

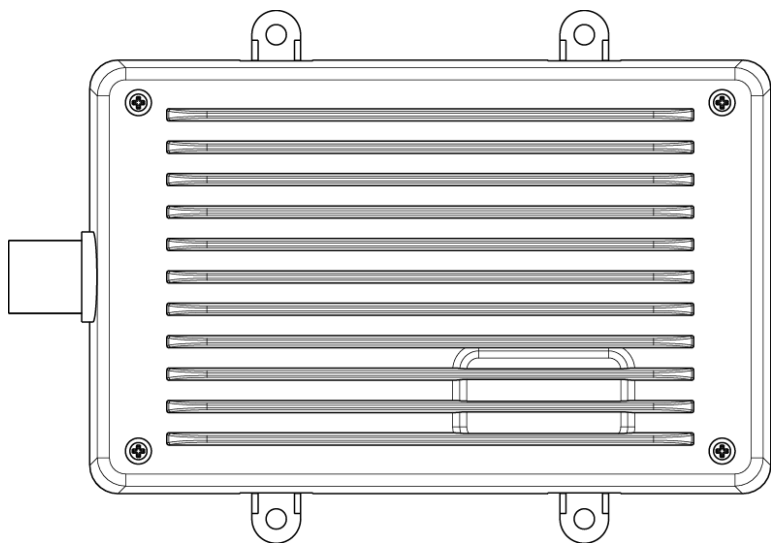
AQUATIC AV

USER MANUAL

BC6

BLUECUBE MINI HIDE-AWAY STEREO

BC631



**! PLEASE READ THIS INSTRUCTION MANUAL
BEFORE INSTALLATION AND OPERATION !**

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AQUATIC AV

AQUATIC AV

282 KINNEY DRIVE
SAN JOSE, CA 95112, USA

E-MAIL: INFO@AQUATICAV.COM

US & CANADA: 1 877 579 2782

INTERNATIONAL: +1 408 559 1668

FAX: +1 408 559 0125

AQUATICAV.COM



**California Proposition
65 Warning**



WARNING: This product contains chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm.

For more information: www.P65Warnings.ca.gov

1.1 Contents

- BC6 Mini Bluetooth Amplifier
- Wiring Harness (AQ-UNH-2)
- Four (4) Stainless Steel Mounting Screws
- Mounting Template
- Bluetooth Antenna
- User/Installation Manual

1.2 Connections (See Diagram 1.2.1)

1. 12-pin Watertight Harness

The 12-pin harness supplies power and ground connections to the BC6 MINI and four (4) speaker channel output connections from the BC6 MINI (see Wiring Diagram 1.3.1).

 *Do not cut or modify the 12-pin harness on the BC MINI side or warranty will be void.*

2. RCA (Rear) Outputs

Allows external amplifiers to be connected to power additional speakers.

3. Auxiliary Inputs

Allows an additional RCA input source from a standalone unit or another stereo source.

4. Remote 8-pin DIN Cable (x2)

Allows connection of the optional wired and wireless Remote Controls (sold separately).

5. 12V DC External Trigger (x2)

Allows for external lighting or relays to be triggered (3A max load). This feature is only available when using the optional Remote Controls (sold separately).

6. Power On LED

When the BC6 MINI is powered On the LED will illuminate red.

7. Bluetooth Halo Aerial Connector

Connect the Bluetooth Halo Aerial Technology Antenna (AQ-BTANT-1) to the male SMA connector. Do not apply excessive torque on the SMA connector (no more than 0.5N-m). Use hands to tighten the connection (do not use a wrench). See section 1.5.

