quadrocopter with the controller always make sure that the quadrocopter is on a flat level surface and that your digital trim settings are in the center position. This ensures that the 6 Axis gyro is properly programmed to mimic your trim settings.

Your X04 utilizes an automatic 2.4G channel selection system that allows up to 8 people to fly side by side in the same wireless range with no interference.

For One Person Play:
1. Before starting, make sure that your controller is OFF and the X04's battery is disconnected. Make sure that there are no other 2.4G devices in the area as well.
2. Install the X04's battery and set it down on a flat level surface. The LED indicators on the body should start flashing.
3. Turn ON the remote, you will hear beeping sounds, the white LED lights on the drone should flash slower. Pull the throttle all the way up and then all the way down, you'll hear 2 beeping sounds and the white LED lights will turn solid. Now you have successfully synced your X04 to your controller. Should these not happen, repeat above steps again.

For Multi Person Play:
4. Before starting, make sure that the power on all X04's and Controllers are OFF. Make sure that there are no other 2.4G devices in the area as well.
5. Each person will have to sync his X04 individually at a different time to avoid interference. Follow steps 1 to 3 above, making sure no one else is syncing at the same time.
6. After syncing a player's X04, it should be left ON until all players have synced their quadrocopters.
7. Should there be a mistake/interference, all players must turn off their controllers and quadrocopters for 60 seconds and then begin the process again.

NOTE: If there is no microSDHC card inserted in the Drone, the red LED's will flash constantly.

PREPARING FOR FLIGHT

• Verify that there are 2 "AAA" batteries inside the remote control unit and the X04 has been fully charged.
• Make sure your X04 and controller are both on.
• 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 and bodies of water. Set your X04 on a clean level flat surface before take-off.

DO NOT ATTEMPT TO FLY YOUR X04 IF THERE IS RAIN, SNOW, HEAVY WINDS, THUNDER OR LIGHTNING OUTDOORS. IT COULD DAMAGE YOUR PRODUCT AND POSSIBLY EVEN CAUSE BODILY HARM.

FLYING TIPS

• It is recommended that you operate the X04 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 X04 with others, make sure all spectators are behind you.
• For best performance, it is recommended that you operate the X04 in zero wind condition. Wind can greatly affect the performance of the X04.

RECOGNIZING THE FRONT AND REAR OF THE QUADROCOPTER

Even though the Quadrocopter has four rotors there is still a front or "forward" facing direction and "rear" or backwards facing direction. The Front and forward facing direction of the Quadrocopter is the side with two gray blades (see diagram F). The rear or"backward" facing direction of the Quadrocopter is the side with charging socket and the two black propellers (see diagram F).
**NOTE: The front of the Quadrocopter displays WHITE LED lights and the back of the Quadrocopter displays RED LED lights.**
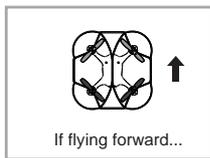
Front

Rear   F
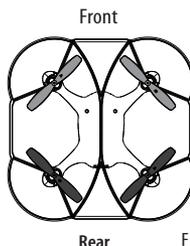
## UNDERSTANDING TRIM ADJUSTMENTS

Forward/Backward Trim
• If your X04 is moving forwards or backwards automatically, you may need to adjust the FORWARD/BACKWARD TRIM buttons.
• If your X04 drifts forward, push and release the BACKWARD TRIM (B)button repeatedly until the moving stops and proper flight is maintained.
• If your X04 drifts backwards, push and release the FORWARD TRIM (F)button in the same manner until the problem is resolved.
• From time to time you may have to adjust the FORWARD or BACKWARD TRIM buttons to ensure the X04 will hover in mid-air and respond accurately to your commands.
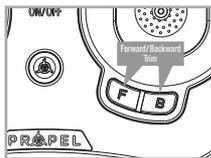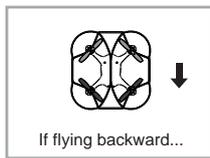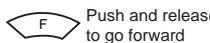
Forward/Backward Trim Controls

If flying forward...

