

**PSB  
CUSTOM  
INSTALL  
BROCHURE**



## ABOUT LENBROOK INTERNATIONAL

Lenbrook International is a manufacturer of high performance consumer audio equipment, with distribution in over 80 countries globally. With a full range of competencies in electronics design and manufacture in its NAD Electronics brand, acoustic design in its PSB Speakers brand, wireless hi-res multi-room specialization in its Bluesound brand, and a whole-home music management software platform in BluOS, Lenbrook International is one of the most comprehensive and sophisticated houses of premium audio brands in the world.

psb  
SPEAKERS

BLUESOUND

NAD

BLUESOUND  
PROFESSIONAL

BLUOS

Lenbrook  
633 Granite Court



RESERVED  
PARKING



## TRUE-TO-NATURE SOUND

Located in Ontario, Canada, PSB has been engineering loudspeakers since 1972 and is Canada's leading manufacturer of headphones, loudspeakers and subwoofers.

Founded by Paul Barton, PSB has become an award winning company with a global following of music lovers and audiophiles alike who admire the pursuit of "True-To-Nature" sound.

In 1974, Paul met Dr. Floyd Toole, a world renowned psycho-acoustician at the NRC, who conducted numerous studies to understand how sounds were interpreted by the human sense of hearing.

What Paul immediately recognized upon listening to Dr. Toole describe his research was the formula he needed to design speakers that to the human

sense of hearing, would be organic sounding and non-fatiguing.

To Paul, who had devoted much of his childhood to become an accomplished violinist, it was a "Eureka" moment. He had long puzzled over how to consistently reproduce on a set of speakers the unique timbres of different violins exactly as they would sound to him when he played them.

Paul continues to play a key role in product development as Chief Acoustic Designer, and it's still the case that all PSB speakers are voiced in the anechoic chambers of the National Research Council (NRC) in Ottawa, Canada, thereby staying true to the brand's core values to create the most natural sounding speakers that research can yield.

## NATURAL SOUND AT AFFORDABLE PRICES

At PSB we pride ourselves on providing incredible quality and value from our loudspeakers. We use carefully engineered components and technologies to achieve stunning “True-To-Nature” sound at an affordable price.

Our range of custom install speakers are no different and we followed some key design principles in developing this range of products.

**Wide dispersion** – architectural speakers with improved off axis performance let you fill a room with sound using fewer speakers, while also reducing variances in the audio levels as you move across the room. This reduces “ceiling acne” and the cost saved in the number of speakers used can be applied to a step up in quality.

**Wide dynamic range** – No matter the listening volume, a good quality speaker will have the ability to reproduce non-fatiguing, dynamic and detailed sound. PSB speakers are able to maintain their fidelity across their output range so they never become muffled at low levels or harsh when the system is turned up a notch or two.

**Timbre matching** – It’s best practise to match the timbre of speakers across a whole home audio system. In a multi-room project, it’s common to have a mix of architectural speakers, cabinet speakers, on-wall speakers and home theatre speakers. Ideally one brand of speaker can tick most of those boxes to give the same tonality in every room. PSB manages to achieve just that.





**DISTRIBUTED AUDIO**

## CustomSound Series – 800 Series In-Ceiling Speakers

**CS AIC 860 – 6” Angled In-Ceiling Speaker** – The CS AIC 860 is not just another in-ceiling speaker. Rather, it is an angled in-ceiling speaker designed to allow the proper dispersion required to create a true three-dimensional soundstage when recessed into the ceiling. This is especially true for high performance in-ceiling stereo or home theatre applications.

**CS850 – 8” In-Ceiling Speaker** – Perfectly suited for stereo, or home theatre applications, the CS850 is capable of delivering deep, powerful bass in large rooms with an astounding level of detail. Our premium CS850 model is musical, refined, and nearly invisible. With components similar to those in our leading Imagine T3 speaker, the CustomSound CS850 can achieve higher sensitivity and lower harmonic distortion at higher playback levels than other models in the CustomSound 800 series.

**CS810 – 8” In-Ceiling Speaker** – Featuring PSB’s trademark carbon-filled polypropylene cone woofer, this two-way, in-ceiling, flush-mount speaker delivers a warm and balanced hifi sound. Thanks to the high temperature voice coil, it also offers plenty of power handling. The CS810 perfectly combines advanced PSB technology with smart aesthetics to bring you an in-ceiling speaker that is both musical and nearly invisible, perfect for home theatre or whole home audio.

**CS805 – 8” In-Ceiling Speaker** – Our entry level 203mm (8”) in-ceiling speaker is able to demonstrate the PSB signature hifi sound at a very reasonable price. Featuring a 25mm (1”) treated textile dome and 203mm (8”) polypropylene cone, which produce a wide and immersive sound with a deep bass presence, the CS805 can easily handle large room envelopes. It is a speaker which punches well above its weight, in either home theatre or whole home installations.

[For more detailed product info and specs click here >](#)

### INSTALLATION ACCESSORIES

Back-cans for the In-ceiling series speakers protect the rear of the speaker from dust and debris.

Pre-construction brackets are available for all CustomSound Series Built-In Speakers.



Back-cans



Pre-construction Bracket for CS Series



CS AIC 860 | 6” Angled In-Ceiling Speaker



CS850 | 8” In-Ceiling Speaker



CS810 | 8” In-Ceiling Speaker



CS805 | 8” In-Ceiling Speaker

## CustomSound Series – 600 Series In-Ceiling Speakers

**CS650 – 6” In-Ceiling Speaker** – Ideal in listening areas or home theatres, the premium woofer of the CS650 pays huge dividends in bass output and extension. This woofer includes a few of the tricks PSB has developed for its premium Imagine speaker range to get higher sensitivity and lower harmonic distortion at high playback levels, featuring an upgraded 1” (25mm) titanium tweeter and Wave Guide with indexed adjustment for precise directivity.

**CS630 – 6” Stereo In-Ceiling Speaker** – This excellent performer features a dual voice coil equipped version of the CS610 woofer and a pair of aluminium dome tweeters. This versatile premium speaker allows stereo sound in small spaces like bathrooms and hallways, and can also be used as surround effects speakers in home theatres. The tweeter array can be rotated after installation to get the best high frequency coverage, and like the CS650 there is a tweeter and woofer level control for final adjustment. Because there are two discrete channels, these can be wired as bipole, dipole, or even as surround rears in a 7.1 theatre!

**CS610 – 6” In-Ceiling Speaker** – This premium architectural speaker embodies over 40 years of cutting-edge research in the field of acoustics and loudspeaker design. Musical, refined, and nearly invisible, these speakers can create a beautiful ambience, even in larger spaces. Because their sonic signature is identical to other PSB speakers, these CS610’s can integrate perfectly as part of home theatres or as the soundtrack of the connected home.

**CS605 – 6” In-Ceiling Speaker** – Sharing the same tonal characteristics as its family members, this model is a wonderful introduction to PSB sound at a very affordable price. Featuring a 19mm (¾”) soft dome fabric tweeter and a 165mm (6½”) polypropylene cone, it’s well matched to offer wide and constant dispersion throughout its frequency range.

