TANNOY



Heritage, tradition and timeless styling...



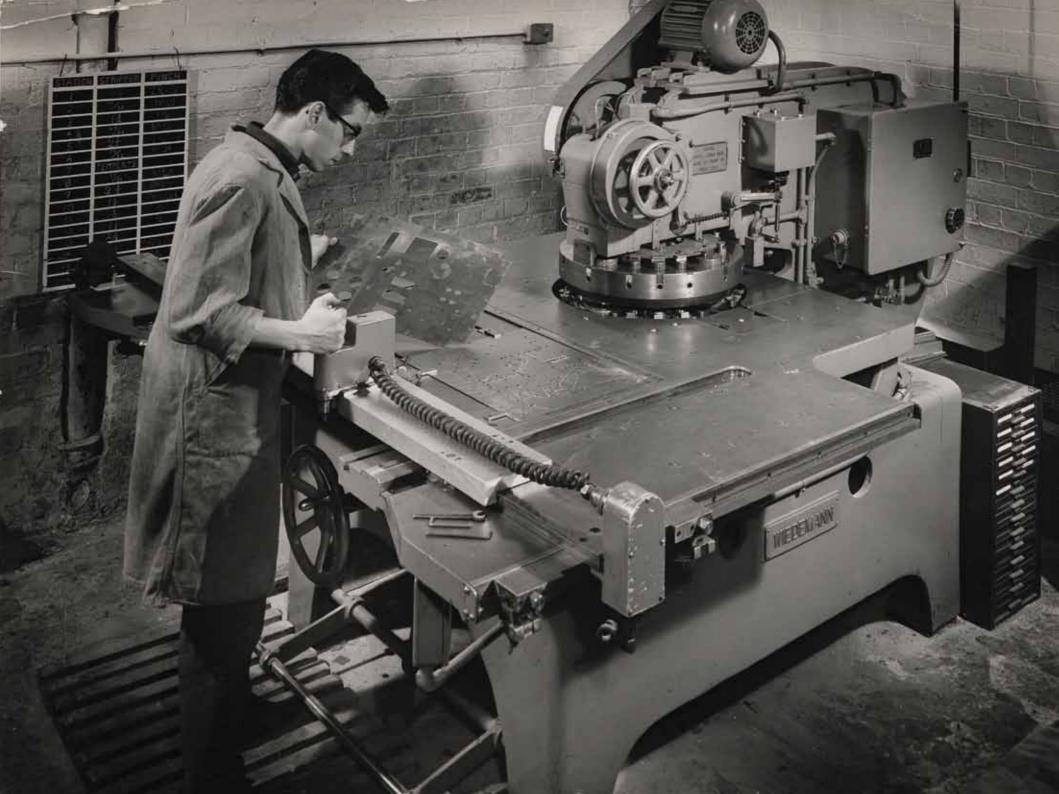
TANNOY - A SHORT HISTORY

Tannoy is perhaps the best regarded loudspeaker brand in the world. Few companies' products have such a profound impact on our lives that their names enter the Oxford English Dictionary as generic descriptions for their inventions. Tannoy stands as the single audio brand to achieve this accolade, for its success in developing early public address systems and then continuing its reputation for pioneering audio solutions. The word Tannoy is synonymous with sound, appearing in the dictionary as: 'a communications system with loudspeakers'.

In London, in 1926, Guy R Fountain perfected a new type of electrical rectifier for use with early radio sets. His rectifier consisted of two dissimilar metals held in a special electrolyte solution. One metal was Tantalum and the other an alloy of Lead. So successful was this invention that Guy Fountain founded a British Company called Tannoy (a contraction of the words 'Tantalum' and 'Alloy'). Tannoy began to diversify and soon became highly regarded in all aspects of sound reproduction.

The 1967 Monitor Gold is one of the most famous audiophile marques and the true forefather of today's highly sophisticated Gold Reference Duals in the Prestige GR series.

