

PMC[®]

fact **signature**



fact[®]

/fakt/

*A thing known to be true with
complete certainty.*

WHAT DRIVES US

At PMC, we believe that music is what really matters; it's what moves us and gives us the passion for what we do. The company was founded because we felt there were no loudspeakers transparent enough to convey all of music's expressive power — and we knew we could remedy this using advanced engineering and a holistic design approach.

This is harder than it sounds. It is often easier to create loudspeakers that colour or flatter music, adding their own sound — but that is not the PMC way. The quest for sonic neutrality and transparency has always been our obsession, in the interests of reproducing music as vividly and faithfully as possible, just as the artist intended.

As we like to say, loudspeakers are where science meets art — we take care of the science so you can connect with the art.



*Peter Thomas, Owner,
& Oliver Thomas, Head of Design*

THE LINE WE TAKE

From PMC's beginnings, our designers discovered that the only way they could meet their own exacting standards was to custom-design everything themselves. Ever since, our products have been the result of solid engineering principles coupled to painstaking design, construction and testing standards. We consider every element and its audible effect, hand-select every component, hand-build every speaker, and test and listen to every finished product. Our recent products make use of design concepts adapted from high-performance car manufacturing, cutting-edge laser-based test and measurement techniques, structural engineering and materials science, all to push the boundaries of loudspeaker design.

Today the success of our approach is clear. As you can read overleaf, our customers include countless distinguished names in the world of professional music composition, recording, broadcast and film, as well as discerning audiophiles.



Our groundbreaking partnership with the UK's NPL (National Physical Laboratory) resulted in a pioneering acousto-optic mapping process. It uses lasers rather than microphones to analyse the propagation of sound, creating a 3D map and animated model of the sound produced by the loudspeaker — so we can see exactly what you can hear.

THE SPEAKERS THAT MAKE MUSIC



Artists and institutions who made music with PMC, composing, mixing or mastering with our Emmy-award-winning loudspeakers:

JOHN NEWMAN
ELBOW
EMBRACE
SADE
STEVIE WONDER
COLDPLAY
KRAFTWERK
PETER GABRIEL
ROBBIE WILLIAMS
BRIAN MAY
MARILLION
SONY MUSIC
UNDERWORLD
TONY BENNETT
BASEMENT JAXX
UNIVERSAL MUSIC

METROPOLIS STUDIOS
STUDIOS 301
TELDEX STUDIOS
EMI
ROYAL SHAKESPEARE COMPANY
DECCA
ORF
THE DÜSSELDORF UNIVERSITY OF MUSIC
THE ROYAL SCHOOL OF MUSIC
WARNER MUSIC
BBC RADIO
BBC TV
CAPITOL STUDIOS
CHESKY RECORDS
NY UNIVERSITY
TAPE LONDON

Just some of the movie and TV music made with PMC:

GAME OF THRONES
SPECTRE
SKYFALL
SAVING MR. BANKS
MAN OF STEEL
THE ADJUSTMENT BUREAU
WALL-E
INCEPTION
TRON
THE DARK KNIGHT
GRAN TORINO
DEADPOOL 2
AVENGERS INFINITY WAR
WATCHMEN
DAY OF THE DEAD
HALLOWEEN
HANCOCK

INDEPENDENCE DAY
HULK
THE FUGITIVE
ALIEN VS PREDATOR
THE SIXTH SENSE
THE PASSION OF THE CHRIST
DIE ANOTHER DAY
PLANET OF THE APES
FINDING NEMO
FINDING DORY
CHICAGO
PIRATES OF THE CARIBBEAN
TERMINATOR 3
AMERICAN BEAUTY
LOVE ACTUALLY
MAD MEN
FARGO...

Whether you listen to our speakers in a world-class studio in LA, London, Nashville, Tokyo, Berlin or your favourite listening room at home, you will hear the music exactly as the artist intended it.



Emmy® award
©ATAS/NATAS

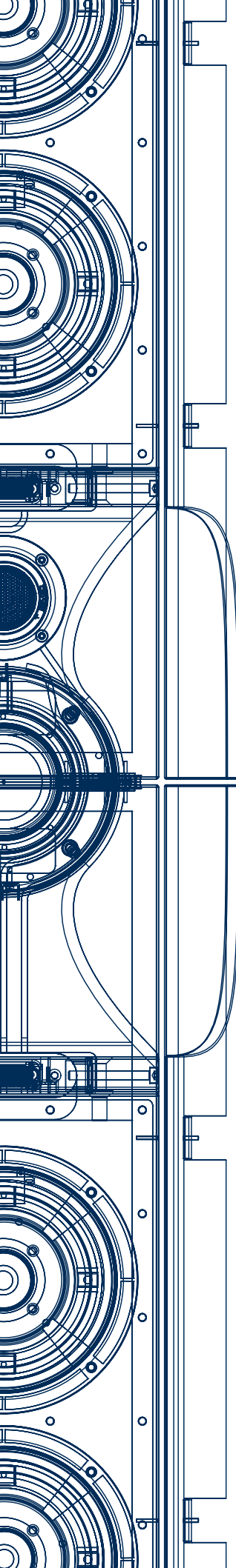
WHAT'S IN A SIGNATURE?

