

DIAMOND 12 3D

W H A R F E D A L E

Only a Diamond cuts to the heart of the music



**available in Black Oak, Light Oak, Walnut and White*

Recommended Retail Price: £

Availability	
Order:	
Shipping:	



Overview

Wharfedale's iconic DIAMOND lineage of high-performance, high-value speakers sparkles brighter than ever with the all-new **DIAMOND 12** Series.

Since 1982, Wharfedale's famous DIAMOND speakers have served as the classic entry point to true high-fidelity sound, their exceptional sonic value for money earning numerous 'product of the year' accolades in the UK and around the world. This autumn, with the introduction of the all-new **DIAMOND 12** Series, Wharfedale once again raises the bar for affordable, high-performance loudspeakers.

With this newest addition to the record-breaking, award-winning **DIAMOND 12** series, Wharfedale takes surround sound to the next level with the **DIAMOND 12 3D surround** speaker.

Covering the audience in a dome of sound, following Wharfedale's long history in cinematic and home theatre solutions, you can now have a 3D cinema-audio listening experience at home with your **DIAMOND 12** series configuration.

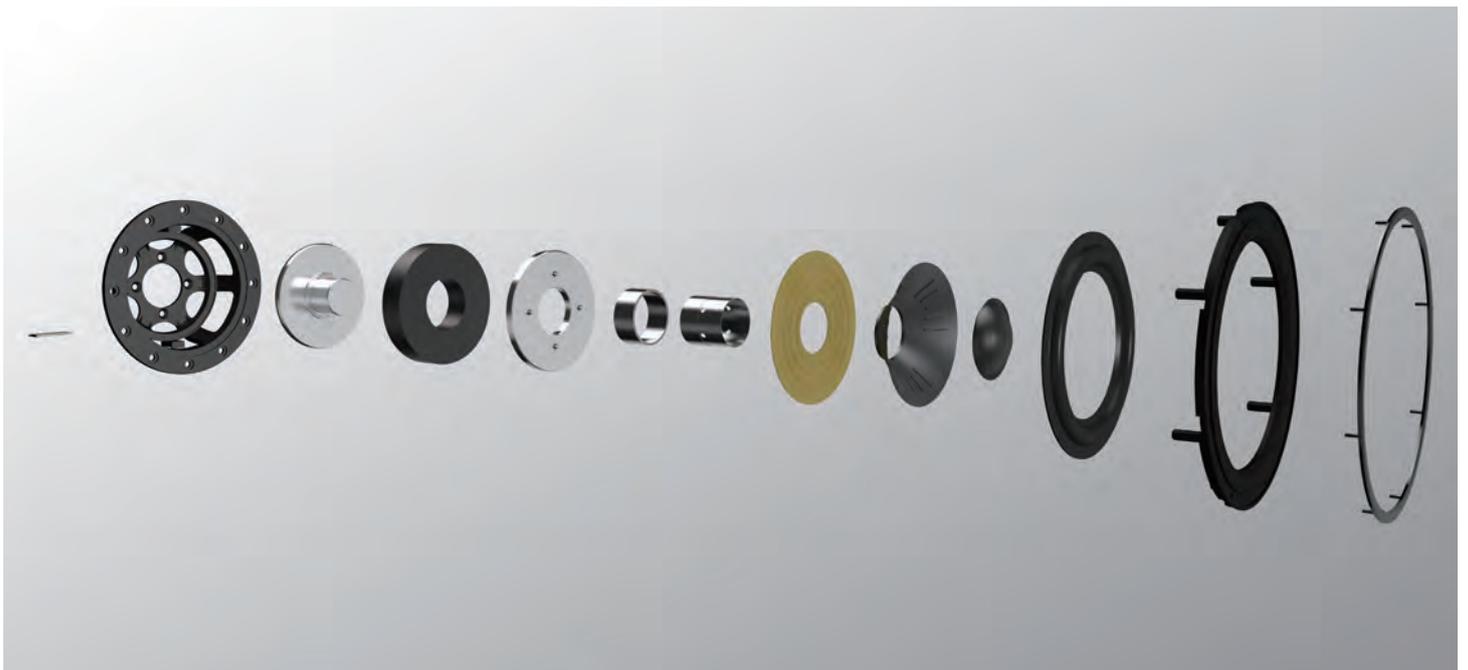
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As with all **DIAMOND 12** models, the **DIAMOND 12 3D** uses the famed Klarity™ polypropylene cones that renowned for their characteristically low distortion and controlled 'breakup'.

To make Klarity™, **Wharfedale** adds mica to the formulation. This increases stiffness compared to polypropylene alone, reducing flexing and enabling a lightweight cone with high rigidity, low colouration and lightning-fast response – ideal characteristics to deliver both accuracy and excitement.

The Klarity™ diaphragms are driven by a substantial, precision-made magnet system with an aluminium compensation ring to minimise the effect of variations in inductance as the voice coil travels. This contributes to an absence of distortion and intermodulation generated by the motor system.

The voice coil is wound on a high-power epoxy/glass fibre bobbin – highly unusual in speakers at this price level. This has the advantage of not adding eddy currents and delivering greater power handling than an aluminium bobbin, whilst also being much stiffer than the Kapton type.



