

# Brookstone®

---

GD-90WP A803W User Manual

**HD/WI-FI DRONE**

for ages  
**14+**

## TABLE OF CONTENTS

|                                      |    |
|--------------------------------------|----|
| Warnings and Cautions .....          | 1  |
| FCC Information .....                | 7  |
| Location of Parts and Controls ..... | 9  |
| Operation .....                      | 11 |
| Replacing The Propeller Blades ..... | 24 |
| Troubleshooting .....                | 25 |
| Care and Maintenance .....           | 27 |
| HD/WI-FI Drone Specifications .....  | 27 |
| Warranty .....                       | 28 |

## CAUTION

- TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.

THERE ARE NO SERVICEABLE PARTS INSIDE.

- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



The lightning flash with arrow-head symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the unit’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the unit.

## IMPORTANT SAFETY INSTRUCTIONS

All of the safety and operating instructions should be read, adhered to and followed before the unit is operated.

## **DRONE WARNINGS:**

1. The Drone is designed for INDOOR or OUTDOOR flight.
2. The Drone's blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the Drone to reduce the risk of getting into the flight path and always maintain visual contact with the Drone while flying.
3. Warn spectators that you will be flying your Drone so that they are aware of its position.
4. Before flight, inspect the rotor blades to make certain that the blades are securely fastened to the Drone.
5. Before flying check your local laws and regulations pertaining to drone usage.
6. It is recommended to operate the Drone in a wide-open space. The ideal space should have a 200-foot radius.
7. Parental guidance or adult supervision is suggested at all times.
8. If you are flying the Drone with others, make sure all spectators are behind you.
9. For best performance, it is recommended that you operate the Drone in zero wind conditions, as wind can greatly affect the performance of the aircraft.
10. Record responsibly. Respect the privacy of individuals when recording video or taking photos with the Drone.
11. Obtain permission from individuals before circulating videos or photos taken with the Drone.

CAUTION: DO NOT ATTEMPT TO FLY THE DRONE IF THERE IS RAIN, SNOW, HEAVY WINDS, THUNDER OR LIGHTNING OUTDOORS. IT COULD DAMAGE YOUR PRODUCT AND MAY CAUSE BODILY HARM.



## 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.
- Not suitable for children under 14 years old. Parental supervision recommended when flying the Drone.



## **BATTERY WARNINGS**

### **RECHARGEABLE BATTERY (DRONE):**

This device contains a removable Lithium-Polymer battery. The included charger is built specifically for the HD/WI-FI Drone Li-Poly battery. Do not use it to charge any other battery. The battery must be recycled or disposed of properly. Contact your local waste management office for information on battery recycling or disposal.



## **DANGER**

To reduce the risk of electric shock, burns, fire or injury:

1. Do not use while bathing or in a shower.
2. Do not place or store unit where it can fall or be pulled into a tub or sink.
3. Do not place in, drop or submerge in water or other liquid.
4. Do not reach for a unit that has fallen into water. Unplug it immediately.
5. Care should be taken so that objects do not fall and liquids are not spilled onto the unit.

## **WARNING**

1. Close supervision is necessary when this appliance/product is used by or near children or mentally disabled individuals.
2. Use this unit only for its intended use as described in this manual.
3. Unplug this unit during lightning storms or when unused for long periods of time.
4. Never drop or insert an object into any opening.
5. Protect the power cord from being walked on or pinched, particularly at plug outlets, convenience receptacles and the point where it exits the unit.
6. Do not allow cord to touch hot surfaces. Wrap cord loosely around the unit when storing.
7. The unit should be situated away from direct sunlight or heat sources such as radiators, electric heaters, heat registers, stoves, or other units (including amplifiers) that produce heat. Avoid placing on top of stereo equipment that radiates heat.
8. Never block the air openings of the unit with materials such as clothing, plastic bags or papers, or place it on a soft surface such as a bed or couch, where the air openings may be blocked.

9. Do not overload the electrical outlet. Use only the power source as indicated.
10. Do not carry this unit by its cord or use the cord as a handle.
11. Never operate this unit if it has a damaged cord or plug, if it is not working properly, or if it has been dropped or damaged, or dropped into water. If the unit's power supply cord or plug is damaged, do not attempt to fix it yourself.
12. To avoid the risk of electric shock, do not disassemble or attempt to repair the unit. Incorrect repair can cause risk of electric shock or injury to persons when the unit is used.
13. Do not operate in the presence of explosive and/or flammable fumes.
14. Never remove the plug from the outlet by pulling the power cord.

## FCC INFORMATION

**Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 distance between the equipment and receiver.

- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC Rules.