[For more detailed product info and specs click here >](#)



CS650 | 6” In-Ceiling Speaker



CS630 | 6” Stereo In-Ceiling Speaker



CS610 | 6” In-Ceiling Speaker



CS605 | 6” In-Ceiling Speaker

## CustomSound Series – Universal Speakers

Don't be restricted to your living room or den for rewarding hi-fi experiences. Enjoy every ounce of acoustic performance found in PSB's in-room speakers with the compact, all-weather CustomSound Universal/Outdoor speakers.

PSB brings its world-renowned "true-to-nature" sound quality to your outdoor living space. Engineered and designed for open spaces, and extreme climates, the **CS500 and CS100** are designed to withstand the elements and reproduce stunning sound quality.

The durable cabinets and aluminum grilles will withstand extreme temperatures, UV and salt spray, so they can be used anywhere, in any weather.

The dual axis rotational mounting brackets allow vertical or horizontal positioning with 90 and 170 degrees rotation for optimal flexibility and positioning.

All of this is achieved without any compromise on the audio quality with driver technology taken directly from our renowned cabinet speakers.

### Features

- 1" (25mm) titanium-dome ferrofluid-cooled tweeters
- Ceramic filled Polypropylene Cones
- MIL-STD-810 tested for extreme climates
- Salt fog tested for marine use
- Fully Flexible Bracket System for vertical and horizontal mounting and 2-axis rotation
- Range of Rotations – 90° in one plane and 170° in second plane
- Rubber Cover for terminals
- Highly-damped/low-resonance UV-resistant, thick-walled Polypropylene Enclosure
- Extensive internal enclosure ribbing for stiffness
- Front Facing Port and Rubber Port Plug
- Painted Aluminium Grille
- Paintable Enclosure and Grille
- Gold-plated 5-way Binding Posts
- Available in White or Black finish

[For more detailed product info and specs click here >](#)











CS 1000 | Universal Speakers




CS 500 | Universal Speakers



## CustomSound Series – Specifications

MODEL	CS605	CS610	CS630	CS650	CS805	CS810	CS850	CS860AIC
								
Frequency Response (Hz)	50-20k	50-20k	50-20k	48-20k	48-20k	48-20k	48-20k	48-20k
Sensitivity (in room) db@1m, 1 watt	87	87	87	88	87	87	88	88
Nominal Impedance (ohms)	8	6	8	6	6	6	6	6
RMS power (watts)	50	50	50	50	50	50	50	50
Peak power (watts)	100	100	100	100	100	100	100	100
Tweeter	19mm Textile Dome with Ferrofluid and Neodymium magnet	19mm Aluminium Dome with Ferrofluid and Neodymium magnet	Twin 19mm Aluminium Dome with Ferrofluid and Neodymium magnet	25mm Titanium Dome with Ferrofluid and Neodymium magnet	25mm Textile Dome with Ferrofluid and Neodymium Magnet	25mm Titanium Dome with Ferrofluid and Neodymium Magnet	25mm Titanium Dome with Ferrofluid and Neodymium Magnet	25mm Titanium Dome with Ferrofluid and Neodymium Magnet
Tweeter pivoting with waveguide	no	yes	yes	yes	no	yes	yes	yes
Tweeter attenuation +/- 3db	no	yes	yes	yes	no	yes	yes	yes
Woofer	6.5" Polypropelene cone with Foam Surround	6.5" Polypropelene cone with Rubber surround	6.5" Polypropelene cone with Rubber surround	6.5" Polypropelene cone with Rubber surround	8" Polypropelene cone with Foam surround	8" Polypropelene cone with Rubber surround	8" Polypropelene cone with Rubber surround	8" Polypropelene cone with Rubber surround
Woofer attenuation +/- 3db	no	no	yes	yes	no	no	yes	yes
Basket material	Stamped Steel	Fiber Filled Injection Moulded	Fiber Filled Injection Moulded	Fiber Filled Injection Moulded	Stamped Steel	Stamped Steel	Cast Basket	Fiber Filled Injection Moulded
Binding post type	-	-	-	-	-	-	-	-
Terminal size (max gauge)	-	-	-	-	-	-	-	12 AWG
Microperf round grille supplied	yes	yes	yes	yes	yes	yes	yes	yes
Microperf square grille supplied	no	yes	yes	yes	no	yes	yes	yes
Round grille diameter	240mm/9.45"	240mm/9.45"	240mm/9.45"	240mm/9.45"	270mm/10.63"	270mm/10.63"	270mm/10.63"	270mm/10.63"
Square grille dimension	n/a	241mm/9.5"	241mm/9.5"	241mm/9.5"	n/a	272mm/10.75"	272mm/10.75"	272mm/10.75"
Cutout size	212mm/8.375"	212mm/8.375"	212mm/8.375"	212mm/8.375"	245mm/9.75"	245mm/9.75"	245mm/9.75"	245mm/9.75"
In-surface depth	113mm/4.5"	114mm/4.55"	114mm/4.55"	114mm/4.55"	111mm/4.375"	127mm/5"	127mm/5"	127mm/5"
Weight	2.1kg/4.6lb	2kg/4.4lb	2.8kg/4.8lb	2.1kg/4.6lb	1.47kg/3.25lb	2.25kg/4.95lb	2.67kg/5.9lb	2.3kg/5.15lb
Acoustic Design	open back	open back	open back	open back	open back	open back	open back	open back

MODEL	CS500	CS1000
		
Frequency Response (on Axis @ +/- 3db)	55hz-23khz	45hz-23khz
Sensitivity (in room) db@1m, 1 watt	87	88
Nominal Impedance (ohms)	8	8
RMS power (watts)	60	75
Peak power (watts)	120	150
Tweeter	25mm Titanium Dome with Ferrofluid and Neodymium Magnet	25mm Titanium Dome with Ferrofluid and Neodymium Magnet
Woofer	5.25" Ceramic filled Polypropylene cone with Rubber surround	6.5" Ceramic filled Polypropylene cone with Rubber surround
Woofer attenuation +/- 3db	no	no
Basket material	Fiber Filled Injection Moulded	Fiber Filled Injection Moulded
Acoustic Design	Closed Cabinet	Front Ported Bass reflex
Climate Rating	MIL-STD-810, suitable for marine use	MIL-STD-810, suitable for marine use
Grille type	Painted Aluminium Mesh	Painted Aluminium Mesh
Bracket Type	Aluminium U-Bracket, 90/170 degree rotatable planes	Aluminium U-Bracket, 90/170 degree rotatable planes
Speaker Terminals	Rust Proof with Rubber protector	Rust Proof with Rubber protector
Dimensions without Bracket (W x H x D)	196mm x 248mm x 196mm	235mm x 310mm x 240mm
Dimensions with Bracket (W x H x D)	196mm x 248mm x 248mm	235mm x 310mm x 296mm
Finishes	Black or White	Black or White





**ALPHA IQ**  
POWERED BY BLUOS

## Alpha iQ Streaming Powered Speakers with BluOS

The Alpha iQ Streaming Powered Speakers with BluOS make it easy to enjoy PSB's signature "True to Nature" sound from your favorite streaming services and legacy sources—without cable clutter. The two speakers have 180W of built-in amplification and a network streamer based on the award-winning BluOS multi-room music platform.

