



Ultra-3
On-wall/LCR Soundbar Speaker
OWNER'S MANUAL

Introduction

Congratulations on your purchase of RBH Ultra-3 soundbar speaker! Your speaker is the result of many years of research and development dedicated to producing high quality products for home audio systems.

This manual contains features, setup recommendations and specifications for the RBH Ultra-3 soundbar speaker. We recommend you thoroughly read through the material contained in this manual before connecting your soundbar speaker. This will ensure you have a good understanding of how to setup your soundbar speaker for optimum performance and allow for years of listening enjoyment.

Ultra-3 On-wall / LCR Soundbar Speaker

Innovative and proprietary inverted domed aluminum 4-inch woofers and aluminum tweeters with textured phase plugs make it all possible on the RBH Ultra-3 soundbar speaker.



Break-in Period

Allow 10-15 hours of listening time to adequately break-in the RBH Ultra-3 soundbar speaker. As the speaker's break-in, the driver suspension will loosen. The result of break-in will be an increase in low frequency response, improved definition, and increased clarity and detail.

Care and Cleaning

The unique grille for the Ultra-3 has been designed to be as lightweight and acoustically transparent as possible and is held in place by magnets imbedded in the frame of the cabinet. If the grille requires cleaning carefully lift the grille off the Ultra-3 soundbar speaker and lightly vacuum any dust if necessary. The Ultra-3 soundbar speaker cabinet has a durable finish that should only require dry dusting or cleaning with a dry cloth. Avoid the use of abrasive or solvent-based cleaners and harsh detergents.

Features

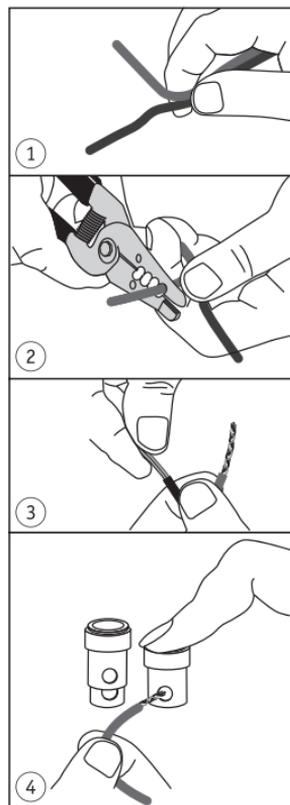
Fast to mount. Can be custom sized widths of 47 to 63 to fit most popular sized on-wall TVs. It still looks great under wider TVs as well. Contemporary design, magnetic mounted black fabric grille, and only 1-5/8-inches deep. Not plastic, it's MDF with internal bracing and sealed separate internal chambers for discreet left, center, and right channels to produce the great sound you need and expect from RBH. The end caps are MDF covered in high gloss black paint to match TV trim and bring it all together. Innovative and proprietary inverted-dome aluminum 4-inch woofers and aluminum tweeters with textured phase plugs make the thin cabinet yet big sound possible. Our ez-wire terminals and fast mounting, including direct-from-front screw-through mount holes (hidden until needed), makes the Ultra-3 soundbar speaker a joy to install. The Ultra-3 soundbar speaker provides effortless, quick, brilliant sound.

Attaching Speaker Wires

The Ultra-3 soundbar speaker uses spring-loaded speaker wire terminals to firmly hold either a pin connector or bare speaker wire. To obtain a better connection, it is important to slightly tug on the wires after they have been secured in the terminals. Since the Ultra-3 soundbar speaker contains the LEFT, RIGHT and CENTER channels, connect each one of these channels from your amplifier. Using 16-gauge or larger speaker wire, connect the RED "positive" (+) terminal of the LEFT speaker to the RED "positive" (+) terminal of your amplifier's LEFT channel. Connect the BLACK "negative" (-) terminal of the left speaker to the BLACK "negative" (-) terminal of your amplifier's left channel. Repeat for the right and the center channels.

