

BATTERY WARNINGS

RECHARGEARI E RATTERY:

This helicopter uses an internal Li-Poly rechargeable battery and is not replaceable. If battery no longer stays charged, dispose of battery properly according to local disposal requirements.

CONTROLLER BATTERIES:

Remote control requires 6 "AA" 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 hatteries
- 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 neriod of time
- To clean, gently wipe the remote control and helicopter 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.

FCC Part 15 B 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.

Conforms to safety requirements of ASTM, CPSIA and FCC.

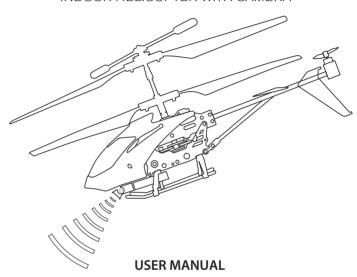
PROPEL RC™ and AIR RECON™ are trademarks of Rooftop Brands. ©2012 Rooftop BrandsTM All rights reserved Tel: + (1) 949-566-9573 • www.rooftopbrands.com

Made in China

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



INDOOR HELICOPTER WITH CAMERA



WARNING: AIR RECON™ is an indoor infrared helicopter. Infrared signals cannot function in daylight due to interference from the sun. In addition, your AIR RECON™ helicopter is not suited to handle wind or other outdoor environmental conditions. Attempting to fly this helicopter outdoors may lead to severe damage.

THIS PACKAGE CONTAINS:















Spare parts

Colors and styles may slightly vary.

TABLE OF CONTENTS

Features	1
Remote Battery Installation	2
Charging the Helicopter	2
Helicopter diagram, Remote Control diagram	3
Preparing for Flight	4
How to Sync your Helicopter	4
Demonstration Mode	4
Flying Tips	4
Understanding Helicopter Trim Adjustments	5
Basic Flight Controls	5
Turbo And Light Buttons	5
Advanced Flight Controls	6
Using Your on Board Camera and Video Recorder	7
Helicopter Warning And Safety Precautions	8
Part Replacement Instructions.	9
Contents.	9
Air recon Propeller System	9
Replacing the Upper Propeller Blade	. 10
Replacing the Bottom Propeller Blade	10
Battery Warnings	11
Care and Maintenance	11
FCC Information	. 11

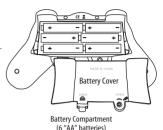
Thank you for purchasing the AIR RECON™ 3 Channel IR Gyro Helicopter. Please read this instruction booklet carefully as it contains valuable information on how to properly fly and care for your helicopter.

FEATURES

- Built-in gyroscopic chip for extreme stability and control.
- Turns like a real helicopter-even hovers in mid-air.
- 3 Channel: fly up, down, left, right, forward, backward.
- · Full-function infrared remote also charges helicopter.
- · Multicolored blinking LEDs can be turned on/off remotely.
- Two speeds beginner and Turbo for accelerated fun.
- · Records video footage on Micro SD cards
- · Takes still Photo shots
- Included demonstration mode shows the flight function of the helicopter

REMOTE CONTROL BATTERY INSTALLATION

- 1. Pull the battery cover off of the remote control.
- 2. Install 6 "AA" alkaline batteries as shown in the diagram.
- 3. Replace the battery cover.



CHARGING THE HELICOPTER

A: FROM THE CONTROLLER:

- 1. Open up the charger cover to the open position on the right side of remote control (see diagram B).
- 2. Make sure the helicopter power switch is set to the OFF position (see diagram A&C). All lights and propellers should be off.
- 3. Connect the charging plug on the remote control to the charging socket on the side of the helicopter (see diagram A&D).
- 4. Turn the controller power switch to the ON position (see diagram E). The green charging indicator light on upper right side of the controller will illuminate to indicate charging is in progress.
- 5. The green charging indicator light will shut-off when the helicopter is fully charged
- 6. Length of charging time will vary depending on percentage of helicopter battery already charged and the condition of the batteries in the controller. Average charging time is 25-30 minutes with new batteries. The helicopter operates for approximately 6-8 minutes per charge.

B: FROM THE USB CABLE:

- 1. Plug the included USB charging cable into a USB port on your computer. Please make sure that your computer is turned on.
- 2. Make sure the helicopter Power Switch is in the "OFF" position (see diagram A&D).
- 3. When the helicopter is charging there will be no light on top of the USB body that connects to your computer. When charging is complete a red LED light will appear on top of the USB body that connects to your computer (see diagram F). USB charging time may vary depending on the amount of charge needed to fill the helicopter battery. The average USB charging time is 25-30 minutes.





