

CLOUD QUEST™

2.4 GHz outdoor helicopter



INSTRUCTION BOOKLET

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

PACKAGE CONTAINS:



Outdoor Helicopter



2.4G Wireless Controller



Spare Propellers



Instruction Booklet

Made in China

Colors and styles may slightly vary.

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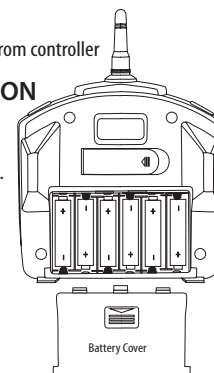
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FEATURES

- 2.4G long range wireless control
- Hobby grade fully interchangeable replacement parts
- Built-in gyroscopic chip for extra stability and control
- High performance single blade rotor system for outdoor flying
- 7.4v 850 mAh Li-Poly battery
- Fly up, down, left, right, forward, backward and hover
- 1W Search light and multicolored LEDs can be turned ON/OFF from controller

REMOTE CONTROL BATTERY INSTALLATION

1. Pull the battery cover off of the remote control.
2. Install 6 "AA" alkaline batteries into the battery pack and then install the pack in the controller as shown in the diagram.
3. Replace the battery cover.



Battery Compartment
(6 "AA" batteries)

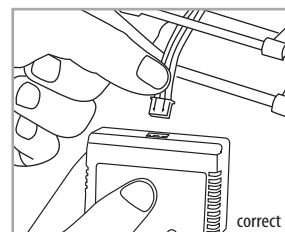
CHARGING THE HELICOPTER

1. Make sure the helicopter's power switch is set to the OFF position (see illustration A).
2. Insert the helicopter's charging plug (the 3-wire plug) into the charger's socket. The charging plug and the charger's socket fit only one way. Do not force them (see illustration B).
3. Plug the charger into a wall outlet. The charger's charging indicator lights green to show that charging is in progress.
4. Average charging time is approximately 90-120 minutes. The helicopter operates for approximately 6-8 minutes on full charge.
5. The charging indicator turns off when the helicopter's battery is fully charged.

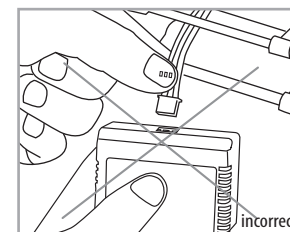
Note: the adaptor should be periodically examined for conditions that may result in the risk of fire, electric shock, or injury to persons and that, in an event such conditions, the adaptor should not be used until properly repaired.



A



correct



incorrect

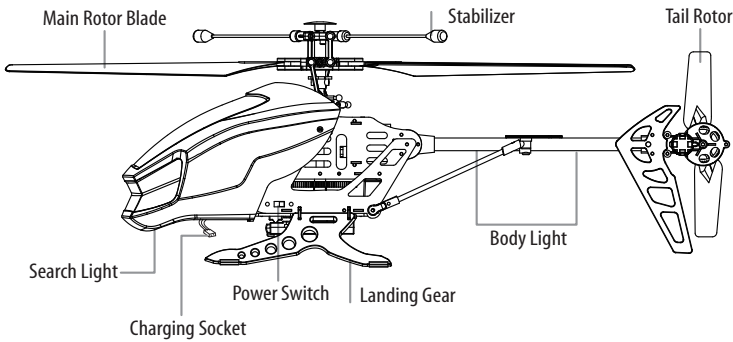
B

Thank you for purchasing the Cloud Quest™ 2.4 G Wireless Outdoor Helicopter. Please read this instruction booklet as it contains valuable information on how to properly fly and care for your helicopter.