By the 1940s Tannoy loudspeakers and microphones were involved in every aspect of the music industry, from live music entertainment to studio recording and home playback. Tannoy's Chief Engineer at the time, the well-respected Mr. Ronnie H. Rackham, developed a coaxial loudspeaker driver that offered true low-distortion point-source sound by manufacturing the low frequency cone in such manner as to also function effectively as the high frequency waveguide. Both elements would thus function in perfect harmony as an ideally balanced and acoustically congruent point-source, free from any detrimental diffraction or masking effects. And so the world famous Tannoy Dual ConcentricTM driver was born.





The company's Scottish factory and headquarters is located in Coatbridge, near Glasgow in the UK, where it has been based since 1978.

The first Dual Concentric loudspeaker, designated the Monitor Black, first appeared at the London Radio Show in the late 1947. The Monitor Black marked a defining moment in the history of high fidelity sound reproduction and the history of Tannoy. The famous 'Dual' went through many incarnations, including the well-respected Monitor Red and the Monitor Gold. The 1967 Monitor Gold is one of the most famous audiophile marques and the true forefather of today's highly sophisticated Gold Reference Duals in the Prestige GR series.

Guy R Fountain retired from the company in 1974 but Tannoy continues his philosophy to this day, and the company is dedicated to the accurate and realistic reproduction of music for both enthusiasts and professionals around the world. The Tannoy brand name can be found not only in the homes of discerning hi-fi enthusiasts across the globe but also in some of the most prestigious audio installations throughout the world. Examples include the Hong Kong Convention Centre, the Sydney Opera House, the London Palladium and the Bellagio and Hard Rock Hotels in Las Vegas, the Burj Khalifa and Atlantis Hotel Resorts in Dubai and the Abu Dhabi F1 circuit.

The company's Scottish factory and headquarters is located in Coatbridge, near Glasgow in the UK, where it has been based since 1978. All Tannoy loudspeakers are conceived, designed and developed at this UK base. The extensive manufacturing facility builds professional and touring loudspeakers, as well as Tannoy's high-end Residential ranges including Definition, Prestige GR and Kingdom Royal.

In 2002 Tannoy became part of the TC Group, comprising TC Electronic, a leader in studio products, Swedish amplification specialist Lab.gruppen and signal processing technology company Lake. The combined expertise of the TC Group of companies underpins Tannoy's pioneering development of world-class loudspeakers to this day.

THE PRESTIGE DUAL CONCENTRIC GOLD REFERENCE

Gold Reference further refines the Dual Concentric driver concept, brings cutting edge materials technology to the Prestige range.

Over forty-five years on from the launch of the world famous Monitor Gold Dual Concentric driver, Tannoy is proud to announce Prestige Gold Reference. This major upgrade to the entire Prestige series of loudspeakers marks another significant chapter in Tannoy's illustrious history. Gold Reference further refines the Dual Concentric driver concept, brings cutting edge materials technology to the Prestige range and leverages the sonic benefits of Deep Cryogenic Treatment.

Tannoy's senior engineers have been working on upgrades to the Prestige series for several years, deploying much of the cutting edge technology developed for the flagship Kingdom Royal. Some of the advancements are universal across the Prestige GR series while individual technologies and engineering improvements have also been developed specifically for each driver and cabinet configuration.

The time-honoured method of construction of the famous Prestige cabinets remains unchanged, although the intricate wood-working detail and metal trim pieces have

been enhanced with the GR upgrade. These bespoke pieces of fine acoustic furniture have been hand crafted from solid wood and hardwood ply laminates by Tannoy's finest artisans for many decades. They remain the world's finest traditional loudspeaker cabinets. Each hand-crafted Prestige GR cabinet is finished with real walnut veneers, solid walnut mouldings and embellished with luxury metal trim detail.