Innovators are never satisfied with their products; with every year, new technologies, materials, and manufacturing processes can be applied, and there is always room for improvement. Our team has an open-minded approach to loudspeaker design, frequently collaborating with cutting-edge companies from outside the world of audio, and have been working to realise the further potential they saw in the most popular designs in the **fact** range, **fact.8** and **fact.12**, by incorporating ideas from the flagship **fact fenestria**. The **fact.8 signature** and the larger **fact.12 signature** are the result: two- and three-way **ATL™** speakers with even greater musicality and transparency.



fact.8 signature

fact.12 signature

A vertical technical drawing on the left side of the page, showing various circular and rectangular components of a speaker system, including drivers and crossovers, with lines indicating their assembly and connection.

MAKING MUSIC — AND NOTHING BUT

While designing the company's statement model, the **fact fenestria**, PMC's engineers conducted extensive measurement studies and vibration analyses in order to acquire a detailed understanding of all the non-musical sources of vibration in their prototypes. These studies allowed us to incorporate groundbreaking vibration absorption and cancellation techniques into the design, reducing unwanted resonance in the **fenestria**, and ensuring that it produced nothing but music.

These extensive analyses, which investigated the negative effects of vibrations on the speaker right down to the level of components within and on the loudspeaker's crossover, also form the basis for the design of the **fact signature** speaker. The research shows that vibration negatively impacts the performance of capacitors in audio circuits such as crossovers. Both the **fenestria** and the new **fact signature** series have been built using world-leading British capacitors and German non-inductive resistors expressly designed to eradicate the negative effects of internal micro-vibrations, thereby enhancing the musicality of the **fact signature**'s new crossover.



fact fenestria



L1

R1

PMC
6W5 6ΩJ

PMC
27W2 2ΩJ

SW1

SW2

R6

HF+ HF-

7M1 1M2

SUPREME
HP AUDIO RESISTOR
155 +/- 2% 1842
mundorf.com

PMC
model
8
date
1/4/19
tested by
SS

act Crossover
copyright © 2019
MC Limited
Issue 2

ALCAP ALCAP ALCAP ALCAP
20MFD 20MFD 20MFD 20MFD
100VNP 100VNP 100VNP 100VNP
± 2% ± 2% ± 2% ± 2%

ALCAP ALCAP ALCAP ALCAP
20MFD 20MFD 20MFD 20MFD
100VNP 100VNP 100VNP 100VNP
± 2% ± 2% ± 2% ± 2%

ClarityCap
AUDIO GRADE CAPACITORS
PMC
6.60 μF 250 Vdc +/-1%
61902B/2540
MADE IN BRITAIN

SUPREME
HP AUDIO RESISTOR
155 +/- 2% 1842
mundorf.com

HF+

HF-

C7A

PMC
10μF ± 1% 250V DC
-25°C + 85°C
Made in France -18

C6

R5

PMC
5W 5ΩJ

8.2μF

PMC
-25°C
Made in France







The **fact.8 signature** builds on the balanced, engaging sound and life-like imaging of the original **fact** speakers. It takes to the next level the **fact** speakers' ready ability to accurately reproduce all genres of music via its twin PMC bass drivers, **ATL™** and soft-dome treble, a collaboration with precision Norwegian acoustic specialists SEAS. In short, it's a meticulously engineered, stylish loudspeaker that delivers the optimum output for medium-to-larger rooms with a wide range of amplification, sounding musical at all volumes and flawlessly conveying the emotion and beauty of a musical performance without unwanted enhancement or exaggeration.



fact.8 signature in Metallic graphite



fact.8 signature in Walnut



fact.8 signature in White silk



More expansive listening environments can benefit from the extra drive offered by the three-way **fact.12 signature**, with its dedicated, hand-built mid-range soft-dome, premium-quality bass drivers, **ATL™** and high-grade components from the flagship **fact fenestria**. Your room deserves this speaker's innate ability to create an effortless sense of scale, projection and clarity, with vocals and instruments that hang in clearly defined space, so realistic you could almost touch them. No matter what your desired output level, from whisper-quiet to levels you feel rather than hear, the **fact.12 signature** brings you the magic in the music, with nothing added or taken away.



fact.12 signature in White silk



fact.12 signature in Walnut



fact.12 signature in Metallic graphite

POWER, GRACE AND MUSICALITY

It takes great skill to build truly musical loudspeaker drivers capable of delivering powerful, well-controlled sound, yet sensitive enough to convey subtle tonal details. With over three decades of experience conceptualising, building, testing and obsessively honing loudspeaker drivers and designs for professional and consumer use, PMC have what it takes.