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

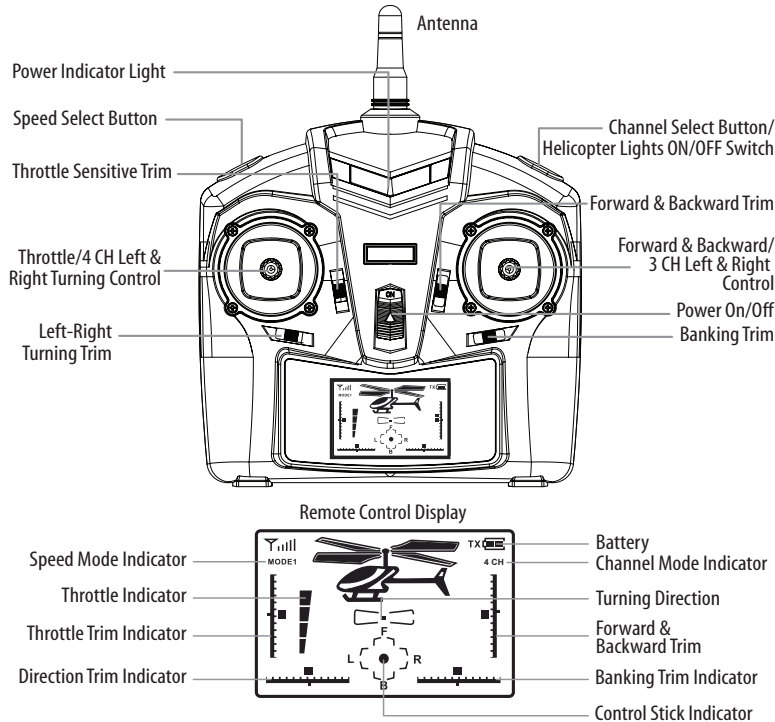
HELICOPTER DIAGRAM

Below is a basic list of features and parts on the helicopter.



REMOTE DIAGRAM

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



WARNING

DO NOT FLY YOUR CLOUD QUEST IN FOUL WEATHER!



PREPARING FOR FLIGHT

- Verify that there are 6 "AA" batteries inside the remote control unit and the helicopter has been fully charged.
 - Make sure your helicopter and controller are 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 river. Set your helicopter on a clean flat surface before take-off.
- DO NOT ATTEMPT TO FLY YOUR CLOUD QUEST IF THERE IS RAIN, SNOW, HEAVY WINDS, THUNDER OR LIGHTNING OUTDOORS. IT COULD DAMAGE YOUR PRODUCT AND POSSIBLY EVEN CAUSE BODILY HARM.**

SYNCING YOUR HELICOPTER

Your Cloud Quest™ 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 both your controller and helicopter are in the OFF position. Make sure that there are no other 2.4G devices in the area as well.
2. Turn ON the helicopter and set it down on a flat surface. The red LED indicators inside the helicopter body should flash.
3. ON the remote, pull the throttle all the way down, then turn ON your remote. The remote will beep in 3-5 seconds. When you hear a long beep, the searching light and tail lights should turn on. This indicates that your helicopter and remote 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 Helicopters 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 helicopter 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 helicopter, it should be left ON until all players have synced their helicopters.
7. Should there be a mistake/interference, all players must turn off their controllers and helicopters and start the process all over again.

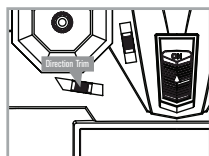
FLYING TIPS

- It is recommended that you operate the helicopter in a wide space. The ideal space should have a 200 foot radius. The helicopter is designed for OUTDOOR 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. Wind can greatly affect the performance of the helicopter.