To mark the Prestige GR milestone, and as a celebration of the company's proud heritage, the famous original Tannoy 'lighting strike' logo has been incorporated into trims on all models throughout the Prestige GR series. The design element of the lightning strike logo lends itself to the timeless traditional styling of the Prestige GR models and reminds listeners of the proud heritage of Tannoy brand built over more than eight decades of audio innovation.





CROSSOVER

The major GR revisions in the Dual Concentric drivers have resulted in substantial crossover improvements across the Prestige GR series. Components renowned for their precise audiophile characteristics and with a tighter and more exacting tolerance have been chosen for GR, and component-by-component auditioning has led to significant upgrades to the Prestige sound. Bespoke ICW ClarityCapTM MR capacitors are used in the Westminster Royal, Canterbury and Kensington GR series models, with PCOCC 99.9999% purity copper conductors, to eliminate low level signal loss, by the elimination of crystal boundaries. Revised low loss laminated core inductors and thick film resistors are used extensively, chosen for their ability to resolve micro dynamic detailing.

Each fully assembled crossover of the Kensington GR, Canterbury GR and Westminster Royal GR is Deep Cryogenically Treated (DCT) as a single unit to improve the audio characteristics through components, cabling and solder joints holistically. The improvements in musical cohesion and smoothness made it an essential part of the GR upgrade within these three models.

TERMINATION PANEL

The binding posts are mounted to a new Prestige GR Acrylic Glass panel, developed for its acoustic damping, strength and outstanding dielectric properties. Westminster Royal GR, Canterbury GR and Kensington GR use the very latest loudspeaker terminals from WBT, the NextGenTM WBT-0703. These high-end loudspeaker terminals ensure perfect signal transfer from your amplifier to the Prestige GR loudspeaker.

To celebrate Prestige Gold Reference and the latest evolution of the world famous Monitor Gold Dual Concentric driver, Prestige GR cabinets have been enhanced with a range of external styling updates to reflect the quality and craftsmanship within. Light reworking of the cabinet finish included milled and machined detailing in the timber, new veneer inlays within the front baffle of certain models, and either individually machined or die cast metalwork, hard-anodised with a gold finish. The return of Tannoy's famous 'lightning strike' logo marks the Prestige GR series as another landmark in the company's illustrious history.

Each cabinet is lovingly crafted from solid timber and hardwood ply laminates and finished in a combination of lacquer and oil depending on model. The finish can be maintained for decades using Tannoy's specially formulated Prestige wood wax which is supplied with each model. Matching grilles with complementary woven cloth material are included with each model.

Prestige GR cabinets have been enhanced with a range of external styling updates to reflect the quality and craftsmanship within.

STIRLING GR

Stirling Gold Reference is the first step into the heritage and performance of the Tannoy Prestige GR series. This compact floorstanding loudspeaker is rich with the timeless styling, bespoke cabinetry and the truly engaging performance from its new Dual Concentric Gold Reference driver that can trace its history back to 1967. Mating a treated paper pulp cone with a concentrically mounted 25 mm (1") aluminium alloy tweeter with Tulip WaveGuide $^{\rm TM}$, the Stirling's 10" Dual offers pure point source musical articulation and outstanding dynamics.

