

**psb**  
**SPEAKERS**

Imagine



# Imagine X



## The Essentials

True-to-nature sound is the design goal of all PSB Speakers. Imagine X brings a new level of realism to these affordable speakers applying the latest speaker materials and technology to PSB's most popular models. PSB's designers focused on simplicity—distilling sound to its purest essence—in order to bring listeners the experience that they really love.

## Acoustic Research Makes the Difference

Through many years of research at the National Research Council Canada (NRC), home to one of the world's most advanced acoustical laboratories, our design team at PSB Speakers has learned not only what people love to hear, but also how they hear it in a room. Critical to the Imagine X design is this research into human perception of sound using double-blind listening tests. Double-blind testing removes any listener bias to give us the most accurate test result. It allows PSB to understand what is most important to listeners and allows us to create the ideal blend of performance and price for every application.

In 1974, we were the first company to use the NRC for loudspeaker development and we remain the most active user of the facility today. Our experience with the NRC, how we interpret the data and implement it into the design of our Imagine X speakers, sets us apart from other speaker manufacturers. It has allowed us to focus on our primary goal—delivering real sound for real people.

## Real Sound for Real People

Four models, one objective: to reproduce the most accurate sound available for the money. Imagine X models are all carefully matched in timbre, giving you flexibility to combine any of the models to work together in many different rooms and system setups.



## IMAGINE X2T

This slim floorstanding model borrows many design innovations from our multiple award-winning Imagine T2 model, yet costs only one third as much! Much of the cost savings come from a simplified cabinet design, but other advancements have allowed us to bring a new level of performance to this price range.

## Extended Bass Response that's Fast and Articulate

Each 6 1/2" woofer has its own separate acoustic chamber tuned with a front-facing port to achieve incredible control and spatial, dynamic sound quality. Dividing and individually porting the chamber eliminates standing waves inside the X2T's tall, slim speaker cabinet. The placement of the woofers in multiple positions also reduces the first reflection phenomenon, minimizing the negative effects of the primary 'floor bounce' reflections, creating a much more accurate and tuneful bass performance. The result being low distortion bass response that speaks with powerful authority.

## Our Ears are Most Sensitive to the Midrange Frequencies

The Imagine X2T is a true three-way speaker that utilizes a separate midrange driver in its own tuned enclosure for ideal dispersion and low distortion at high SPLs. The all-new driver is designed specifically for the Imagine X2T. Featuring an injection-moulded poly-filled carbon fibre cone, the 5 1/4" midrange driver features a novel shape and filleted surround to optimize the reproduction of voices. The narrow cabinet design contributes by preventing diffraction effects that can create early acoustic reflections that colour the sound of voices and instruments.

## Pure Titanium Tweeter Dome for Extended High Frequencies

The one-inch dome combines a high stiffness-to-mass ratio for ultra-fast transients and extended response without breakup until well beyond audibility. The high temperature voice coil with ferrofluid cooling allows for high SPL output without compression, and the rare-earth neodymium motor magnet gives high sensitivity and accurate response at the lower end of its response range. A carefully engineered phase plug (the little plate in front of the dome) extends high frequency response and helps control the inevitable high frequency breakup mode while protecting the delicate dome from prying fingers.



"By conducting carefully controlled blind speaker tests, then measuring all the speakers to see what sonic characteristics appealed to the listeners in the tests, we were able to figure out what matters and what doesn't."

- **Paul Barton**, Founder and Chief Designer

### IMAGINE X1T

A deceptively slim and discreet floorstanding design, the Imagine X1T has wide bandwidth and high SPL output capabilities that defy its modest size. This dual-woofer transitional two-and-a-half way design features identical 5 1/4" woofers that work in tandem at the lowest frequencies but crossover at different frequencies to integrate better with room acoustics and give the optimum dispersion and power response. Like all Imagine woofers, the cone materials have been carefully engineered for optimal control, allowing for a simpler, more cost effective crossover design.

With the Imagine one-inch pure titanium dome tweeter, the Imagine X1T delivers refined sound with tonal, spatial and dynamic accuracy.



### IMAGINE XB

The Imagine XB is an attractive compact two-way speaker system featuring a 5 1/4" woofer and one-inch titanium dome tweeter. The Imagine XB shares the injection-moulded, clay/ceramic reinforced polypropylene designs of the Imagine X towers with dual magnet and rubber surround. The critically tuned cabinet employs a rear-facing port for high sensitivity and extended bass response. The XB is ideal for smaller rooms or in concert with a powered subwoofer for a compact full-range system. The perfect timbre match with the X1T and X2T towers also make the XB a great choice for surround channels in home cinema installations.



### IMAGINE XC

As a two-way system in a dual-woofer horizontal format with a pair of 5 1/4" woofers, this centre channel is engineered to maximize performance in multi-channel systems. Its clean lines and slim cabinet design will suit today's ultra flat TVs. We matched this carefully in timbre with the other Imagine X models for ultimate flexibility when setting up your home cinema system.