If flying backward...
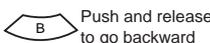
B Push and release to go backward

F Push and release to go forward

Banking Left/Right Trim
• If your X04 is not steadily hovering and is banking to the left or right automatically, you may need to adjust the LEFT BANK or RIGHT BANK Trim buttons.
• If your X04 banks to the left, push and release the RIGHT BANK TRIM (R)button repeatedly until the banking stops and proper flight is maintained.
• If your X04 banks to the right, push and release the LEFT BANK TRIM (L) button in the same manner until the problem is resolved.
• From time to time you may have to adjust the LEFT and RIGHT BANK TRIM to ensure the X04 will steadily hover in mid-air and respond accurately to your commands.
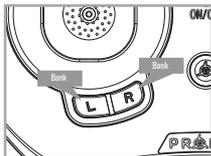
Left/Right Banking Controls
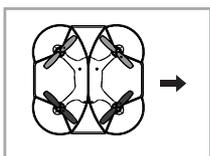
L Push the left button to increase left banking sensitivity
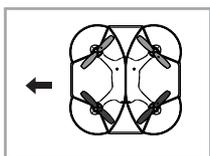
R Push to right button to increase right banking sensitivity

NOTE: The use of the Trim buttons are accompanied with a Beep tone. A single long Beep indicates the product is center trimmed. No beeps after press indicates the product is trimmed to the maximum on a particular side.

AUTOMATICALLY TAKE OFF / LAND

Make sure you have properly synced The X04 .
• simply press the "start/land" button on the center of controller, your X04 will automatically take off.
• To stop or land the X04 just press the "START/LAND" button again and the X04 will descend and land automatically.
Tips: You also can move the two control sticks simultaneously down to the inside or outside corners, hold them till the blades start spinning. Release the control sticks and push the throttle stick slowly to take off manually.

UNDERSTANDING THE ALTITUDE LOCK SENSOR

The X04 has a unique Altitude Lock function, air pressure sensor that allows for easier flight control and stability. It allows the user to ease into piloting the drone. The sensor locks in the altitude of the drone while allowing the user to adjust the directional controls without having to hold the throttle.

After starting the drone, fly it upwards to a safe height. Once at a safe height, release the throttle to the neutral position. Now your X04 should be locked in the altitude and you can focus on getting used to the directional controls of the X04. The drone always will tends to self correct and go back to the last locked height after moved up or down by outside forces.

Note: The altitude sensor does have some tolerance based on atmospheric conditions and could have a slight variation in altitude.

SPEED SETTING BUTTON

The X04 has 4 speed settings; **T(Training),1(SLOW),2(MEDIUM)** and **3(HIGH)**. The Default setting when you first turn on your X04 is **1(SLOW)**. To change speed, just press and release the speed setting button(see remote diagram on page 3). Speed level is indicated by number of beeping sounds, one beeping sound for slow speed, two for medium speed and three for high speed.

T (Training)MODE

Simply press and hold the Speed Setting Button; till you heared a long beep, now you are in T Mode. T mode allows you to learn how to operate your X04 at a very slow speed. Also in T mode a minumum and maximum height limit are set to help avoid crashing into the ground or ceiling while learning. To exit T mode just short press the speed setting button again.

3/4 CHANNEL SELECT

X04 allows you to control your Quadrocopter in 3 channel mode (beginner) or 4 channel mode (advanced flying). The X04 default setting is 4 channel mode.
To change to 3 channel mode:
PRESS the Throttle Control stick vertically down then release, you will hear 3 short beeps indicating the X04 now is set to 3CH mode.
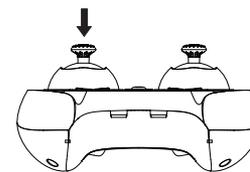
To change back to 4 Channel mode:
PRESS the Throttle Control stick vertically down then release again, you will hear 4 short beeps indicating the X04 is now set to 4CH mode.