A.

IMPORTANT: ALWAYS DISCONNECT CHARGER CORD AFTER CHARGING, NEVER LEAVE CHARGER CONNECTED TO HELICOPTER OVERNIGHT OR FOR EXTENDED PERIODS OF TIME









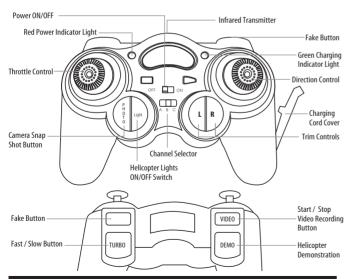
NOTE: Charging socket is located on the backside of the helicopter. Charging cord connects as indicated. Indicator light on charger stays on until charging is completed.

HELICOPTER DIAGRAM



REMOTE CONTROL DIAGRAM

Below is a basic list of features on the infrared wireless remote control.



NOTE: When flying your Air Recon™ with other infrared helicopters, make sure that each helicopter is set to operate on a different infrared channel to avoid interference when flying. See back panel for additional precautions.

PREPARING FOR FLIGHT

- Verify that there are 6 "AA" batteries inside the infrared remote control unit and the helicopter has been fully charged.
- Make sure your helicopter is turned on and properly synced to your controller. (See "SYNC YOUR HELICOPTER" below)
- Make sure to be in a large room with an open radius of at least 25 feet. Close all windows and doors, turn off fans and close air ducts or any other openings that may cause drafts in the room.
- Make sure the room has no obstacles and the highest ceiling possible. DO NOT ATTEMPT TO FLY YOUR HELICOPTER OUTDOORS. Set your helicopter on a clean flat surface before take-off.

HOW TO SYNC YOUR HELICOPTER

Your AIR RECONTM utilizes an automatic multi-channel selection system that allows up to 3 people to fly side by side in the same wireless range.

FOR ONE PERSON PLAY:

- 1. Before starting, make sure that both your controller and helicopter are in the power "OFF" position.
- Select the desired flight channel (a, b or c) from the controller and turn the controller on (see diagram E on page 2). Make sure your throttle stick is all the way down and in the off position.
- Next, turn on the helicopter and set it on a table or hold it in your hand from underneath. Make sure your hands and body are away from the helicopter blades.
- There will be slight delay and then the helicopter multi-colored "side body lights" will begin to flash. When the side body lights begin to flash your helicopter is synced and you are ready to fly.
- 6. Note: if you turn your helicopter off or the battery runs out, you will need to re-sync the helicopter and controller.

FOR MULTI PERSON PLAY:

- 7. Before starting, make sure that ALL the helicopters and controllers are in the power "OFF" position.
- 8. Each individual player must select a different flight channel (a, b or c) on his/her own controller. If more than one person is on the same flight channel, there will be interference.
- 9. Only one person at a time should sync their helicopter by following steps 3 thru 5 above. Remember to make sure that each player chose a different channel before anyone begins to sync their helicopters. If a mistake is made when "pairing" helicopters simply turn off all the helicopters, make sure all players are set to different channels and start again, one by one.
- 10. When a player's helicopter is synced and working it should be left on while the next player's sync their helicopters.

 11. Note if you turn your helicopter off or the battery runs out, you will need to re-sync the helicopter and controller.

DEMONSTRATION MODE

Your AIR RECON™ wireless infrared remote control helicopter has a unique demonstration mode that shows you some of the basic maneuvers and flight functions that your helicopter is capable of. To activate the demonstration simply hover your AIR RECON™ helicopter slightly above eye-level in the centre of clear open room with no obstacles and press the "DEMO" button on the front of your controller (See "CONTROLLER DIAGRAM" on page 3). NOTE: once the demo button is depressed do not move / touch the Throttle or Direction Control sticks.

To exit demonstration mode simply move the Throttle stick or Direction Control stick.

FLYING TIPS

- It is recommended that you operate the helicopter in a wide indoor space. You should allow at least a 25-foot radius range. The helicopter is designed for INDOOR USE ONLY.
- · Parental guidance or adult supervision is suggested at all times.
- If you are flying the helicopter with others, make sure all spectators are behind you.
- For best performance, it is recommended that you operate the helicopter in zero wind conditions. Close all open doors or windows, and turn off any nearby fans. Wind can greatly affect the performance of the helicopter.