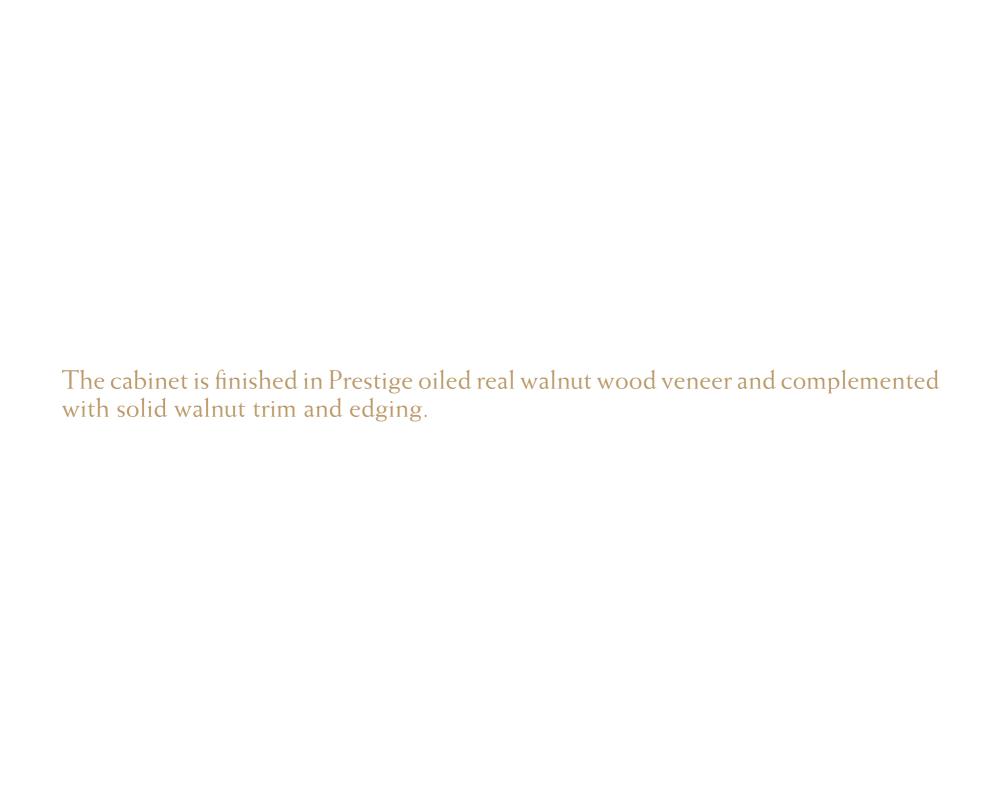
The Stirling GR crossover benefits from a widespread component upgrades including highest quality capacitors designed to Tannoy's exacting specification.

Hand built from the finest plywood, the Stirling GR cabinet uses traditional joinery methods to ensure that attention to detail and unique styling go hand in hand. A distributed port design for exemplary LF response from the 85 litre enclosure, the cabinet is finished in Prestige oiled real walnut wood veneer and complemented with solid walnut trim and edging, machined metal trim and adjustable HF power.

Capable of handling peak input power of up to 340 watts and boasting a prodigious 91 dB efficiency, the Stirling has the power and authority of much larger and more affluent loudspeakers. It is detailed, dynamic and outstandingly articulate sound with all the musical cohesion inherent with the Dual Concentric driver. Stirling GR offers the bespoke cabinetry and remarkable performance attributed to all of Tannoy's Prestige series; a very significant achievement at an affordable price.







TURNBERRY GR

Conveying all the power and musical articulation of the new Gold Reference Dual Concentric driver yet housed in a compact 100 litre cabinet, Turnberry GR brings Prestige performance to smaller rooms. The 10" Gold Reference Dual, unique to the Turnberry GR, uses a paper pulp cone material with HE twin roll fabric surround and 33 mm (1.3") aluminium-magnesium alloy dome tweeter with Tulip WaveGuide. The low frequency cone is fitted with a 52 mm (2") edge wound voice coil. This latest evolution of the 10" Dual brings an even more thrilling and dynamic performance than its well-regarded predecessor.

Hand-built on a dedicated crossover board, the high power crossover uses the finest sounding components. The result is a rich and articulate sound with remarkable sound staging and all the cohesive musicality of a true point source transducer. The Turnberry GR's High Frequency energy controls can tailor the listening experience without introducing any potential distortion than can result of using an amplifier's 'tone' controls.





A rich and articulate sound with remarkable sound staging and all the cohesive musicality of a true point source transducer.

The extensively braced and heavily damped Turnberry GR cabinet uses distributed port bass loading to ensure prodigiously deep LF response and a dynamic scale that belies the models' relative compact dimensions. Its exceptional 400 watt peak power handling and 93 dB efficiency make Turnberry GR a powerhouse of musical expression wrapped in timelessly classic aesthetics. The walnut veneer and solid walnut trim pieces exude understated class.