4 CHANNEL FLIGHT CONTROL
Below is a list of basic flight functions for your long-range remote control X04. While learning to fly your X04 it is best to start with a large space until you get used to the basic controls. As you master flying your X04 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 left Throttle stick up to increase the speed and the X04 will accelerate and ascend.
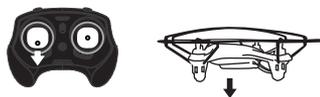
Move the left Throttle stick down to decrease the speed and the X04 will decelerate and descend.

Move the left Throttle stick left and the X04 will turn/spin left.

Move the left Throttle stick right and the X04 will turn/spin right.

Move the right Direction Stick up and the X04 will move forward.

Move the right Direction Control down and the X04 will move backward.

Move the right Direction Control left and the X04 will bank to the left.

Move the right Direction Control right and the X04 will bank to the right.
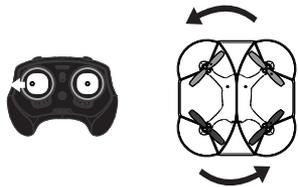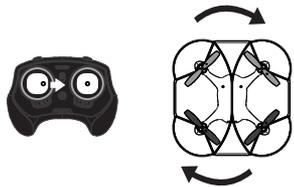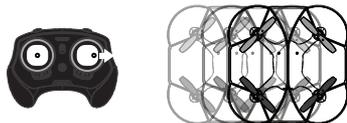
3 CHANNEL FLIGHT CONTROL
Below is a list of basic flight functions for your long-range remote control X04. While learning to fly your X04 it is best to start with a large space until you get used to the basic controls. As you master flying your X04 you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

Move the Left Throttle Stick up to increase the speed and the X04 will accelerate.

Move the Left Throttle Stick down to decrease the speed and the X04 will descend.
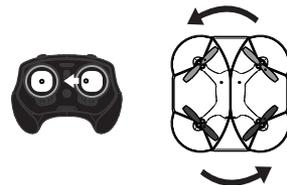
Move the Right Directional Stick LEFT to spin/turn left

Move the right directional stick RIGHT to spin/turn Right

Move the Right Direction Stick forwards and the X04 will move forward.

Move the Right Direction Stick backwards down and the X04 will move backwards.

CALIBRATING THE X04

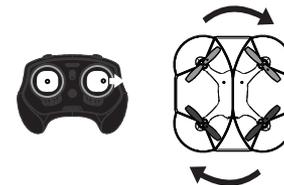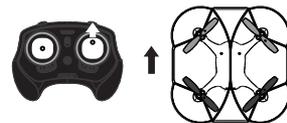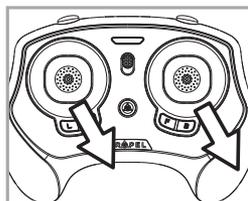If the X04 becomes unstable during the course of flying, you may need to calibrate the internal gyros. To do this place the X04 on a flat level surface. The LEDs on the X04 will flash quickly and then remain solid, this indicates your drone has been recalibrated (see diagram E).

E

HOW TO DO 360º STUNT ROLLS

1. In order to make your X04 do 360º rolls you must fully charge your battery.

Note: The X04 will not do 360º stunt rolls in T-Mode, Mode 1 or the drone battery is running low(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 beeping sounds. This means you are now in "STUNT MODE."

3. Now quickly move your right control stick in any of 4 directions; up, down, left or right. Your X04 drone will instantly roll in the associated direction. See diagram below.

Note: After performed the stunt roll, the beeping sounds will stop. Repeat step 2 to 3 if you wish do it again.