8. Electronic Crossover Wire

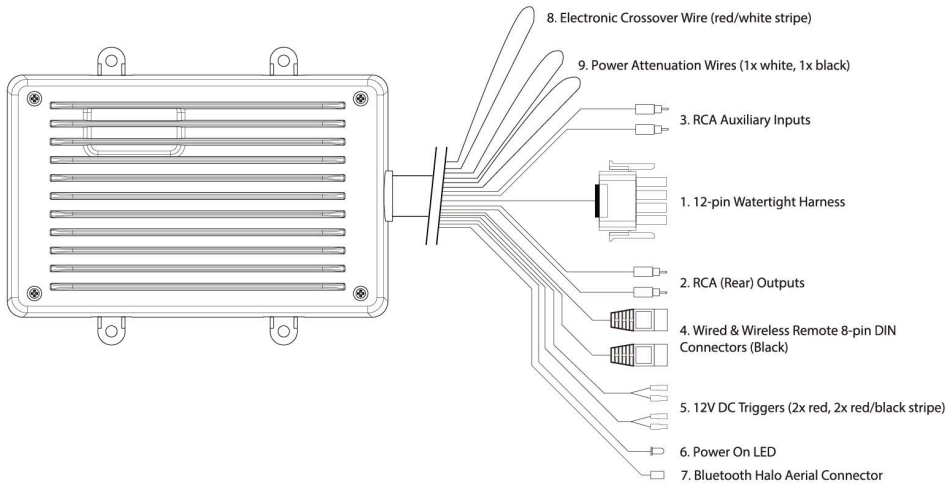
Allows the left and right rear channels to be used to power a dual voicecoil passive subwoofer (e.g. Aquatic AV AQ-SWP8-2) instead of speakers. See section 1.7 for further details.

9. Power Attenuation Wires

Allows the output level to be adjusted from a factory preset of -3dB to either -6dB, 0dB or +6dB. See section 1.6 for further details.

 *Aquatic AV does not recommend the wired Remote Control for use in spa applications.*

1.2.1 Connections Diagram

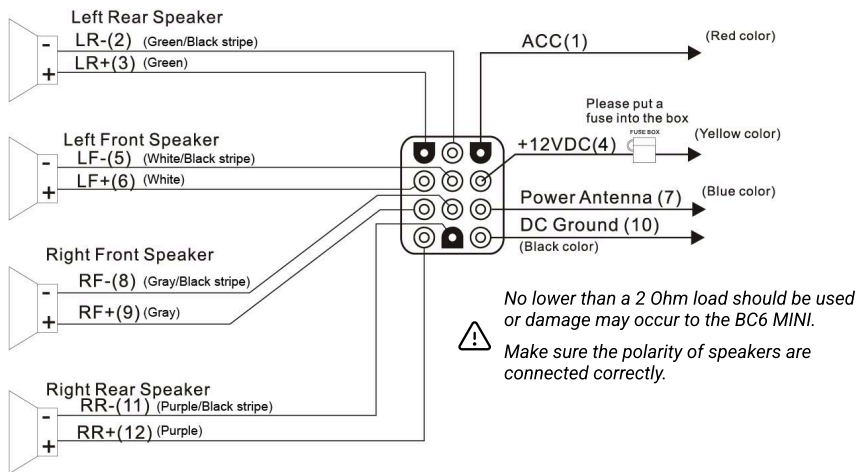


1.3 12-Pin Harness Connection (Retail Packaged Models Only)

If your BC6 MINI was purchased from an Aquatic AV dealer and/or supplied with retail packaging it is supplied with the Aquatic AV universal harness AQ-UNH-2 in order to connect the BC6 MINI to power and speakers. Please proceed to section 1.3.1.

If your BC6 MINI was supplied as a pre-installed waterproof entertainment system it will utilise 3rd party wiring connections and is not supplied with the Aquatic AV 12-pin Harness. Please proceed to section 1.4.

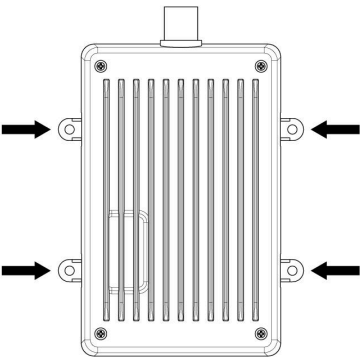
1.3.1 12-Pin Harness Wiring Diagram



All open wire connections should be soldered and protected against water and dust for best long-term performance.

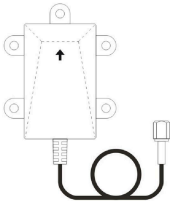
1.4. Mounting The BC6 MINI

- 1. Make sure the outside surface is clean and clear of debris.
- 2. The BC6 MINI has four (4) front screws. Drive the screws using a screw driver. Make sure screws are snug and do not over tighten.



