



Outperform

*Bryston is pleased to announce the
HT Series Loudspeaker System*

BRYSTON

INTRODUCING THE BRYSTON HOME THEATER LOUDSPEAKERS

Since Bryston was founded five decades ago, our electronics have been mated with numerous reference quality loudspeakers from around the world. The 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 line of reference quality Home Theater loudspeakers made in North America.



INTRODUCING THE BRYSTON HOME THEATER (HT) SERIES LOUDSPEAKERS

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

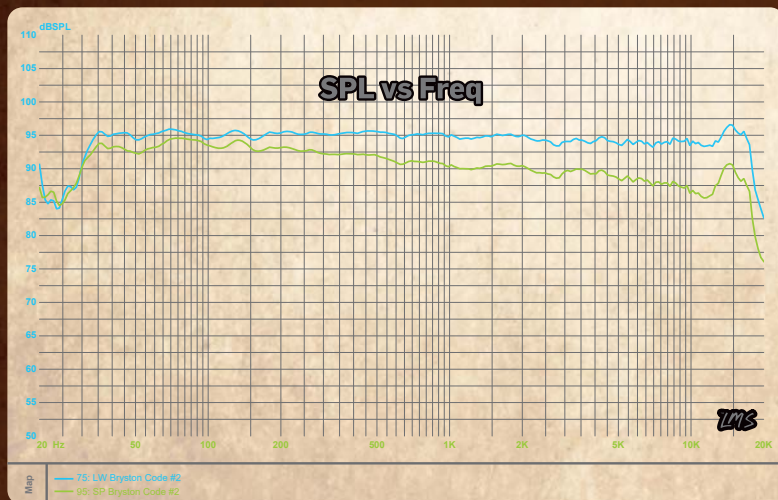
We invite you to bring your favorite music to a nearby Bryston dealer for an audition.

BACKGROUND

All of the HT 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.

The HT speakers 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 Model T.

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 (see below graph) while still remaining linear in its march down from the bass frequencies.



DRIVER TECHNOLOGY

Coupled with our design goal of the highest level of accuracy is also the ability for the HT loudspeakers to play high levels of SPL 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 dynamics range necessary to produce realistic sound pressure levels. With the Model T, one of the foremost priorities was to create a speaker that could truly reproduce these real world dynamics without compression.

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 tweeter provide 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 composite aluminum cone material with robust cast aluminum speaker baskets.



WOOFERS

The woofers are also constructed with ceramic coated composite aluminium cone material, extremely robust cast aluminum speaker basket, and powerful motor assembly.



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CABINETS

The HT 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. The HT speakers 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 rigid 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, and 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.

The HT 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.

Black Ash

Natural Cherry

Boston Cherry



MODEL T

SPECIFICATIONS

Freq. Response	25 Hz – 20 kHz (+/- 3 dB)
Impedance	4 ohms
Sensitivity	91 dB 1 watt 1 meter (anechoic)
Maximum SPL	118 dB @ 1 meter (anechoic)
Rec. Power	10 – 500 watts RMS
Tweeter	1" (x2)
Mid	5.25" (x2)
Woofer	8" (x3)
Crossover	160 Hz & 2.3 kHz
Dimensions mm	H-1334 x W-267 x D-419
Dimensions in	H-52.5 x W-10.5 x D-16.5
Weight kg	49
Weight lbs	108
Finishes	Black Ash, Boston Cherry, Natural Cherry vinyl or real wood veneers. Custom and Exotic finishes are also available.



MINI T BOOKSHELF

SPECIFICATIONS

Freq. Response	33 Hz – 20 kHz (+/- 3 dB)
Impedance	4 ohms
Sensitivity	86 dB 1 watt 1 meter (anechoic)
Maximum SPL	112 dB @ 1 meter (anechoic)
Rec. Power	10 – 250 watts RMS
Tweeter	1"
Mid	5.25"
Woofer	8"
Crossover	160 Hz & 2.3 kHz
Dimensions mm	H-571 x W-267 x D-250
Dimensions in	H-22.5 x W-10.5 x D-10
Weight kg	19
Weight lbs	42
Finishes	Black Ash, Boston Cherry, Natural Cherry vinyl or real wood veneers. Custom and Exotic finishes are also available.