HIGHER AND WIDER

Both **fact signature** models build on solid foundations, using the proven SONOMEX™ domed treble drive unit. It delivers an exceptionally smooth high-frequency response and a stable, three-dimensional image, allowing multiple listeners to enjoy a uniform, consistent musical experience over a vast area, rather than the restricted 'sweet spot' of some of its competitors.



VOCALS YOU CAN TOUCH

Adding to PMC's long history of superbly engineered soft-dome drivers, the **fact.12 signature's** 50mm hand-made mid-range unit is absolutely transparent, and incorporates design elements from the mid-range driver in the flagship **fact fenestria**, delivering the same clean, airy, room-enveloping sound expected by music lovers everywhere.





LIGHT WITH INNER STRENGTH

Made of light but super-stiff natural fibre, the **fact.8 signature**'s bass drivers have the strength to generate dynamic low-end, coupled with the resolution to reproduce the finest of musical nuances in the vocal and instrument range. This driver can land the solid punch of a kick drum one moment, then turn on a sixpence to deliver the breathtaking subtleties of a gospel choir the next.



DEEP AND POWERFUL

For its twin bass drivers, the **fact.12 signature** employs a bespoke woofer developed for the original **fact.12**. With its long throw, powerful magnet and specially coated ultra-light alloy cone, the design combines accuracy, rigidity and durability, producing low-frequency energy to levels unheard of from competing speakers of similar dimensions thanks to its seamlessly integrated Advanced Transmission Line (**ATL™**).





THE BEATING HEART

The source of PMC's natural, realistic sound is the Advanced Transmission Line (**ATL**) bass-loading technology, professionally proven all around the world.

ATL[™] uses energy generated by the bass unit in a much more intelligent, efficient way than speaker designs based on ported or sealed boxes. In **ATL**[™] loudspeakers, the highly braced cabinet is lined with a multitude of custom-designed acoustic materials that absorb all but the very lowest frequencies. These exit from a front-panel vent, extending the low-frequency response, and creating the impression of a far larger speaker with an extra, ultra-high quality bass unit.

ATL[™] improves more than just the bass response; because the low end is clean and clear, it doesn't mask the rest of the music. Vocals, in particular, are beautifully projected and ultra-vivid.

ATL[™] loudspeakers offer another benefit. The **ATL**[™] bass extension does not change with volume level — so even when listening quietly, the bass sounds balanced and well defined.

THE UNIQUE BENEFITS

- *More detailed, more natural*
- *Full, rich sound at any volume level*
- *Deeper bass from a smaller cabinet*

ATL™

*'No other technology
provides such a huge,
rich, room-filling sound'*



TAILORING FOR PERFECT SOUND

The **fact signature** resolves the complex issue of how to combine the differing sound signatures of room acoustics, cables and source equipment by allowing you to fine-tune the speaker once installed in your listening room. Audiophile-grade switching, set into the solid aluminium rear panel, lets you subtly tailor the bass and treble response to create the perfect sound balance in situ.

A SOUND CONNECTION

If you've maintained a high-quality signal path all the way from your amp to your speakers, you'll want nothing but the very best throughout. Naturally, the binding posts on all **fact signature** models are silver-coated for total audio transparency, and will accept 4mm plugs or spades for the purest possible transfer of sound.