1.5 Bluetooth Antenna Installation

- 1. Screw on the provided Bluetooth Antenna, avoiding bending the cable at a 90° angle.
- 2. Install the Bluetooth antenna as high as possible, above the waterline of the spa if possible, and making sure the arrow is pointing directly upwards towards the sky to ensure the Bluetooth range is maximized. If there is no suitable surface to screw it in, we recommend using a good quality double sided tape.



1.6 Power Attenuation Wires

The BC6 MINI's power can be reduced or increased to suit different applications. An output level of -3dB or -6dB should be used to avoid blowing very small speakers, often used in spa applications.

By cutting only the white wire the output level will decrease to -6dB below the nominal 0dB.

By cutting both the white and black wires the power/volume will increase to +6dB above the nominal 0dB.

BLACK WIRE	WHITE WIRE	OUTPUT LEVEL
INTACT (NOT CUT)	INTACT (NOT CUT)	-3dB
INTACT (NOT CUT)	CUT	-6dB
CUT	INTACT (NOT CUT)	0dB (reference)
CUT	CUT	+6dB

By cutting only the black wire the power/volume will increase from -3dB to the nominal 0dB.

These modifications should only be carried out by an experienced audio installer.

Should you cut the wrong wires or wish to reconnect them to further alter the attenuation, the Power Attenuation Wires can be crimped back together.

1.7 Electronic Crossover Mode

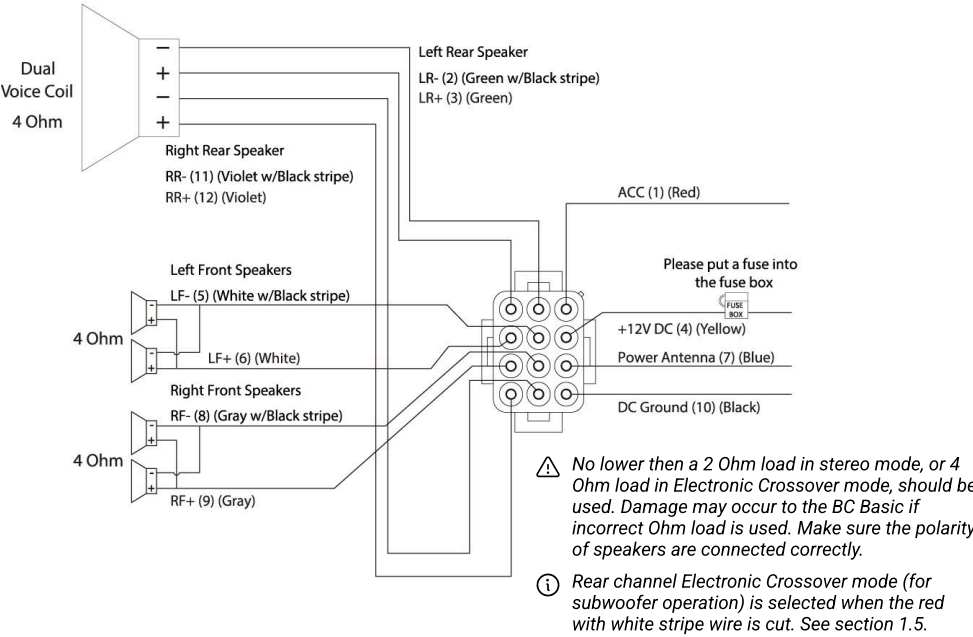
The BC6 MINI is capable of powering up to eight 4 Ohm speakers, however should you wish to power a dual-voicecoil subwoofer, in addition to standard speakers, this can be achieved by using the two rear speaker channels in Electronic Crossover Mode.

In Electronic Crossover Mode you will only be able to power up to four 4 Ohm speakers (two from the front left channel and two from the front right channel) plus a dual voice-coil subwoofer. See section 1.7.1.

Cut the Electronic Crossover wire (red/white stripe) to place the BC6 MINI in Electronic Crossover Mode. You will now be able to use the left and right rear channels in Mono mode to power a dual voice-coil passive subwoofer, such as the Aquatic AV AQ-SWP8-2.

These modifications should only be carried out by an experienced audio installer.

