
THE WALL
SERIES

INTRODUCTION

Given the huge success of the Bryston Model T and Model A Series loudspeakers, we are pleased to announce the introduction of the Bryston Wall series loudspeakers. The Wall series loudspeakers have the same DNA as the Model T and A series loudspeakers.

The Wall series loudspeakers will begin with the following models:

- **In-Wall and On-Wall 2-way**
- **In-Wall and On-Wall Double 2-way**
- **In-Wall and On-Wall Center**
- **In-Wall and On-Wall 3-way**
- **Outdoor 2-way**
- **Ceiling 2-way (coaxial)**
- **Mounting brackets**

Since Bryston was founded over five decades ago, our electronics have been mated with many reference quality loudspeakers from around the world. Our ongoing challenge has always been to find a loudspeaker that has both accurate reproduction and the ability to play the dynamics our amplifiers are capable of reproducing without distortion or compression.

While developing great electronics during this time, we've experienced what great audio sounds like with many of these reference quality loudspeakers. Essentially, we learned a thing or two about loudspeaker excellence. Consequently, we felt the time had come to put our experience together with **Axiom Audio** to design an affordable reference quality loudspeaker made in North America.

Considerable effort was devoted to new driver design, enclosure vibration analysis, crossover refinement, anechoic chamber testing, and countless hours of blind listening tests.

We invite you to bring your favorite music to a nearby Bryston dealer and give the Wall series loudspeakers an audition.

On-Wall Speakers

Bryston On-Wall Speakers

Are you looking for high performance speakers that don't take up any floor space or shelf space? The Bryston on-wall, speaker will blow you away with sound so detailed you'll want to listen to all your music and movies all over again.

The Bryston on-wall speakers preserve the sonic midrange and treble clarity of its bookshelf and floor standing equivalent. The Bryston on-wall is a perfect complement to today's modern low-profile plasma and LCD TV screens. Mated with a Bryston subwoofer for deep bass support, the on-wall is ideal for average-size to fairly large media rooms.

Among its innovations, each Bryston on-wall speaker includes a dedicated wall-mounting bracket that serves as the electrical connection to the speaker wire. This lets the on-Wall speaker rear baffle mount truly flush with the wall surface for a smooth, self-effacing appearance. All brackets, mounting templates and screws are included.

You'll spend hours rediscovering favorite CDs, or movie soundtracks hearing subtle details other speakers muffle. The Bryston on-wall's deliver a soundstage of unprecedented depth and width, transporting you into the performance.

This isn't your average on-wall speaker: the Bryston on-wall's deliver all the power handling you need for demanding music and movies - up to 200 watts per channel!

These eye-catching speakers are 8 ohms and therefore easy to power with any amplifier, whether solid-state or tube. The asymmetrical anti-standing-wave tapered shape of the cabinet is highly resistant to resonances that can color other speakers' sound.

You don't have to take our word for it - audition these speakers in your own home. The Bryston Wall series speakers come with a full 20-year warranty.

In-Wall Speakers

Bryston In-Wall Speakers

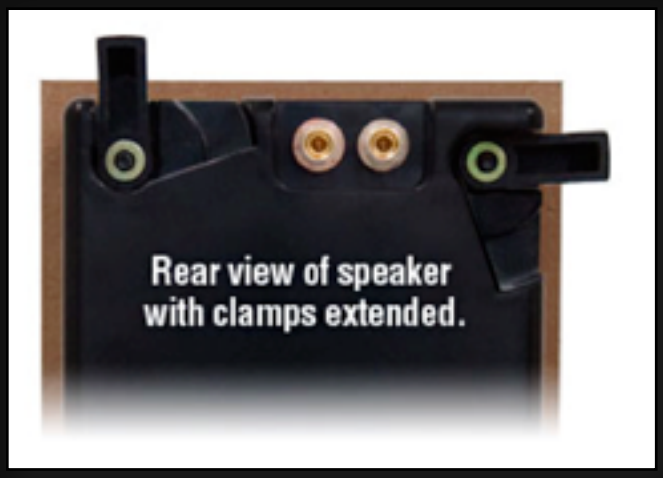
The Bryston In-Wall is ideal for customers who want hi-fidelity sound that doesn't take up any floor space. It provides the kind of transparent, neutral, wide-range sound you expect from Bryston in an almost-invisible enclosure. The Bryston in-wall speaker preserves the sonic signature of the widely praised Bryston bookshelf and floor standing equivalent, and adds a slim profile – just 5/8ths of an inch with the grille on, which is a perfect complement to today's modern low-profile plasma and LCD TV screens.

