

**SpeakerCraft®**

# OWNER'S MANUAL

# ATX100



AIM Series 2 Dolby Atmos® Enabled  
In-Wall Height Speaker

**Thank you for purchasing SpeakerCraft's AIM Series 2 Dolby Atmos® Enabled in-wall height speaker. You're in for an incredible experience. The immersive sound of Dolby Atmos® is a major advancement in home theater audio, and the ATX100 in-wall height speaker is the first available Dolby Atmos® Enabled in-wall speaker in the world.**

## **KEY ENABLING TECHNOLOGIES**

### **Dolby Atmos Enabled**

The ATX100 achieves the Dolby Laboratory requirements and performance guidelines to herald the moniker "Dolby Atmos® Enabled Height Speaker".

### **Acoustically Controlled Wave Guide**

Using sophisticated computer design, the acoustic baffle, coupled with the acoustically controlled wave guide are specifically designed to project the Dolby Atmos height cue information, up and outward onto, the home theater's ceiling surface. Delivering a predictable, repeatable, enveloping sound experience.

### **Acoustic Isolation Technology™**

Acoustic Isolation Technology is a co-molded process in the production of the speaker that adds a softer rubber compound to the mounting flange and mounting anchors of the speaker. When the speaker is installed, the softer rubber compound acts as a decoupling medium between the speaker and the surface upon which the speaker is mounted. This decoupling allows you to hear more of the actual speaker and less of the sound that normally radiates from the mounting surface.

### **Flangeless Appearance**

The paintable, low-profile, magnetically attached, speaker grille adds the finishing touch to this exceptional speaker, allowing it to effortlessly blend into its surrounding environment.

The ATX100, AIM Series 2 Dolby Atmos Enabled in-wall speaker is designed to be mounted above complimentary in-wall speakers used for the front left and right channels of a home theater system. This design creates the fundamental Dolby Atmos home system, giving your system configuration the designation with the ".2" suffix in the string of speakers in your system (5.1.2, or 7.1.2, etc.)

For an even greater enveloping sound field, additional AIM Series 2 Dolby Atmos Enabled in-wall height speakers may be added above in-wall speakers used for rear left and right channels. This design creates an expanded Dolby Atmos home system, giving your system configuration the designation with the ".4" suffix in the string of speakers in your system (5.1.4, or 7.1.4, etc.)

The AIM Series 2 Dolby Atmos Enabled in-wall speakers were designed and engineered for use with SpeakerCraft's AIM Series 2 LCR5 and Profile AIM LCR5 family of speakers. While the ATX100 can be used in conjunction with most other in-wall speakers from SpeakerCraft and other manufacturers. The ATX100 speaker is sized to match the width of all AIM Series 2 LCR5 and Profile AIM LCR5 family speakers.

When combining an ATX100 with one of SpeakerCraft's LCR5 in-wall full range speakers, SpeakerCraft offers (under separate purchase) unifying grille kits that cover both the LCR5 and the ATX100 in-wall speakers, presenting them aesthetically as a single speaker.

Unifying Grille Kits Available:

**GRLATXAIM2** – Unifying grille kit and hole cut-out template for the combination of the AIM Series 2 LCR5 family of speakers and the ATX100.

**GRLATXPROAIM** – Unifying grille kit and hole cut-out template for the combination of the Profile AIM LCR5 family of speakers and the ATX100.

*Please consult with your SpeakerCraft dealer for pricing and availability of these unifying grille kits.*

You will get the best results from the ATX100 if the room has a flat ceiling from 7 ½ feet to 12 feet high. Dolby Atmos is designed to work with ceilings as high as 14 feet. In rooms with vaulted ceilings, or ceilings higher than 14 feet, the results with Atmos will be less predictable. Not recommended for use with popcorn-style ceiling surfaces.

For additional information on Dolby Atmos, please visit [www.speakerscraft.com](http://www.speakerscraft.com) to review the article "Dolby Atmos Home Theater Overview – The Speaker Perspective". Or visit [www.dolby.com](http://www.dolby.com)

## SPEAKER PLACEMENT

If you're mating the ATX100 in-wall height speaker with any of the AIM Series 2 LCR5 or Profile AIM LCR5 full range speakers, the ATX100 should be mounted directly above the LCR5s, using a single mounting hole for both speakers. (See prior reference to optional unifying grille kits available to complete the look.)

