

# DB1

## The compact reference

The DB1 is the worlds smallest transmission line design, with an effective line length of 1.5m in a tiny, heavily damped cabinet with outstanding dynamics, exceptional sound staging, and depth of bass that would suggest a loudspeaker of dramatically larger proportions.

The DB1 is ideal for all channels in a surround system or inclusion within a surround system consisting of PMC's TB2, FB1 & TLE1 Active Subwoofer as the DB1 has been engineered with identical tonal balance and dispersion characteristics, producing a seamless image.

PMC's transmission line technology has the following advantages over a standard loudspeaker

- Neutral and dynamic balance
- Lower colouration
- Lower distortion
- Fast, accurate, and extended bass at all levels
- Higher power handling without distortion or compression
- Easy to drive

## The DB1 build

Great lengths are taken at every stage of construction to ensure that every pair is matched. The components are electrically tested, measured, and recorded to ensure that true partnering can be achieved. This obsession with recording and matching is all-important to create a pin-sharp, stable, image.

+10dB

## The crossover

During the research and development period the components are evaluated not only for their individual sound quality but also for their orientation and proximity to each other. This is a job no computer can assist with and must be done by pains-taking listening tests and evaluations. To ensure high current capabilities and low signal loss, the modular crossover boards are laid with extra thick copper tracks, this again guarantees superlative performance. After each component is measured, recorded, and matched, it is soldered by hand using silver loaded solder; this way nothing can be left to chance.

## The drive units

The DB1 drivers are derivatives of the units found in the more costly TB2's and FB1's. They have shown their credentials in both the Hi-Fi and professional circles as real world-beaters. The mid/bass driver is a custom doped design, housed in a magnesium alloy chassis, which provides a superb platform for efficient operation of the driver. The aluminium alloy dome tweeter is Ferrofluid™ cooled for highly effective heat dissipation, and is phase corrected to provide an outstanding soundstage.

Professional finish

## The DB5.1 Surround system

4 x DB1, 1 x DB1M-C (Centre Channel) & TLE1 Active Sub bass unit

A hand built, acoustically matched, Audiophile surround package

The DB5.1 surround package provides a real taste of the ultimate in surround sound reproduction. The system provides a spectacular hemispherical image, where the sense of space and clarity are unrivalled and the depth of bass is truly breathtaking. The TLE1 active sub has been engineered to partner the DB1 and integrates seamlessly, using PMC's tried and tested transmission line technology.

The beauty of the DB5.1 system is that it has a perfect grasp of audiophile surround music reproduction as well as the Hollywood blockbusters. A real bonus for those who are looking for future-proof technology.



## DB1 for surround sound

The advances in digital technology have given rise to multi-channel recording formats such as DVD and DVDA. These formats generally result in 5 main channels of full band and one channel of low frequency information, aptly named the effects or .1 channel. The DB1 and its partnering products can easily accommodate the ever-increasing demands of these digital formats, producing a complete, dynamic, 3D image.

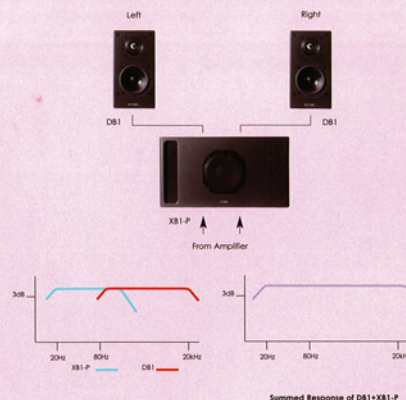
To produce an exact and effective 5.1 Surround Sound system requires monitors of identical characteristics, so the DB1 has been designed with identical phase and tonal quality as the TB2 and FB1, which are monitors from the same series.

Convenience and aesthetics dictate the centre channel must be in a horizontal format to allow for convenient placement of a screen or television. The DB1 (DB1M-C) centre channel fulfils the role and is magnetically shielded as standard. There is an option to shield any of the DB1's in the same way, making it safe to place them in close proximity to a television.

## DB1 Extended range monitoring

The XB1-P sub-bass unit has been designed to work in conjunction with the DB1 to create a convenient, compact, monitoring system, ideal when full range monitoring is required but space is at a premium. The XB1-P is placed in the chain between the amplifier and the DB1 monitors. Its highly accurate crossover network filters all frequencies below 90Hz and directs them to its own high power dual voice coil driver. The remaining mid & high frequency information is then passed to the DB1, effectively converting the DB1's into 'satellites'. This has two advantages: Extending the low frequency range of the DB1 by two octaves and increasing the power handling.

See XB1 data sheet for further details



## Brackets

For perfect reproduction the DB1 must be held in a vice like grip during operation and the dedicated DB1 wall bracket does exactly that with its massive construction and cunning design. The bracket allows controlled movement and fine adjustment in both the vertical and horizontal planes allowing for optimum positioning and performance.

## Stands

The Tube 61™ DB1 high mass dedicated speaker stand guarantees the maximum effectiveness of the DB1 during its operation and sets it apart with its elegant good looks. They are constructed of powder coated heavy gauge steel tubing and laser cut 6mm steel plate. 4 threaded 8mm spikes in the base give ample adjustment for perfect levelling and good coupling to the floor. Extensive listening tests to 'tune' the stands with damping material were carried out and each stand houses the exact amount within the column. This attention to detail and quality of construction aids the release of unwanted energy from the cabinet allowing a clearer, more transparent performance.

# DB1

## Specification

<b>Type</b>	Four fold, full transmission line mini monitor
<b>Effective line length</b>	1.5M (5 Feet)
<b>Usable freq range</b>	50Hz-25kHz
<b>Sensitivity</b>	87dB 1 watt 1 metre
<b>Crossover frequency</b>	3kHz
<b>Recommended Amp power</b>	Up to 150W
<b>Drive unit complement</b>	1F Doped 140mm cast magnesium frame chassis HF Aluminium alloy, phase corrected, Ferrofluid™ cooled
<b>Input connectors</b>	2 Pairs 4mm Binding posts (Suitable for Bi-Wire or Bi-Amp)
<b>Finishes</b>	Cherry, Oak, Black Ash, Professional Black, other premium veneers to order
<b>Dimensions</b>	
Height	290mm (11.4 inches)
Width	155mm (6.1 inches)
Depth	234mm (9.2 inches)
	(+6mm or 1/4 inch for grille)
<b>Packed DB1</b>	
Height	405mm (15.94 inches)
Width	335mm (13.19 inches)
Depth	435mm (17.13 inches)
	(+6mm or 1/4 inch for grille)
<b>Weight</b>	9 kg (19.8 lbs per pair)
<b>DB1M-C (Centre channel)</b>	
Height	155mm (6.1 inches)
Width	290mm (11.4 inches)
Depth	234mm (9.2 inches)
	(+6mm or 1/4 inch for grille)
<b>Packed DB1M-C</b>	
Height	305mm (12.01 inches)
Width	220mm (8.66 inches)
Depth	350mm (13.78 inches)
	(+6mm or 1/4 inch for grille)
<b>Wt</b>	4.5 kg (9.9 lbs per unit)
	5 kg (11 lbs)

Subject to change without notice.



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