1.7.1 Four Speakers & One Dual Voice-Coil Subwoofer Set Up



1.8 Power On

The BC6 MINI requires +12V DC to both the red and yellow wires. When both of these wires have power the BC6 MINI is always powered on, indicated by a red LED on the heatsink of the BC6 MINI. Ground is connected to the black wire.

In a spa application this requires the red and yellow wires to be jumped together and then connected to the +12VDC output of the power source. In this set up the BC6 MINI will always be on, with a very low current draw when idle.

In a boat, ATV or other application requiring power from a battery, the yellow wire (constant power) should be connected to the battery, and the red wire should be connected to the ignition or a switch.

1.9 Handheld Remote Control Charging

The optional remote RF6 REMOTE KIT (sold separately) has a built-in Polymer Lithium rechargeable battery and comes with a charging cable. Connect one end of the charging cable to the charging connection on remote control and connect the USB end of the charging cable to any USB charger (5V DC) for charging.

1.10 Handheld Remote Control Synchronizing

The optional remote RF6 Remote Kit (sold separately) should include an RF receiver and should already be paired from the factory. Plug the RF receiver into the remote control 8-pin DIN connections on the BC6 MINI. If you need to synchronize the remote, follow the steps below.

1. Make sure BC6 MINI is powered ON (red LED)
2. Put the remote within 0.5 meter of the BC6 MINI.
3. Press and hold MODE on remote control until the LCD shows "Pairing in Progress". Release the button.
4. Within 2 seconds, the LCD will show "Paired". If it fails to pair, the LCD will show "Retry again". If this happens, wait 5 seconds and repeat steps above.

For any additional remote controls, you will also need to synchronize those remote controls to the BC6 MINI.

-  If the pairing process is not successful, try again to put your remote close to the remote receiver or charge the remote control if the battery is low.
-  Depending on the frequency of usage, the remote may drain its battery. Please charge the remote before use. If the LCD shows nothing, the battery has been drained and will need charging.
-  If you have lost or damaged your remote control and buy a new remote control, follow the above steps to pair the new remote control.

2.1 Wireless Handheld Remote Control RF6 REMOTE KIT (Sold Separately)



Buttons		AUX IN Mode	Bluetooth Mode
Power		Press once: Toggle Operational mode to Standby mode or vice versa	
Mode/Pair		Press once: Change the source Press and hold: Pair	
Volume Up		Press once: Volume up Press and hold: Fast volume up	
Volume Down		Press once: Volume down Press and hold: Fast volume down	
Fast Forward		Press once: no function Press and hold: no function	Press once: Next track Press and hold: Fast Forward
Fast Rewind		Press once: no function Press and hold: no function	Press once: Previous track Press and hold: Fast backward
Play/Pause		Press once: Toggle mute Press and hold: no function	Press once: Play/Pause Press and hold: no function
1		Press once: Pop Preset Equalizer Press and hold: no function	
2		Press once: Classic Preset Equalizer Press and hold: no function	
3		Press once: Rock Preset Equalizer Press and hold: no function	
EXT Trigger		Press once: Toggle EXT trigger 1 (12V dc) Press and hold: Toggle EXT trigger 2 (12V dc)	
Audio		Press once: no function Press and hold: no function	
VBass		Press once: Toggle VBass ON or OFF Press and hold: no function	

Please note Aquatic AV does not recommend wired remote controls are used for spa or hot tub applications as use in such applications is not covered by warranty.

3.1 Switch Input Mode Without Using Remote Control

When the BC6 MINI is powered ON, both Bluetooth and Auxiliary inputs are operational.

If a Bluetooth Audio device is connected (paired) first the BC6 MINI will automatically switch into Bluetooth mode.

If an Auxiliary device is connected first the BC6 MINI will automatically switch to AUX mode.

In case both Bluetooth Audio and the Auxiliary input are connected at the same time the BC6 MINI will not output any audio.

Pause or disconnect one of the input modes (Bluetooth Audio or Auxiliary) to let the other mode take priority and audio from the prioritised mode will then begin to play.

3.2 Listening Via Bluetooth Audio Using Remote Control (Sold Separately)

3.2.1 Pair With Bluetooth Audio Device

1. Make sure BC6 MINI is powered ON (red LED)
2. Select 'AQUATIC AV' from the list of available devices to pair (no password is needed).

