PMC®

result6

see. hear. achieve

ENGINEERING WITH PASSION

PMC loudspeakers combine science and art, engineering and emotion; they are designed to be forensically accurate but also to convey music and sound as naturally as possible, as its creators intended.

We believe that the same monitor can be used throughout the entire audio chain, from composer to studio or film stage, post-production or mastering to the consumer — and that well-designed loudspeakers should excel with any material, reproducing audio of any kind or genre with the same accuracy and precision.

We make products that do all of this by applying solid engineering principles and painstaking design, construction and testing standards. Our studio loudspeakers are true reference monitors, allowing audio professionals simultaneous insight into the big picture and the finer details of their work, with the maximum possible resolution and sonic clarity.

It's not easy getting PMC designs right, but it's our passion, and the results — and our many discerning professional users worldwide — speak for themselves.

Peter Thomas, Owner
Oliver Thomas, Head Of Design

The world-famous Metropolis Studios, London: the scene of sessions by artists as diverse as Queen, Michael Jackson, U2, Lady GaGa, Amy Winehouse, will.i.am, The Stone Roses, Lauryn Hill, The Verve, Adele, Rihanna... and many more

Metropolis's flagship Studio A, featuring PMC reference QB1-A and the new result6 monitors


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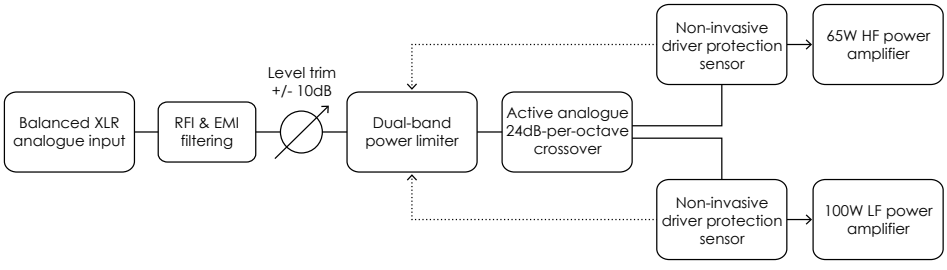
BETTER RESULTS, FASTER — SIMPLE

We understand that as an audio professional, you need reference monitors that tell you the absolute truth. When you trust what you can hear, you can work more quickly and with greater confidence, creating finished material that will translate on any sound system, no matter how sophisticated — or simple.

The **result6** provides an introduction to PMC and the huge benefits of ***ATL***™ technology, the proprietary bass-loading system at the heart of all our designs. This active two-way reference monitor offers all the attributes for which PMC is world-renowned: high resolution and detail, accurate, extended bass, consistent tonal balance at all levels, and wide dispersion and sweet spot. With an emphasis on elegant simplicity, this is a compact nearfield that allows you to work faster and more confidently — in short, to see, hear and achieve results more quickly.

There are no overly complex DSP-based user options or room profiles; instead, the **result6** achieves its characteristically neutral, dependable PMC reference sound solely on the strength of its engineering. Honed to the fundamentals of our design philosophy, it's devoted to getting you the best-sounding results in the shortest possible time.



Elegant engineering for maximum simplicity: the result6 signal flow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THE SAME RESULT IN SMALLER SPACES

The **result6** is equally at home in smaller studios as it is in internationally renowned recording facilities, one of the benefits of its completely consistent output being that you can trust what you hear in a project studio, a mix room or a high-end mastering suite. The decisions you make regarding tone, imaging and frequency response will be equally valid in any environment — and the results will translate accurately to any playback system, large or small.

Where space is at a premium, optional tilt/swivel brackets are available, allowing you to wall-mount the monitors and preserve movement in both planes.

Optional tilting wall brackets are available to support the **result6**.

D-Fins

A BIGGER, MORE DETAILED PICTURE

In traditional compact nearfield loudspeaker cabinets with rectangular front baffles, HF dispersion can be narrow, reducing the 'sweet spot' and making for a large difference between the on- and off-axis response. In addition, the edges of the cabinet generate high-frequency reflections, resulting in comb filtering and an uneven HF response.

We engineered the distinctive, finned HF driver surround — known on the **result6** as the **D-Fins** — to resolve both of these issues, delivering major sonic benefits. The design widens the stereo sweet spot (which is already generous, in keeping with other PMC designs). The result is an excellent off-axis response over a wider area. The **D-Fins** also eradicate the cabinet edge effects, ensuring high-frequency sound remains razor-sharp and unsmeared. This means that you have greater freedom to change your position as you work without adversely affecting what you hear, and that the frequency response of the speakers is flat and natural-sounding.