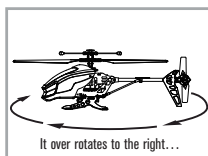
UNDERSTANDING TRIM ADJUSTMENTS

Turn Left/Right Trim

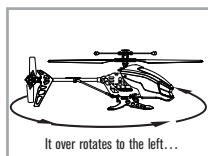
- If your helicopter nose rotates to the left or right uncontrollably, you may need to utilize the DIRECTION TRIM buttons.
- If your helicopter over rotates CLOCKWISE (to the right), push and release the DIRECTION TRIM button repeatedly to left side until the turning stops and proper flight is maintained.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



Direction Trim Controls



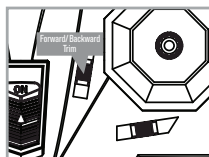
Push to left



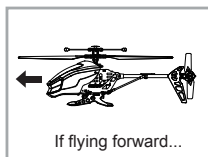
Push to right

Forward/Backward Trim

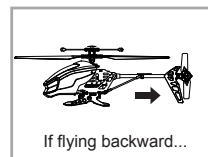
- If your helicopter is moving forwards or backwards automatically, you may need to adjust the FORWARD/BACKWARD TRIM buttons.
- If your helicopter flies forward, push and release the FORWARD/BACKWARD TRIM button back/down repeatedly until the moving stops and proper flight is maintained.
- If your helicopter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



Forward/backward Trim Controls



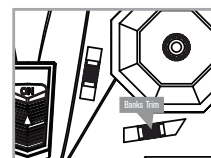
Push down to go backward



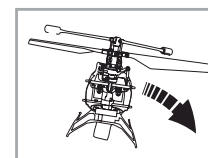
Push up to go forward

Banking Left/Right Trim

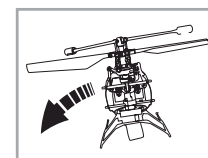
- If your helicopter is not steadily hovering and is banking to the left or right automatically, you may need to adjust the BANKING TRIM buttons.
- If your helicopter banks to the left, push and release the BANKING TRIM button repeatedly to the right until the banking stops and proper flight is maintained.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



4 CH Left/Right Banking Controls



Push to right to increase right banking sensitivity



Push to left to increase left banking sensitivity

Throttle Sensitivity Trim

- If you find the throttle is too sensitive when you fly the helicopter, you may need to utilize the Throttle sensitivity trim.
- Push the Throttle sensitivity trim button back to lower the sensitivity of the throttle. Push the Throttle sensitivity trim button forward to increase the sensitivity of the throttle. The middle position is recommended for beginners.

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.

SPEED SELECT BUTTON

Press the SPEED SELECT button on the top left of the remote control and your helicopter will change to high-speed mode [MODE 2]. Press the SPEED SELECT button a second time to go back to normal speed [MODE 1] (see Remote Diagram on page 3).

CHANNEL SELECT & HELICOPTER LIGHTS ON/OFF SWITCH BUTTONS

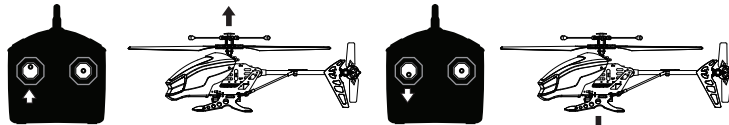
Press and hold down the CHANNEL SELECT button on the top right of the remote control for 3 seconds to toggle between 3 Channel (Beginner Mode) and 4 Channel (Advanced Mode) modes. A beep tone indicates a change of channel and will be indicated on the screen. Quickly Press the LIGHT button on the top right of the controller (see CONTROLLER DIAGRAM on page 3) to remotely switch helicopter lights OFF and ON.

NOTE: When set to 3 Channel the screen will be orange color.
When set to 4 Channel the screen will be blue color

Note: It is highly recommended that the user successfully pilot the helicopter in 3 Channel Mode, before advancing to 4 Channel Mode.

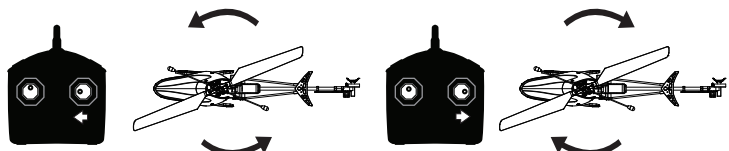
3 CHANNEL FLIGHT CONTROL (BEGINNER)

Below is a list of basic flight functions for your long-range remote control helicopter. While learning to fly your helicopter it is best to start with a large space until you get used to the basic controls. As you master flying your helicopter 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.



