

Signature Series

A Truly Moving Experience of Pure Emotion.

Introduction

As the name implies, the Signature Series represents Colin's personalised speakers. Designed purely for the audiophile, each Signature speaker is individually tuned by Colin personally to ensure you enjoy the finest experiences imaginable. Such attention to detail is rare in today's world, but if you're as passionate about music as Colin, you'll love his Signature Series.

Available in a choice of exquisite real timber veneer finishes: Bubinga or Santos Palissander.

Signature P33

The Signature P33 is based on the Performance Series P33 with significant enhancements that enable them to be part of Colin Whatmough's spectacular "Signature Series".

The P33 Signatures are based on the Performance Series P33s with significant improvements to bring them up to Signature Series status. In common with the P33s, the P33 Signatures are hand built using curved panels. This cabinet design offers more than just great looks – they also offer improved sound quality. By eliminating internal parallel surfaces, the curved surfaces minimise internal standing waves for a clearer, cleaner sound. Even more significant, curved panels are inherently more rigid and less resonant than the flat panels of a conventional speaker cabinet, which further helps to minimise colouration.

The P33 Signatures differ from the normal P33s with improved tweeters, crossover networks, internal wiring and binding posts.



Tweeter

The P33 Signatures use the same Ring Radiator tweeter that is used in Whatmough's flagship speaker, the Paragon. This ultra-expensive tweeter sounds incredibly fast and detailed while also sounding extremely smooth and open. It has a very flat response extending to beyond 40KHz.

Mid-Range Driver

The P33 uses a 100mm cellulous fibre coned mid-range driver. This driver has the speed and transparency no bass/mid driver can match. While manufacturing costs of a three-way speaker are considerably higher than that of a two way speaker, the sonic benefits certainly justify this cost. A three-way speaker allows the designer to use a driver optimized to reproduce bass frequencies for the bass and a driver optimized to



The tweeters featured in the Signature P33s are a special 'ring radiator' design as found in Colin Whatmough's Paragon speakers.

reproduce mid frequencies in the mid-range. A bass/mid driver will always be a compromise in the bass or mid-range or more usually both.

Bass Driver

The P33 and P8 use two 170mm fiberglass/nomex hybrid drivers especially developed for these speakers. The cone for this speaker is made of Nomex with a skin of fiberglass. This long throw driver uses a 33mm high temperature voice coil and a large double magnet system.

This driver has very high power handling as well as a very transparent detailed sound quality

Crossover Networks

While the standard P33s use Solen and Bennic polypropylene capacitors (used by most high end speaker manufacturers), the P33s use Hovland film and foil capacitors in critical positions, which typically cost 10 times as much as the equivalent Solen or Bennic capacitors. Air cored coils are used throughout, wound from a heavier grade of high purity Australian copper.

As in the P33s, the hand built crossover networks used in the P33 Signatures are point-to-point hard wired, while all components are critically positioned to minimise any interaction.

Cardas (USA) litz cabling is used as internal wiring through-out. This cable is both very expensive and tedious to use since every strand is individually insulated, but the sonic results of Cardas cables are stunning.

Binding Posts

Common to all our Signature Series speakers, the P33 Signatures use solid copper binding posts from Cardas (USA). These copper binding posts, which are silver then rhodium plated, are considered by many to be the world's best



The mid-range driver used in the Signature P33 delivers a level of speed and transparency no bass/mid driver can match.



Signature P33 features two 170mm fibreglass/nomex bass drivers specially developed for these speakers.



The binding posts featured on the Signature P33 are from Cardas (USA) and are made of copper which is silver then rhodium plated.

terminals.

The P33 Signatures are tri-wireable and have three sets of terminals. The top terminals are connected to the treble section of the crossover network, while the lower terminals connect to the bass/midrange section.

Whatmough does not supply bridging links (which would allow the use of single cables) with its Performance and Signature Series speakers. This is because: -

- To obtain their optimum performance, these speakers should be bi-wired. This involves using a tri-wireable (6-core) cable or three sets of normal 2-core speaker cables. These cables can be connected to one or two sets of speaker terminals at the amplifier. One pair of cables is connected to the speaker's top (tweeter) terminals, one to the middle (mid-range) and the other to the bottom (bass) terminals (negative to the black terminal and positive to the red terminal in each case).
 - If tri-wiring is not being used, (hopefully only a temporary measure) a link should be made from the same type speaker cable that is being used to connect the speakers to the amplifier. Using this cable, the three positive terminals (red) should be connected together and the three negative terminals (black) should be connected together.
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Signature P33

Configuration	Three-way bass reflex enclosure using two 170mm hybrid Fibre glass/Nomex coned long throw Bass drivers (cast alloy frames), one 100mm cellulous fibre mid-range unit (cast alloy frame) and the same 35mm dual concentric tweeter that is used in the range topping Paragon.
Nominal Impedance	4 ohms
Power Handling	Transient peaks in excess of 300 watts. Average levels of 120 watts.
Sensitivity	Transient peaks in excess of 150 Watts. Average levels of 100 Watts.
Sensitivity	88dB input level of 2.83 Volts (1 Watt into 8ohms)
Frequency Response	38Hz to 40kHz \pm 3dB
Dimensions	1200H X 260W X 430D mm
Weight	45kg each
Finish	Bubinga real wood veneer or Graphite (Metallic duco)
Warranty	5 Years

Signature 505 Main

The Signature 505 are an outstanding example of Colin Whatmough's talent and attention to the finest detail.