Plug the speakers into power outlets, then connect the Alpha iQ to your home using the friendly BluOS Controller app. Now you can play music from more than 20 streaming services and share that music over your home network with up to 63 other BluOS-enabled components. In addition to Apple AirPlay 2 support and Bluetooth connectivity, the Alpha iQ has inputs for a wide array of sources, so you can connect a turntable, TV, disc player, and game console.

### Features

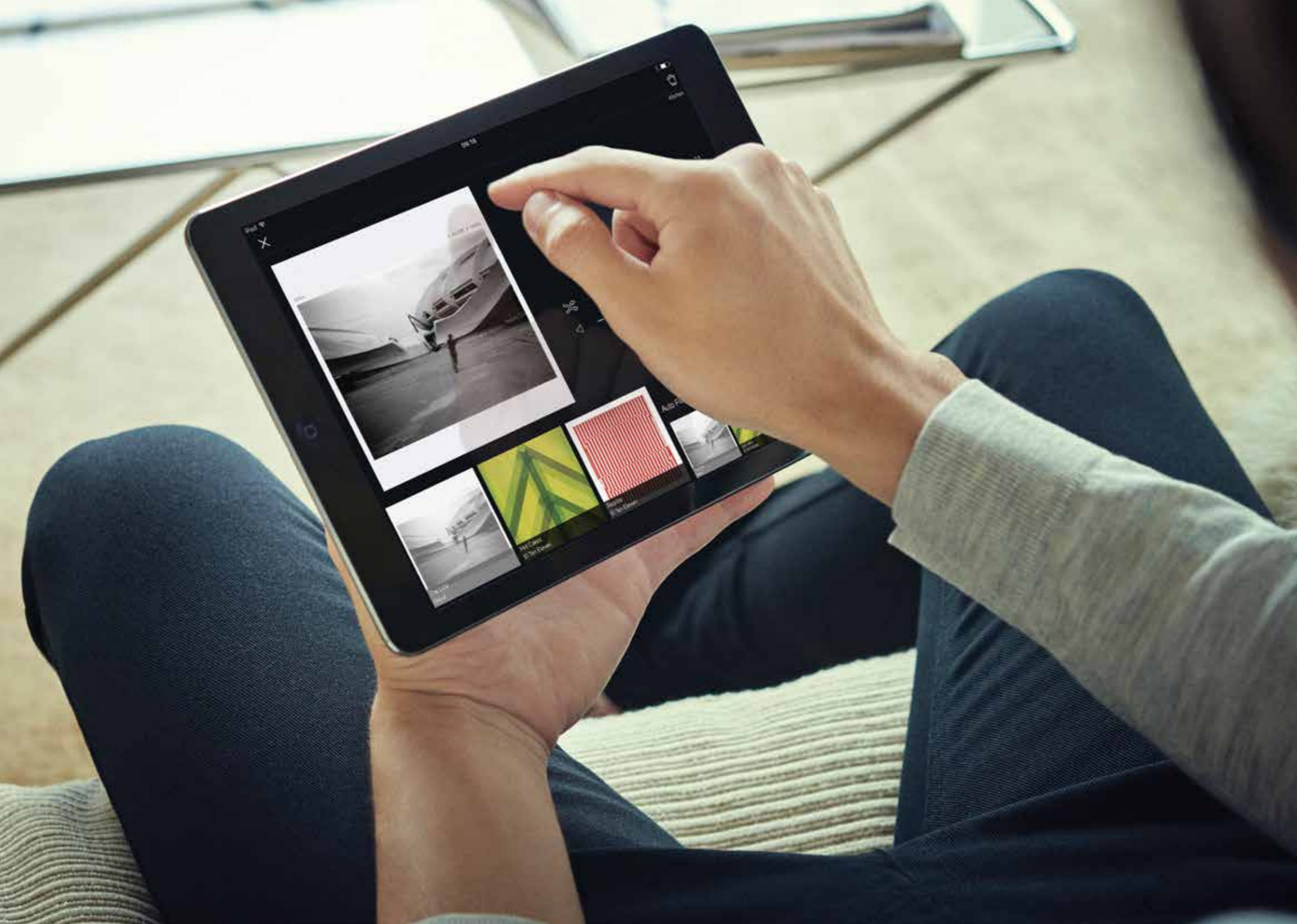
- 4" polypropylene mid-bass driver with steel basket and rubber surround
- 0.75" aluminum dome tweeter with neodymium magnet and ferrofluid cooling
- Fully active design, with DSP crossover and dedicated amplifiers for each driver: 60W for each woofer and 30W for each tweeter
- Tuned port and DSP-enabled bass extension for excellent LF performance
- Low-latency wireless connection between the primary and secondary speakers for tangle-free installation
- Ethernet, Wi-Fi, and Bluetooth connectivity
- Built-in network streamer based on the award-winning BluOS multi-room music platform
- Integrated support for more than 20 streaming services, including several that offer lossless and high-resolution audio
- Music can be played through as many as 63 additional BluOS-enabled components
- Audiophile-grade DAC with maximum resolution of 24-bit/192kHz – MQA decoding and rendering capability for high-res streaming from Tidal
- Apple AirPlay 2 support for streaming from iPhones, iPads, and Macs
- MM phono, HDMI eARC, optical, and auxiliary inputs
- USB port for connecting an external drive containing music files
- Subwoofer output with DSP-enabled low-pass and high-pass filters
- Support for Control4, Crestron, ELAN, RTI, and URC home-control systems
- IR learning capability for operating the Alpha iQ with harmonized remote controls
- Support for Alexa, Google Assistant, and Apple Siri voice control



Alpha iQ | BluOS Speakers

[For more detailed product info and specs click here >](#)





## **BLUOS - THE FOUNDATION FOR GREAT AUDIO DISTRIBUTION**

Much like the home itself, a great system design is only as strong as its foundation. When it comes to audio distribution, BluOS is the starting place.

BluOS is an operating system which entails the best in-class streaming, content acquisition, music management, and an intuitive user interface.

For over a decade, BluOS has perfected its ability to deliver multiple streams of audio content from a variety of sources across multiple zones from a wide range of hardware in perfect synch.

Capable of transmitting lossless music up to 24-bit/192kHz with no lag or loss of sound

quality across up to 64 devices on one network, BluOS acquires content from all of the most popular music services, local network music libraries as well as grouping of connected devices via Bluetooth or analog and digital connections.

A well-crafted multi-room audio solution can be as unique as the residents in the home. It offers the system designer the opportunity to demonstrate his creativity and sophistication as he tailors the system to the specifics of the client. Every great design begins with BluOS.