MODEL T SUBWOOFER SPECIFICATIONS

Freq. Response	18 Hz – 150 Hz (+/- 3 dB)
Max SPL	108 dB @ 1 meter (anechoic)
Power	600 watts RMS
Woofer	8" (x3)
Crossover	40 Hz, 60 Hz, 80 Hz, 100 Hz, and 150 Hz
Dimensions mm	H-985 x W-267 x D-424
Dimensions in	H-38.75 x W-10.5 x D-16.75
Weight kg	48
Weight lbs	105

MINI T SUB SPECIFICATIONS

Freq. Response	25 Hz – 150 Hz (+/- 3 dB)
Max SPL	108 dB @ 1 meter (anechoic)
Power	600 watts RMS
Woofer	8" (x2)
Crossover	40 Hz, 60 Hz, 80 Hz, 100 Hz, and 150 Hz



Finishes Black Ash, Boston Cherry, Natural Cherry vinyl or real wood veneers.

MODEL TIW IN-WALL SPECIFICATIONS

Freq. Response	70 Hz – 20 kHz (+/- 3 dB)
Impedance	8 ohms
Sensitivity	87 dB 1 watt 1 meter (anechoic)
Max SPL	100 dB @ 1 meter (anechoic)
Rec. Power	10 – 175 watts RMS
Tweeter	1"
Mid	3"
Woofer	6.5"
Crossover	500 Hz & 2.3 kHz
Dimensions mm	H-356 x W-196 x D-88
Dimensions in	H-14 x W-7.75 x D-3.45
Weight kg	5
Weight lbs	11



MODEL TOW ON-WALL SPECIFICATIONS

Freq. Response	70 Hz – 20 kHz (+/- 3 dB)
Impedance	8 ohms
Sensitivity	87 dB 1 watt 1 meter (anechoic)
Max SPL	100 dB @ 1 meter (anechoic)
Rec. Power	10 – 175 watts RMS
Tweeter	1"
Mid	3"
Woofer	6.5"
Crossover	500 Hz & 2.3 kHz
Dimensions mm	H-345 x W-244 x D-91
Dimensions in	H-13.5 x W-9.5 x D-3.5
Weight kg	5
Weight lbs	11



MIDDLE T SPECIFICATIONS

Freq. Response	33 Hz – 22 kHz (+/- 3 dB)
Impedance	4 ohms
Sensitivity	88 dB 1 watt 1 meter (anechoic)
Max SPL	112 dB @ 1 meter (anechoic)
Rec. Power	10 – 250 watts RMS
Tweeter	1"
Mid	5.25"
Woofers	8" (x2)
Crossover	160 Hz & 2.3 kHz
Dimensions mm	H-1000 x W-267 x D-410
Dimensions in	H-39.5 x W-10.5 x D-16.5
Weight kg	37
Weight lbs	81



Finishes Black Ash, Boston Cherry, Natural Cherry vinyl or real wood veneers.

MODEL TC-1 CENTER SPECIFICATIONS

Freq. Response 35 Hz – 20 kHz (+/- 3 dB)

Impedance 4 ohms

Sensitivity 91 dB 1 watt 1 meter (anechoic)

Max SPL 118 dB @ 1 meter (anechoic)

Rec. Power 10 – 500 watts RMS

Tweeter 1" (x2)

Mid 5.25" (x2)

Woofer 8" (x2)

Crossover 160 Hz & 2.3 kHz

Dimensions mm H-267 x W-1003 x D-419

Dimensions in H-10.5 x W-39.5 x D-16.5

Weight kg 49

Weight lbs 108



TC-1- MINI CENTER SPECIFICATIONS

Freq. Response 40 Hz – 20 kHz (+/- 3 dB)

Impedance 4 ohms

Sensitivity 88 dB 1 watt 1 meter (anechoic)

Max SPL 112 dB @ 1 meter (anechoic)

Rec. Power 10 – 250 watts RMS

Tweeter 1"

Mid 5.25"

Woofer 8" (x2)

Crossover 160 Hz & 2.3 kHz

Dimensions mm H-267 x W-735 x D-250

Dimensions in H-10.5 x W-29 x D-10

Weight kg 25

Weight lbs 55



Custom and Exotic finishes are also available.

HOME THEATER ARRAY

LEFT SURROUND



SUB

LEFT SPEAKER



CENTER



RIGHT SPEAKER



RIGHT SURROUND



SUB

HOME THEATER MINI ARRAY

LEFT SURROUND



CENTER



RIGHT SURROUND





SUMMARY

A “state of the art” audio system involves what some refer to as a “suspension of disbelief”. This 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 the Bryston HT series 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 them 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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