

Trim size 4.5 x 6.875 in.
Spread size 9 x 6.875 in.

PROPEL

PROPEL

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.



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 ASTM, CPSIA and FCC.

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Tel: + (1) 949-566-9573 • www.propelrc.com

Made in China

V 1.0

ATOM™ X MICRO DRONE

Indoor / Outdoor Wireless Quadcopter



INSTRUCTION BOOKLET

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

PACKAGE CONTAINS:



ATOM X™



2.4G Wireless Controller



Spare Parts



USB charging cord



Instruction Manual

Colors and styles may vary slightly.



ARTWORK NO.	DESCRIPTION	MDSER	DESIGNER	DATE
C07-TRU ATOM X Manuals	114.3x174.6mm	Amanda	Cocoa	2017/6/12

PROPEL

备注：旧机身，带低清摄像头，带气压定高，入PDQ，无video

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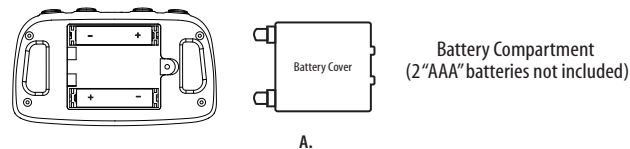
Thank you for purchasing the ATOM™ X 2.4 Ghz Micro Quadcopter. Please read this instruction booklet as it contains valuable information on how to properly fly and care for your ATOM™ X Drone.

PRODUCT FEATURES

- On Board Camera Records Video and Captures Still Pictures.
- Streams Video to Your Mobile Device.
- 6 Axis Gyro Keeps the ATOM™ X stable in all condition.
- Air pressure sensor locks flight altitude.
- Push button 360° aerial stunts.
- Automatically starts and lands with push of a button.
- 3 different speed settings for beginner to more advanced quadcopter pilots.

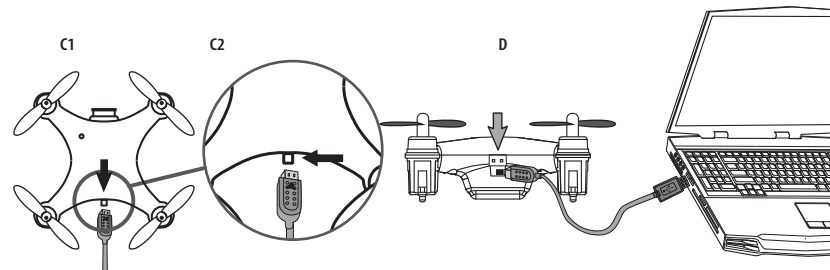
REMOTE CONTROL BATTERY INSTALLATION

1. Unscrew and slide off 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 turn the on/off switch to the on position. If the indicator light turns on you have installed your batteries properly.



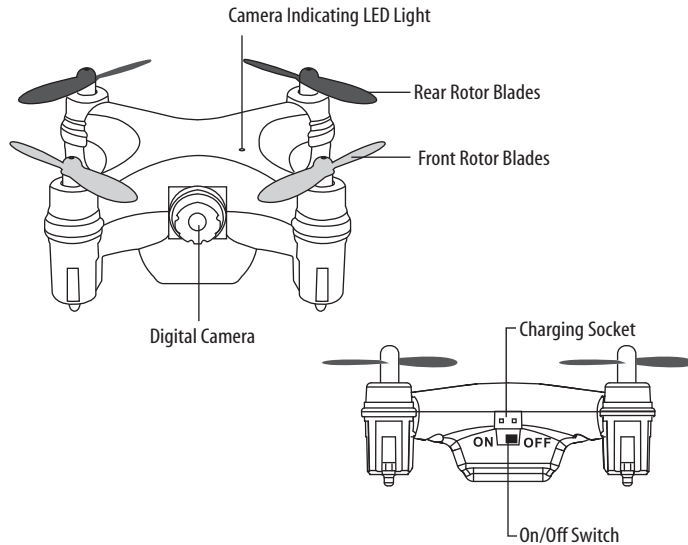
CHARGING YOUR ATOM™ X

1. Switch the quadcopter Off. Connect the power cable to the unit making sure the arrow side of the connector is on top side facing the top of the ATOM™ X (see diagrams C1 and C2). The red light on the USB cord will light UP.
CAUTION: The USB plug fits the charging socket only in one way. Do not force it. Improper connection will damage the ATOM™ X.
2. Connect the USB end of the cable to your computer's USB port (see diagram D). The red light on the USB cord will turn Off.
3. The red LED on the USB plug lights up again when charging is complete. Average charging time is about 20 minutes.
Note: If the red LED lights up, either the charging is complete or the USB plug is not properly connected.
A full charge will allow for about 5 minutes of flight time depending on environment and user input.