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D-FIN BENEFITS: BLOCKING EDGE EFFECTS

In standard compact monitors, the HF output of the treble driver radiates across the front baffle until it reaches the change of air pressure at the edge (see **Fig. A** below). At high frequencies, the sound waves are reflected from this boundary and return to the driver, creating a cancellation in the speaker's HF response (**Fig. B**). In the **result6**, sound at high frequencies is still reflected from the edge of the cabinet (**Fig. C**), but the **D-Fins** diffuse the reflected HF before it returns to the driver, and the overall HF response remains perfectly flat (**Fig. D**).

Standard speaker top view

Fig. A

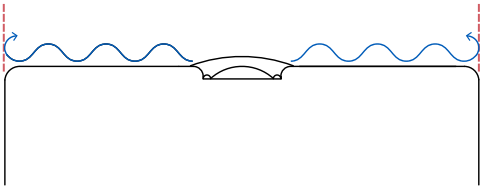
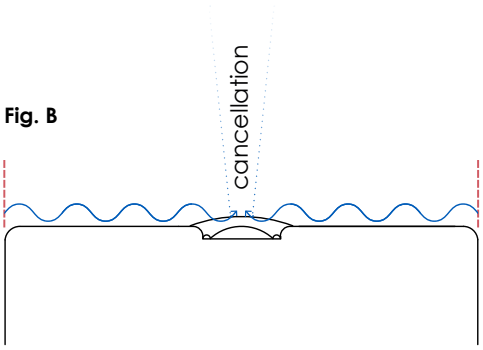
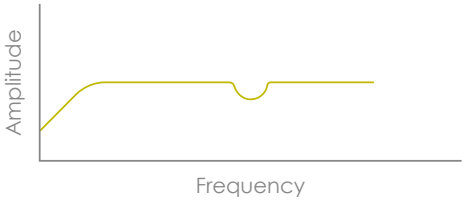


Fig. B



Cancellation causes dip in HF response



result6 speaker top view

Fig. C

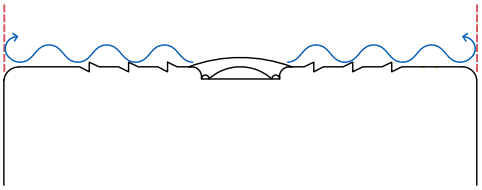
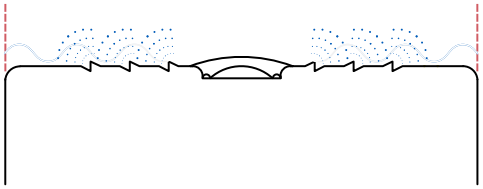


Fig. D



Flat HF response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D-FIN BENEFITS: SUPERIOR HF DISPERSION

On an ordinary nearfield monitor, the HF output can be fairly directional (see **Fig. E**), resulting in a restricted optimum working position. Adding the **D-Fins** to the **result6** produces additional, highly controlled HF diffraction, which sums with the tweeter's direct output to produce a far wider, smoother HF wavefront (**Fig. F**). The difference between the on and off-axis response is thereby much reduced, even at high frequencies (See **Fig. G**).