## LISTEN TO ALL THE MUSIC EVER RECORDED

With all BluOS enabled products, you can instantly discover and enjoy millions of songs from your existing music services, tune in to your favourite internet radio stations and podcasts from around the world, or access and listen to the music collections stored on your smartphone, tablet or laptop on any and every Player in your home. Simply tap the music you want to hear in the BluOS app, anywhere

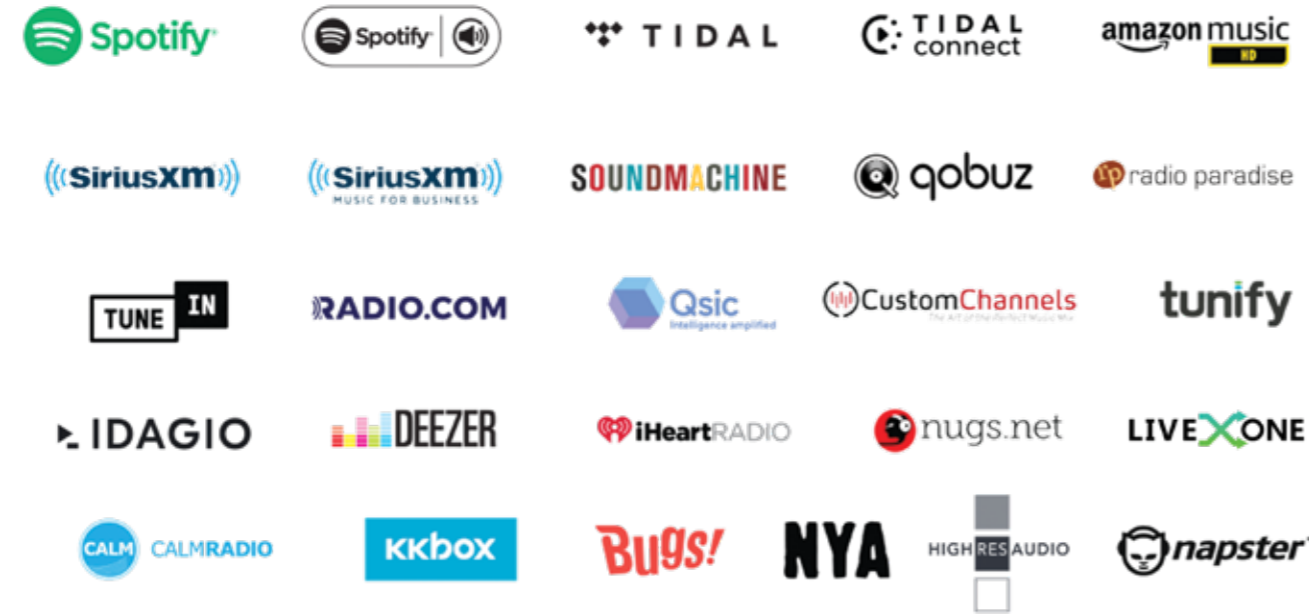
in the home, and let any BluOS Enabled product be the heart of your listening experience.

Users can access and play music via the BluOS controller app or use one of the multiple connectivity options to play direct from a streaming service app, such as AirPlay 2, Spotify Connect, Tidal Connect or Bluetooth intuitive interface.

## INTEGRATION PARTNERS

We maintain an open API and integrate with all of the main home automation brands.

Many of our 3rd party control drivers are created and supported in-house, by our own quality assurance team to ensure that they are always maintained and up-to-date with new BluOS hardware and firmware releases.



## ACTIVE MONITORS



### Active Monitors

**Alpha AM5 Powered Bookshelf Speakers** – The Alpha AM5 is a powered two-speaker stereo system that will revolutionize your traditional home audio experience. Featuring trickle-down acoustic technology from PSB's most iconic speaker designs, the AM5 powered speaker includes a custom designed driver set with a ¾" aluminium ferrofluid-cooled tweeter and a 5 ¼" midbass woofer that together deliver a rich and detailed full-range sound. You can listen to favourites on vinyl with a built-in phono preamp, or stream music and playlists with high-quality Qualcomm aptX Bluetooth. It's PSB legendary sound, for everything you listen to and enjoy.

#### Features

- ¾" Aluminium dome tweeter
- 5 ½" Polypropylene Woofer
- 2 x 50 wpc Class D amplification by NAD
- Frequency Resp: 55hz- 20kHz (cutoff 36hz @ -10db)
- Rear ported bass reflex
- Optical, USB, 3.5mm Aux in, Phono stage
- aptX Bluetooth
- Subwoofer output
- <0.5w standby
- Status LED showing power/source
- Front panel volume/source selection
- IR remote
- Wired connection between the speakers
- Matte Black or White finishes with matching metal grille

[For more detailed product info and specs click here >](#)



Alpha AM5 | Powered Bookshelf Speakers

**Alpha AM3 Powered Bookshelf Speakers** – The AM3 is a compact home music system that connects to virtually any device, wired or wirelessly, and delivers bold stereo sound for everything you enjoy, from vinyl to music streaming. Constructed with premium components and designed with decades of award-winning acoustics, the AM3 powered speakers deliver full-range sound with zero distortion thanks to their 4" midbass drivers and ¾" aluminium ferrofluid-cooled tweeters for crystal-clear highs. With a built-in phono preamp you can connect a turntable without extra components or gear, while still being able to stream music from any app or device with high-quality Qualcomm aptX Bluetooth.

#### Features

- ¾" Aluminium dome tweeter
- 4" Polypropylene Woofer
- 2 x 35 wpc Class D amplification by NAD
- Frequency Resp: 56hz- 20kHz (cutoff 40hz @ -10db)
- Rear ported bass reflex
- Optical, USB, 3.5mm Aux in, Phono stage
- aptX Bluetooth
- Subwoofer output
- <0.5w standby
- Status LED showing power/source
- Front panel volume/source selection
- IR remote
- Wired connection between the speakers
- Matte Black or White finishes with matching metal grille

[For more detailed product info and specs click here >](#)



Alpha AM3 | Powered Bookshelf Speakers



## COMPLETE A/V SOLUTIONS

All PSB Custom Series speakers are tonally matched with our traditional speaker ranges so you can mix and match our on wall, in ceiling or cabinet speakers to create the perfect bespoke audio system.

As well as speakers for distributed audio we also have a refined range of speakers which can be deployed in Media Rooms and Home Theatres.

## Performance Wall Mount Series

Today's home audio applications demand solutions which traditional designs are not able to fulfill. However, regardless of the installation, performance should never be compromised. The Performance Wall Mount Series are high performance wallmount speakers which combine installation flexibility, simple elegant design, and renowned PSB sound.

Interior designers, architects, builders and system integrators will appreciate the elegance and highest performance levels offered by the Performance Wall Mount Series. Their slim profile allows them to hug the wall and maintain a minimal visual presence.