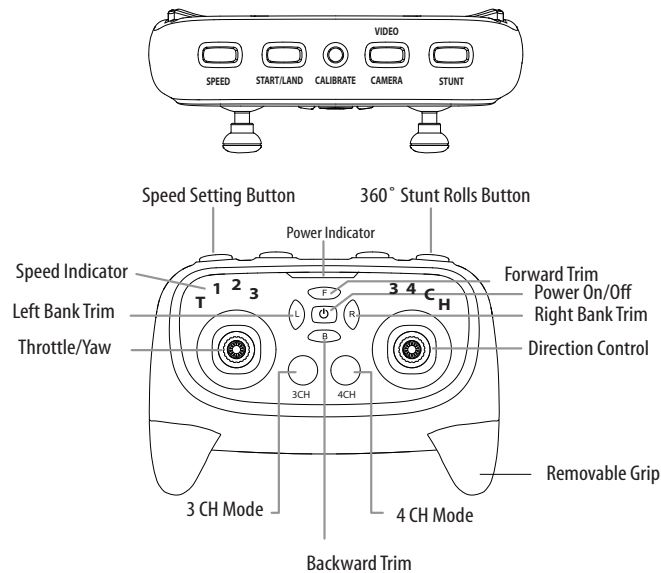


IMPORTANT: ALWAYS REMEMBER TO UNPLUG YOUR CHARGING CORD WHEN NOT IN USE!

ATOM™ X DIAGRAM



REMOTE CONTROL DIAGRAM



WARNING

DO NOT FLY YOUR ATOM™ X IN FOUL WEATHER!



SYNCING YOUR ATOM™ X

Important! When syncing your ATOM™ X quadcopter with the controller always make sure that the quadcopter 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 ATOM™ X 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 the power on both your controller and ATOM™ X are in the OFF position. Make sure that there are no other 2.4G devices in the area as well.
2. Turn ON the ATOM™ X and set it down on a flat level surface. The LED indicator lights of the ATOM™ X should begin to flash rapidly.
3. Turn ON the remote, you will hear two beeps. Push the throttle all the way forward (1 beep) and then pull the throttle all the way back. A 2nd beep will sound and the lights should turn to solid. This indicates your controller and the quadcopter are successfully synced. If not, repeat above steps.

For Multi Person Play:

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

PREPARING FOR FLIGHT

- Verify that there are 2 "AAA" batteries inside the remote control unit and the ATOM™ X has been fully charged.
- Make sure your ATOM™ X and controller are both turned 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 water close by. Set your ATOM™ X on a clean flat level surface before take-off.

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

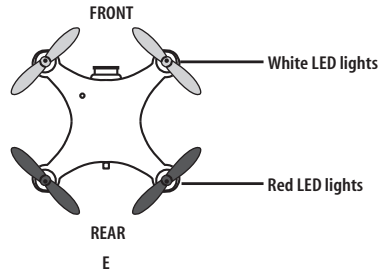
FLYING TIPS

- It is recommended that you operate the ATOM™ X in a wide open 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 ATOM™ X with others, make sure all spectators are behind you.
- For best performance, it is recommended that you operate the ATOM™ X in zero wind conditions, as wind can greatly affect the performance of the aircraft.

RECOGNIZING THE FRONT AND REAR OF THE ATOM™ X

Even though the ATOM™ X has four rotors, there is still a "front" or forward facing direction and "rear" or backwards facing direction. The front or forward facing direction of the ATOM™ X is the side with two gray propellers (see diagram E). The rear or backwards facing of the Quadcopter is the side with two red propellers (see diagram E).

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



AUTOMATICALLY TAKE OFF / LAND

Make sure you have properly synced The ATOM™ X.

- Simply press the "start/land" button on the top of controller, your ATOM™ X will automatically take off.
- To stop or land the ATOM™ X just press the "START/LAND" button again and the ATOM™ X will descend and land automatically.

Tips: You also can move the two control sticks simultaneously down to the inside corners, hold them until you hear a "beep" and the blades start spinning. Release the control sticks and push up the throttle stick slowly to take off 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 ATOM™ X has 3 speed settings: **1 (SLOW)**, **2 (MEDIUM)** and **3 (HIGH)**. The Default setting when you first turn on your ATOM™ X is **mode 1 (SLOW)**. To increase the speed simply press the speed setting button (see remote diagram on page 3), you will hear beeping sound and the speed indicator will display the current speed setting with letter and Numbers. Number 1 indicates slow speed, 2 indicates medium speed and 3 indicate high speed.