The Model 505 conveys tremendous authority and bass control with an open, transparent effortlessness in the mid-range and treble. The accurate expression of music in this speaker will thrill you more than you ever imagined.

Built for a lifetime of pleasure, this is a speaker for the Music Lover who enjoys the subtle nuances and natural timbre of voices and strings but also craves the weight and impact of an orchestra in full flight. The 505 is equally at home playing Jazz, Classical or Rock. The External Crossover Module isolates crossover components from acoustic and magnetic influences within the cabinet. Proudly handcrafted in Australia. The 505 continues the Whatmough tradition of being uncompromisingly singular in the pursuit of sonic excellence!



Stunning Cabinets

The Paragon cabinets are finished in a deep charcoal with real wood veneer side panels. The standard finish for the 505s is Santos Palissander (Brazilian Rosewood) or Bubinga (African Rosewood), although these can be made to order with alternative finishes if required. The 505 cabinets are extremely rigid and inert. They use extensive internal bracing and 25mm thick cabinet walls which are then lead lined to minimise cabinet resonances. The inert cabinets allow the 505s to sound incredibly clean, open and dynamic.



The 505s bass drivers use Kevlar cones for a tight, controlled bass response.

The 505 Drivers

Twin 175mm Kevlar bass drivers cover the range 400Hz. The Kevlar cones are extremely rigid for tight control bass response.

Mid-range is catered for by twin 100mm poly-glass drivers. These drivers have extremely low cone mass (4 grams) allowing incredible transient response. They cover the range from 400Hz to 3,400Hz.

The tweeter is very special. This is a ring radiator design, which is extremely quick while still being smooth and refined. Its frequency response goes out to beyond 40,000Hz.

All drivers used in the 505 represent state of the art technology to help produce the best available performance. These drivers are extremely expensive but we know of no other drivers better suited to this task.

Masterful Crossover Networks

The use of the highest quality components extends beyond the drivers. All crossover inductors are air cored and made from the highest purity Australian copper. All capacitors used in the signal path of the 505s crossover networks are expensive Hovland film and foil capacitors.

The hand built crossover networks are hard wired point to point rather than being mounted on conventional circuit boards. As the 505s are internally wired with the highest quality Cardas Litz cable, it seems pointless to then direct the signal along the tracks of a circuit board.

The crossover networks are housed in their own isolating enclosure built into the back of the 505s. This isolates the crossover components from any internal resonances as well as keeping them well away from any interference caused by the ferrous components of the drivers.

Binding Posts, Spikes, the attention to detail is flawless.

Even the binding posts are very expensive and state of the art. These are made of copper by Cardas (USA), plated with silver then plated with



Mid-range is catered for by twin 100mm poly-glass drivers that have an extremely low cone mass allowing incredible transient response.



The 505 tweeters are a special 'ring radiator' design which is extremely quick and refined.



The binding posts featured on the 505s are from Cardas (USA) and are made of copper which is silver then rhodium plated.

rhodium. We have tested most available binding posts over the years and found these to be sonically more neutral than any others we have tested. As such, these binding posts have virtually no influence on the sound. By comparison, the usual gold plated brass binding posts tend to make the sound lean and harsh.

Cardas litz cable of varying diameters is used for the internal wiring of the 505s.

The 505s use huge hardened spikes to support their weight and couple them directly to the floor. These spikes pass through massive steel girders, which are bolted into the plinths of the Paragons. The spikes are located on the outside of the speaker cabinets to give a larger more stable footprint. As such, they are very easy to adjust and set up. The top section also has adjustable spikes so that this can be angled up or down to allow for high or low sitting positions.



Adjustable spike feet for precise and rigid coupling to the floor.

Signature 505 Main

Configuration	3-way floor standing speaker using a symmetrical speaker array. The bass section uses two 180mm Kevlar drivers in a rear ported enclosure. Two 100mm poly-glass drivers in a sealed enclosure cover the midrange frequencies. The tweeter uses a 35mm dual concentric diaphragm with a wave-guide centre plug. This tweeter uses an unusually large neodymium magnet structure.
Nominal Impedance	4 ohms
Amplifier Power Requirement	Approximately 40 - 200 Watts per channel
Power Handling	Transient peaks in excess of 250 Watts. Average levels of 100 Watts.
Sensitivity	91dB input level of 2.83 Volts (1 Watt into 8ohms)
Frequency Response	35Hz to 40kHz \pm 3dB
Crossover Module	Individually calibrated for each speaker in the pair for precise response match. Very high quality Cardas copper terminals. All internal cabling is Cardas high purity copper litz wire.
Dimensions	1420H x 285W x 380D mm. (Width including spikes is 400mmm)
Weight	75kg each.
Finish	Dark charcoal with Santos Palissander or Bubinga real wood veneer sides. Other finishes available to order.
Warranty	5 Years

Paragon

An exquisite blend of passion and technology by a purist who shares your passion for music.