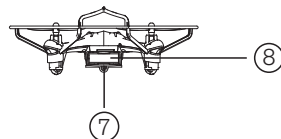
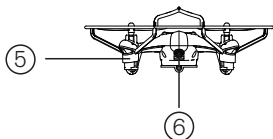
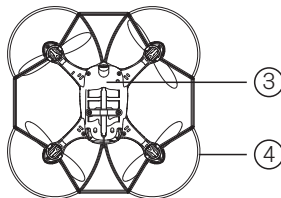
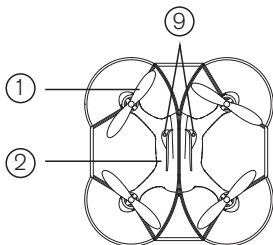
Operation is subject to the following two conditions:

1. This equipment may not cause harmful interference.
2. This equipment must accept any interference received, including interference that may cause undesired operation.

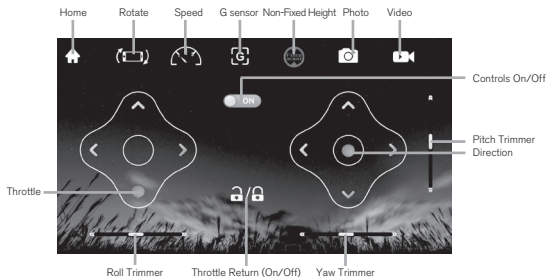
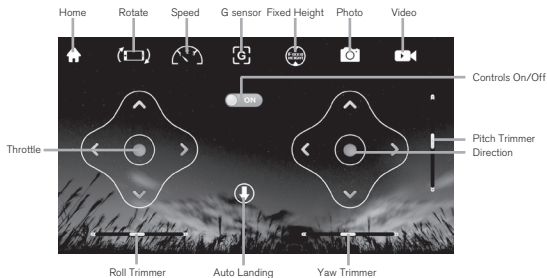
Modifications not authorized by the manufacturer may void the user's authority to operate this device.

## LOCATION OF PARTS AND CONTROLS

- |                |                |                         |
|----------------|----------------|-------------------------|
| 1. Propeller   | 4. Guard Frame | 7. Antenna              |
| 2. Upper Body  | 5. Motor       | 8. Battery              |
| 3. Bottom Body | 6. HD Camera   | 9. WiFi Indicator Light |

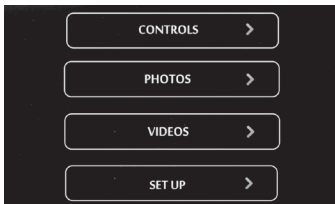


# LOCATION OF PARTS AND CONTROLS

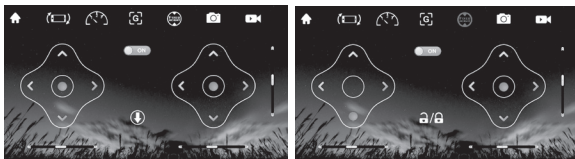


## MOBILE WI-FI CONTROL OPERATING INSTRUCTIONS

1. Go to the iTunes® App Store<sup>SM</sup> (for Apple devices) or Google Play™ (for Android devices) and download the HDWIFI App.
2. Power on the HD/WI-FI Drone, the LED indicator will flash white as the drone waits to be connected to a device.
3. Go to Settings on your device and turn Wi-Fi on. The HD/WI-FI Drone will appear as an available connection.
4. Select the HD/WI-FI Drone to confirm the connection.
5. Exit out of Settings and open the HDWIFI app.
6. Select “CONTROLS” to access the drone controls and live-stream video.



7. Choose a flying mode (Fixed Height / Non-Fixed Height) by switching  icon.
8. Tap **OFF**  to turn the controls on, the LED indicator will change to solid white and the HD/WI-FI Drone is ready to fly.



### Fixed Height

During the flight, when click the button “” any time, the drone will be landed automatically.

### Non-Fixed Height

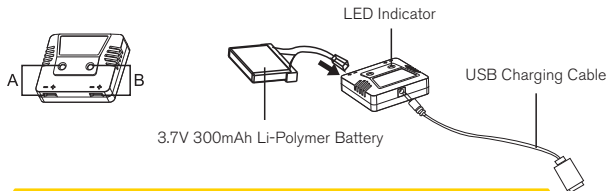
The default status is always in “”, the throttle will remain at a constant height when take the thumb away.

During the flight, when switch the button from “” to “” any time, the drone will be landed automatically.

In “” status, the throttle will be auto backed to bottom while thumb away.