3/4 CHANNEL SELECT

ATOM™ X allows you to control your Quadcopter in 3 channel mode (beginner) or 4 channel mode (advanced flying). The ATOM™ X 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 CH" will light up on the controller indicating the ATOM™ X now is 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 CH" will light up on the controller indicating the ATOM™ X is now set to 4CH mode.

UNDERSTANDING THE ALTITUDE LOCK SENSOR

The ATOM™ X has a unique Altitude Lock, air pressure sensor that allows for easier flight control and stability. A beginners friend, it allows the user to ease into piloting the copter. The sensor locks in the altitude of the copter while allowing the user to adjust the directional controls without having to hold the throttle.

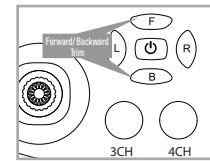
After starting the copter, fly upwards to a safe height using the left joystick. Once at a safe height, letting go of the left joystick should lock in the altitude and allow the user to focus on getting used to the directional controls of the ATOM™ X. If when flying, the copter does drift downward or upward, it will automatically self correct and go back to the last locked height.

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

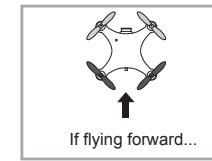
UNDERSTANDING TRIM ADJUSTMENTS

Forward/Backward Trim

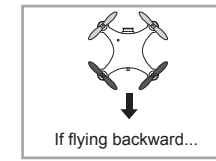
- If your ATOM™ X is moving forwards or backwards automatically, you may need to adjust the FORWARD/BACKWARD TRIM buttons.
- If your ATOM™ X flies forward, push and release the B TRIM button repeatedly until the moving stops and proper flight is maintained.
- If your ATOM™ X flies backwards, push and 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 ATOM™ X will hover in mid-air and respond accurately to your commands.



Forward/Backward Trim Controls



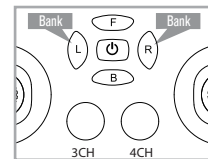
B Push backward trim button



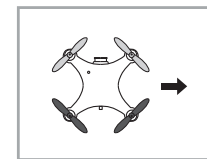
F Push forward trim button

Banking Left/Right Trim

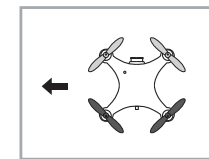
- If your ATOM™ X is not steadily hovering and is banking to the left or right automatically, you may need to adjust the BANKING TRIM buttons.
- If your ATOM™ X banks to the left, push and release the R TRIM button repeatedly until the banking stops and proper flight is maintained.
- If your ATOM™ X 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 need to adjust the BANKING TRIM to ensure the ATOM™ X will steadily hover in mid-air and respond accurately to your commands.



4 CH Left/Right Banking Controls



L Push the "L" trim button to increase left banking sensitivity

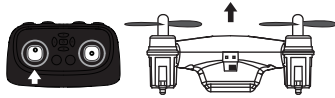


R Push "R" trim button to increase right banking sensitivity

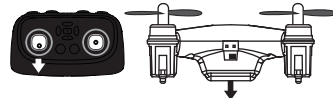
NOTE: The use of the Trim buttons are accompanied with a Beep sound. A single long Beep indicates the product is center trimmed. If there is no beep sound after press the trim button, it indicates the maximum rang of the trim on a particular side.

4 CHANNEL FLIGHT CONTROL

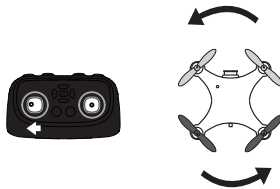
Below is a list of basic flight functions for your long-range remote control ATOM™ X. While learning to fly your ATOM™ X it is best to start with a large space until you get used to the basic controls. As you master flying your ATOM™ X you can move to more advanced maneuvering techniques. Practice makes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



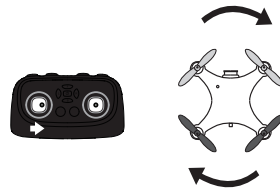
Move the Throttle up to increase the speed of the motors and the ATOM™ X will rise up.



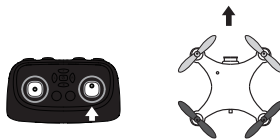
Move the Throttle down to decrease the speed of the motors and the ATOM™ X will descend.



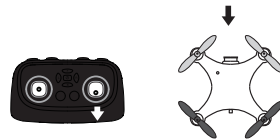
Move the Throttle stick left and the ATOM™ X will rotate left.