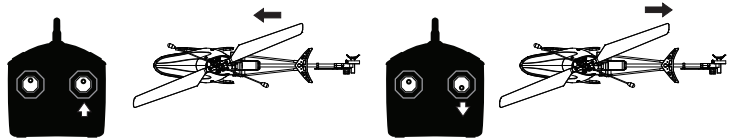
Move the Throttle up to increase the speed of the main rotor and the helicopter will rise up.

Move the Throttle down 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.

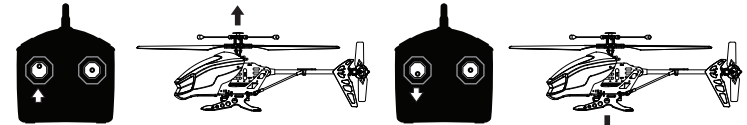


Move the Direction Control up and the helicopter will move forward.

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

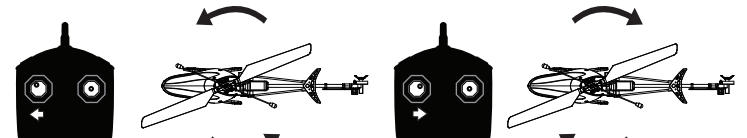
4 CHANNEL FLIGHT CONTROL (ADVANCED)

Below is a list of basic flight functions for your long-range remote control helicopter. While learning to fly your helicopter it is best to start with a large space until you get used to the basic controls. As you master flying your helicopter 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.



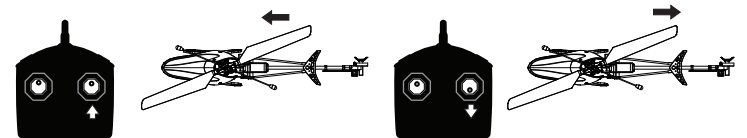
Move the Throttle up to increase the speed of the main rotor and the helicopter will rise up.

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



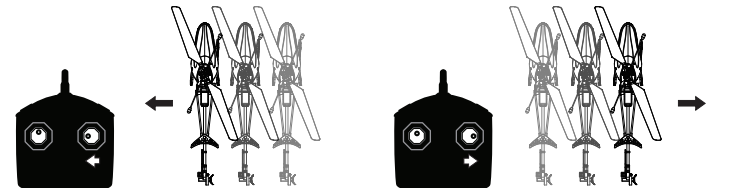
Move the Throttle left and the helicopter will turn left.

Move the Throttle right and the helicopter will turn right.



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

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



Move the Direction Control left and the helicopter will bank to the left.

Move the Direction Control right and the helicopter will bank to the right.

TROUBLESHOOTING

Before sending your helicopter in for repair, please check for a solution below.

Problem	Possible Cause(s)	Solution
Controller not responding	Weak Batteries; No Batteries	Install new batteries in controller
Helicopter does not respond properly to the controller	Either Helicopter or Controller are switched OFF Low Battery power in Helicopter or Controller Helicopter and Controller not properly synced	Switch ON both Controller and Helicopter Ensure Helicopter battery is fully charged and replace controller batteries Refer to the SYNCING YOUR HELICOPTER section
Helicopter loses connection with controller	Helicopter Out of Range Low Battery power in Helicopter or Controller	Fly Helicopter closer and within maximum range Ensure Helicopter battery is fully charged and replace controller batteries
Helicopter does not fly well	Helicopter not Trimmed Blade, Tail Rotor or other parts may be damaged Flying in Inclement Weather	Refer to Understanding Trim Adjustments Check and repair/replace damaged parts Stop flying and wait until the weather improves

HELICOPTER WARNING:

The helicopter is designed for OUTDOOR USE ONLY. 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.