Hear the Difference

Standard in-wall speakers all have their parts slightly inset behind the wall plane. The Bryston in-walls are the opposite - their driver parts protrude slightly from the wall's surface to maintain the excellent polar response and sound power available with all Bryston speakers. The Bryston in-wall features a fully integrated enclosure that recesses into the wall, combined with an attractive small exterior baffle that keeps the speaker's woofer and tweeter away from the sound-degrading effects of the wall's front surface. This makes them the first in wall loudspeakers to have the same midrange detail and imaging as a similar bookshelf or floor standing speaker.

Easy to Install

The speaker has an efficient built-in clamping mechanism that anchors the speaker firmly to the wall or ceiling when the screws are tightened. Mount it in the wall or the ceiling - it's your choice.

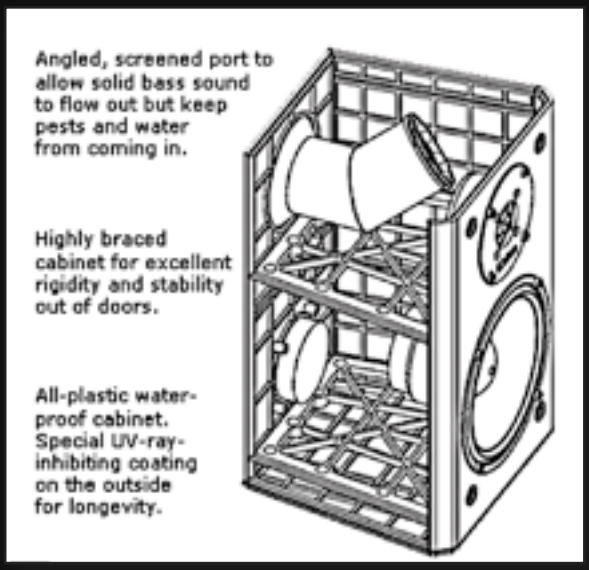


Outdoor Speakers

Bryston Outdoor Speakers

Bryston sound is now available outdoors!

Introducing the Bryston Outdoor Speaker - a waterproof speaker designed to bring high end sound to your deck, patio, poolside or dock. This is truly audiophile sound outdoors - it doesn't sound as though it's coming from under a rock {ahem} or inside a tin can. Get the same great sound as the other world famous Bryston speakers with an endless soundstage that will enliven your yard or deck.



Applicable For: Deck, patio, poolside, or dock.

- Waterproof - Not affected by rain, snow or sleet
- Painted with automotive-tough paint and topped with an extremely resilient clear coating of ultraviolet ray inhibitor that prevents sun damage to the speaker
- Specially angled and screened port that allows for high-fidelity sound reproduction with protection from pests and debris
- Plastic-covered gold-plated binding posts that won't rust
- Threaded mounting receptacles that accept most speaker brackets

Small, powerful, and authentically hi-fi, the Bryston Outdoor speakers bring crystal-clear music outside to a pool, deck, patio - wherever you choose to use them.

These handsome speakers deliver the same high-quality sound experience you've come to associate with Bryston, with solid, tight bass and detailed midrange for a great outdoors listening experience.

THE DESIGN

As with the Model T and Model A speakers, the Wall series loudspeakers were subjected to over 200 separate anechoic measurements during the design phase to ensure the highest level of reproduction accuracy. This is necessary to get the precise balance required between the direct and reflected energy in your room.

All models are a very wide dispersion design. Both the on-axis and off-axis are very linear in their own right. This ensures a very wide and balanced soundstage. The 'listening window' is an average of a front set of curves whereas the 'sound power response' is an average of all the curves right around the whole loudspeaker.

What we actually hear is heavily weighted to be a balance between these two conditions. The listening windows frequency response should be very linear (i.e. flat) across the entire audio band.