If you're using the ATX100 in-wall height speaker with other manufacturers' in-wall speakers, mount the ATX100 in-wall height speaker above the other speakers, as close as practical, but leaving about 3 inches of drywall between the two mounting holes. In either case, remember to mount the ATX100 in-wall height speaker so their drivers point up, toward the ceiling. (Figure 1)



Figure 1

Ideally, the ATX100 in-wall height speakers should be mounted so they are between the height of a seated listener's ears and the midway vertical point on the wall (between about 3.5 and 5 feet off the floor, minimum). However, many installations do not permit this, often because the video screen is mounted high on the wall. In these cases, mount the ATX100 in-wall height speaker as low as practical on the wall, while maintaining proper aesthetics with the rest of the system. The lower the ATX100 in-wall height speaker is on the wall, the better they will be able to "bounce" sounds off the ceiling at a greater distance between the listeners and the speakers.

If you use ATX100 in-wall height speakers for both the front and rear height channels, mounting all of the ATX100 in-wall height speakers at the same height will produce the best results. (Figure 2) If the rear surround speakers are mounted high on the wall, the ATX100 could be installed underneath those speakers to achieve a better reflection distance, but keep the ATX100 above ear level.

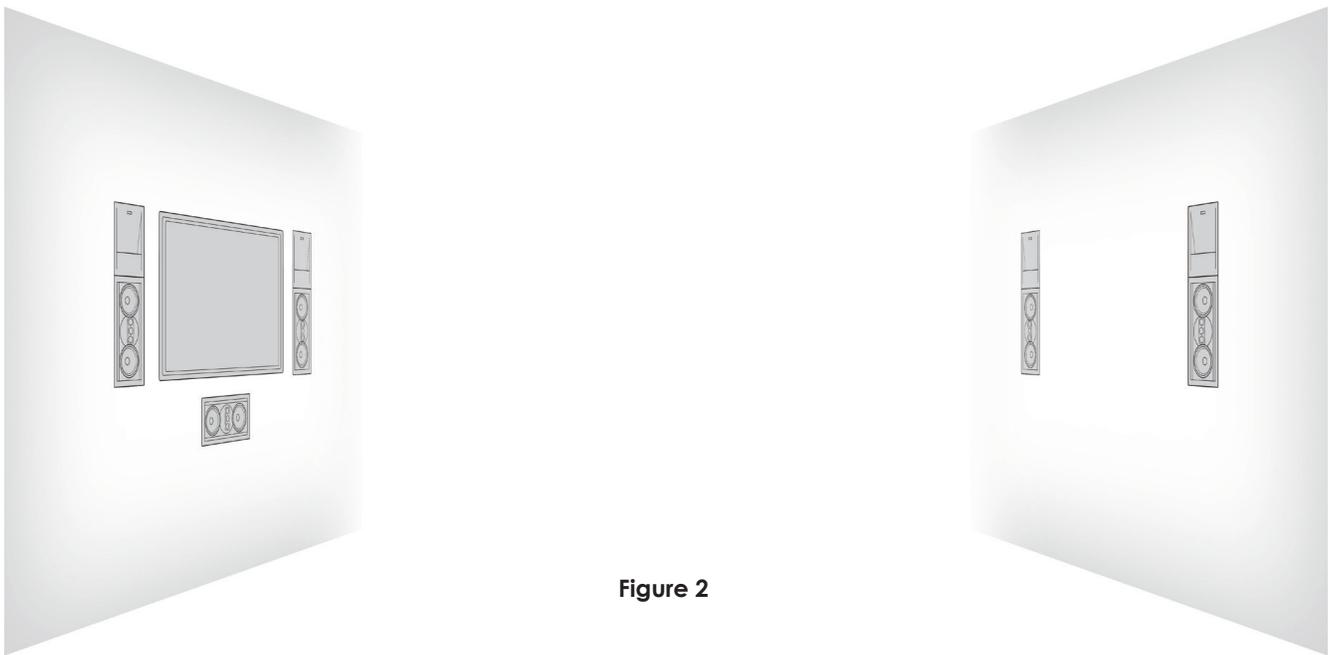


Figure 2

## INSTALLATION CONSIDERATIONS

Before installing your ATX100 height speaker into the wall, you should consider the placement carefully, taking into account the location of electrical, plumbing and other fixtures. Contact your dealer for assistance if you are not sure of the best location in your particular room environment.