360˚Stunt-Roll
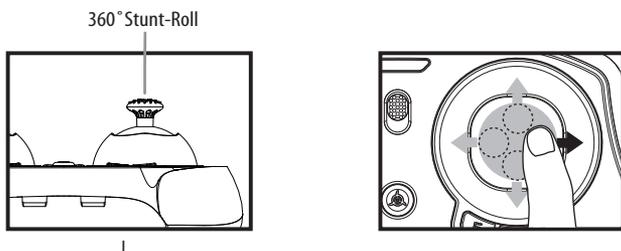
J

USING YOUR ON BOARD CAMERA AND VIDEO RECORDER

Your X04 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 microSDHC card (not included)
2. One microSDHC 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 microSDHC CARD

Before you can begin to take videos or digital photographs you must first format your microSDHC card. To format your microSDHC card simply place the microSDHC card into the included USB card reader and plug it into your computers 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 microSDHC card.

INSTALLING THE microSDHC CARD IN YOUR X04 QUADROCOPTER

• Do not install the battery or take it out first.
• Place the formatted microSDHC card into the back of the quadrocopter's digital camera port. (see diagram 3 below) Push gently and consistently until you hear and feel the microSDHC card "click" into the digital camera slot.
• Reconnect the quadrocopter battery and make sure that it is both fully charged and properly synced to the Controller (see HOW TO SYNC YOUR DRONE on page 4).
• When you have successfully installed your microSDHC card and your quadrocopter is powered up, you will see solid red LED lights on the quadrocopter belly.
  NOTE: If you see the red LED lights keep flashing ,it means you have not installed your microSDHC 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.

TAKING DIGITAL PHOTOS

To take photographs simply press and release the CAMERA/VIDEO button on the top of the controller (refer to CONTROLLER DIAGRAM on pg. 3), when you push the button you will here a "beep" and the red LED tail lights will flash one time indicating that a picture has been taken. When the camera ready light becomes solid and hold 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 microSDHC card in the quadrocopters camera port. Begin recording a video by pressing the CAMERA/VIDEO button for a few seconds (see CONTROLLER DIAGRAM on page 3). The red LED lights on the X04 will flash constantly to indicate that you are in video mode and the camera is recording. To stop the video recording, press the button again. The red LED lights on the belly of the camera will change to solid indicating that video recording has stopped and the Camera is in ready mode again.

IMPORTANT NOTICE : You can not take photos and videos at the same time. When you are in video mode. If you want to take photos you must first exit video mode,You can't take still photos.
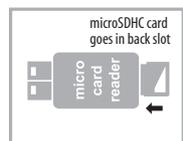
microSDHC card goes in back slot

micro card reader

USB

microSDHC card facing up

Red LED Light

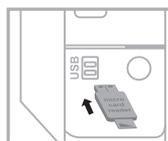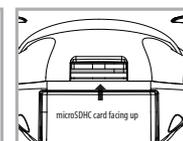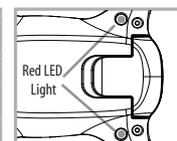Diagram 1   Diagram 2   Diagram 3   Diagram 4

REMOVING YOUR microSDHC CARD

To remove your microSDHC card, push in gently on the back of the card until you hear and feel a "clicking ". The microSDHC 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 microSDHC card in a clean, safe and cool environment.

DOWNLOADING AND CLEARING SPACE ON YOUR microSDHC CARD

Plug your microSDHC card into microSDHC 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 microSDHC card. After downloading your photos and videos , follow your computers instructions to "delete" files on your microSDHC card.

IMPORTANT NOTICE: When your microSDHC card is full the indicator light on the bottom of your quadrocopter will not flashing when you press the photographs or video record button. This indicates that its time to put a new SD card in your quadrocopter or download files and clear space for new photos and videos.

REPLACING THE PROPELLER BLADE

Your X04 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 X04 propellers.