## Home Theatre Xcitement

An Imagine X home theatre system meets the demands of your high-performance multi-channel setup with exceptional sound and uncompromising value. Select either the Imagine X2T or X1T towers along with the XB as rear channels, and the XC centre, for startlingly rich, detailed, and cinematic sound. Just add one of PSB's award-winning SubSeries subwoofers and you get big impact on your sound, but not your budget.



A titanium dome tweeter with ferrofluid and neodymium magnet structure is common to all Imagine models. The consistency and quality is rare at this price range, and helps to extend output at both frequency extremes for effortless top octaves and smooth, uncoloured response. This tweeter platform is a direct descendant from our top PSB models.

The Imagine X baffles are extremely rigid thanks to 30mm/1 1/4" thick MDF. The satin lacquer finish complements the crisp, clean lines and slim cabinets to integrate seamlessly with any decor.

Imagine X proprietary injection-moulded clay/ceramic reinforced polypropylene cones have been refined to improve stiffness, internal damping, and low mass. By optimizing the control and performance, the PSB engineering team was able to reduce the complexity of the crossover design.

All Imagine X models feature sturdy five-way gold-plated binding posts that can accept bare wire, lugs, banana plugs, open and closed spades. The X1T and X2T terminal cups are bi-wireable/bi-ampable.



	Imagine X2T Tower	Imagine X1T Tower	Imagine XB Bookshelf	Imagine XC Centre
<b>Frequency Response</b>	(Anechoic Chamber)			
On Axis @ 0°±3dB	30-23,000Hz	35-23,000Hz	55-23,000Hz	50-23,000Hz
On Axis @ 0°±1 1/2dB	40-20,000Hz	48-20,000Hz	70-20,000Hz	65-20,000Hz
Off Axis @ 30°±1 1/2dB	45-10,000Hz	48-10,000Hz	70-10,000Hz	65-10,000Hz
LF Cutoff -10dB	28Hz	30Hz	50Hz	45Hz
<b>Sensitivity</b>	(1W (2.83V) @ 1M, IEC-Filtered pink noise, C-weighted)			
Anechoic Chamber	88dB	88dB	87dB	88dB
Listening Room	90dB	90dB	89dB	90dB
<b>Impedance</b>				
Nominal	8 Ohms	8 Ohms	8 Ohms	8 Ohms
Minimum	4 Ohms	4 Ohms	4 Ohms	4 Ohms
<b>Input Power</b>	(RMS, Clipping <10% Time)			
Recommended Program	20 - 200 Watts 200 Watts	20 - 200 Watts 200 Watts	20 - 150 Watts 150 Watts	20 - 150 Watts 150 Watts
<b>Acoustic Design</b>				
Tweeter (Nominal)	1" (25mm) Titanium Dome with Ferrofluid Neodymium Magnet	1" (25mm) Titanium Dome with Ferrofluid Neodymium Magnet	1" (25mm) Titanium Dome with Ferrofluid Neodymium Magnet	1" (25mm) Titanium Dome with Ferrofluid Neodymium Magnet
Midrange (Nominal)	5 1/4" (133mm) Injection-moulded Fibre reinforced Polypropylene Cone Rubber Surround Dual Magnet			
Woofers (Nominal)	2 x 6 1/2" (165mm) Injection-moulded Clay/Ceramic reinforced Polypropylene Cone Rubber Surround Dual Magnet	2 x 5 1/4" (133mm) Injection-moulded Clay/Ceramic reinforced Polypropylene Cone Rubber Surround Dual Magnet	5 1/4" (133mm) Injection-moulded Clay/Ceramic reinforced Polypropylene Cone Rubber Surround Dual Magnet	2 x 5 1/4" (133mm) Injection-moulded Clay/Ceramic reinforced Polypropylene Cone Rubber Surround Dual Magnet
Crossover	2,200Hz, LR4, 500Hz, B3	1,800Hz, LR4, 800Hz	1,800Hz, LR4	1,800Hz, LR4
Internal Volume	1.93 cu ft (54.7L)	1.42 cu ft (40.2L)	0.32 cu ft (9.1L)	0.58 cu ft (16.4L)
Design Type	3-Way Sealed Mid-Range Chamber Dual Port Bass Reflex	Bass Reflex Front Port	Bass Reflex Rear Port	Bass Reflex Rear Port
<b>Size (W x H x D)</b>	(Gross Dimensions)			
	9 x 40 1/8 x 17 5/8" ** 227 x 1036 x 446mm Spikes add 1" (25mm)	8 1/4 x 34 1/2 x 15 5/8" ** 208 x 874 x 395mm Spikes add 1" (25mm)	6 3/4 x 12 x 10 3/4" ** 170 x 302 x 271mm	19 1/8 x 6 3/4 x 11 1/8" ** 485 x 170 x 280mm
<b>Weight</b>				
Net	52lb (23.6kg)/each	38lb (17.3kg)/each	12.3lb (5.6kg)/each	19.8lb (9kg)/each
Shipping	65lb (29.5kg)/each	45.3lb (20.6kg)/each	27.7lb (12.6kg)/pair	22.2lb (10.1kg)/each
<b>Finish</b>	Black Ash			

\*\* Non-metric measurements are approximate.

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