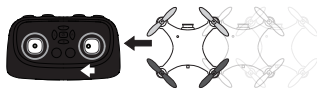
Move the Throttle stick right and the ATOM™ X will rotate right.



Move the Direction Control up and the ATOM™ X will move forward.



Move the Direction Control down and the ATOM™ X will move backward.



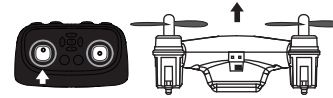
Move the Direction Control left and the ATOM™ X will bank to the left.



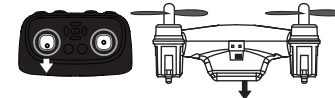
Move the Direction Control right and the ATOM™ X will bank to the right.

3 CHANNEL FLIGHT CONTROL

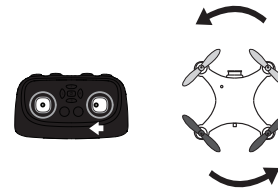
Below is a list of basic flight functions for your long-range remote control ATOM™ X. While learning to fly your ATOM™ X it is best to start with a large space until you get used to the basic controls. As you master flying your ATOM™ X you can move to more advanced maneuvering techniques. Practice makes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



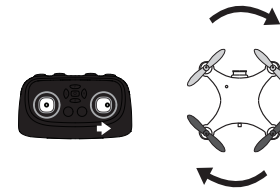
Move the Throttle up to increase the speed of the motors and the ATOM™ X will rise up.



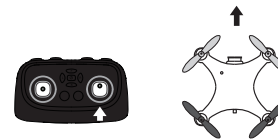
Move the Throttle down to decrease the speed of the motors and the ATOM™ X will descend.



Move the Throttle stick left and the ATOM™ X will rotate left.



Move the Throttle stick right and the ATOM™ X will rotate right.



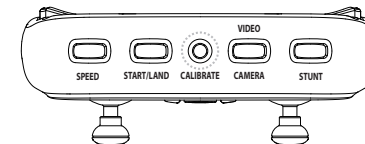
Move the Direction Control up and the ATOM™ X will move forward.



Move the Direction Control down and the ATOM™ X will move backward.

CALIBRATING THE ATOM™ X

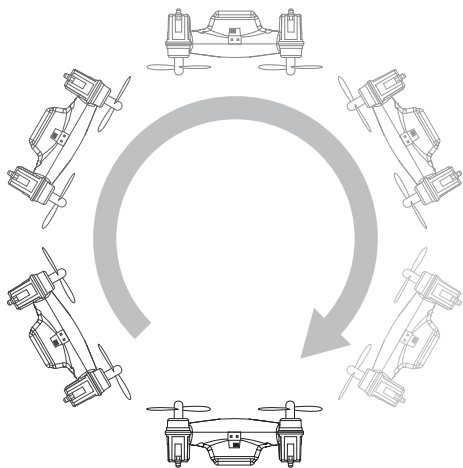
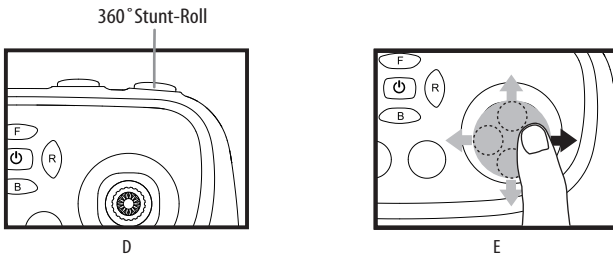
If the ATOM™ X becomes unstable during the course of flying, you may need to calibrate the internal gyros. To do this place the ATOM™ X on a flat level surface, long press the CALIBRATE button on the top of remote controller. The LEDs on the ATOM™ X will flash quickly and then remain solid, this indicates your drone has been recalibrated (see diagram C).



C

HOW TO DO 360° STUNT ROLLS

1. In order to make your ATOM™ X do 360° rolls you must fully charge your battery.
Note: The ATOM™ X will not do 360° stunt rolls in Mode 1 and when the drone is running low battery (The LED lights on the drone start flashing).
2. Once you are ready to attempt a 360° roll, short press the "STUNT" button on the top right hand side of your controller (see Remote Diagram D), you will hear continuous 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 and your ATOM™ X copter will instantly roll in the associated direction (See Diagram E). After stunt roll the beeping sounds will stop.



USING YOUR ON BOARD CAMERA AND VIDEO RECORDER

Your ATOM™ X 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 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 microSDHC card.