Additionally, the sound power should fall off by 8–10dB by the time it gets to 10kHz while still remaining linear in its march down from the bass frequencies.

The Drivers

Coupled with our design goal of the highest level of accuracy is also the ability for our loudspeakers to play high SPLs without distortion or compression. By using multiple drivers and working with Axiom to custom design each one, we were able to accomplish this goal. All the drivers are custom made by Axiom.

The advantage of custom made drivers, crossovers, and cabinets is the total control we have over the system design. Using off-the-shelf drivers severely restricts design options because it creates the need for compromises to be made to work with the pre-established driver characteristics. Our drivers use die-cast aluminum baskets, substantial magnet assemblies, and custom motor systems. Also, Finite Element Analysis (FEA) design software was used to optimize the design of the drivers.

Unit To Unit Matching

One of the critical requirements for creating a quality three dimensional image in your room is that each loudspeaker must be matched as closely as possible in all aspects of their performance. Unit to unit variances in performance can inhibit the sound.

For example, the ability to place instruments in the proper location and create a believable soundstage where the speakers disappear and the performance fills the room with a convincing performance. We take great care in making sure this continuity is maintained for each and every loudspeaker we manufacture.

Dynamic Compression

One of the major issues with many speakers is dynamic compression. If you hear a very loud sound such as the 1812 Overture cannon shots, there is a huge dynamic range associated with the sound. Small 2-way and 3-way loudspeakers fall short trying to recreate the huge dynamic range necessary to produce realistic sound pressure levels. One of the foremost priorities was to create speakers that could truly reproduce these real world dynamics without compression.

The Drivers

Tweeters

After evaluating several tweeter technologies including domes, horns, magnetic planars, ribbons, and ring radiators, we ultimately preferred properly executed titanium dome tweeters. The titanium dome tweeters provides the most natural sound, superb measurements, and high power handling.

Midrange Drivers

Extensive tests were performed on highly respected midrange drivers in other very expensive reference level speakers. We were able to get the most natural sounding midrange drivers using a combination of ceramic coated aluminum/magnesium cone material with robust cast aluminum speaker baskets.

Woofers

The woofers are also constructed with custom ceramic coated aluminum/magnesium cone material, extremely robust cast aluminum speaker basket, and oversized motor assembly.

Crossovers

The crossovers are specifically designed as an integral part of the overall system, controlling not just the dividing of the frequencies between the drivers but also tailoring the overall amplitude response.

Bryston crossovers are also designed to have high power-handling to integrate perfectly with Bryston amplifiers; capable of delivering real world dynamics.

The Cabinets

The cabinets are designed to reproduce extremely high SPL without introducing any cabinet resonances.

Bracing in the correct areas is critical and, contrary to popular belief, it is not a simple "more is better". All models have a complex internal cross bracing system that eliminates cascading resonances.

In addition to the complex brace design, the unique non-parallel cabinet shape also aids in eliminating resonances and internal standing waves.

The front baffle is a laminated 1.5 inch thick material to provide for ridged mounting of the multiple high powered drivers. The drivers should move, not the front baffle.

The standard vinyl wrapped finishes are:

Black Ash

Natural Cherry

Boston Cherry

Hardwood veneer finishes are also available at additional cost.

Anechoic Chamber

Our Canadian speaker design and manufacturing facility has a very unique advantage... an on-site anechoic chamber!

Anechoic chambers are reflection-free rooms that are used by the superior speaker manufacturers to do all the loudspeaker testing in an environment where early reflections and outside noise issues are eliminated from the measurements.

Anechoic chambers are extremely expensive to build. However, they are invaluable when designing a quality loudspeaker. Measurements can be made showing exactly how the on and off axis responses of the loudspeaker are performing.

The Anechoic Chamber can also be utilized for more accurate distortion detection.

Using state of the art B&K accelerometers and measurement microphones, minute levels of distortion do not go undetected.

All of our loudspeakers are meticulously designed utilizing a combination of the measurements taken in the anechoic chamber combined with results from double blind listening tests to provide our customers with as accurate a loudspeaker as is currently obtainable.

