wafer™

On-wall & in-wall loudspeakers in two sizes

The ultimate audio performance with discreet elegance

wafer-iw™

In-wall loudspeakers

ATL™

Advanced transmission Line
A message from Peter Thomas - arguably the world’s smartest loudspeaker designer ... and a truly obsessive audiophile.

Our sole aim while designing loudspeakers was to recreate the true essence of an artist’s intention, combining an ultimate level in sonic resolution with solid engineering principles.

We believe that the same loudspeaker can be used throughout the entire audio chain - from composer to studio or film stage, and then finally the consumer. Our unswerving passion for getting it right has made this goal possible.

Listen to any of our products and you will hear why our speakers are accepted as the world’s studio reference and perfect partner for a system at home.
From television broadcast to major film scoring, music productions of all kinds and film and music mastering, PMC designs represent the very pinnacle of professional studio monitoring. PMC systems are to be found in the finest professional locations, including studios like Teldex and Emil Berliner, producing some of the world’s greatest classical recordings for labels like Deutsche Grammophon, DECCA, Philips and Harmonia Mundi, and such respected names in the worlds of television, film and sound, as the BBC, Dolby, Dreamworks, JVC Studios Japan, Metropolis and Universal Music but to name a few.

The accumulated technical knowledge and manufacturing brilliance of PMC professional products is incorporated into all domestic product ranges from compacts to in-walls and larger floorstanders. This approach allows both demanding audio- and videophiles a clear window to experience the true feeling and passion of the original recording.

The Elite

Francis Rossi  Robbie Williams  Brian May

 Basically speaking

The world’s leading professionals rely on the accuracy of PMC’s ATL designs everyday to create much of the music and sound you hear. You can rest assured that what you hear from a PMC speaker is identical to the version approved by the artist themselves.

What they offer above a standard HiFi speaker

Detail - They are extremely detailed and sound natural - As if the musicians are with you in the room

Room filling - The sound they produce covers a massive area, so wherever you sit you still hear everything

Full, rich sound at any volume - You can listen at low level and still hear bass - Ideal for low level or late night listening

Reliability - all the components are tried and tested in the professional world

Ease of drive - They are efficient and therefore can be driven by the vast majority of good quality amplifiers

Ideal for surround - They all have an identical tonal balance and can be mixed and matched to create the ultimate surround sound system.

Easy to position - They sound superb in a vast array of rooms, large and small

Feel good - They are made in England by hand, by nice people who care, and love audio

Boast - You can tell your friends you have the same speakers as Robbie Williams, Stevie Wonder, Brian May, Kraftwerk and Coldplay and if they don’t believe you tell them to go to www.pmc-speakers.com and click on key clients


Technically speaking

PMC’s ATL (Advanced Transmission Line) enclosures have taken loudspeaker design to the highest level.

A PMC transmission line design utilises sophisticated cabinet construction, PMC designed drive units and patented absorption materials and techniques.

The benefits are enormous compared to the relatively simple sealed and ported models currently available elsewhere.

The bass driver is placed at one end of a long tunnel (the transmission line), which is heavily damped with absorbent acoustic material. This material is specified to absorb the upper bass and higher frequencies that radiate from the rear of the bass driver.

The lowest frequencies, which remain in phase, then emerge from the large vent at the end of the line, which essentially acts as a second driver. One advantage to this approach is that the air pressure loading the main driver is maintained, thus controlling the driver over a wide frequency range, which in turn significantly reduces distortion.

A spin-off from the lack of distortion is that the upper bass and midrange detail is not masked by harmonic distortion residing in the very low frequencies. The result is PMC’s characteristic transparent midrange and fast, attacking bass notes, all reproduced with outstanding clarity. A further advantage of the transmission line approach is a cabinet that produces a higher volume and greater bass extension than a ported or sealed design of a similar size, even if identical drivers were used. Moreover, as the loading on the main driver is maintained at all volumes, the frequency response also remains consistent regardless of listening level.

Casual late night listening or analytical studio sessions can be conducted without the need for high volumes to achieve maximum bass response. A characteristic that is especially suited to both the home enthusiast and recording professional alike.

‘A huge, rich, room filling sound from a small cabinet’

DB1 - The smallest ATL in the range
wafer™  On-wall - available in two sizes

wafer1™ - White and 42” plasma

wafer2™ - White and 42” plasma

available in Black or White
On-wall Control

 PMC has brought its technology, found in the world's leading studios, to a range of discreet, stylish in-wall and on-wall loudspeakers. The slim-line wafer series are capable of astounding room-filling richness and clarity, ideal to recreate the surround sound cinema experience or an audiophile two channel system.

The two size options allow for perfect visual and sound balance for both modest and more substantial rooms.