WARNING: Make sure that no bare wires from any of the connections touch each other or any other terminals as this could cause a short and damage your equipment.

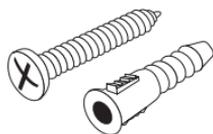
1. Remove the last 4 inches of the speaker wire jacket at end of each cable to allow easier pull-through and connection flexibility of the + and - individual wires.
2. Use a wire stripper to remove about 3/8-inch of insulation from the end of each + and - wires.
3. Twist the ends of each conductor to secure loose strands.
4. Connect the positive (+) wire to the red terminal on the front of the speaker by pressing down on the red positive (+) terminal's tab, inserting the end of the positive conductor, and releasing the tab.
5. Repeat this procedure to connect the negative (-) conductor to the black negative (-) terminal.



On-wall Installation

To mount your Ultra-3 soundbar speaker on a wall determine a suitable location and complete all wiring to the speaker location before mounting the speaker to the wall. Be sure to check for wiring and drywall screws behind planned pilot hole locations. Do not ceiling-mount. There are two mounting methods.

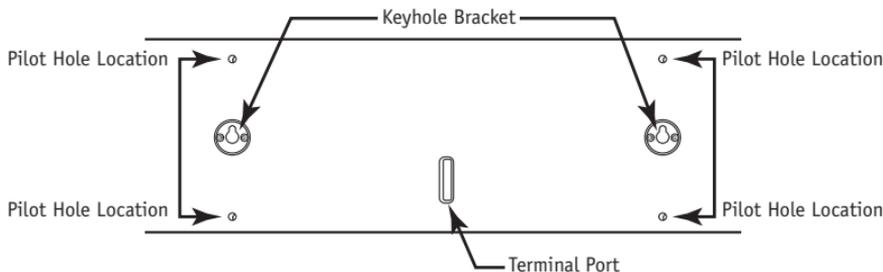
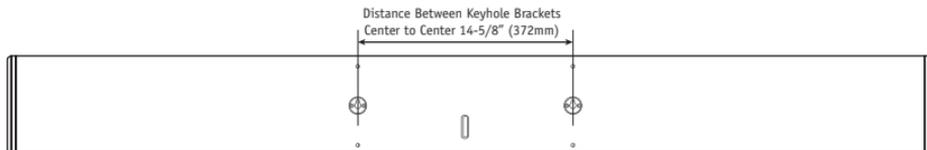
1. To Mount using the imbedded "+" round metal mounting brackets.
 - a. Use the included template and choose mount position for the speaker (horizontal or vertical). Painter tape template to wall, making sure it is level (when horizontally mounting) or plumb (when vertically mounting) and positioned correctly, centered with the TV. Mark on wall the pilot-hole locations through the template and remove template. Leave a minimum of one inch space between speaker cabinet edge and TV edge. Keep in mind that, when mounted, the speaker will "lock" into position 5/16-inch lower than where the pilot holes are drilled.
 - b. Pre-drill 1/8-inch pilot holes in marked locations. If drilling into a wall stud (ideal) it is recommended to use #10 mounting screws (included). If there is no stud where a pilot hole is located drill 1/4-inch pilot hole through drywall, install wall anchors (included) into the pilot holes.
 - c. Feed speaker wires through the terminal port from back of speaker. Gently center the rear "+" keyhole bracket on to the screw heads then push back slightly and then down to lock into position.
 - d. Attach each wire to appropriate spring-terminal binding post.
 - e. Test speaker function and attach magnetically held grille.