NOTE: Before activating demonstration mode you should make sure that your helicopter is fully charged and that you have a clear 25 foot radius with no obstacles.

UNDERSTANDING HELICOPTER TRIM ADJUSTMENTS

If your helicopter nose rotates to the left or right uncontrollably, you may need to utilize the TRIM buttons. If your helicopter over rotates CLOCKWISE (to the right), push and release the LEFT side of Trim button repeatedly until the turning stops and proper flight is maintained. If your helicopter over rotates COUNTER-CLOCKWISE (to the left), push and release the RIGHT side of Trim button in the same manner until the problem is resolved. From time to time you may have to adjust the left and right trim to ensure the helicopter will fly straight and respond accurately to control commands.







Trim Controls

(L R) Push left trim.

Push right trim

BASIC FLIGHT CONTROLS

Below is a list of basic flight functions for your Air ReconTM wireless infrared remote control helicopter. While learning to fly your helicopter it is best to start with a large room until you get used to the basic controls. As you master flying your helicopter you can move to more advanced maneuvering techniques.





Move the Throttle froward to increase the speed

of the main rotor and the helicopter will rise up.



Move the Throttle backwards to decrease the speed of the main rotor and the helicopter will descend.



Move the Direction Control left and the helicopter will turn left.



Move the Direction Control right and the helicopter will turn right



Move the Direction Control forward and the helicopter will move forward.

Move the Direction Control backwards and the helicopter will move backward.

TURBO AND LIGHT BUTTONS

Press the TURBO button on the front of the controller (see CONTROLLER DIAGRAM pg 3) and your AIR RECON™ helicopter will change into high-speed mode. Press the TURBO button a second time to go back to the original speed. Press the LIGHT button on the face of the controller (see CONTROLER DIAGRAM pg 3) to remotely switch helicopter lights off and on.

ADVANCED FLIGHT CONTROLS

Once you have mastered the basic flight controls of your AIR RECON TM Infrared Indoor Helicopter its time to try your hand at some more advanced flying techniques like forward and reverse sweeping turns.

- 1. To make a forward sweeping turns, first push the Direction Control straight stick all-the-way forward until the control stick touches the upper edge of the controller. (see Diagrams A and B, step 1 below). You should be moving straight forward at this point.
- 2. Secondly begin to slowly roll the Directional Control stick along the outer edge towards One O'Clock to sweep right or Counter-Clockwise along the outer edge towards Ten O'Clock to sweep left (see Advance Flight Maneuvers diagrams A and B below steps 1 and 2).
- 3. To do reverse sweeps simply reverse the Control Stick by moving first directly to the lower or backwards edge of the controller, then begin to roll the control stick slowly along the outer edge in the direction that you want the helicopter to sweep in reverse. Remember you must first have reverse momentum before attempting a sweep or you will simply turn in place.
- 4. Once you get familiar with flying your AIR RECON ™ helicopter you can begin to fly higher and faster, making quicker turns and practicing new tricks.

ADVANCED FLIGHT MANEUVERS





right sweep maneuver

NOTE: To make nice sweeping moves you will need to first be moving forward at a decent pace. In order to achieve this you should depress the TURBO button on the front of your controller and make sure you are in "fast Speed" mode before you begin.

5

A

PART REPLACEMENT INSTRUCTIONS

CONTENTS:

(1) 1 upper propeller blade (3) 4 screws x 4 (2) 1 bottom propeller blade (4) 4 connecting rods x 4

AIR RECON PROPELLER SYSTEM

Your AIR RECON 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 AIR RECON propeller or propeller connecting rods.

TROUBLESHOOTING:

If your AIR RECON loses its ability to fly correctly, please inspect the propeller system carefully for the following five

1. Replacing the Connecting Rod: The connecting rod is a small "handcuff" style device that stabilizes the "upper" propellers. There is one connecting rod on the upper propeller. Please see Diagram 1.

If a connecting rod is broken or missing simply replace it by "peeling" off the existing broken unit and replacing it with a new one. You may have to use slight pressure when reattaching both ends of the new connecting rod. Make sure that the new connecting rod is secured and locked in place. See Diagram 2. For changing connecting rod, make sure there is no damage to the actual blade or arm that holds the connecting rod in place. If there is you must replace the entire blade system.

2. Replacing the Upper and Bottom Propeller: The propeller is subject to damage as you learn to properly fly and control your AIR RECON. If after a crash your helicopter has loss of control or flies erratically you should carefully inspect your entire propeller system for any sign of damage. Most common are: cracked or chipped blade, broken "connecting rod", frozen balance bar (this is when the balancing bar and blade are jammed and can not move freely up and down). To replace the propeller blades follow diagrams 3 through 12.