Unique to the wafer

- Discreet & stylish - a perfect partner for any flat screen
- Natural, dynamic, high resolution sound quality
- Supreme bass performance - Rich deep bass at all volume levels
- Combines flawlessly with the large PMC range
- Whole room coverage - Wide dispersion
- Efficient - Easy to drive
- Perfect horizontal & vertical performance
- High frequency control - {+, FLAT, -}
- Image steering - directs sound toward the listener
- Untainted, clear projected sound using StealthBaffle™
- Trouble-free installation - Adjustable mounting hardware
In addition, the **wafer-iw™** feature:

- Slim line paintable grille & baffle - blends discreetly
- Ultra low sound leakage - sealed rear cabinet
- Rapid, efficient and convenient installation
- Reference level audio from an in-wall
- Ideal ceiling or wall installation

**wafer-iw™** - 5½" Bass Unit

**wafer-iw™** - 6½" Bass Unit

**EU Community Design Registration**
- wafer-iw™ 000620331-0001
- wafer-iw™ 000620331-0002

**US Design Application Registration**
- D33443 US
- D33354 US
Why wafer™?

The Emmy® award winners, PMC introduce two models of on-wall and in-wall monitor loudspeakers, perfectly suited to either studio or home where both discreet design and sonic performance are paramount.

Natural, dynamic, high-resolution sound quality
The wafer series perform. They are a true reference monitors and appear in the world’s leading studio environments where they are used for judging the quality of both surround movie and music production.

Supreme bass performance at all levels
wafer use PMC’s ATL™ technology making them sound clean, clear and rich at all volume levels. In many cases, their phenomenal bass performance negates the use of a sub.

Easy to combine
The wafer series are voiced identically to the entire PMC range; therefore they integrate perfectly, creating a seamless surround combination.

Efficient
Easy to drive, wafer combines easily with domestic and CI amplifiers producing excellent results with modest and high end amplification.

Whole room coverage
Their ultra wide dispersion gives a far greater spread of sound across a larger area than a standard loudspeaker, creating a fulfilling experience throughout the room.

90dB 1W 1m
**wafer™ Control** allows for perfect room integration

**High frequency compensation**

Three positions for tweeter level tailor for bright-reflective or dull-absorbent rooms and the effects of perforated projector screens.

**TT-Technology™**

Unlike standard loudspeaker designs the *wafer* is not compromised when it is rotated. Using switchable Twin Tweeters its performance is perfect in vertical or horizontal modes, allowing an identical model to be used for both upright and low profile centre channels.

**Image steering**

The “Beam-up” function uses the twin tweeter arrangement to steer the image toward the listening position. This is highly effective when either placed very high or low and especially when the *wafer-iw™* is used in-ceiling in a surround sound configuration.
Quick accurate installation

The wafer™ has a well-engineered adjustable wall mounting system with large scope for adjustments in height and level.

Untainted, clear projected sound using StealthBaffle™

Standard in-wall and on-wall designs are compromised when sound is reflected by the large surface area of their front baffle that surrounds the drive units. This detrimental effect is similar to the change in sound when cupping your hands around your mouth whilst speaking. PMC’s acoustic specialists have developed a unique, structured, absorbent surface that prevents unwanted reflected sound waves. The drive units are free to produce concentrated pure, untainted audio directly into the listening space.

Self Standing wafer™

A pair of the wafer-itt™ brushed stainless steel supports converts the wafer™ into an elegant table top speaker.
Specific features of wafer-iw™

Quick Fix installation
The multiple mounting lugs spring into position as the cabinet is placed into the wall or ceiling allowing both hands free to finally secure and position the cabinet safely and accurately.

Paintable grille & bezel
Both wafer thin grille & bezel are paintable to blend in with the desired surrounding colour scheme.

Ultra low rear sound leakage
wafer-iw™ cabinets are sealed at the rear, therefore sound leakage to adjoining rooms is kept to an absolute minimum. Having a determined volume and structure of cabinet also means a guarantee of performance, as there is no reliance on the cavity construction or filling, unlike inferior open back designs.
wafer 2 with grilles removed and 42" plasma

wafer 2 with grilles
Mixing and matching any of the wafer series and PMC’s consumer range creates a supreme and unbeatable surround system.
It is critical for the composers and engineers of multi million dollar blockbusters to get it right. ‘They do it with speakers from the Emmy® award winners - PMC.

The loudspeakers used by the leading recording professionals have identical characteristics to that of the consumer models and therefore are the only brand that can faithfully bring the original sound to the home.

Blockbusters created using PMC

Identity
Independence Day
Hidalgo
Atlantis – The Lost Empire
Signs
The Emperor’s Club
Unbreakable
Dreamcatcher
HitchHikers Guide to the Galaxy
Hulk
The Fugitive
French Kiss
My Best Friends Wedding
One Fine Day
Devil’s Advocate
Dante’s Peak
The Sixth Sense
Dinosaur
Elf
The Passion of the Christ
Cats & Dogs
Die Another Day
The Guru
Planet of the Apes
The Tuxedo
Vertical Limit
Rollerball
Finding Nemo
Chicago
Freaky Friday
2 Fast 2 Furious
Lara Croft Tomb Raider: The Cradle of Life
Pirates of the Caribbean 3
Spider Man 3
Terminator 3
Big Fish
American Beauty
Love Actually

The wafer® series is ideal for stereo or all channels of a surround system and has been engineered with an identical tonal balance and dispersion characteristics to all PMC models, thereby any combination will afford seamless integration and a perfect audio picture. The professionally proven TLE1 active subwoofer can also partner any of the range to provide the ultimate in low frequency power and musicality.
Suggested Associate Loudspeakers

PMC manufacture a large selection of loudspeakers and sub-woofers to meet a range of budgets and uses, from compact, audiophile designs to large studio monitors. The following products make ideal companions to create an unbeatable surround system or supreme audio throughout the home.