3.2.2 Listening Via Bluetooth Audio Device

1. Bluetooth Audio mode will be activated once a Bluetooth Audio device is paired in any mode. Use MODE to change to the Bluetooth Audio mode to listen to music.
2. Play the song from device and the sound will play through the BC6 MINI.
3. Press PLAY/PAUSE to play/pause the song.
4. Press FAST REWIND/FORWARD buttons to play previous/next song file.
5. Press and hold FAST REWIND/FORWARD buttons to fast forward / fast rewind the song file.
6. Previous/next track and volume up/down can be controlled directly from your Bluetooth Audio device or directly from the BC6 MINI remote control.

3.2.3 Bluetooth Multi-Link

A second Bluetooth Audio device can pair to the BC6 MINI even when music is playing from the first Bluetooth Audio device.

Once paired, playing music from Device 2 will override Device 1 and the BC6 MINI will begin playing music from Device 2.

Should you wish to play music from Device 1 again, wait 10 seconds and press play on Device 1. This process can be repeated between Device 1 and Device 2 indefinitely while both devices are paired.

3.3 Listening Via Auxiliary Input Using Remote Control (Sold Separately)

1. Connect your MP3 device to the RCA inputs.
2. Press MODE on the remote control to select 'AUX' mode.

3.4 Adjust Volume Level Without Using Remote Control

Use either your Bluetooth Audio or Auxiliary device's volume control to adjust volume up or down.

3.5 Adjust Volume Level Using Remote Control (Sold Separately)

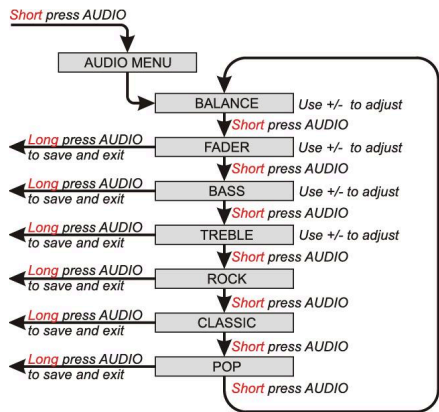
1. Press VOLUME UP once to increase the volume.
2. Press VOLUME DOWN once to reduce the volume.
3. Press and hold either VOLUME UP or VOLUME DOWN to increase or decrease audio volume continuously.

4.1 Audio Menu With Handheld Remote Control (Sold Separately)

When the optional remote control RF6 REMOTE KIT (sold separately) is used with the BC6 MINI several functions are unlocked. The audio DSP (Digital Signal Processor) provides preset listening experiences for different music types.

- 1. To enter audio menu, press once AUDIO button.
- 2. Each press of AUDIO button will advance to the next audio setting as described on the right.
- 3. In the audio menu, press and hold AUDIO to save and exit the audio menu back to the original mode.

If you have chosen preset equalizer (Rock, Classic, or Pop), the previous Bass & Treble settings will be overridden.



4.2 Virtual Bass (VBass) With Handheld Remote Control (Sold Separately)

Virtual Bass (VBass) boosts the bass of the audio signal using the latest DSP technology and is particularly useful when used with very small speakers to create perceived bass frequencies of a much larger speaker.

Press VBASS once on the remote control to toggle it ON or OFF.

4.3 External 12V Triggers With Handheld Remote Control (Sold Separately)

Aquatic AV understands the need for more flexible remote applications. With the BC6 MINI Aquatic AV has provided two independent 12V ‘accessory’ triggers, activated from the remote control. These could activate any 12V (3A max) based device, such as 12V lighting or 12V motors.

In any operational mode, press the 12V TRIGGER button on the remote control to activate. Press again to deactivate.

If using two external trigger wires you can also activate the second external trigger by pressing and holding the 12V TRIGGER button to activate. Press and hold again to deactivate.

Aquatic AV strongly recommend you speak to our technical service staff or your local Aquatic AV dealer if you are considering using this feature.

Load on External Trigger should not exceed 3A.