## CHARGING DRONE BATTERIES

USE THE WALL CHARGER TO CHARGE  
THE DRONE BATTERY



1. Separate the battery cable and connect it to the charger.
2. Use the USB charging cable to connect the battery to a USB power source, such as a laptop. A full charge takes about 40 minutes. After fully charged, the drone will fly about 5 minutes.
3. The A/B indicator match the A/B charging status. When charging, the relevant indicator will light up. After charging, the USB LED indicator will be off, unplug the USB charging cable to finish charging. Do not attempt to overcharge the battery.
4. Only use the supplied Li-Polymer battery. Using any other battery may damage the drone.
5. Only use included USB cable and charger to connect the drone for charging.



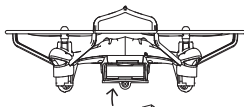
| LED Indicator LED                                                                 |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
| Idle and Charge Completion                                                        | Charging                                                                          |

| Charger Specifications |                  |              |
|------------------------|------------------|--------------|
| Input                  | Charging Current | Full Voltage |
| 5V                     | 420-450mA        | 4.2+0.03V    |

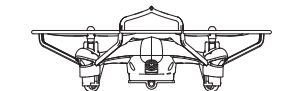
## BATTERY AND CHARGER SPECIFICATION

| Battery usage and charge duration reference |                                                    |
|---------------------------------------------|----------------------------------------------------|
| Battery Type                                | Lithium-Polymer Battery                            |
| Battery Specification                       | 3.7V 300mAh                                        |
| Drone Flight Time                           | Approx. 4-6 Minutes                                |
| Charge Time                                 | Approx. 40 Minutes (Charging current approx. 0.5A) |

## GETTING READY TO TAKE OFF



Li-Polymer Battery  
3.7V 300mAh



Flat Surface

### Step 1

Insert the battery into the drone, and plug the battery wire into the drone. When the two indicator lights are flashing, put the drone flat on the ground.

### Step 2

Open the App. The first time after installation, default is: Non-Fixed Height; For future, the default would be depend on the last flight status (Fixed Height or Non-Fixed Height).

### Step 3

Choose a flying mode (Fixed Height / Non-Fixed Height) by switching  icon.

## Step 4

Tap **OFF**  to turn the controls on, the LED indicator will change to solid white and the HD/WI-FI Drone is ready to fly.



Important: Make sure the drone is placed on a flat surface. After connecting, the gyroscope will need to be calibrated before take off.

## CALIBRATION INSTRUCTION



### Steps:

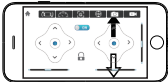
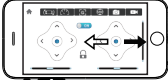
1. Make sure the drone is placed on a flat surface.
2. After connecting, pull the two rockers (on the App) to the lower right corner for 2-3 seconds for calibration.
3. When calibrated, the flashing LED light will become solid.

## **BASIC MANUEVERS AND PRACTICE EXERCISES**

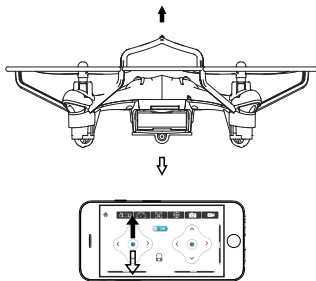
### **PLEASE PRACTICE AND LEARN CONTROLS BEFORE ACTUAL FLYING**

Please be familiar with the unit before you fly it. Read the instructions carefully, get familiar with all controls, and keep repeating until you are confident with these controls.

1. Place the drone in a clear open space with the tail of drone pointing to you.
2. Practice operating the control sticks (as shown below). Repeat practicing "Throttle High/Low," "Turn Left/Right," "Forward/Backward," and "Move Left/Right."
3. This simulation flight practice is very important, please keep practicing until you are comfortable with these controls.

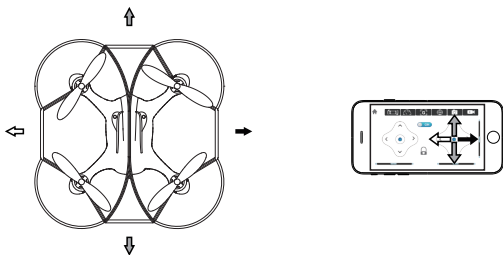
|                                                                                                    |                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Direction</p>  | <p>Turn right</p>  <p>Turn left</p>      |
| <p>Elevator</p>   | <p>Fly forward</p>   <p>Fly backward</p> |
| <p>Throttle</p>   | <p>Ascent</p>   <p>Descent</p>           |
| <p>Rudder</p>     | <p>Move left</p>   <p>Move right</p>     |

## THROTTLE CONTROL PRACTICE



1. Move the throttle (on the left side of the screen) to the middle to lift the drone a few feet off the ground. Lower the throttle to slowly land the drone again. Repeat until you are comfortable with this action.
2. To practice hovering flight, try to keep the drone steady just 2-3 feet off the ground.