fact Ag terminals and bridging bars





fact®

HF
ON
OFF

LF
ON
OFF

PMC®



fact.8 signature
No. 000292

ATL™
Technology Inside

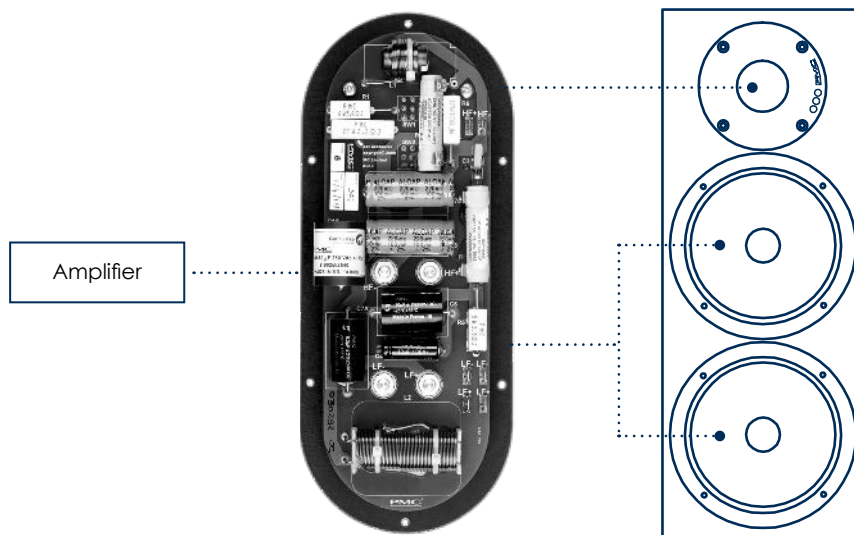
Precision Crafted in UK

www.factaudio.com

fact.8 signature back panel

PRECISION DIVISION

The crossover is an essential component of any quality loudspeaker, dividing the incoming audio from an amplifier into multiple signals with specific frequency ranges best suited to reproduction by each of the loudspeaker's drive units. Both **fact signature** models feature sophisticated crossovers with accurate filters mounted on military-grade fibreglass boards, ensuring that only the ideal frequency range is precisely routed to the correct driver. Thick, pure copper tracks are used to connect the final crossover components on the **fact signature** to optimise signal delivery, and the same hand-selected components employed in the flagship **fact fenestria** were used for the final products, following extensive listening tests. Even the positioning of the components on the board was carefully calculated to minimise unwanted interference in the final design.





CRAFTED WITH CARE IN THE UK

Our loudspeakers are designed and hand-built with care and attention by fastidious people at the PMC facility in the UK, where every single component is measured and graded. Every detail, from the individual elements on the crossover and in the drive units right up to the cabinet, is tested to ensure it meets our exacting standards for performance and reliability. This ensures each new model is a duplicate of the reference design.

A full computer analysis is taken for each completed loudspeaker, so we know it is technically perfect — but we go one step further. Computers don't tell the full story, and our customers listen with their ears — so we do too. We run a benchmark BBC speech test and play an extensive array of music (including classical, pop and rock) on each loudspeaker we produce. Every one is compared with its reference model and both speakers in each pair are cross-checked to ensure a perfect match. Such is the confidence in our work that we offer an unparalleled 20-year warranty on all passive consumer loudspeakers.



UNRIVALLED
twenty year warranty



"Computers don't tell the full story. As well as a full frequency analysis, we listen to each speaker we make — and run a benchmark BBC speech and musical test on every single one"

SPECIFICATIONS



Freq response	28Hz – 30kHz
Sensitivity	89dB 1W 1m
Effective ATL	3m (9.8ft)
Impedance	8 Ohms
Drive Units	LF 2 x fact 140mm (5 ½") precision drivers HF fact 19mm high res, SONOMEX™ soft dome, ferrofluid cooled
Crossover Freq	1.7kHz
Input connectors	2 pairs 4mm PMC Ag terminals (Bi-wire or Bi-amp)
Dimensions	H 1030mm (40.6") + 25mm spikes W 155mm (6.1") + 80mm ingot feet D 380mm (15") + 10mm Grille + 23mm Ag terminal
Weight	20.0kg (44lbs) ea.

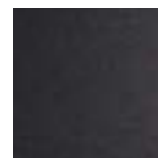


Freq response	26Hz – 30kHz
Sensitivity	84dB 1W 1m
Effective ATL	3.3m (11ft)
Impedance	8 Ohms
Drive Units	LF 2 x fact 140mm (5 ½") super-long-throw MF 1 x fact 50mm (2.0") super clarity soft dome, ferro-fluid cooled, mid-range HF 1 x fact 19mm high-res, SONOMEX™ soft dome, ferro-fluid cooled
Crossover Freq	400Hz, 4kHz
Input connectors	3 pairs 4mm PMC Ag terminals (Tri-wire or Tri-amp)
Dimensions	H 1110mm (43.7") + 25mm spikes W 168mm (6.1") + 100mm ingot feet D 420mm (16.5") + 10mm Grille + 23mm Ag terminal
Weight	26.0kg (57lbs) ea.

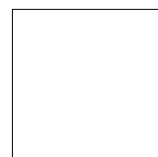
Finishes



Walnut



Metallic graphite



White silk

fact[®]

/fakt/

*A thing known to be true with
complete certainty.*



factsignature

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