#10 screw (x2) and anchor (x4) for keyhole mounting. Anchor is also used for through-cabinet mounting with #8 coarse thread bugle head black drywall screw

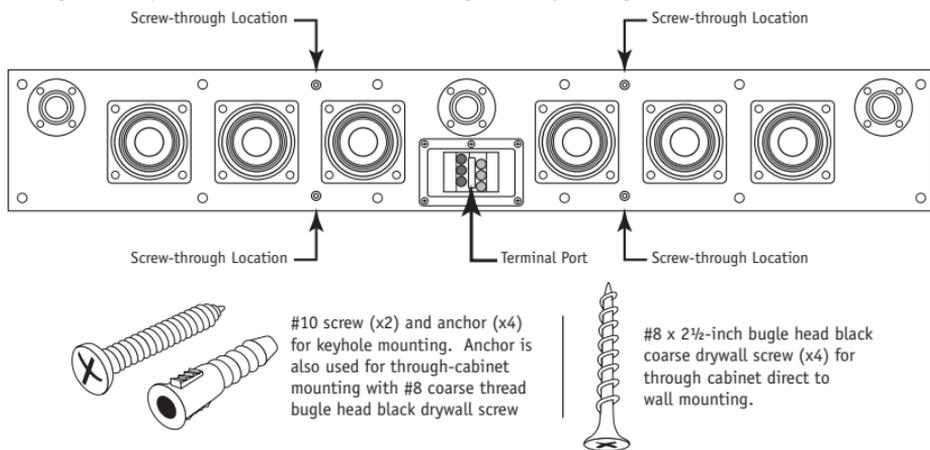


#8 x 2 1/2-inch bugle head black coarse drywall screw (x4) for through cabinet direct to wall mounting.



On-wall Installation (continued)

2. To use the “screw-through ez-mount” method, (allows for tighter fit to edge of TV).
 - a. Using finger or eraser-end of a pencil locate the covered screw-through locations and depress slightly so they can be easily located, (see drawing below).
 - b. Insert 2½-inch black drywall or cabinet screws (included) into the center of depressed locations.
 - c. Align speaker as desired. Use a level to be sure or align with edge of TV. Then slightly start each screw to mark locations on wall then reverse screws to allow removal of speaker but leave screws in the cabinet’s pilot holes.
 - d. Drill ¼-inch hole through the screw-marked locations; insert drywall anchors (included). If location happens to be a wood stud no pilot hold is needed since wall anchor will not be used.
 - e. Feed speaker wires through the terminal port from back of speaker and pull through front of terminal port then re-mount the speaker by securing the screws into the drywall anchors or stud(s).
 - f. Attach each wire to appropriate spring-terminal binding post.
 - g. Test speaker function and attach magnetically held grille.



Room Setup Suggestions

In order to obtain the best possible sound from your speaker system, it is important to determine where the Ultra-3 speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls influence the balance, imaging and overall sonic quality at the listening position. Experiment with speaker placement to determine which location offers the best overall sound. Of course, this will be dictated by the TV placement for sound-bar use. As a general guide, use the room layout diagram and the following descriptions when setting up a home theater system. Some speakers shown in the diagram on the next page may not be applicable to your individual system.

Room Setup Suggestions (continued)

The Ultra-3 soundbar speaker is designed to be used as a LCR (Left – Center – Right) speaker with flat-panel TVs such as plasma and LCD monitors. This will usually dictate placing the speakers below or above the TV.

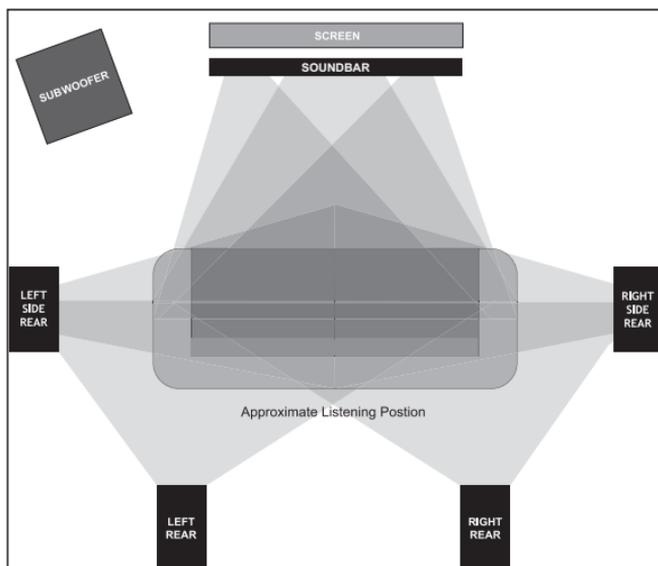
The Ultra-3 speaker sounds best when placed with the speaker's back against a wall but optional mounting to TV using our SB-39 universal brackets to accommodate articulating TV mounting brackets is also possible.