## DIRECTION CONTROL PRACTICE

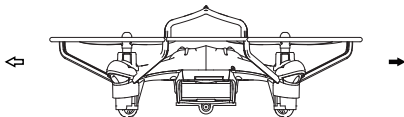


- Practice flying forward and back using the directional control panel (on the right side of the screen). Keep a low height and practice moving a few feet in each direction.



If the drone flies away, please lower the throttle stick (on left) to land the drone.

## RUDDER CONTROL PRACTICE



1. Slowly raise the throttle stick.
2. Move the nose of the drone right or left. Then slowly move the rudder stick in the opposite direction to fly back to the original position.

## PRECISION CONTROL PRACTICE

Once you are familiar with all actions from the above exercises, practice within a circle to improve your accuracy. Reduce the size of the circle as you become more familiar with the controls.

## DIRECTIONAL CHANGE AND HOVERING PRACTICE

Once you are familiar with the above exercises, stand by the drone and continue practicing. Then repeat the exercises by standing in front of the drone.

## CORRECTING FLIGHT USING PRE-PROGRAMMED MOVEMENTS

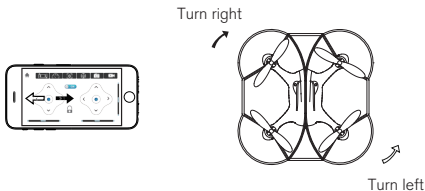
Slowly raise the throttle stick as the drone lifts off the ground. You can use the pre-programmed movements to correct the actions. These controls are the slider bars next to the throttle and directional control pads.

### 1. Correcting using Rotational movement

As the drone lifts off, the nose may lean left or right.

When the drone leans right, adjust the trim to left side.

When the drone leans left, adjust the trim to right side.

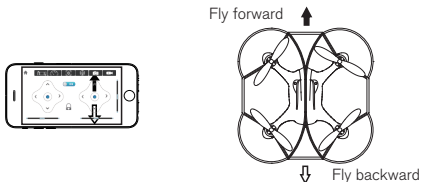


## 2. Correcting using Forward/Backward Tilt movement

As the drone lifts off, the nose may lean forward or backward.

When the drone leans forward adjust the tilt back.

When the drone leans backward, adjust the tilt forward.

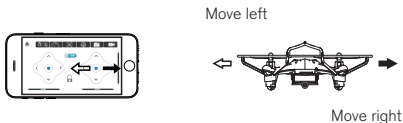


## 3. Correcting using Side Step Movement

As the drone lifts off, if the unit may shift left or right.

When the drone shifts right, side step to left side.

When the drone shifts left, side step to right side.



## REPLACING THE PROPELLER BLADES

The HD/WI-FI Drone's propeller system is a precision instrument that may need repair or replacement for optimal flight function. Crash landing from high-speed aerial flights may cause damage to your HD/WI-FI Drone's propellers.

1. Before making any repairs, turn off the power and disconnect the battery.
2. The HD/WI-FI Drone has four blades labeled with an embossed F or R, two white propellers on front, and two black propellers on the rear.
3. When replacing the propeller blades, gently remove the blade from the rotor shaft. Make sure to match the indication letter on the blade with the letter on the drone.
4. Replace the damaged blade with the new blade.

## TROUBLESHOOTING

|   | Problem                                                                                                              | Cause                                                                                                                                                                                                                  | Solution                                                                                                                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | After connecting the drone to the battery, the LED indicators keep flashing, but there is no response when operating | Unable to pair to App                                                                                                                                                                                                  | Pair the App and drone according to the instruction                                                                                                                                                                                             |
| 2 | No response after battery is connected to drone                                                                      | <ol style="list-style-type: none"><li>1. Check if the power of remote control or receiver is connected</li><li>2. Check the remote control and receiver voltage</li><li>3. Poor contact on battery terminals</li></ol> | <ol style="list-style-type: none"><li>1. Turn on control and make sure drone battery is inserted properly</li><li>2. Use fully charged batteries</li><li>3. Re-seat the battery and make sure there is good contact between batteries</li></ol> |
| 3 | Motor does not respond to throttle stick, receiver LED flashes                                                       | Drone battery depleted                                                                                                                                                                                                 | Fully charge the battery, or replace with a fully charged battery                                                                                                                                                                               |
| 4 | Main rotor continues to spin after landing                                                                           | Throttle stick is not in the lowest position                                                                                                                                                                           | Make sure the throttle stick is in the lowest position                                                                                                                                                                                          |