An individually machined high power switch embellishes the hand-crafted plywood cabinet; finished in oiled real wood veneers and extensively braced to ensure low coloration and greater control. The easy to drive load and very high efficiency afford a wide range of partnering amplification from single ended triode to high power solid state designs. Classic looks, contemporary materials and the power of the Gold Reference Dual ensure Turnberry GR is as aesthetically pleasing as it is musically engaging.



KENSINGTON GR

The Kensington Gold Reference continues the marque's heritage of blending time-honoured values with cutting edge performance. Its bold cabinet of finest walnut veneered plywood is extensively braced to house Tannoy's flagship 10" Gold Reference Dual Concentric driver. It's high-efficiency compression driver with 52 mm (2") heat-treated dome, Alnico motor system and high rigidity material creates outstanding dynamics, spacious sound staging and exceptional musical articulation.

The Kensington GR Dual offers an expansive sound stage, extremely high power handling and class-leading musical communication.

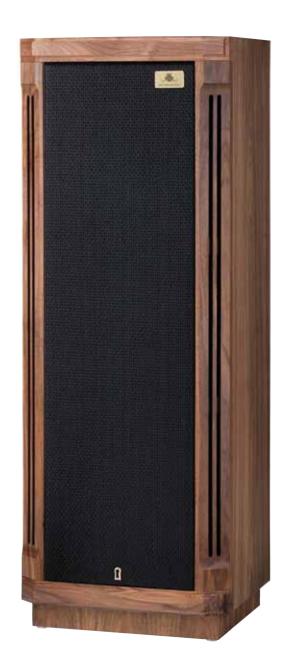
The flagship 10" Dual with its Alnico magnets, identified by its PepperPot WaveGuideTM, is fitted with the latest Tannoy GR cone material, comprising a bespoke paper pulp infused with fibres to increase its rigidity. The Kensington GR Dual offers an expansive sound stage, extremely high power handling and class-leading musical communication. The Kensington GR is set to follow its predecessor models as being one of the most sought after Prestige loudspeakers for its outstanding performance, small footprint and elegant design.





To match the new 10" Dual, the Kensington crossover has been extensively upgraded with custom-specification ICW ClarityCap MR capacitors, low loss laminated core inductors and thick-film resistors, before the entire unit is Deep Cryogenically Treated. This technology brings a wealth of benefits to the Kensington GR sound, including more spacious soundstage, crisper micro dynamic detailing and an exceptional natural HF response.

Attention to detail and unique styling go hand in hand in maintaining the exclusive appeal of this highly respected loudspeaker. Its 18 mm thick birch ply baffle is extensively detailed with walnut inlays and an individually machined metal high power switch. The adjustable HF energy and treble roll off controls allow optimisation of the sound within your listening environment. The Gold Reference upgrades take Tannoy's Kensington to new levels of refinement in every respect ensuring it is as easy to live with as it is exhilarating to listen to.



CANTERBURY GR

The Canterbury Gold Reference provides the power and passion of the 15" Gold Reference Dual Concentric driver within a stunningly attractive cabinet. The new 15" Gold Reference driver is Tannoy's most powerful and articulate Dual to date, boasting an incredible 600 watt peak power handling and offering over 96 dB efficiency in a substantial 235 litre cabinet.

Upgraded extensively for the Gold Reference series, the legendary 15" Dual incorporates many of the technological enhancements 'trickled-down' from Tannoy's flagship Kingdom Royal. The low frequency section of the GR driver has a new fibre enriched paper pulp cone material to realise further improvements in the cone's mechanical characteristics. The cone is terminated with a twin roll surround of impregnated fabric for improved damping characteristics. Modern imaging technology allows incredibly detailed analysis of cone mechanics under load and this has resulted in the stiffest, lightest 15" GR cone to date.