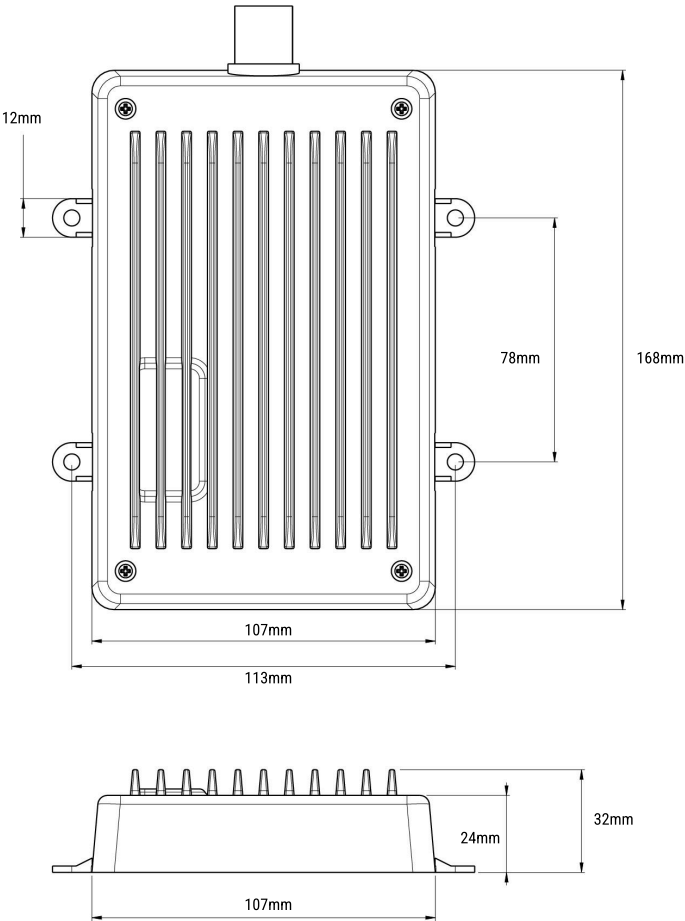
4.4 Bluetooth Halo Aerial Technology

The Bluetooth Halo Aerial Technology antenna AQ-BTANT-1 (included) improves the standard Bluetooth wireless signal and range, for a stronger signal and increased range.

5.1 Specifications

Supported Media:	Bluetooth Audio / MP3 / Aux
Power:	4x 45W (4 Ohms), 4x 72W (2 Ohms)
Inputs:	Bluetooth, 1x Stereo Pair RCA
Outputs:	1x Stereo Pair RCA (2V)
Current Draw:	7A (Max) / 6mA (Standby)
Operation Voltage:	9.6V – 14.4V DC
Water Resistant:	Yes - IP65
Salt/Fog/UV Protection:	500hrs Stable, ASTM D4329 & ASTM B117 Compliant
Materials:	Stainless Steel Mountings

5.2 Dimensions



Product Registration

Register your new Aquatic AV product in order to receive a 2-year warranty. You will need proof of purchase, such as a receipt, from an authorized dealer. Additionally, you will have to provide your contact information, the date and location of the purchase.

You can submit a Product Registration form at the Aquatic AV Support Center or through the Aquatic AV App. The app is available on the App Store for iOS devices and on the Play Store for Androids.

Warranty

Aquatic AV offers a limited warranty of our products on the following terms:

Length Of Warranty

2 years on audio systems, electronics, speakers, and accessories (receipt required).

Coverage

This warranty covers only the original purchaser of a Aquatic AV product purchased from an authorized Aquatic AV dealer in the United States. In order to receive service, the purchaser must provide Aquatic AV with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

Defective Products

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Aquatic AV's discretion.

What Is Not Covered

- Damage caused by accident, abuse, improper operations, theft.
- Any cost or expense related to the removal or reinstallation of product.
- Any product with the serial number or tamper labels defaced, altered, or removed.
- Subsequent damage to other components.
- Any product not purchased from an authorized Aquatic AV dealer.

Limit On Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Aquatic AV any other liability in connection with the sale of the product.

How To Obtain Service

You must obtain a return material authorization number (RMA) to return any product to Aquatic AV. You are responsible for shipping charges of returned products to Aquatic AV.

FCC ID:

MADE IN CHINA

FCC Statement to the User

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 of the following measures:

1. Reorient or relocate the receiving antenna.
2. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
3. Increase the separation between the equipment and receiver.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

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

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

Product design and specification subject to change without notice. E&OE.