



GEOMETRY SERIES  
THE FUTURE IS CARBON





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// *Clever officially starts here: Wilson Benesch class the Tactic II as a 'multirole' drive unit, rather like a multirole combat aircraft like a Dassault Rafale, but with fewer hard-points and gun platform options.*

*That last line wasn't as throwaway as it might have first seemed, because Dassault – the group that includes the makers of the French fighter – developed the 3D CAD/CAM software that Wilson Benesch uses in the development of all its products... When you look at the design of the company's speakers, you can see precisely why that design program is money well spent. - Alan Sircom, HiFi+, Issue 130*



To owners and long-term admirers of the Wilson Benesch brand, the new Discovery II loudspeaker will perhaps feel familiar, replacing as it does, the original award-winning Odyssey Series design. That design won 'Reference Loudspeaker' in What HiFi? Magazine over two consecutive years in 2004 and 2005, along with a clutch of other awards including the Stereo Sound Japan 'Component of the Year'. The new Discovery II thus has all the pedigree of a classic.

## DRIVE TECHNOLOGY

The Discovery II is equipped with very latest, cutting edge Wilson Benesch's drive technologies. Driving from the heart of the loudspeakers are a total of six Tactic II drivers and two Semisphere tweeters per pair. The principle topology of the original design is retained, placing the innovative clamshell Isobaric Drive System in the underside of the enclosure with a tweeter and dedicated midrange drive unit sitting in close proximity directly above. It is this compact and highly optimised drive topology, to which the Discovery II and indeed its larger sibling, the Endeavour, owe their stunning sonic presentation.

## SEMISPHERE TWEETER

At the centre of the Discovery II is the crown jewel of the Geometry Series. The Semisphere Silk-Carbon Hybrid Dome Technology Tweeter is a revolutionary, wide bandwidth tweeter. It features six-axially mounted NdFeB magnets sandwiched between precision CNC machined front and back plate. A metallic chassis holds captive the silk-carbon dome, which produces a natural, open sound. The strength of the design is its capacity to create high resolution sound, with the total absence of any sibilant, fatiguing characteristics commonly experienced with hard dome technologies. Designed in parallel with the Wilson Benesch Tactic II drive unit, the units integrate seamlessly.

## ISOBARIC DRIVE

Two downwards-firing Tactic II drive units form the Discovery II's Isobaric Drive System. Unlike the Cardinal, this is deployed in a clamshell configuration. The primary goal of the Isobaric Drive is the creation of lightning fast, dynamic, deep bass, produced from a relatively compact drive system. The Isobaric

technology is another critical element in the success of the Discovery II design. It is a direct alternative to large woofer designs, which are inherently slow and unable to match the Isobaric Drive in terms of dynamics. As a result the Isobaric Drive is able to remain perfectly integrated with the midrange Tactic II Driver.

What is also unquestionably unique in the Discovery II and its larger sister, the Endeavour, is the proximity of the Isobaric Drive System to the mid-range and tweeter drivers. In this respect, the designs have a distinct advantage over many loudspeakers, achieving a degree of spatial and temporal integration that is perhaps unrivalled across the industry.

## MATERIAL SCIENCE R&D

The Advanced Composite Technology (A.C.T.) Monocoque, which forms the principal component of the Discovery II's cabinet is the result of more than twenty-five years' research into emerging carbon fibre composite materials and the complex manufacturing methods required to integrate them within product design.

Although carbon fibre is renowned for its high strength-to-weight ratio, the material property of primary concern in the Endeavour cabinet is its damping coefficient; its ability to dissipate energy in a controlled manner. Employing this material property of carbon fibre in an optimised U-shaped geometry, the damping capacity of the A.C.T. Monocoque significantly surpasses that of a cabinet constructed using conventional materials.

## GEOMETRY AND FORM

Whilst the Discovery II clearly references a classic design of the past, the aesthetic retains a high-tech, classic feel. The Geometry Series cues pertain throughout the design; the solid alloy baffle with its characteristic machined finishing; the luxurious new top design with its inset black gloss finishing; the highly engineered adjustable hand wheels; and the recessed terminal plate underside the foot, this is a Geometry Series thoroughbred.

Finished in a range of bespoke wood veneers or high gloss finishes, which complement the slick, high-tech carbon fibre monocoque. The Discovery II exudes style. It is a stand mount British high-end luxury loudspeaker, peerless in its class.

## DISCOVERY II LOUDSPEAKER SPECIFICATIONS

### DRIVERS

1 x 25mm (1") Wilson Benesch Semisphere Tweeter  
1 x 170mm (7") Wilson Benesch Tactic II Mid Drive Unit  
2 x 170mm (7") Wilson Benesch Isobaric Tactic II Drive Unit

### CROSSOVER ARRANGEMENT

1st-Order Bass Roll-off  
1st-Order Midrange Crossover  
2nd-Order Tweeter Crossover

### LOW FREQUENCY LOADING

Double chamber differential reflex tuning of midrange and Isobaric Bass Drivers

### CABINET CONSTRUCTION

Poly-alloy high compression hybrid construction  
Ported Isobaric Chamber  
A.C.T. Carbon Fibre Composite Monocoque  
Alloy U-Section Baffle  
Bi-wireable, terminal plate recessed underside

### MEASUREMENTS

2.5-way  
Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal  
Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input  
Frequency Response: 43Hz - 30kHz +/- 3dB

### DIMENSIONS

// Height: 1105mm (43.5")  
// Width: 230mm (9.1")  
// Depth: 370mm (14.6")  
// Air Volume: 15L  
// Weight: 30kg (66.1 lbs)

### FINISHES

Standard: Black, Regal Silver, Titanium  
Wood Satin: Natural Cherry, Maple, Oak  
Wood Gloss: White Gloss, Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano

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