The Canterbury GR's HF unit marks a significant leap forward in the technology and performance of this classic Tannoy driver technology. It comprises a new aluminium-magnesium alloy compression driver diaphragm that has been heat treated to further improve it mechanical integrity under HF loads. The use of new MylarTM surround materials offer improved damping, resulting in exceptional clarity and articulation throughout the HF range. Capable of high-volume listening without fatigue, the Gold Reference Dual brings even greater naturalness and presence to the Tannoy Canterbury loudspeaker.

To provide a cleaner and more accurate signal to the new 15" Dual, the massive Canterbury crossover has been redesigned. Featuring Tannoy-specification ICW ClarityCap MR capacitors, low loss laminated core inductors and thick-film resistors, the entire crossover is Deep Cryogenically Treated as a whole unit. The process has allowed the Canterbury GR to achieve unparalleled gains in resolution and deliver an even more natural and cohesive sound.





The Canterbury GR's 15" Dual with its signature PepperPot WaveGuide, Alnico motor system and HF compression driver delivers a superbly dynamic overall presentation with fast, accurate bass and a fluid and open midrange.

The bespoke birch plywood cabinetry has been engineered with a Variable Distributed Port system allowing low frequency output to be tuned to suit any room dimensions. The extensively braced and damped cabinet is made with time-honoured traditional craftsmanship by Tannoy's finest cabinet makers. The timeless beauty of the oiled walnut veneer, solid walnut mouldings and hand selected burr walnut inlays is complemented with gold anodised individually machined metal trim. The high power switch displays the classic Tannoy lightning strike logo, and on the rear baffle an individually machined nameplate highlights the unique Tannoy technologies incorporated in the design.

The Canterbury GR's 15" Dual with its signature PepperPot WaveGuide, Alnico motor system and HF compression driver delivers a superbly dynamic overall presentation with fast, accurate bass and a fluid and open midrange. The dual variable distributed port system and Tannoy's signature High Frequency power switch gives unique flexibility with room placement and personal tuning. The classic Tannoy design, high-tech advances in driver and crossover manufacturing and the finest British cabinetry make Gold Reference the finest evolution of the classic Tannoy Canterbury to date.

WESTMINSTER GR

This magnificent 530 litre compound horn loudspeaker is a true statement of the art of acoustic reproduction in the home.

The crowning achievement in the Prestige Gold Reference series and the culmination of over 60 years of Dual Concentric driver evolution, Tannoy is immensely proud of the Westminster Royal Gold Reference. This magnificent 530 litre compound horn loudspeaker is a true statement of the art of acoustic reproduction in the home, blending class-leading power handling, real-world dynamics and musical articulation like no other speaker available today.

The Westminster Royal Gold Reference sets a new benchmark for high performance music reproduction and owes much of its evolution to Tannoy's Kingdom Royal development project. The new 15" Dual Concentric driver is a natural but significant evolution of the classic 15" Dual, improving on every aspect of its performance both technically and subjectively. Within the Westminster Royal GR cabinet, the new driver exceeds an 18 Hz to 27 kHz frequency response while boasting 99 dB efficiency and 700 watt peak power handling.

Key to the new Westminster Royal Driver is revised cone material and a new 52mm (2") diaphragm at the heart of the HF compression driver. The cone material remains a paper-pulp base with fibres introduced into the mix to improve the stiffness to weight ratio. While previous flagship Duals were stiffened with natural kapoc fibres, the Gold Reference Duals integrate a bespoke Tannoy synthetic fibre that delivers more uniformed mechanical integrity across the entire surface area of the cone.

The result is effortless LF performance with outstanding speed and dynamic attack. Rich bass tones and incredible separation of instruments make for a truly impressive sound. The depth and power of Timpani drums is incredibly realistic with a scale that few other loudspeakers can reproduce regardless of cost. Through the midrange and crossover frequencies the new driver offers lower colouration, improved transient attack and greater naturalness into the vocal region.