Introduction

From the very beginning, the Whatmough Paragon was conceived and developed to be one of the world's best audiophile speakers, surpassing the expectations of the most dedicated music lover. As such, the Paragon has been developed with a 'zero compromise' approach and without regard to cost.

As the ultimate speaker in the Whatmough range, the Paragon has been a very personal project for Colin Whatmough. Three years of intense research and development by Colin himself has resulted in a speaker that delivers truly exceptional performance creating enormous enthusiasm amongst purists.



Ring radiator tweeters.

The Paragon speakers use an extremely high quality ring radiator tweeter which is very advanced and is one of the best tweeters we've ever heard. It uses a 35mm dual concentric diaphragm with a wave-guide centre plug and an unusually large neodymium magnet structure.



The mid-range drivers.

The mid-range is catered for by twin 100mm poly-glass drivers with extremely low cone mass allowing incredible transient response.

Paragon's drivers are of extremely high quality and performance.

The bass drivers.

Each speaker contains two 6.5" sliced

paper cone drivers, in their own sealed sub-enclosure to handle upper bass.

Sub-bass using Whise patented technologies.

The Paragon sub-bass has its own 350 Watt amplifier built-in for truly effortless bass. The sub-bass section of the Paragon uses advanced patented Whise technologies to produce low bass with very low levels of distortion. This section uses twin 10" drivers each with an extremely large linear travel of 36mm. They are mounted in a balanced configuration which virtually eliminates resonances.

Whise enclosure technology uses acoustic filters which, when combined with Whise electronic crossover technology, dramatically reduces harmonic distortion. This results in exceptional clarity and detail at upper bass and midrange frequencies while the lower bass always sounds unbelievably tight and controlled. While most systems (especially subwoofers) begin to compress the sound as the volume increases the Paragon sounds effortless, even at high volumes.

Exceptional Crossovers.

The Crossover networks are completely enclosed and isolated from the rear radiation of the drivers to minimise the effects of resonances on the crossover components.

The Paragon comes with its own Whise electronic crossover used between the active sub-bass and the main section. This electronic crossover uses Neville Thiele filter technology with 100db per octave slopes to ensure only low-bass emanates from the sub-bass drivers and no low-bass



Mid-range is catered for by twin 100mm poly-glass drivers that have an extremely low cone mass allowing incredible transient response.



Paragon's tweeter are a special 'ring radiator' design which is extremely quick and refined



The Paragon's binding posts are from Cardas (USA) and are made of copper which is silver then rhodium plated.

is directed to the upper-bass drivers.

Paragon use Hovland film and foil capacitors which offer a significant improvement in sound quality.

Cardas Litz cabling.

Advanced internal cabling by Cardas (USA) using conductors made up of individually insulated strands. These strands vary in diameter following the Golden ratio.

Cardas binding posts.

Cardas copper binding posts are silver then rhodium plated. Sonically these are one of the best sounding terminals in the world. They are far superior to common brass terminals.

Exotic timber cabinets.

Cabinets are 33mm thick with very solid bracing and are extremely inert; tapping the sides feels like tapping a brick wall. The finish is dark charcoal with exquisite Santos Palissander sides. Other timber finishes available to order.

Ultimately, it's all about the sound, and this is where the Paragon excels.

The detail, clarity, openness and smoothness of the Paragon will amaze you. The Paragons are equally at home playing jazz, classical, rock or an exciting movie soundtrack.



Adjustable spike feet for precise and rigid coupling to the floor.

Paragon

Configuration	4-Way floor standing speaker using two 250mm sub-bass driver in Whise designed enclosure with its own in-built 350 watt amplifier. The bass section uses two 175mm sliced paper drivers in a sealed enclosure. Two 100mm poly-glass drivers in a sealed enclosure cover the midrange frequencies. The tweeter uses a 35mm dual concentric diaphragm with a wave-guide centre plug. This tweeter uses a unusually large neodymium magnet structure.
Nominal Impedance	4 ohms
Amplifier Power Requirement	Approximately 40 - 250 Watts
Power Handling	Transient peaks in excess of 250 Watts. Average levels of 100 Watts.
Sensitivity	90dB input level of 2.83 Volts (1 Watt into 8ohms)
Frequency Response	25Hz to 40kHz \pm 3dB
Dimensions	1570H x 520W x 720D mm. (Width including spikes is 630mm)
Weight	140kg each
Finish	Dark charcoal with Santos Palissander real wood veneer sides. Other finishes available to order.
Warranty	5 Years