REPLACING CONNECTING ROD

Diagram 1



There are two propeller connecting rods on the upper propeller.





Replacing connecting rod



Broken connecting rod

Broken connecting rod



Proper connection

REPLACING THE UPPER PROPELLER BLADE



Diagram

Using a screwdriver turn counterclockwise to remove the screw.



Diagram

Diagram

Using the screwdriver turn clockwise to tighten the screw.



Diagram

Remove the broken blade and carefully replace with a new one.



Diagram

When you tighten the screw you should test the blade to make sure that it still has free movement. If the blade cannot move freely, slightly loosen the screw.



Please note the design of the upper blade.

REPLACING THE BOTTOM PROPELLER BLADE



Diagram

Using a screwdriver turn counter clockwise to remove the screw.



Diagram 10

Using the screwdriver turn clockwise to tighten the screw.



Remove the broken blade and

carefully replace with a new one.

Diagram 11

Diagram

When you tighten the screw you should test the blade to make sure that it still has free movement. If the blade cannot move freely, slightly loosen the screw.



12

Please note the design of the bottom blade.

USING YOUR ON BOARD CAMERA AND VIDEO RECORDER

Your AIR RECON TM Indoor wireless helicopter 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 (included)
- 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 SD 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 Micro SD card.

INSTALLING THE MICRO SD CARD IN YOUR AIR RECON™ HELICOPTER

- Make sure helicopter is in the power "OFF" position.
- Place the formatted SD card into the back of the helicopters 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.
- Turn the helicopter on and make sure that it is both fully charged and properly synced to the Controller (see HOW TO SYNC YOUR HELICOPTER on page 4).
- When you have successfully installed your micro SD card and your helicopter is in the power "ON" position, you will see a solid green light ton the helicopter cameras belly. This green light is accompanied by a separate flashing red light on its side. This red led light should flash 5 times and then go off. This indicates you are ready to take both photographs and videos. (see camera indicator light diagram 4 below). NOTE: If you see a continuous flashing red light this means you have not installed your Micro SD card correctly or there is a problem with your SD 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 customers service line at 949.566.9573 Ext 1 for assistance.

TAKING DIGITAL PHOTOS

To take photographs simply press the PHOTO button on the face of the controller (refer to CONTROLLER DIAGRAM on pg 3) the red light on the belly of the camera will flash RED 3x. As this red light is flashing it is taking one still photo. When the camera ready light becomes green again you are ready for your next photograph.

RECORDING VIDEOS

To record a video first make sure that your helicopter is fully charged and that you have correctly installed the micro SD card in the Helicopters camera port. Begin recording a video by pressing the VIDEO RECORD button on the front left side of the controller (see CONTROLLER DIAGRAM on page 3). The red indicator light will continuously flash RED indicating that VIDEO recording is in progress. To stop the video recording, press the RECORD button a second time. The red indicator light on the belly of the camera will turn OFF indicating that video recording has stopped and the Camera is in ready mode again.









Diagram 1

Diagram 2

Diagram 3

Diagram 4

REMOVING YOUR MICRO SD CARD

To remove your Micro SD Card push in gently on the back of the SD card with your thumb or forefinger 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 helicopter 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 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 computers 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 helicopter will become solid RED. This indicates that its time put a new SD card in your helicopter or download files and clear space for future photos and videos.

NOTICE: When recording video footage the AIR RECONTM helicopter automatically goes into slow-motion mode this allows steady controlled recording of video footage that would not be possible in faster flying modes.

HELICOPTER WARNING AND SAFETY PRECAUTIONS

The helicopter blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the helicopter to reduce the risk of getting into the flight path. Warn spectators that you will be flying your helicopter 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 helicopter.

WARNINGS

- · 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 helicopter power switches when not in use.
- The remote control charger is built specifically for the helicopters Li-Poly battery. Do not use it to charge any other hattery
- New alkaline batteries are recommended for maximum performance.
- Parental supervision recommended when flying helicopter.

IMPORTANT: ALWAYS DISCONNECT CHARGER CORD AFTER CHARGING. NEVER LEAVE CHARGER CONNECTED TO HELICOPTER OVERNIGHT OR FOR EXTENDED PERIODS OF TIME. INFRARED MULTI CHANNEL CONTROL SYSTEM