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 helicopter power switches when not in use.
- The included charger is built specifically for the helicopters 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 helicopter.

BATTERY WARNINGS

RECHARGEABLE BATTERY:

This helicopter uses a Li-Poly rechargeable battery. 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 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 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.

PART REPLACEMENT INSTRUCTIONS

CONTENTS:

- | | | | | | |
|--|---|-----|------------------------------|---|-----|
| (1) Propeller blade |  | x 2 | (4) Connecting rods (L 23mm) |  | x 2 |
| (2) Tail propeller blade |  | x 1 | (5) 2.5*10mm screws |  | x 4 |
| (3) Direction connecting rods (L 28mm) |  | x 2 | (6) Training head |  | x 1 |

CLOUD QUEST PROPELLER SYSTEM

Your CLOUD QUEST 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 CLOUD QUEST propeller or propeller connecting rods.

TROUBLESHOOTING:

If your CLOUD QUEST loses its ability to fly correctly, please inspect the propeller system carefully for the following common issues:

1. Replacing Connecting Rod and Direction Connecting Rod: The connecting rod is a small "handcuff" style device that stabilizes the propellers. There are two connecting rods and two direction connecting rods on the propeller. Please see **Diagram 1**.

If a connecting rod or direction 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.

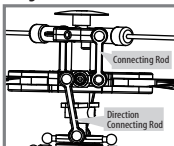
2. Replacing Propeller: The propeller is subject to damage as you learn to properly fly and control your CLOUD QUEST. If after a crash your helicopter has loss of control or flies erratically you should carefully inspect your entire propeller system for any sign of damage. Most common are: cracked or 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 4**.

3. Replacing Tail Propeller Blade: If after a crash your helicopter tail propeller blade is damaged, please replace it follow **diagrams 5 through 6**.

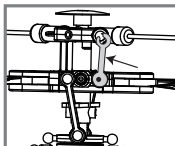
4. Interchanging the Head: Your Cloud Quest package includes a Training head. It is highly recommended for users who are beginners to outdoor helicopters to practice initially with the Training head. It has been engineered using a more durable material and is more likely to withstand crashes.

Replacing Connecting Rod and direction Connecting Rod

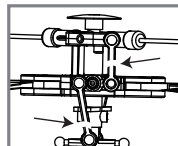
Diagram 1



There are two propeller connecting rods on the propeller and two direction connecting rods.

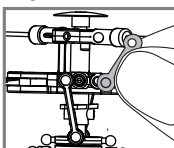


Broken connecting rod

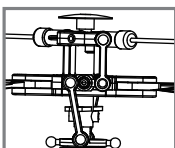


Broken connecting rod

Diagram 2



Replacing connecting rod



Proper connection

Replacing Damaged Propeller

Diagram 3



Using a Phillips screwdriver turn counter clockwise to remove the propeller screw.

Replacing Damaged Tail Propeller

Diagram 5



Using a Phillips screwdriver turn counter clockwise to remove the tail propeller screw.

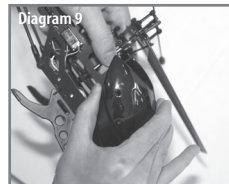
Using or Replacing Training head

Diagram 7



Carefully snap off each side of the head from the bar.

Diagram 9



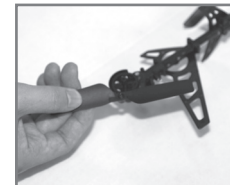
Carefully snap on each side of the head to the bar.

Diagram 4



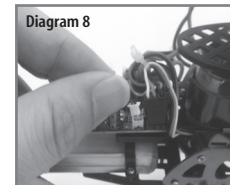
Remove the broken blade, carefully replace with a new one, and then screw on.

Diagram 6



Remove the broken tail blade, carefully replace with a new one, and then screw on.

Diagram 8



Disconnect the head light power cord inside and slide off the head.

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.

INDUSTRY CANADA NOTICE: CANADA ONLY.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type de d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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.