Beyond the visual appeal and ease of application is a sonic performance which lives up to the PSB heritage. Incorporating advanced driver and cabinet design, the PWM series offer open and constant dispersion, tonal balance and bass extension of a truly refined loudspeaker many times their size.

The PWM's can be oriented either vertically or horizontally and be used as front left, right, centre or surround channel speakers. Whether as part of a complete on wall system, a basic TV application or as an on-wall centre channel solution for floor standing speakers; the PWM Series exceed expectations in every way.

### Features

- Slim Profile On-Wall speaker system
- All-new proprietary driver compliment
- Vertical or horizontal mounting options
- Wall mount bracket included
- LCR or for surround speaker application
- Design and final voicing engineered by Paul Barton
- Available in Satin White or Satin Black

[For more detailed product info and specs click here >](#)



## CustomSound In-Wall/Ceiling Speakers

PSB speakers are cherished for their True-to-Nature sound; a sound that is neither momentarily impressive, nor dulled to blend into the ambience. For 50 years, PSB's engineering team has used acoustic research and experience to cement speaker designs that sound exactly right, leaving only musical expression in their wake. With these updated in-wall designs, PSB uses high quality drivers optimized to the internal volume of each enclosure for the unique requirements of custom installation. The result is a nearly invisible presence, both visually and sonically, that redefines how music can sound in the home.

**C-LCR Angled In-Ceiling** – The C-LCR is capable of projecting a soundstage which seems to come from the video screen without giving away its location in the ceiling. It offers well-controlled directionality without introducing any harsh refraction issues commonly found in many angled in-ceiling speakers.

**W-LCR In-Wall** – The W-LCR was developed to cover several system design solutions. Designed with a highly refined driver complement, it is the in-wall centre/surround match for the Synchrony Series. Its incredible tonal characteristics and expansive dispersion make it the ideal choice for any and all channels.

[For more detailed product info and specs click here >](#)



C-LCR | Angled In-Ceiling



W-LCR | In-Wall Speaker







**SUBWOOFERS**

## CustomSound Series – In-Wall Subwoofers

**CSIW SUB10 In-wall Speaker** – Our CSIW SUB10 is an exciting, new construction subwoofer that leverages PSB’s decades of experience for the Professional CI installer. The CSIW SUB10 was created to isolate the sealed cabinet from the drywall, as well as minimize the protrusion of the grille from the surface of the drywall. This eliminates unwanted resonances for cleaner, tighter bass.

### Features

- Designed for new construction, can be mounted between standard width wall studs.
- Ultra-Slim 10” In wall subwoofer
- 25-150hz Frequency response
- 90db @1m, 1w, in room sensitivity
- 8 ohm impedance
- High excursion, shallow driver with Glass fiber / PMI
- Foam sandwich cone, dual rubber surround in a die cast basket
- Design and final voicing engineered by Paul Barton
- Ideal match with CS500W subwoofer amplifier
- Magnetic, paintable micro perforation grille. Both and round and square options supplied
- Gross Dimensions (w/o base):356mm x 600mm x 98mm (W x H x D)
- Gross Dimensions (w/ base):15¾ x 17 x 5¼” (W x H x D)
- Available in Black or White Finish

[For more detailed product info and specs click here >](#)



CSIW SUB10 | Installed Front



CSIW SUB10 | Installed Back

## CustomSound Series – In-Wall Subwoofers

**CSIW SUB28 – Dual 8” In-Wall Subwoofer** – The CSIW SUB28 is a premium in wall sealed cabinet subwoofer with dual 8” high performance drivers capable of delivering detailed low frequency performance. Equipped with heavy duty nylon dog-ears, and a magnetic small perforation grille, the CSIW SUB28 can be used in both new construction or retrofit applications. Versatile, and easy to deploy, the CSIW SUB28 is a cornerstone of hidden audio system design.

### Features

- Designed for retrofit installations, with dog-leg fixings for mounting into drywall.
- 2 x 8” woofer
- Polypropylene Cone, Long Throw Rubber Surrounds
- 25-150hz Frequency response
- 89db @1m, 1w, in room sensitivity
- 4 ohm impedance
- Design and final voicing engineered by Paul Barton
- Ideal match with CS500W subwoofer amplifier
- Magnetic, paintable mesh grille
- Gross Dimensions (w/o base):343mm x 625mm x 98mm (W x H x D)
- Gross Dimensions (w/ base):15¾ x 17 x 5¼” (W x H x D)
- Available in Black or White Finish

[For more detailed product info and specs click here >](#)



CSIW SUB28 | Dual 8” In-Wall Subwoofer

## CustomSound CSIR SUB In-Room Subwoofer

**CSIR SUB** – This In-Room Subwoofer offers several elegant and highly versatile solutions. Measuring a mere 15¾" x 15¾" x 4¾", the CSIR SUB can disappear into the décor of any room, but its stylish design is a feature in and of itself.

It can be applied in 3 distinct ways. It can be mounted on a narrow, low profile plinth and placed upright. It can also be set on its back allowing it to be tucked out of the way, behind or under furniture. It comes with a mounting bracket, enabling the subwoofer to be wall mounted to maximize floor space.

The integrated IsoAcoustics isolators manage energy and provide a high level of isolation over the entire audio spectrum. The isolators significantly reduce the transfer of resonant energy from the speaker to the supporting surface, and are aligned with the speaker's drivers to provide greater clarity and focus. IsoAcoustics innovative isolation design enhances the listener's overall experience by allowing speakers to perform at their best.

### Features

- Ultra-Slim 10" Passive In-Room Subwoofer
- Frequency: 25-150 Hz
- Sensitivity: 90 db in room
- Impedance: 8 ohm
- Three Placement Options:
  - On-Wall with supplied mounting bracket
  - On-Floor with supplied base
  - Laid on its back for under or behind furniture
- High excursion, shallow driver with Glass fiber / PMI
- Foam sandwich cone, dual rubber surround
- Renowned PSB sonic signature, well suited for either music or home theatre
- Design and final voicing engineered by Paul Barton
- IsoAcoustic isolators for improved isolation and sound clarity
- Ideal match with CS500W subwoofer amplifier
- Gross Dimensions (w/o base): 400mm x 432mm x 133mm (W x H x D)
- Gross Dimensions (w/ base): 15¾" x 17" x 5¼" (W x H x D)
- Available in Black or White Finish

[For more detailed product info and specs click here >](#)

CSIR SUB | Floor Base



CSIR SUB | On-Wall



CSIR SUB | On-Floor



## CS 500W – Digital Subwoofer Amplifier

**CS 500W** – This premium 500-watt digital subwoofer amplifier delivers ample power for up to two PSB passive subwoofers. The built-in digital signal processor (DSP) allows the installer to create several EQ settings as well as containing profiles tailored for PSB subwoofers, in home theatre or hifi applications.

The CS 500W Digital Subwoofer Amplifier features a built-in limiter circuit that filters the incoming information and keeps it from driving the subwoofer beyond safe operating parameters. It can be powered up by several means including signal sensing and 12 volt trigger. A rack mount kit enables the subwoofer amplifier to be mounted into a 1U rack space. The CS 500W gives the installer the necessary power and control to seamlessly blend subwoofers into any musical or theatre environment.