Above: Architecture exploded diagram for Klarity™ Bass Unit

The **DIAMOND 12 Series'** treble unit sports a 25mm dome made from a woven polyester film with a high-loss coating to deliver open and smoothly extended high frequencies. The magnet system and the front plate have been optimised for wide dispersion and uncompressed behaviour. The front plate is flat and exposes the dome as much as possible, with a short duct to balance the acoustic load and improve the SPL (sound pressure level) measurement.

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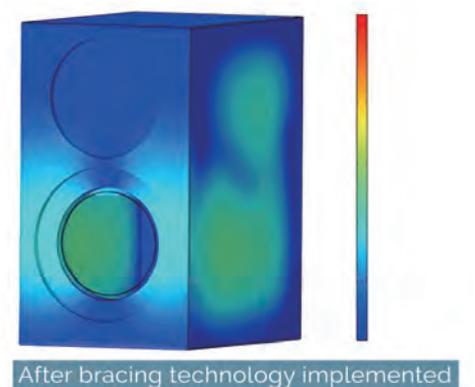
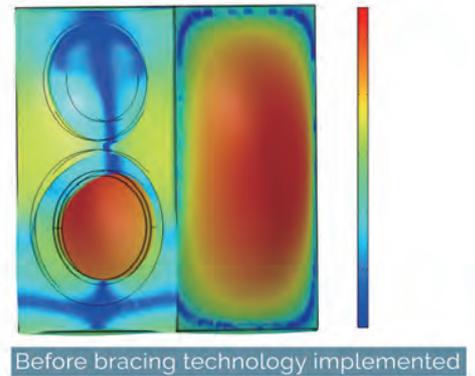
All of this is brought together in the expertly engineered cabinet, a critical part of any high-performance loudspeaker. At entry-level price points, corners are often cut to constrain cost, but this is a mistake; no matter how good the drive units, their performance will be wasted if the cabinet's construction is suboptimal. For this reason, **DIAMOND 12** Series speakers feature cabinets constructed with a level of sophistication usually reserved for much more expensive designs.

The cabinet walls are made from sections of wood fibre boards of varying thickness, constructed in such a way as to subdue the identifiable characteristics of the cabinet's 'sound' and ensure the drivers' output remains unsullied. The resonant properties of each element - even the glue - were considered to determine the ideal combination of materials and placement.

Inside the cabinet, Intelligent Spot Bracing connects opposing walls with a specific form of wood brace to achieve optimal reduction of cabinet resonance. These braces are precisely modelled by computer simulation to improve upon the commonplace 'figure of eight' brace, which can have the effect of transferring resonance from one wall to another.

The format and footprint of the **DIAMOND 12 3D** is designed to perfectly match the best-selling and award-winning DIAMOND 12.3 and DIAMOND 12.1 models. Sitting perfectly atop of the 12.1 and 12.3 speakers or on any flat-surface, the **DIAMOND 12 3D** also offers the benefit of wall-mounting fixings for height channels in home theatre systems.

Matched perfectly in cosmetics for the **DIAMOND 12** series, the **DIAMOND 12 3D**'s timeless, classical style and discreet all-black grille means it is also an ideal complement to any home theatre set-up, thanks to it's class-leading technology and performance.



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Key Features

3D Surround Sound

The **DIAMOND 12 3D SURROUND** adds the 'vertical' channel to any home theatre system.

Top Hats

The **DIAMOND 12 3D** is designed to sit on top of the **DIAMOND 12.1** and **DIAMOND 12.3** speakers, for simple integration into a **DIAMOND 12** home theatre system.

Multi-angle approach

Equipped with a wall-mounting fixing, the **DIAMOND 12 3D** can easily be wall mounted or placed on a flat surface.

Universally appeal

Aesthetically and acoustically matched to the **Wharfedale DIAMOND 12** series, the **DIAMOND 12 3D**'s inherent classy and timeless industrial design and discrete, full-length, all-black grille, it will complement any home theatre system.

Award's aplenty

The **DIAMOND 12 3D** expands the potential of one of the most award laden loudspeaker series in recent times.



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Specifications



Model	DIAMOND 12 3D SURROUND
General Description	2-way vertical channel speaker
Design Philosophy and Core Technology	
Enclosure Type	closed-box system
Transducer Complement	2-way
ABR	
Bass Driver	4"(100mm) advanced PP Cone
Midrange Driver	
Treble Driver	1"(25mm) Textile Dome
Full-range Driver	
AV Shield	No
Sensitivity (2.83V @ 1m)	85dB
Recommended Amplifier Power	20-100W
Peak Power Handling	
Peak SPL	95dB
Nominal Impedance	8Ω Compatible
Minimum Impedance	4.3Ω
Frequency Response (+/-3dB)	110Hz - 20kHz
Bass Extension (-6dB)	90Hz
Crossover Frequency	3kHz
Cabinet Volume (in litres)	2.7L
Dimensions (mm)	
Height (with grille)	145mm
Width	180mm
Depth (with terminals)	310mm
Carton Size	380 x 315 x 255mm
Net Weight	3.2kg/pcs
Gross Weight	7.2kg/ctn
Finish	Black Oak/Walnut Pearl/White Oak/Light Oak Vinyl
Standard Accessories	Rubber feet
Optional Accessories	wall bracket

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Above: DIAMOND 12.3 & 3D in WALNUT finish



Above: DIAMOND 12 Series in WALNUT finishes

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