Surround Speakers

The Surround Speakers may be placed either above, behind or to the sides of the listening position. The listening position should be centered between the surround speakers. For best performance, you may want to experiment with angling the surround speakers either towards or away from the listening position.

Subwoofer

Placement of the subwoofer will largely determine quality, quantity, and extension of the bass frequencies within your listening room. Bass frequencies are reinforced by close room boundaries. Placing the subwoofer in a corner will make the subwoofer sound louder and boost the very lowest frequencies. Placing the subwoofer away from walls will provide the least reinforcement, making the bass sound subjectively thinner than if the woofer were close to a wall. Good results can usually be obtained by placing a subwoofer along a wall 1-3 feet from a corner. Experiment with subwoofer placement and the sub-amplifier controls to achieve the proper bass balance.



NOTE: There are several different surround formats available. Dolby Pro-Logic, Pro-Logic II, Dolby Digital and DTS generally have a 5 speaker plus subwoofer requirement. Dolby Digital EX and DTS ES add a center rear speaker or Dolby TrueHD and DTS Master HD which is 7.1 formats. Please consult your audio/video professional to determine which system is best for you and how many speakers you will require.

Specifications

Model	Ultra-3
Speaker Type:	On-wall/LCR Soundbar Speaker
Frequency Response:	100Hz-20kHz \pm 3dB
Sensitivity	84db (2.38V @ 1M)
Recommended Power:	20-120 Watts
Woofers:	(6) 4" (102mm) Proprietary Inverted Aluminum Cone Woofers
Tweeter:	(3) 1" (25mm) Aluminum Diaphragm Neodymium Magnet Tweeter with Textured Phase Plug
Crossover Frequency:	3,000 Hz
Crossover Slope:	12dB/Octave
Impedance:	8 Ohms x3
Finish/Color:	MDF/Matte Texture Black with High-gloss End Accent Caps
Grille Color:	Black Fabric
Dimensions:	Adjustable from 63" to 47" W x 6-11/16" H x 1-5/8 D (1600mm to 1194 mm W x 170mm H x 41mm D)
Weight:	12.5 lbs. (5.74 kg) 63" Wide 9.5 lbs. (4.30 kg) 47" Wide

Troubleshooting

Situation:	Probable Cause:	Solution:
No sound from speakers.	Speaker wire not connected. Speaker selector on amplifier is not on.	Make sure wire is connected at both the speaker and the amplifier observing proper polarity. Activate proper selector on amplifier.
No sound from one speaker.	Balance control on receiver or pre-amp is not centered. Speaker wire not securely connected.	Place balance control in the center. Check all connections at amplifier and speakers.
Very little bass and/or imaging.	Speakers are wired out of phase.	Check entire system for proper polarity and make adjustments as necessary.

Warranty

Your RBH Sound Ultra-3 soundbar speaker is covered by a limited warranty against defects in materials and workmanship for a period of 5 years from the original date of purchase.* This warranty is provided by the authorized RBH Sound dealer where the speaker was purchased. Warranty repair will be performed only when your purchase receipt is presented as proof of ownership and date of purchase. Defective parts will be repaired or replaced without charge by your dealer's store or the location designated by RBH Sound authorized to service RBH Sound products. Charges for unauthorized service and transportation cost are not reimbursable under this warranty. This warranty becomes void if the product has been damaged by alteration, misuse or neglect. RBH Sound assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

* The Ultra-3 speaker is not intended for outdoor use. If used outdoors it is at owner's discretion and this warranty is void.

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