### Features

- 500-Watt Digital Subwoofer Amplifier
- Drives two passive subwoofers simultaneously
- DSP implementation of EQ calibrated speaker profiles
- DSP profile adjustments (movies, music, flat)
- Terminal block speaker connector accommodates ten-gauge speaker cable
- IR in with up to 4 selectable IR channels
- Auto on/off or 12V trigger in
- Low level inputs/outputs
- 1U rack height
- Removable rack ears and feet included
- Switchable power supply
- Detachable power cord
- <0.5W standby power consumption
- Gross Dimensions: 16 7/8 x 1 3/4 x 8 1/8" (W x H x D)

[For more detailed product info and specs click here >](#)



CS 500W | Digital Subwoofer Amplifier

## SubSeries Subwoofers

**SubSeries 450 – 12” DSP Subwoofer** – The SubSeries 450 Powered Subwoofer is PSB’s flagship audiophile subwoofer, with the highest level of bass performance to date. Using a Class D amplifier and DSP technology to bring the frequency response down to 20Hz, the SubSeries 450 can intensify the earth-rattling explosions of movie soundtracks, with accuracy and precision. It also delivers deep, detailed bass with extremely low distortion for a larger, more amphitheatre-like soundstage that lets you feel the kick of a bass drum and the heavy cinematic footsteps lurking nearby.

**SubSeries 350 – 12” Subwoofer** – The SubSeries 350 is a powered subwoofer that delivers solid, accurate bass thanks to its built-in 300-watt high-current amplifier and 12” (300mm) woofer. Employing trickle-down technology from PSB’s flagship SubSeries 450, the 350 uses a sealed cabinet design to provide short bursts of energy with little effort and improve the overall bass clarity with a smoother roll-off at the lowest frequencies. It’s also easy to integrate this compact subwoofer into existing home theatre, or hifi systems by simply connecting the sub to either the line-level or speaker-level connections and using the rear mounted controls to tailor the sound and match the SubSeries 350 with other speakers.

**SubSeries 250 – 10” Subwoofer** – The SubSeries 250 is a 10” (254mm) subwoofer that uses a 200-watt Class D amplifier with built-in DSP to add a powerful punch to your hifi or home theatre system. Designed with a high-output polypropylene woofer and smart bass limiting circuitry that prevents the sub from being overdriven, the SubSeries 250 can deliver high-powered bass with stunning accuracy at room-shaking levels all the way down to 20Hz. Thanks to its discrete compact design and low-pass crossover, this premium looking yet affordable subwoofer can easily be integrated with existing speaker systems and blend seamlessly into any room.

[For more detailed product info and specs click here >](#)



SubSeries 450 | 12” DSP Subwoofer



SubSeries 350 | 12” Subwoofer



SubSeries 250 | 10” Subwoofer

## Alpha Series Subwoofers

**Alpha S10 – 10” Subwoofer** – PSB redefined high performance and high value with their legendary Alpha Series speakers and the new Alpha S10 active subwoofer continues that tradition in the all-important bass region. Though the S10 is compact and affordable, it gets down to business for music and home theatre systems when deep bass is a must. The Alpha S10 meets the challenge featuring a long throw 10” woofer with polypropylene cone in a specially tuned bass reflex enclosure. Add DSP control and a state-of-the-art digital amplifier and the magic begins.

**Alpha S8 – 8” Subwoofer** – PSB redefined high performance and high value with their legendary Alpha Series speakers and the new Alpha S8 powered subwoofer continues that tradition in the all-important bass region. The new Alpha S8 offers a more compact footprint at an affordable price, while delivering big time for music and home theatre systems where bass is a must. The Alpha S8 meets this challenge by featuring a long throw 8” woofer with polypropylene cone (for fast response) in a specially-tuned, bass reflex enclosure.

### Features

- Specially tuned bass reflex design with rear port
- Digital amplifier 150 Watts of Continuous Power
- Compact cabinet volumes with high output
- Woofers feature polypropylene cones and rubber surrounds
- Design and final voicing engineered by Paul Barton

[For more detailed product info and specs click here >](#)








Alpha S10 | 10” Subwoofer






Alpha S8 | 8” Subwoofer




## CustomSound Series – Specifications

MODEL	C-LCR	W-LCR	PWM1	PWM2	PWM3
					
Frequency Response (on Axis @ +/- 3db)	65-23k	65-23k	50-23k (on wall)	40-23k (on wall)	35-23k (on wall)
Sensitivity (in room) db@1m, 1 watt	90	89	87	89	89
Nominal Impedance (ohms)	6	6	8	8	8
RMS power (watts)	75	100	60	100	120
Peak power (watts)	150	200	125	200	250
Peak SPL @1m	112	112	108	111	113
Tweeter	25mm/1" Titanium Dome with Ferrofluid and Neodimium magnet Midrange woofer	25mm/1" Titanium Dome with Ferrofluid and Neodimium magnet Midrange woofer	25mm/1" Titanium Dome with Ferrofluid and Neodimium magnet Midrange woofer	25mm/1" Titanium Dome with Ferrofluid and Neodimium magnet Midrange woofer	25mm/1" Titanium Dome with Ferrofluid and Neodimium magnet Midrange woofer
Midrange woofer	n/a	n/a	n/a	2 x 3" Carbon Fibre Cone	2 x 3" Carbon Fibre Cone
Woofer	2 x 5.25" Polypropylene Cone	2 x 5.25" Polypropylene Cone	2 x 4" Carbon Fibre Cone	2 x 4" Carbon Fibre Cone	4 x 4" Carbon Fibre Cone
Binding post type	Gold plated sprung binding post	Gold plated sprung binding post	Gold plated sprung binding post	Gold plated sprung binding post	Gold plated sprung binding post
Terminal size	5mm	5mm	5mm	5mm	5mm
Grille type	low profile Microperf paintable grille with scrim	low profile Microperf paintable grille with scrim	Cloth Grille (black or white)	Cloth Grille (black or white)	Cloth Grille (black or white)
Grille size	373x373mm/14.75 x 14.75"	292x624mm/11.5x24.6"	n/a	n/a	n/a
Cutout	335 x 335mm/13.25 x 13.25"	253x356mm	n/a	n/a	n/a
Height/width	n/a	n/a	711mmx165mm/28" x 6.5"	914mmx165mm/36" x 6.5"	1219mmx165mm/48" x 6.5"
Depth	196mm/7.75"	95mm/3.75"	85mm/3.5"	85mm/3.5"	85mm/3.5"
Weight	10.9kg/24lb	10.9kg/24lb	6.4kg/14lbs	9.1kg/20lbs	12kg/26.5lbs
Finishes	n/a	n/a	Satin Black/Satin White	Satin Black/Satin White	Satin Black/Satin White
Design	10L enclosed cabinet, sealed	6L enclosed cabinet, sealed	Slot Ported Bass Reflex Wall mount included	Slot Ported Bass Reflex Wall mount included	Slot Ported Bass Reflex Wall mount included