- **wafer1-w™**
  - (Two Way in-wall monitor)

- **wafer2-w™**
  - (Larger Two way in-wall monitor)

- **wafer1™**
  - (Two way on-wall monitor)

- **wafer2™**
  - (Larger, Two way on-wall monitor)

- **TB2i**
  - (Larger, Two way monitor)

- **CB6i**
  - (Three Way Magnetically screened Horizontal centre)

- **DB1M-Ci**
  - (Magnetically screened Horizontal centre channel)

- **TB2M-Ci**
  - (Larger, Magnetically screened Horizontal centre)

- **DB1i**
  - (Compact Two way monitor)

- **TLE1**
  - (Active Subwoofer)

- **GB1i**
  - (Compact, Two Way, Floorstanding monitor)

- **FB1i**
  - (Two Way, Floorstanding monitor)

- **OB1i**
  - (Three Way Floorstanding monitor)

- **PB1i**
  - (Three Way Floorstanding monitor)

- **EB1i**
  - (Larger, Three Way Floorstanding monitor)

- **MB2XBDi**
  - (Larger, Three Way Floorstanding monitor)
### wafer1-iw™ In-wall/in-ceiling loudspeaker specifications

<table>
<thead>
<tr>
<th></th>
<th>wafer1-iw™</th>
<th>wafer2-iw™</th>
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<tbody>
<tr>
<td><strong>Freq response</strong></td>
<td>50Hz-25kHz</td>
<td>40Hz-25kHz</td>
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<tr>
<td><strong>Sensitivity</strong></td>
<td>87dB 1w 1m</td>
<td>90dB 1w 1m</td>
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<tr>
<td><strong>Impedance</strong></td>
<td>8 Ohms</td>
<td>8 Ohms</td>
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<tr>
<td><strong>Drive Units</strong></td>
<td>LF 140mm (5.5 inches)</td>
<td>LF 170mm (6.5 inches)</td>
</tr>
<tr>
<td></td>
<td>HF 2 x 27mm Soft dome</td>
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</tr>
<tr>
<td><strong>Input connectors</strong></td>
<td>1 pair - Sprung &amp; 4mm sockets</td>
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</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cabinet</strong></td>
<td>H x W x D</td>
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<tr>
<td></td>
<td>500 x 235 x 100mm</td>
<td>575 x 355 x 100mm</td>
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<tr>
<td></td>
<td>(19.7 x 9.3 x 4 inches)</td>
<td>(22.6 x 14 x 4 inches)</td>
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<tr>
<td><strong>Cabinet and Bezel</strong></td>
<td>H x W x D</td>
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<tr>
<td></td>
<td>550 x 285 x 107mm</td>
<td>625 x 405 x 107mm</td>
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<td></td>
<td>(21.65 x 11.22 x 4.21 inches)</td>
<td>(24.61 x 15.94 x 4.21 inches)</td>
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<tr>
<td><strong>Cabinet with grille</strong></td>
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<td>N/A</td>
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<tr>
<td><strong>Weight</strong></td>
<td>5.5kg (12.1 lbs)</td>
<td>7.1kg (15.62 lbs)</td>
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<td><strong>Grille &amp; frame/bezel</strong></td>
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<td>White Satin RAL 9016</td>
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<td><strong>Cabinet colour</strong></td>
<td>Black Satin RAL 9005</td>
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**EU Community Design Registration**
- wafer1-iw™: 00620331-0001
- wafer2-iw™: 00620331-0002

**U.S. Design Patent No.**
US D576,509 S
### wafer™ on-wall loudspeaker specifications

<table>
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<tr>
<td><strong>Cabinet with grille</strong></td>
<td>514 x 365 x 108mm</td>
<td>589 x 385 x 108mm</td>
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<tr>
<td></td>
<td>(20.24 x 14.3 x 4.25 inches)</td>
<td>(23.19 x 15.16 x 4.25 inches)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>5kg (11 lbs)</td>
<td>6.6kg (14.5 lbs)</td>
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<tr>
<td><strong>Grille fabric options</strong></td>
<td>White, Black</td>
<td>White, Black</td>
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<tr>
<td><strong>Cabinet colour options</strong></td>
<td>White Satin RAL 9016 Black Satin RAL 9005</td>
<td>White Satin RAL 9016 Black Satin RAL 9005</td>
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Front with grille

Cabinet rear

Subject to change