HF radiation pattern

Fig. E: Standard Nearfield Monitor

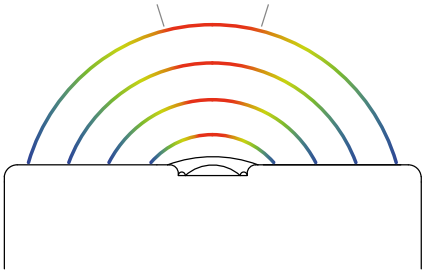


Fig. F: PMC result6 with D-Fins

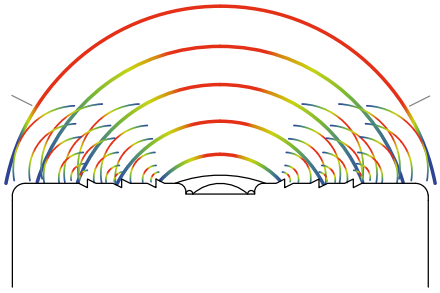
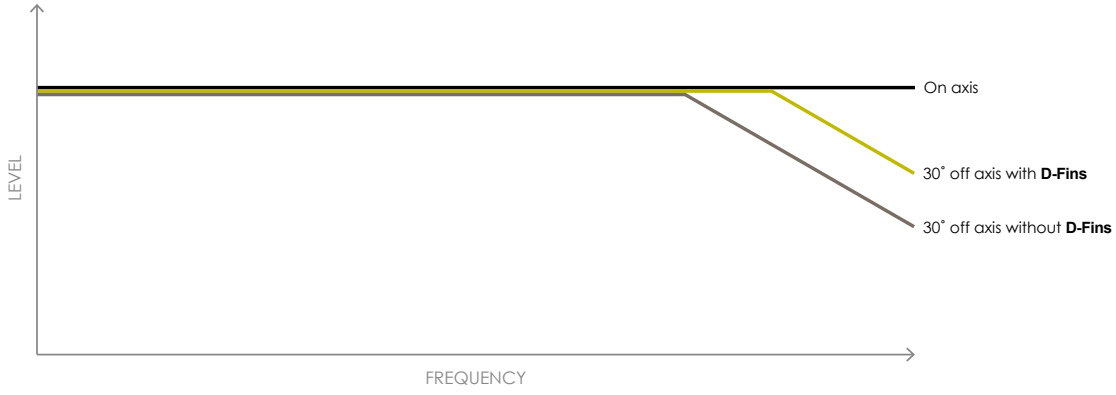
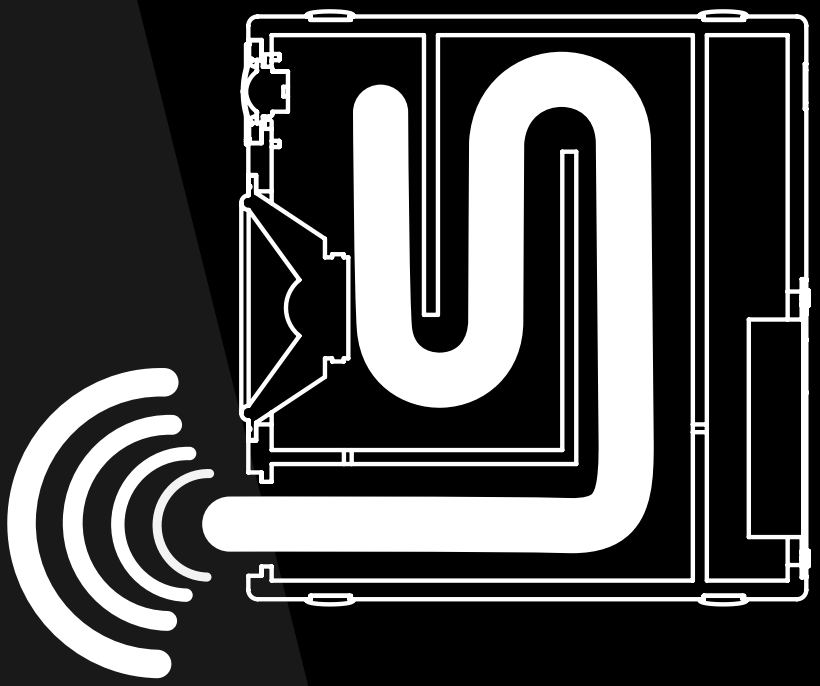


Fig. G: On- & Off-axis responses compared



ATL™

Advanced Transmission Line



'No other bass-loading technology provides such resolution & tonal accuracy at all volume levels'

TECHNICALLY, SONICALLY SUPERIOR BASS & MORE

PMC's unique ***ATL***™ (Advanced Transmission Line) enclosures have taken sonic performance to the highest level, using sophisticated cabinet construction, proprietary drive units, and patented absorption materials and techniques. The benefits are enormous compared to sealed-box and ported designs.

PMC's innovative approach places the bass driver near one end of a long tunnel (the Advanced Transmission Line), which is heavily damped with acoustic material carefully specified to absorb the upper bass and higher frequencies radiating from the rear of the bass driver. The lowest frequencies are allowed to pass down the line and emerge from the front vent in the same polarity as the bass unit's output, so that the vent acts like a second LF driver.

An important benefit of the ***ATL***™ approach is that the air pressure inside the cabinet, which loads the bass driver, remains consistent. This helps to maintain control of the driver over a wide frequency range and significantly reduces LF distortion. Consequently, the upper bass and mid-range detail is not masked by harmonic distortion and the result is PMC's characteristically transparent mid-range, fast, attacking bass, and outstanding clarity. When compared to ported or sealed designs of the same size, even ones with similar drivers, ***ATL***™ speakers offer extended bass performance, and a higher maximum SPL.

The very consistent bass driver loading also means that the frequency response stays the same whatever the output level. With PMC's ***ATL***™ speakers, critical listening can be conducted at very low volumes if required, preserving everybody's hearing when they need it most.