On-Wall 3-Way

Frequency Response	? Hz to 22kHz (+/-3dB)
Impedance	4 Ohms (nominal)
Sensitivity	? dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 500 watts RMS
Tweeter	1.00” (single)
Midrange	5.25” (single)
Woofer	6.50” (single)
Crossover	? Hz & ? kHz
Dimensions	?” H x ?” W x ?” D ? mm H x ? mm W x ? mm D
Weight	? lbs. (each) ? kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

On-Wall Dual 2-Way

Frequency Response	70 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	3.5 kHz Hz
Dimensions	20” H x 8.3” W x 3.6” D 508 mm H x 211 mm W x 91 mm D
Weight	11.6 lbs. (each) 5.26 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

ON-WALL 2-WAY

Frequency Response	70 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	3.5 kHz Hz
Dimensions	20” H x 8.3” W x 3.6” D 508 mm H x 211 mm W x 91 mm D
Weight	11.6 lbs. (each) 5.26 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

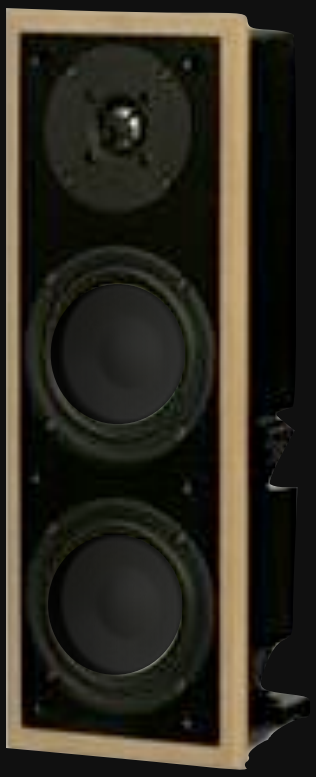
On-Wall Center

Frequency Response	95 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	2.7 kHz Hz
Dimensions	7.5” H x 17” W x 7.5” D 191 mm H x 432 mm W x 191 mm D
Weight	14.1 lbs. (each) 6.4 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

IN-WALL 3-WAY

Frequency Response	? Hz to 22kHz (+/-3dB)
Impedance	4 Ohms (nominal)
Sensitivity	? dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 500 watts RMS
Tweeter	1.00” (single)
Midrange	5.25” (single)
Woofer	6.50” (single)
Crossover	? Hz & ? kHz
Dimensions	?” H x ?” W x ?” D ? mm H x ? mm W x ? mm D
Weight	? lbs. (each) ? kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

In-Wall Dual 2-Way



Frequency Response	70 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	3.5 kHz Hz
Dimensions	20” H x 8.3” W x 3.6” D 508 mm H x 211 mm W x 91 mm D
Weight	11.6 lbs. (each) 5.26 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

IN-WALL 2-WAY

Frequency Response	70 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	89 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	3.5 kHz Hz
Dimensions (in-wall)	17.05” H x 5.71” W x 3.46” D 433 mm H x 145 mm W x 87.95 mm D
Weight	11.6 lbs. (each) 5.26 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

In-Wall Center

Frequency Response	95 Hz to 22kHz (+/-3dB)
Impedance	8 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 200 watts RMS
Tweeter	1.00” (single)
Midrange/Woofer	5.25” (dual)
Crossover	2.7 kHz Hz
Dimensions	7.5” H x 17” W x 7.5” D 191 mm H x 432 mm W x 191 mm D
Weight	14.1 lbs. (each) 6.4 kgs. (each)
Finish	Black Ash (Vinyl) Optional wood veneers & high gloss painted finishes available