INSTALLING THE microSDHC CARD IN YOUR NEUTRON™ QUADROPTER

- Keep ATOM™ X power turned off.
- Place the formatted microSDHC card into the back of the quadcopter'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.
- Turn on your ATOM™ X power and properly sync it to the Controller (see HOW TO SYNC YOUR DRONE on page 4).
- When you have successfully installed your microSDHC card and your quadcopter is powered up, you will see solid green LED lights on the top of your ATOM™ X.

NOTE: If you see the green 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. If you continue to encounter problems call our customer service line at 949.566.9573 Ext 1 for assistance.

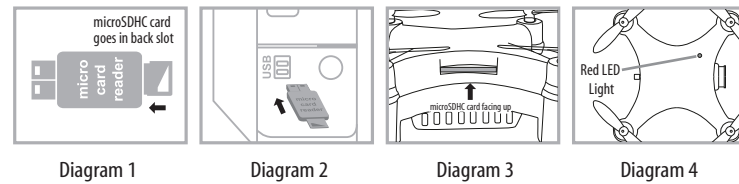
TAKING DIGITAL PHOTOS

To take photographs simply short press the CAMERA/VIDEO button on the top of the controller (refer to CONTROLLER DIAGRAM on pg. 3), when you push the button you will hear a "beep" and the green indicating LED light will flash one time indicating that a picture has been taken.

RECORDING VIDEOS

To record a video first make sure that your quadcopter is fully charged and that you have correctly installed the microSDHC card in the quadcopter's camera port. Begin recording a video by pressing the CAMERA/VIDEO button for a few seconds (see CONTROLLER DIAGRAM on page 3). The green LED lights on the top ATOM™ X 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 green LED lights on the top 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.



REMOVING YOUR microSDHC CARD

To remove your microSDHC card, push 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 quadcopter 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 onto 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 quadcopter 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 quadcopter or download files and clear space for new photos and videos.

TROUBLESHOOTING YOUR ATOM™ X

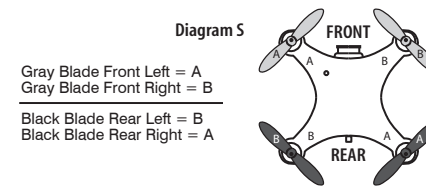
PROBLEM	POSSIBLE REASON	SOLUTION
NO POWER	1. Power switched off 2. Polarity is reversed 3. Batteries may be dead	1. Switch the ON/OFF switch to ON 2. Make sure all batteries are installed correctly (see diagram B) 3. Replace batteries
Remote Not Responding	1. Remote is switched off 2. ATOM™ X is switched off 3. Too windy 4. The Remote light is flashing	1. Switch the ON/OFF switch to ON 2. Switch the ON/OFF switch to ON 3. Windy condition severely affects the operation of the ATOM™ X 4. Replace batteries
Drone Won't lift off	1. Rotor speed too slow 2. Drone not fully charged	1. Push throttle lever forward more 2. Recharge your ATOM™ X
Drone Descends Too Fast	1. Moving the throttle too quickly	1. Control the throttle slower and smoother
Drone Not Responding	1. Gyroscopes not functioning	1. Turn on the ATOM™ X and Reset the Gyros (see diagram C)
Loss of ATOM™ X Control	1. Drone is out of range of remote	1. Keep the drone within a 20 meter radius of the remote

REPLACING THE PROPELLER BLADES

Your ATOM™ X 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 ATOM™ X's propellers.

1. ATOM™ X have four blades, two gray propellers on the front, and two black propellers on the back. Please note that the blades and the ATOM™ X are labeled with an embossed A or B (see the diagram S).
2. When replacing the propeller blades, gently remove the blade from the rotor shaft. Make sure to match both the color of the blade and the indication letter on the blade with the letter on the aircraft.
3. Replace the damaged blade with the new correct blade.

Diagram S



Note: The “A” and “B” marks are embossed under the propellers.

ATOM™ X WARNING:

The ATOM™ X is designed for INDOOR or OUTDOOR flight. ATOM™ X's blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the ATOM™ X to reduce the risk of getting into the flight path. Warn spectators that you will be flying your ATOM™ X 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 ATOM™ X.

WARNING!

- Choking/Cutting 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 ATOM™ X power switches when not in use.
- The included charger is built specifically for the ATOM™ X 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 ATOM™ X

BATTERY WARNINGS

RECHARGEABLE BATTERY:

This ATOM™ X 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 2.4G remote control when it is not being used for an extended period of time.
- To clean, gently wipe the remote control and ATOM™ X 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.