## CustomSound Series – Specifications

MODEL/TYPE	CSIW28 - retrofit in wall sub	CSIW10 - pre-con fit in wall	CSIR10 - in room passive sub
			
Frequency Response (on Axis @ +/- 3db)	25hz-150hz	25hz-150hz	25hz-150hz
Sensitivity (in room) db@1m, 1 watt	89	90	90
Nominal Impedance (ohms)	4	8	8
RMS power (watts)	40	40	40
Peak power (watts)	200	200	200
Peak SPL @1m	113	114	114
Woofer	2 x 8" Carbon Fibre Long Throw	10" Glass Fibre/PMI sandwich cone with Long throw runner surround, Blanced Drive Motor	10" Glass Fibre/PMI sandwich cone with Long throw runner surround, Blanced Drive Motor
Binding post type	Gold plated sprung	Gold plated sprung	Gold plated sprung
Terminal size (max gauge)	12AWG	12AWG	12AWG
Grille type	Paintable microperf grille with scrim	Paintable microperf grille with scrim	cloth, magnetic
Round and square grilles included	n/a	yes	n/a
Round grille diameter	n/a	tbc	n/a
Square grille dimensions	n/a	tbc	393mm x 393mm
Cutout	650mm x 350mm	300mm/11.8" diameter	n/a
Overall dimensions (H X W X D)	325mm x 630mm x 95mm	762mm x 441mm x 98mm	432mm x 400mm x 133mm
Weight	12kg/26lbs	tbc	13kg/24lbs
Design	sealed cabinet (MDF)	sealed cabinet (MDF)	sealed cabinet (MDF)

## SubSeries – Specifications

MODEL	Sub Series 250	Sub Series 350	Sub Series 450
			
Frequency Response (on Axis @ +/- 3db)	25hz-150hz	25hz-150hz	20hz-150hz
Sensitivity (in room) db@1m, 1 watt	n/a	n/a	n/a
Nominal Impedance (ohms)	n/a	n/a	n/a
RMS power (watts)	n/a	n/a	n/a
Peak power (watts)	300	400	1000
Peak SPL @1m	112	115	118
Woofer	10" Polypropylene Cone	12" Polypropylene Cone	12" Polypropylene Cone + 2 x 10" Passive radiators
Overall dimensions (H X W X D)	375mm x 345mm x 365mm	384mm x 390mm x 420mm	405mm x 400mm x 410mm
Weight	16kg/35.4lbs	19.5kg/43lbs	19.5kg/43lbs
Finishes	Gloss Black	Gloss Black	Gloss Black
Design	Sealed cabinet Auto sensing on/off Variable phase control Variable X-over control (50-350hz) Volume Control <0.5w standby	Sealed cabinet Auto sensing on/off Variable phase control Variable X-over control (50-350hz) Volume Control <0.5w standby	Sealed cabinet Auto sensing on/off Variable phase control Variable X-over control (50-350hz) Volume Control <0.5w standby





**SYNCHRONY**

## The Synchrony T600 Loudspeaker

Featuring an all-new driver platform, new enclosure and crossover designs, and integrated IsoAcoustics isolation feet, PSB's Synchrony Series is a clear expression of the acclaimed brand's "True to Nature" design philosophy.

The Synchrony T600 Premium Tower Speaker is a five-way transitional array employing three 6 1/2" woofers, a 5 1/4" midrange driver, and a 1" titanium dome tweeter, in a heavily braced, four-chamber MDF enclosure.

The Synchrony T600 is the culmination of a two-year development process. PSB's team of highly regarded acoustic specialists guided by renowned PSB Founder and Chief Acoustic Designer, Paul Barton, used a sophisticated array of tools, including laser vibrometry equipment and acoustic simulation optimization software from Denmark's Loudsoft Ltd. That software enabled them to model cone, motor, crossover, and enclosure behavior. As with every PSB speaker ever made, prototypes were measured in the anechoic chamber of the world-famous Acoustics Lab of the National Research Council in Ottawa, Ontario, Canada. Data from these tests were correlated with extensive subjective listening tests.

The result is a speaker with superb tonal accuracy, thrilling dynamics, impactful bass, transparent midrange, pinpoint imaging, and exquisite micro-detail — in short, sound that is True to Nature.

### Features

- 3 x 6 1/2" woofers and 1 x 5 1/4" midrange driver with woven carbon fibre cones, cast aluminum baskets, mass-loaded rubber surrounds, and advanced motor structures
- 1 x 1" titanium dome tweeter with Ferrofluid damping and neodymium magnet
- Amplitude-perfect Linkwitz-Riley 4th-order acoustic crossover
- Low-resonance cabinet design with aluminum-clad front baffles and individually-tuned chambers with rear-firing ports for each woofer
- Individually-tuned chambers with rear-firing ports for each woofer
- Five-way transitional array design that randomizes the floor bounce
- Outrigger stabilizers with integrated IsoAcoustics isolators
- Satin Walnut Veneer and High Gloss Piano Black with acoustically transparent, magnetically attached grilles

[For more detailed product info and specs click here >](#)

T600 SYNCHRONY | Tower Speaker



## The Synchrony B600 Bookshelf

When he founded PSB Loudspeakers in 1972, Paul Barton had a key guiding principle: he wanted to design speakers that are True to Nature. PSB's new Synchrony Series is the clearest expression yet of that philosophy.

The PSB Synchrony B600 Premium Bookshelf Speaker is a two-way bass-reflex design, featuring an all-new driver platform, new crossover and enclosure designs, and built-in IsoAcoustics isolators.

Like every PSB model ever made, the Synchrony B600 was voiced at the world-famous acoustics lab of the National Research Council in Ottawa, Ontario, Canada. In addition to measuring loudspeaker performance in the NRC's anechoic chamber, PSB used advanced tools such as scanning laser vibrometer, finite-element analysis, and electro-acoustic computer modeling during the Synchrony Series' two-year development process. The engineering team led by Paul Barton correlated this data with extensive subjective-listening tests.

Combined, these refinements deliver significant audible benefits: higher maximum output, greater dynamic capabilities, more impactful bass, more transparent midrange, and enhanced micro-detail — in short, sound that is True to Nature.

### Features

- 1 x 6 1/2" woofer with woven carbon fibre cone, cast aluminum basket, mass-loaded rubber surround, and advanced motor structure
- 1 x 1" titanium dome tweeter with Ferrofluid damping and neodymium magnet
- Low-resonance MDF cabinet with extensive bracing and decoupled aluminum-clad front baffle
- Amplitude-perfect Linkwitz-Riley 4th-order acoustic crossover
- Integrated acoustic isolators from IsoAcoustics
- Satin Walnut Veneer and High Gloss Black with acoustically transparent magnetically attached grilles
- Optional custom-fitted 24" B600 speaker stands

[For more detailed product info and specs click here >](#)

B600 SYNCHRONY | Bookshelf Speaker







IMAGINE SERIES

## IMAGINE T65

The T65 is the flagship floorstanding 3-way tower speaker of the Imagine Series, striking an ideal balance between advanced technology, sleek design, and incredible performance. Its driver complement includes a 1" tweeter, 5.25" midrange and dual 6.5" woofers. The T65 features a 3-way dual bass reflex design with dual rear slot ports akin to the PWM Series and individually tuned woofer chambers. The result is its remarkable ability to dive deeper into low frequencies and play at louder output levels than any of its Imagine Series counterparts.