## MOUNTING SURFACE PREPARATION

### New Construction – Unfinished Walls

A New Construction Bracket (part number BKTATX100, available from your dealer), may be installed prior to drywall application across studs (up to 24" on-center) where a speaker will be located. Insulation material should be in place prior to installing drywall. After the hole is cut and the drywall is installed, the speakers are then easily installed following the instructions for mounting in "Finished Walls" below.

### Finished Walls

Prior to the actual installation of the speakers, it will be necessary to run cables to the speaker locations. You will need an additional speaker cable for each ATX100 height speaker. See your dealer for more information about speaker cabling needed for your particular installation. After the cable has been properly installed, you are ready to mount the speakers. Following the simple steps listed below will result in a professional looking installation:

1. Determine the best area to mount your speakers. This area of the wall should be free of obstructions such as electrical conduit, HVAC ducts, water lines, etc. This can best be determined by noting the placement of fixtures and gaining access to an attic or crawl space for further analysis of the location of such obstacles.
2. Find the studs nearest the desired speaker mounting location. We highly recommend using a good stud-finder tool for this procedure. If you are lining up the speakers to some other object or molding in the room, make sure you consider the size of the baffle flange which extends beyond the mounting hole on all four sides.
3. Mark the hole. A template for setting the hole is provided in the box. **NOTE:** If you will be installing the ATX100 speaker in conjunction with any of the SpeakerCraft AIM Series 2 LCR5 or SpeakerCraft Profile AIM LCR5 family of in-wall full range speakers, use the correct template for that speaker combination. Both, the LCR5 and the ATX100 speakers will be mounted into the same hole. Position the template in the desired position and pencil an outline on the wall.
4. Cutting the hole. **CAUTION:** This is the most important part of the entire installation. If you are not certain whether any obstructions exist behind the desired mounting area, you should start by cutting a small hole in the center of your penciled mounting hole with a drywall saw. Cut at a 45° angle towards the inside of the hole (Figure 3). Cutting the small hole at this angle will make drywall repair much easier as the piece cut out can be installed neatly back into the hole. Once you have determined there aren't any obstructions in your desired mounting location, start cutting the finished hole at a 90° angle to the wall surface.
5. Add insulation. If the area in the wall is not already insulated, add an adequate amount of insulation material to fill the wall cavity, but avoid covering or touching the speaker with the insulation material. If the insulation material used is faced with foil or paper, position the foil or paper away from the speaker.

**CAUTION:** Speaker components can get hot while playing audio content at moderate to high volume levels. There should be nothing at all touching the speaker. Material in proximity to the back of the speaker must have a minimum 1" or 26mm clearance for non-flammable materials and more for flammable materials like plastic vapor barriers.

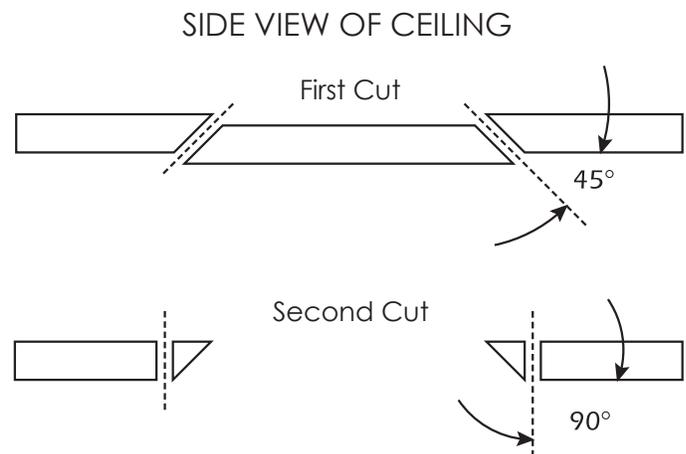


Figure 3

## SPEAKER INSTALLATION

The integral mounting system incorporated into each ATX100 height speaker allows for a quick installation by following these easy steps:

1. Remove the grille. It is attached by magnets and can be easily pulled off.
2. Attach the speaker cable (observing the proper polarity with your amplifier, + to + and – to –). Make sure the left front height channel of the amplifier is connected to the left front ATX100 height speaker, and the right front height channel is connected to the right front ATX100 height speaker. Follow the same procedure for the rear height channel speakers, if applicable.
3. Make sure the four mounting feet are turned inward to clear the opening, and insert the speaker into the wall. Position the speaker into the hole. **NOTE:** The flange of the speaker is designed to flex and conform to any small imperfections in the wall's surface. Tighten the four screws on the front of the baffle only enough to make the flange become snug against the wall. As you tighten the screws, the feet will automatically flip into an outward position (Figure 4), thereby clamping the drywall between the feet and the flange. **CAUTION:** Over tightening may warp the baffle, crack the wall, and cause the flange to distort.
4. Replace the grille. The grille is held in place magnetically, so it can simply be placed in front of the speaker and the magnets will pull it neatly into its proper place. Use the standard ATX100 grille (supplied with the speaker) if you are installing the ATX100 speaker alone.

Use one of the optional unifying combination grille kits (available separately) if installing the ATX100 with any of the SpeakerCraft AIM LCR5 Series 2 or Profile AIM LCR5 families of speakers into the same wall opening.

### The GRLATXAIM2 Grille Kit supports the following combinations:

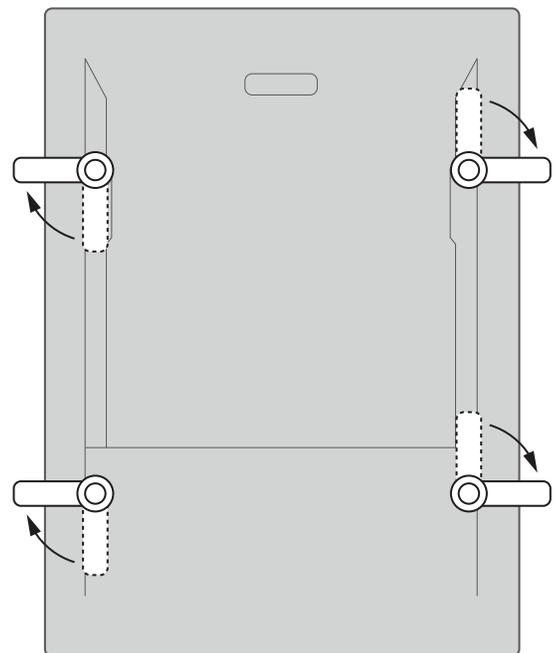
- AIM Series 2 LCR5 FIVE and ATX100 height speaker.
- AIM Series 2 LCR5 TWO and ATX100 height speaker.

### The GRLATXPROAIM Grille Kit support the following combinations:

- Profile AIM LCR5 FIVE and ATX100
- Profile AIM LCR5 THREE and ATX100
- Profile AIM LCR5 ONE and ATX100

## PAINTING THE GRILLE

If you plan to paint the speaker grille, we recommend that you paint your grille prior to installation. If you decide to paint them in the future, it is best to remove them by simply detaching them from the speaker. When painting your grille, great care should be taken not to clog the holes, as this will greatly reduce sound quality of the speaker. Before painting the grille, remove the cloth material under grille then place it back into place after painting. SpeakerCraft recommends only light spray painting using 5 parts thinning agent to 1 part paint. Do not paint the grille while attached to the speaker.



**Figure 4**

ATX100

AIM SERIES 2 DOLBY ATMOS® ENABLED IN-WALL HEIGHT SPEAKER

**SPECIFICATIONS**

|   |   |
|---|---|
| Speaker Type                                      | 2-Way Speaker Compliment in MTM (Mid-Tweeter-Mid) Alignment                 |
| Tweeter   | ¾" Custom Titanium Dome Tweeter with High Energy Neodymium Magnet Structure |
| Woofers   | Dual, 2 ½" FEA Optimized Kevlar Reinforced Pulp Mid-Range Drivers           |
| Voice Coil  | 4 Layer High Inductance Copper-Clad Aluminum                                |
| Acoustically Controlled Wave Guide                | Included  |
| Acoustic Isolation Technology™                    | Included  |
| Impedance   | 8 Ohm   |
| Sensitivity                                       | Greater than 89dB 1W/1m   |
| Frequency Response                                | 90Hz to 22kHz   |
| Power Handling                                    | 125 Watts   |
| Cut-Out Dimensions (L x H)                        | 11" x 7 ¾" (279 x 197mm)  |
| Product Dimension (L x H x D)<br>(with grille ON) | 12 ¼" x 9" x 3 15/16" (310 x 229 x 100mm)                                   |

In our attempt to constantly improve our products, features and specifications are subject to change without notice.