1. The X04 has four blades, two gray color ones on front, and two black color ones on back (see the diagram L).
2. When replacing the propeller blades, make sure to match both the color and indication letter on the blades with the ones shown in Diagram L.
3. To replace the blade, gently pull off the broken blade and push the new correct blade down in place.

FRONT

Gray Blade Front Left = A
Gray Blade Front Right = B

Black Blade Back Left = B
Black Blade Back Right = A

A   B

B   A

REAR   L
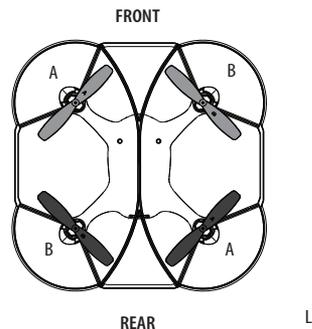
X04 WARNING:

The X04 is designed for INDOOR or OUTDOOR. The X04 blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the X04 to reduce the risk of getting into the flight path. Warn spectators that you will be flying your X04 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 X04.
WARNING!
• Choking/Cutting Hazard. Small Parts/Sharp Rotor Blades.
• Keep hands, hair and loose clothing away from the propeller when the battery is plugged into the drone.
• Turn off the transmitter and unplug X04 battery when not in use.
• The included charger is built specifically for the X04 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 X04.

BATTERY WARNINGS
RECHARGEABLE BATTERY:
This X04 uses a Li-Poly rechargeable battery. If battery can no longer be charged, dispose of battery properly according to local disposal requirements.
CONTROLLER BATTERIES:
Remote control requires 2 "AAA" batteries (not included). Please read the important battery safety warning below.
• Do not mix alkaline, standard (carbon-zinc) and rechargeable batteries (Nickel Metal Hydride).
• 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 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 X04 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.

Limited 90-Day Warranty

ROOFTOP BRANDS™ warrants to the original consumer that this product is free from any electrical or mechanical defects for a period of 90 DAYS from the date of purchase. If any such defect is discovered within the warranty period, ROOFTOP BRANDS™ will repair or replace the unit free of charge upon receipt of the unit, shipped postage prepaid and insured to our warranty center. The warranty covers normal consumer use and does not cover damage that occurs in shipment or failure that results from alterations, accident, misuse, abuse, neglect, wear and tear, inadequate maintenance, commercial use or unreasonable use of the unit. Removal of any parts/components voids all warranties. This warranty does not cover cost of repairs made or attempted outside by third-party individuals or companies. Any applicable implied warranties, including warranties of merchantability and fitness, are hereby limited to 90 DAYS from the date of purchase. Consequential or incidental damages resulting from a breach of any applicable express or implied warranties are hereby excluded. Some states do not allow limitations on the duration of implied warranties and do not allow exclusion of incidental or consequential damages, so the above limitations and exclusions in these instances may not apply.

REPAIR/REPLACE PRODUCT

If your product begins to malfunction or stop working, immediately call or email our warranty center at the phone/email listed below. If it is determined that a return is necessary, our warranty department will issue you an RMA number/form and an address to the nearest return center for shipping the product to. IMPORTANT NOTICE: We will reject all returns that are not accompanied by an issued RMA form and number so make sure to contact our warranty center before attempting to return your product!

PREPARATION FOR SHIPPING YOUR PRODUCT

Please repack your product in a durable box, preferably in the original carton, and send it prepaid, and adequately insured. Include the RMA form that was issued by our warranty department along with your daytime telephone number and email address (if available) inside the shipping carton. If your warranty has expired, contact our warranty center for charged service. For further information please send all inquiries to customerservice@rooftopbrands.com

IMPORTANT NOTICE!

DO NOT ATTEMPT TO SHIP YOUR PRODUCT BACK WITHOUT FIRST CONTACTING OUR WARRANTY DEPARTMENT AT:

ROOFTOP BRANDS™
WARRANTY REPLACEMENT DEPARTMENT
customerservice@rooftopbrands.com