### Features

- Dual, 5-way Gold-plated Binding Posts
- Bi-wireable/Bi-ampable, Rear facing slot ports
- Aluminum outrigger Bars and Spikes
- Gold-plated Jumpers
- Satin Black and Satin White Finish

[For more detailed product info and specs click here >](#)

IMAGINE T65 | Tower Speaker



Satin Black

Satin White

## IMAGINE T54

Deceptively slim and unassuming, the Imagine T54 floorstanding tower speaker boasts a meticulously crafted 1" tweeter, 4" midrange, and dual 5.25" woofers. Adopting the 3-way dual bass reflex design of the T65, along with dual rear-facing slot ports and individually tuned woofer chambers, the T54 defies its compact size, offering an expansive bandwidth and impressive SPL output capabilities for an immersive listening experience.

### Features

- Dual, 5-way Gold-plated Binding Posts
- Bi-wireable/Bi-ampable, Rear facing slot ports
- Aluminum outrigger Bars and Spikes
- Gold-plated Jumpers

[For more detailed product info and specs click here >](#)

IMAGINE T54 | Tower Speaker



Satin Black

Satin White

## IMAGINE B50

The Imagine B50 bookshelf speakers harmonize a 1" tweeter, and 5.25" woofer within a compact footprint. Featuring a 2-way bass reflex design and rear-facing slot port, these speakers envelop any space in harmonious true-to-nature sound and unexpectedly powerful bass. Enhance your setup by pairing them with the optional AST-25 floor stands.

### Features

- Dual, 5-way Gold-plated Binding Posts
- Bi-wireable/Bi-ampable, Rear facing slot ports
- Aluminum outrigger Bars and Spikes
- Gold-plated Jumpers

[For more detailed product info and specs click here >](#)

IMAGINE B50 | Bookshelf Speaker



Satin Black

Satin White



**ALPHA SERIES**

## Alpha Series

**PSB T20 Tower Speakers** – delivers the highest quality acoustics in the Alpha Series of Speakers and will easily fill any size room with lush, full-bodied sound. Leveraging the latest research in acoustic design and the most advanced cabinet and driver technologies, the all-new Alpha tower has dual custom 5¼” (133mm) woofers, while utilizing the Alpha Series’ patent tweeter and crossover design, to deliver bigger and bolder sound with flawless imaging. The new T20 tower is the perfect start to creating the ultimate affordable surround, or stereo system.

### Features

- ¾” (19mm) Black anodized aluminium dome tweeter with front waveguide
- Two 5¼” (133mm) Textured polypropylene woofers with rubber surround
- Bass reflex cabinet design with a rear-firing port
- Available in Black Ash Woodgrain and Dark Walnut Woodgrain Finish

**Alpha C10 – Centre Channel** – Leveraging the Alpha’s classic award-winning design, yet reimagined for the modern home theatre, the C10 is a must for a more immersive experience whether you’re streaming a movie, watching the big game, or enjoying your favourite show. With a black anodized aluminium dome tweeter, two 5¼” (133mm) custom woofers, and a rear-firing port, the affordable C10 delivers crystal-clear dialogue and cinematic sound that will bring movies to life. The high-quality MDF cabinet is finished in a beautiful woodgrain vinyl and can easily be set up under a TV for seamless integration with your home sound system no matter how you listen.

### Features

- ¾” (19mm) Black anodized aluminium dome tweeter with front waveguide
- Two 5¼” (133mm) Textured polypropylene woofers with rubber surround
- Available in Black Ash Woodgrain and Dark Walnut Woodgrain Finish

[For more detailed product info and specs click here >](#)



Alpha T20 | Tower Speaker



Alpha C10 | Centre Channel

## Alpha Series

**Alpha P5 Bookshelf Speaker** – The P5 bookshelf speaker is a classic two-way design that can be placed on a stand, a shelf, a desk, or a table and is equally well-suited for home theatre or stereo listening. A timeless design featuring a 5.25” woofer, the P5 allows you to transform your system with pristine sound. The P5 uses a 0.75” black anodized aluminium dome tweeter to extend the high-frequency response further than any Alpha ever before while lowering distortion to deliver layered sound with detail and clarity. Available in choice of simulated Walnut or Black Ash, the P5 delivers outsized performance compared to its nearest competitors. Simply add a subwoofer (for even deeper bass) and/or other Alpha models for an awesome home theatre experience.

### Features

- ¾” 19mm Aluminum Dome tweeter with Neodymium magnet
- Woofer with Polypropylene Cones and Rubber Surrounds
- 5-Way, Gold-Plated Binding Posts
- Available in Black Ash Woodgrain and Dark Walnut Woodgrain Finish

**Alpha P3 Compact Bookshelf Speaker** – The Alpha P3 is a small two-way bookshelf speaker that brings hifi pedigree to your stereo or home theatre system to fill the room with crystal-clear sound. Featuring a custom 4” (102mm) woofer and aluminium dome tweeter that uses a waveguide to perfectly match the low and high frequencies for a smooth transition, the P3 delivers natural sound, at an affordable price. It also leverages specially textured woofer cones and a unique port tube design to add back energy and extend the bass frequencies even lower without any distortion.

### Features

- ¾” (19mm) Black anodized aluminium dome tweeter with front waveguide
- 4” (102mm) Textured polypropylene woofer with rubber surround
- Bass reflex cabinet design with a rear-firing port
- Available in Black Ash Woodgrain and Dark Walnut Woodgrain Finish

[For more detailed product info and specs click here >](#)



Alpha P5 | Bookshelf Speaker



Alpha P3 | Bookshelf Speaker

# A COMPLETE INSTALLED AUDIO SOLUTION

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## HOME THEATRE

## OUTDOOR

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ALPHA AM3



ALPHA AM5



ALPHA iQ

### Traditional



ALPHA Series



IMAGINE Series



SYNCHRONY Series

### Custom Series



In-Ceiling Speakers



Universal Speakers



In-Ceiling/In-Wall Speakers

### Subwoofers



CS500W



CSIW28

CSIW10

CSIR



Alpha S8



Alpha S10



SubSeries 250

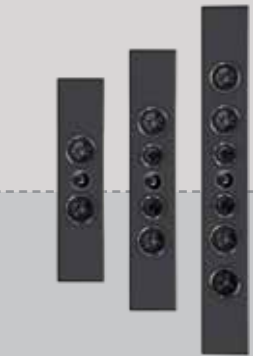


SubSeries 350



SubSeries 450

### AV



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