**LIMITED LIFETIME WARRANTY**

Core Brands, LLC ("Core Brands") warrants to the original retail purchaser only that this product will be free of manufacturing defects in material and workmanship for the following periods and subject to the limitations and exclusions set forth below:

Limited Lifetime from the date of purchase

This warranty is not transferable to subsequent purchasers of the product. To obtain warranty service, contact the authorized dealer where you purchased your product or take the unit to the nearest authorized SpeakerCraft dealer (with proof of purchase – claims made without proof of purchase will be denied) who will test the product and if necessary, forward it to Core Brands for service. If there are no authorized SpeakerCraft dealers in your area, please contact Core Brands to receive a factory Return Authorization Number. DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM Core Brands.

Upon examination, Core Brands will, at its sole option and expense, repair or replace any product found to be defective. Core Brands will return the repaired or replaced unit to you via its usual shipping method from the factory or repair center to your address in the United States of America or Canada only. Any shipping costs for addresses outside of the United States or Canada shall be the responsibility of the purchaser. In the event that this model is no longer available and cannot be repaired effectively, Core Brands, at its sole option, may replace it with a different model of equal or greater value, or refund the original purchase price paid.

THE FOREGOING ARE YOUR EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY.

This Warranty does not include service or parts to repair damage caused by improper use or handling, including but not limited to damage caused by accident, mishandling, improper installation, commercial use, abuse, negligence, or any defect caused by repair to the product by anyone other than Core Brands. This warranty does not cover reimbursement for your costs of removing and transporting the product for warranty service evaluation, or installation of any replacement product provided under this warranty.

This Warranty will be void if:

- the Serial Number on the product has been removed, tampered with or defaced.
- the product was not purchased from an authorized dealer or reseller.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES. Core Brands EXPRESSLY DISCLAIMS ALL SUCH OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, WITH RESPECT TO THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, Core Brands SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW, EVEN IF Core Brands HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Notwithstanding the above, if you qualify as a "consumer" under the Magnuson-Moss Warranty Act, or applicable state laws, then you may be entitled to any implied warranties allowed by law for the Warranty Period. Further, some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of consequential damages, so such 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.

For the name of your nearest authorized SpeakerCraft dealer, contact: CORE Brands LLC, 1800 South McDowell Blvd, Petaluma, California 94954, or call (800) 472-5555 or (707) 778-5733. With regard to sales over the Internet, please be advised that Core Brands only sells SpeakerCraft products through a select group of authorized Internet Resellers. These are listed on our website at [www.SpeakerCraft.com](http://www.SpeakerCraft.com). Products offered on the Internet through unauthorized Internet dealers are not covered by the Core Brands warranty and may be either:

- 1) goods acquired on a secondary or grey market
- 2) counterfeit or stolen goods
- 3) damaged, or defective goods

Please fill in your product information and retain for your records.

Model \_\_\_\_\_ Serial No. \_\_\_\_\_ Purchase Date \_\_\_\_\_

**ATTENTION: TO OUR VALUED CONSUMERS:**

To insure that consumers obtain quality pre-sale and after-sale support and service, SpeakerCraft products are sold exclusively through authorized dealers. This warranty is VOID if the products have been purchased from an unauthorized dealer.

SpeakerCraft offers a variety of accessories to make your installation of this and other SpeakerCraft products easy, economical, and professional. To learn more about SpeakerCraft products, technologies and specifications, go to: [www.speakercraft.com/](http://www.speakercraft.com/) or Contact your authorized SpeakerCraft Dealer for more information. For technical inquiries, please call 1-800-448-0976 or e-mail us at [techsupport@speakercraft.com](mailto:techsupport@speakercraft.com).

In our attempt to constantly improve our products, features and specifications are subject to change without notice.

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