|    | <b>Problem</b>                                                                          | <b>Cause</b>                                        | <b>Solution</b>                                                                 |
|----|-----------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|
| 5  | Main rotor spins but is unable to take off                                              | 1. Deformed propellers<br>2. Drone battery depleted | 1. Replace main propellers<br>2. Charge or replace with a fully charged battery |
| 6  | Strong vibration of drone                                                               | Deformed propellers                                 | Replace main propellers                                                         |
| 7  | The drone still keeps turning after rudder trim, or inconsistent speed during side step | 1. Damaged rotors<br>2. Damaged drive motor         | 1. Replace the main wing<br>2. Replace the main motor                           |
| 8  | The drone shifts forward or backward                                                    | Gyroscope is not centered or calibrated             | Restart the drone and control to recalibrate the gyroscope                      |
| 9  | Can not fly the drone after crash                                                       | 1. Motor fell out<br>2. Rotors came loose           | 1. Install the motor again<br>2. Tighten the rotors                             |
| 10 | When App closed, or could not control the drone, or could not pair with the drone       | The drone needs to get reset                        | Unplug the battery and re-plug                                                  |

## **CARE AND MAINTENANCE**

- Always disconnect the battery from the drone when it will not be used for an extended period of time.
- To clean, gently wipe the drone with a clean damp cloth.
- Parental guidance recommended when installing or replacing the batteries.

## **DRONE SPECIFICATIONS**

Li-Poly Rechargeable Battery: 3.7V, 300mAh

Flight speeds: 3

Flying range: up to 196 feet (60 meters)

Flight time between charges: 5 minutes

Power type: USB rechargeable (includes cable)

Includes 8 spare blades

Dimensions: 5 × 5in (13 × 13cm), 1.62oz (46g)

## ONE(1) YEAR LIMITED WARRANTY

Brookstone® warrants this product against defects in materials and/or workmanship under normal use for a period of ONE (1) YEAR from the date of purchase by the original purchaser ("Warranty Period"). If a defect arises and a valid claim is received within the Warranty Period, at its option, Brookstone will either 1) repair the defect at no charge, using new or refurbished replacement parts, or 2) replace the product with a new product that is at least functionally equivalent to the original product, or 3) provide a store credit in the amount of the purchase price of the original product. A replacement product or part, including a user-installable part installed in accordance with instructions provided by Brookstone, assumes the remaining warranty of the original product. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Brookstone's property. When a store credit is given, the original product must be returned to Brookstone and becomes Brookstone's property.

**Obtaining Service:** To obtain warranty service, call Brookstone Limited Warranty Service at 1-800-292-9819. Please be prepared to describe the product that needs service and the nature of the problem. A purchase receipt is required. All repairs and replacements must be authorized in advance. Service options, parts availability and response times will vary. You are responsible for delivery and the cost of delivery of the product or any parts to the authorized service center for replacement, per our instructions.

**Limits and Exclusions:** Coverage under this Limited Warranty is limited to the United States of America, including the District of Columbia and the U.S. Territories of Guam, Puerto Rico, and the U.S. Virgin Islands. This Limited Warranty applies only to products manufactured for Brookstone that can be identified by the "Brookstone" trademark, trade name, or logo affixed to them or their packaging. The Limited Warranty does not apply to any non-Brookstone products. Manufacturers or suppliers

other than Brookstone may provide their own warranties to the purchaser, but Brookstone, in so far as permitted by law, provides these products "as is." This warranty does not apply to: a) damage caused by failure to follow instructions relating to product's use or the installation of components; b) damage caused by accident, abuse, misuse, fire, floods, earthquake or other external causes; c) damage caused by service performed by anyone who is not a representative of Brookstone; d) accessories used in conjunction with a covered product; e) a product or part that has been modified to alter functionality or capability; f) items intended to be periodically replaced by the purchaser during the normal life of the product including, without limitation, batteries or light bulbs; g) any product sold "as is" including, without limitation, floor demonstration models and refurbished items; or h) a product that is used commercially or for a commercial purpose.

BROOKSTONE SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, BROOKSTONE DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF BROOKSTONE CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY.

Some states disallow the exclusion or limitation of incidental or consequential damages or how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Find thousands more  
great ideas online

**Brookstone®**

317907, 317908

Merrimack, New Hampshire, USA 03054 • 800-846-3000 • [Brookstone.com](http://Brookstone.com)

#### FCC Warning

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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note 1: 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 an experienced radio/TV technician for help.

Note 2: 1.Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. The minimum separation generally be used is at least 20 cm.