Constructed of an aluminium-magnesium alloy that is heat treated to Tannoy's exacting specifications, the high frequency diaphragm is terminated with a Mylar surround. It is both technically and subjectively a significant upgrade over the HF units in previous 15" Duals. It delivers exceptional clarity and articulation throughout the HF range and gives Westminster Royal GR even greater naturalness and presence.

The massive Westminster Royal GR crossover is meticulously hand-made by Tannoy engineers and comprises some of the finest audio components available today. Tannoy's bespoke ICW ClarityCap MR capacitors, low loss laminated core inductors and thick-film resistors are hard-wired into the crossover with both PCOCC copper and bespoke high purity silver cable, appropriate to specific frequencies, with high-silver content solder. The entire crossover board is then Deep Cryogenically Treated, improving the crystal structure of all conductors in the signals path, and leading to sweet, open and incredibly detail HF performance.

Hand built from the finest birch plywood by Tannoy's most experience cabinet makers, the magnificent Westminster Royal GR cabinet weighs close to 140 kg when finished.

The complex, compound horn design and curved front baffle allow the 15" Dual to 'breath' better than direct radiating models, delivering truly real-world dynamics and musical integrity. The luxury oiled-wood walnut veneered panels and solid mouldings, the individually machined metal trim and return of the classic Tannoy lightning strike logo exude the regal class of bespoke furniture. An individually machined nameplate, mounted on the rear baffle, highlights the unique Tannoy technologies incorporated in the design.

With its new 15" Dual, Deep Cryogenically Treated crossover and new terminal panel featuring the latest WBT NextGen WBT-0703 speaker posts, it delivers musical engagement with the same breath-taking scale as its visual splendour. The high power switch allows fine-tuning of high frequency energy and treble roll off so that the system is best matched to the listening environment or your personal taste. Signifying its status at the top of the Prestige GR range, the Westminster Royal GR sports the same grille cloth as used on the Kingdom Royal. An effortlessly capable loudspeaker that honours decades of Dual Concentric technology and Tannoy the Brand, the Westminster Royal GR is set to become a true Tannoy classic.

TECHNICAL SPECIFICATIONS



Stirling GR

Turnberry GR

Recommended Amplifier Power

Continuous power handling
Peak power handling

Sensitivity

Performance

Nominal Impedance

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Minimum Impedance

Frequency Response

Dispersion

Dual Concentric Drive Unit

Low Frequency

High Frequency

Crossover

Crossover Type

Crossover Frequency

Adjustments

Cabinet

Enclosure Type

Volume

Dimensions (H x W x D)

Construction

20 to 170 watt RMS

85 watt RMS

340 watt

91 dB (2.83 volt @ 1 m)

8 ohm

5 ohm

39 Hz - 46 kHz (-6 dB)

90 degrees conical

254 mm (10") with paper pulp cone and twin roll

impregnated fabric surround.

42 mm (1 5/8") edge wound voice coil

25 mm (1") aluminium/magnesium alloy dome

with edge wound voice coil

Bi-wired, hard-wired passive, low loss.

2nd order low pass. 2nd order high pass.

1.8 kHz

+/-3 dB over 1.8 kHz to 46 kHz shelving

Dual distributed port

85 litres (3.00 cu. ft.)

850 x 397 x 368 mm

(33.46 x 15.63 x 14.49")

Walnut veneered with solid walnut trim and edging. Internally cross braced and heavily damped.

20 to 200 watt RMS

100 watt RMS

400 watt

93 dB (2.83 volt @ 1 m)

8 ohm

5 ohm

34 Hz - 44 kHz (-6 dB)

90 degrees conical

 $254mm\ (10^{\prime\prime})$ with paper pulp cone and twin roll

impregnated fabric surround.

52 mm (2") edge wound voice coil

33 mm (1.3") aluminium/magnesium alloy dome

with edge wound voice coil

Bi-wired, hard-wired passive, low loss.