ATL™ bass-loading technology offers the following advantages over ported and sealed monitors:

- Exceptional LF extension with no colouration
- Identical tonal balance at all levels
- Higher SPLs without compression or listener fatigue
- More efficient
- A truly accurate response that translates


AOC

LASER MEASUREMENT — GENUINELY CUTTING-EDGE

The **result6** is the first PMC product to benefit from our groundbreaking laser-based measurement system. This performs extremely accurate assessments of the drivers' performance by rapidly and repeatedly scanning the surface of the drive unit during operation, measuring every micro-movement with phenomenal accuracy.

In our two-stage driver refinement process, the design of the bass unit is first optimised following a series of laser measurements conducted in free space. At the second stage, the driver is fitted into the loudspeaker cabinet and ***ATL***™. The laser measurement system is then used again, this time on the complete loudspeaker, and the drivers, cabinet and ***ATL***™ are honed in situ, the process being repeated until their optimum performance is attained. In particular, the ***ATL***™ and bass driver are tuned so that the driver produces the maximum possible output for the minimum possible excursion, which eradicates distortion and colouration.

At the end of the process, the ***ATL***™ is perfectly integrated with the LF driver, creating a speaker that packs a punch far greater than its compact dimensions would suggest. The finished design produces the sound for which PMC is renowned: crystal-clear highs, mid-range transparency, and smooth, extended bass that is consistent at all output levels with minimal harmonic distortion.

SIMPLY BRILLIANT

Like all the best tools, the **result6** is a perfect marriage of form and function.

Anchor points

PMC's custom-made 'tilt-and-swivel' brackets are attached here, allowing the speakers to be wall-mounted and precisely positioned.

Pure analogue crossover

A crossover ensures that drive units are fed only with frequencies in their optimum operating ranges. The beautifully simple, pure analogue crossover in the **result6** was designed from scratch with the aid of advanced circuit-modelling techniques, and employs steep 24db-per-octave filters for maximum efficiency and higher power handling. The crossover point is set at 2kHz to deliver a seamlessly integrated overall response.

Isolation mounts

All active electronics are decoupled from the cabinet for the ideal mechanical isolation.

Trim control

Simple rear-panel trim controls allow ±10dB of output level adjustment to suit the precise requirements of your listening environment.

High-power amplification: HF 65W, LF 100W

Twin low-distortion, high-damping-factor amplifiers provide 65W of linear power to the high-frequency driver and 100W to the bass unit for the maximum possible headroom and dynamics. The extremely efficient Class-D designs also include non-invasive limiting to protect the drivers without adversely affecting their sound.

HF drive unit

The 27mm fabric soft-dome treble unit features ferrofluid-cooling and a compact neodymium motor assembly, resulting in a life-like, non-fatiguing HF response. The dispersion grille is precisely perforated to provide optimum acoustic loading to the treble driver, further enhancing HF dispersion in addition to the benefits conferred by the **D-Fins** (see page 15).

Mid/bass drive unit

The custom-designed, doped natural-fibre bass driver can deliver accurate, well-controlled low-frequency information down to 45Hz, even at very low output levels — an impressive performance for a 6.5-inch diameter driver, made reality by PMC's patented ***ATL***™ technology.

Silent cabinet

A highly braced, vibration- and flex-resistant construction, the cabinet provides the perfect neutral platform for the high-performance drivers, adding no colouration to the overall output.

ATL™ vent

The ***ATL***™ concept has to be re-engineered for every speaker we make, and the **result6** is no exception, employing a custom transmission line with newly formulated damping material. As explained on the previous page, the **result6** ***ATL***™ was honed to integrate perfectly with the bass driver by means of an innovative laser-based measurement system, developed and installed at PMC.

Decoupling bands

The distinctive rubberised mounting bands prevent the **result6** from slipping, and also decouple it acoustically, preventing unwanted vibrations from colouring your sound.

SPECIFICATIONS

Usable frequency response	45Hz - 22kHz
Maximum SPL	112dB @1metre
Effective *ATL* length	1.5m (4.9ft)
Crossover frequency	2kHz
Drive units	**LF** 170mm (6.5 inch), doped natural fibre cone **HF** 27mm fabric soft dome
Cabinet dimensions	**H**380 x **W**199 x **D**360 (mm)
Weight	8kg (17.6lbs)
Input connectors	Balanced analogue XLR, wired Pin-1 screen, Pin-2 hot, Pin-3 cold
Mains power	IEC connector, 90-260V
Amplifier section	**LF** 100Wrms, **HF** 65Wrms
Gain trim	-10dB to +10dB
Input impedance	> 8kΩ

* Subject to change without notice

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