Outdoor 2-Way

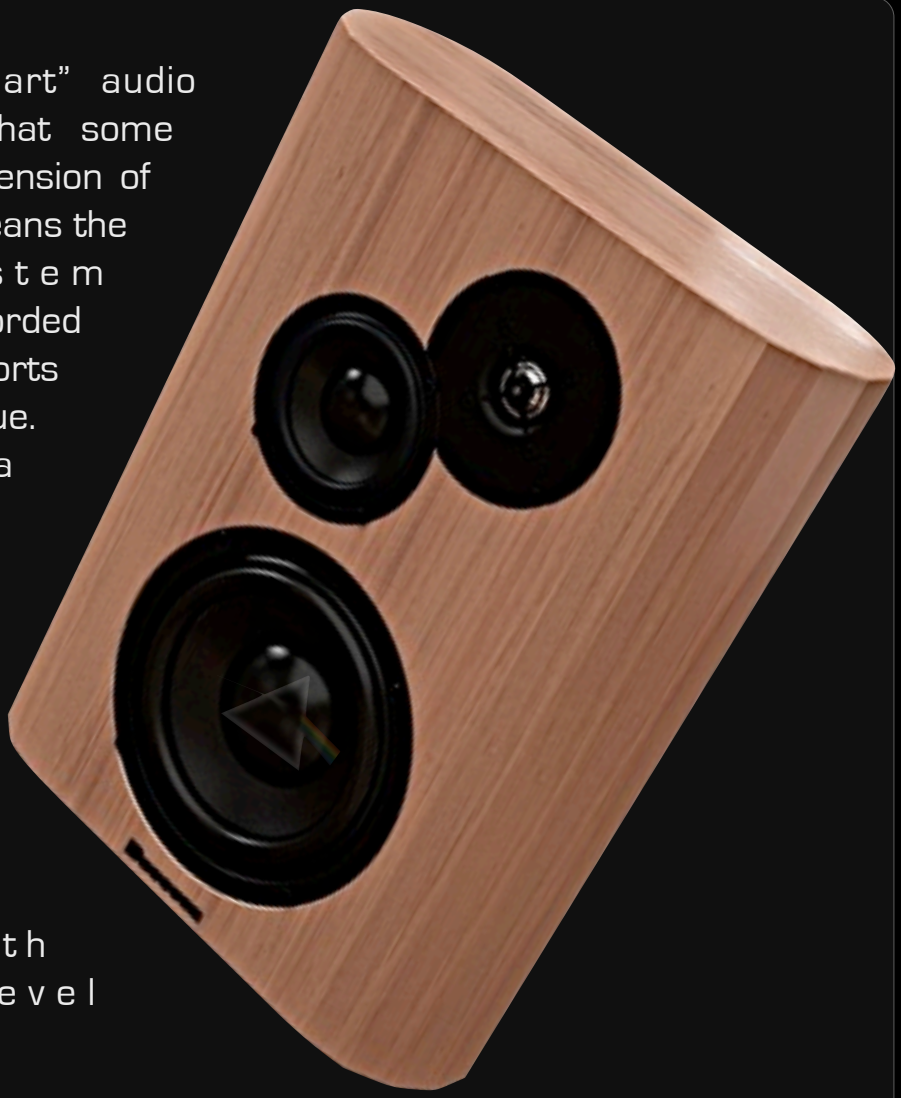
Frequency Response	60 Hz to 22kHz (+/-3dB)
Impedance	4 Ohms (nominal)
Sensitivity	88 dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 175 watts RMS
Tweeter	1.00” (single)
Woofer	6.50” (single)
Crossover	2.2 kHz
Dimensions	13.5” H x 8.5” W x 8.25” D 343 mm H x 216 mm W x 210 mm D
Weight	9.05 lbs. (each) 4.1 kgs. (each)
Finish	White or tan high gloss paint Other colors are available

Ceiling 2-Way Coaxial

Frequency Response	? Hz to 22kHz (+/-3dB)
Impedance	? Ohms (nominal)
Sensitivity	? dB SPL @ 1 meter with 1 watt (anechoic)
Recommended Power	10 watts to 75 watts RMS
Tweeter	1.00” (coaxial)
Woofer	6.50” (single)
Crossover	? kHz
Dimensions	?” H x ?” W x ?” D ? mm H x ? mm W x ? mm D
Weight	? lbs. (each) ? kgs. (each)
Finish	White or tan high gloss paint Other colors are available

Mounting Brackets

A "state of the art" audio system involves what some refer to as a "suspension of disbelief". These means the playback system transcends the recorded medium and transports you to a live venue. You forget it's a recording and believe you are there at the live performance.



Our goal with all Bryston loudspeakers is to provide our customers with a superior level of "disbelief".

Again, we invite you to bring your favorite music to a nearby Bryston dealer and give The Wall series loudspeakers an audition.

Our sincere thanks to AXIOM Audio for their indispensable assistance, without which this project would not have been possible.

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