2nd order low pass. 2nd order high pass.

1.3 kHz

+/-3 dB over 1.3 kHz to 44 kHz shelving

Dual distributed port

100 litres (3.53 cu. ft)

950 x 456 x 336 mm (37.40 x 17.95 x 13.23")

Walnut veneered with solid walnut trim and edging Internally cross braced and heavily damped.



Kensington GR

20 to 250 watt per channel

Canterbury GR



Westminster GR

Performance

Recommended Amplifier Power

Continuous power handling 125 watt RMS

Peak power handling 500 watt

Sensitivity 93 dB (2.83 volt @ 1 m)

Nominal Impedance 8 ohm

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Minimum Impedance 5 ohm

Frequency Response $29\;Hz\;\text{-}\;27\;kHz\;(\text{-}6\;dB)$

Dispersion 90 degrees conical

Dual Concentric Drive Unit

 $Low \ Frequency \ 250 \ mm \ (10'') \ with \ paper \ pulp \ cone \ and \ twin \ roll$

impregnated fabric surround.
52 mm (2") round wire voice coil

High Frequency 52 mm (2") aluminium/magnesium alloy dome

with round voice coil

Crossover

Crossover Type Bi-wired, hard-wired passive, low loss.

Time compensated. 2nd order low pass.

2nd order high pass.

Deep cryogenically treated

Crossover Frequency 1.1 kHz

Adjustments +/-3 dB over 1.1 kHz to 27 kHz shelving

+ 2 dB to -6 dB per octave over 5 kHz to

27 kHz slope

Cabinet

Enclosure Type Distributed port

Volume 105 litres (3.7 cu. ft.)

Dimensions (H x W x D) 1100 x 406 x 338 mm

(43.31 x 15.98 x 13.31")

Construction Particle board with high density birch ply baffle

and rear panel, 18 mm (0.71") thickness. Interally

cross braced and heavily damped

20 to 300 watt per channel

150 watt RMS

600 watt

96 dB (2.83 volt @ 1 m)

8 ohm

5 ohm

28 Hz - 27 kHz (-6 dB)

90 degrees conical

380 mm (15") with paper pulp cone and twin roll

impregnated fabric surround.
52 mm (2") round wire voice coil

52 mm (2") aluminium/magnesium alloy dome

with round wire voice coil

Bi-wired, hard-wired passive, low loss.

Time compensated. 2nd order low pass. 2nd order high pass.

Deep cryogenically treated

1.1 kHz

+/-3 dB over 1.1 kHz to 27 kHz shelving + 2 dB to -6 dB per octave over 5 kHz to

27 kHz slope

Dual variable distributed port

235 litres (3.71 cu. ft)

1100 x 680 x 480 mm (43.31 x 26.77 x 18.90")

High density birch ply, walnut veneered, with solid walnut trim, 25mm (1") thick front baffle. Internally

cross braced and heavily damped

20 to 350 watt per channel

175 watt RMS

700 watt

99 dB (2.83 volt @ 1 m)

8 ohm

5 ohm

18 Hz - 27 kHz (-6 dB)

90 degrees conical

 $380 \ mm \ (15'')$ with paper pulp cone and twin roll

impregnated fabric surround.
52 mm (2") round wire voice coil

52 mm (2'') aluminium/magnesium alloy dome

with round wire voice coil

Bi-wired, hard-wired passive, low loss. Time compensated. 2nd order low pass.

2nd order high pass.

Deep cryogenically treated

200 Hz acoustical, 1.0 kHz electrical

 \pm 4 dB over 1.0 kHz to 27 kHz shelving

+ 2 dB to -6 dB per octave over 5 kHz to

27 kHz slope

Compound horn

530 litres (18.72 cu. ft)

1395 x 980 x 560 mm (54.92 x 38.58 x 22.05")

High density birch ply, walnut veneered, with solid

walnut trim and edging



TANNOY





WELCOME PACK

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