TANNOY®

PRESTIGE

The Range

Tannoy Prestige loudspeakers have certainly always been out of the ordinary; wonderfully individual and totally unlike any other speakers. Distinctive, distinguished and proud, they transcend mere fashion and have captured the imagination of music connoisseurs all over the world.

Tannoy Prestige loudspeakers have certainly always been out of the ordinary; wonderfully individual and totally unlike any other speakers. Distinctive, distinguished and proud, they transcend mere fashion and have captured the imagination of music connoisseurs all over the world. The designs comfortably complement any decor from ancient castle through to cool, casual and contemporary. The only rules we absolutely adhere to when designing and crafting Prestige loudspeakers is to utilise the most up to date, no compromise, acoustic technologies and time-proven cabinet making skills ensuring the very best sounding loudspeakers you will find …anywhere.

The confidence in our company's skill is derived from an enthusiastic workforce and a heritage that only a very small handful of audio manufacturers can boast. Indeed it all began a very long time ago…

In the early days of broadcasting all radio sets needed both low and high voltage DC power; something that could only be supplied by batteries. The lead acid batteries commonly used for the radio equipment of the time would, of course, need regular recharging.

In London, in 1926, Guy R. Fountain perfected a new type of electrical rectifier with the aim of designing a charger more suitable for use in the home. His rectifier consisted of two dissimilar metals held in a special electrolyte solution; one was Tantalum and the other an alloy of Lead. So successful was this invention that Guy Fountain founded a British company by the name of Tannoy, a contraction of the words '**Tan**talum' and 'All**oy**', and this brand name went on to become internationally renowned and highly regarded in all aspects of sound reproduction.

Early experiments with moving coil loudspeakers with DC energised magnets proved the company's first foray into the field of loudspeaker technology; starting with a discrete two-way loudspeaker system in 1933 followed shortly after with a range of microphones. These developments led to loudspeakers capable of high power handling enabling the company to become world famous in the field of public address and sound distribution. The company had an important role in communications systems during the war years and countless prestigious installations were completed in subsequent decades. So effective was the company's penetration in this market that in the late forties the Oxford English Dictionary adopted the word 'Tannoy' as the generic term for a Public Address system; still the case to this day.

Tannoy has always been at the forefront of the communications revolution, developing its own equipment and production technology. The company has built up a fund of knowledge and experience which has proved invaluable in the development of loudspeakers for an exceptionally wide range of applications. The famous Tannoy Dual Concentric™ loudspeaker driver principle was created and developed by a gifted Tannoy engineer, a creative genius called Ronnie Hastings Rackham, in the late 1940's. It is still highly regarded by music enthusiasts, recording facilities and broadcast studios worldwide due to its unique point source dispersion properties. Due to its complex design, where the high frequency unit is mounted behind, and concentrically with, the low frequency unit, the low and high frequencies are fully integrated at source. This unique feature is what gives the Dual Concentric™ driver such matchless sound reproduction qualities.

The Tannoy Research and Development team has continued to refine the innovative Dual Concentric™ drive unit principle alongside progress in the design of sophisticated crossover circuit techniques; this while ensuring that the very latest design and material technologies are implemented in all areas.

With the introduction of the Prestige SE series Tannoy has combined these technical developments and manufacturing principles with timeless aesthetic design. Superb reproduction capabilities and exceptionally wide dynamic range ensure every SE model retains its individual status as a high performance loudspeaker for the discerning music lover.

TAN 110Y

Westminster Royal SE

The Westminster Royal SE, the crowning achievement of the Prestige range, combines hand built traditional compound horn loaded enclosure with the latest technological innovation in acoustical engineering.

The 15″ Dual Concentric™ drive unit incorporates an Alnico magnet system with an integral computer designed and manufactured reverse throat high frequency PepperPot WaveGuide™ for exceptional transient response and increased sensitivity. A 'hard edge' cone surround and unique chassis earthing system deliver tight, fast and controlled bass with fluid and transparent midrange and high frequency performance of great purity.

The magnificent 530 litre cabinet with its complex horn loading system delivers greatly increased efficiency with a wave front area approaching that from real instruments. Effortlessly capable of resolving truly low frequencies and the reproduction of the dramatic dynamic range of musical instruments with stunning realism, this is a true Tannoy classic.

Canterbury

The 15″ version of the Tannoy Dual Concentric™ drive unit in the Canterbury SE is equipped with an Alcomax 3 magnet system and the Tannoy PepperPot WaveGuide™ to further enhance the point source symmetrical dispersion properties of the driver. Acoustically this speaker delivers a superbly dynamic overall presentation with fast, accurate bass, fluid and open midrange and clean, spacious high frequencies – an exceptionally involving performance. With such impressive performance available the useful addition of a Variable Distributed Port System allows low frequency output to be tuned to suit any room dimension. Careful consideration has been given to the precise layout of all the Prestige crossovers in order to minimise inter-component coupling and they are positioned well away from the driver to avoid any detrimental magnetic field effects.

Birch ply panels and a complex internal bracing structure create an exceptionally substantial enclosure. The timeless beauty of the oiled walnut veneer exterior finish, with its hand selected burr walnut inlays and solid walnut mouldings, ensures that these audiophile loudspeakers are undoubtedly destined to become true family heirlooms.

The Chatsworth cabinet, seen here in construction in 1958, contained a 12″ Dual Concentric™ Monitor Red drive unit. The cabinet on the bench behind and the multi aperture baffles on the left went together to create the VertiLinear public address loudspeaker launched in 1957.

These loudspeaker enclosures from the Tannoy range are designed to take full advantage of the outstanding performance of the 'Monitor' Dual Concentric loudspeaker units. The result is the highest attainable listening quality for home entertainment.

These enclosures are hand constructed from selected solid woods, exterior grade laminated wood and hand chosen, hand polished veneers, while the fabric employed is acoustically transparent and may be easily cleaned.

The introduction of the **Chatsworth Aperiodic Enclosure** made possible for the first time a loudspeaker assembly of small physical dimensions with excellent bass response. No trick effects are used to achieve these results, there being no semi-resonant cavities or reflexes. Its popularity has led to the introduction of the **Chatsworth II**—re-styled to extend even further its suitability for the smaller room, without any sacrifice in performance.

This loudspeaker assembly being of small yet elegant proportions is ideal used in pairs for stereophonic reproduction. The legs may be readily removed thereby reducing the overall height by approximately 4″

The well-established **York** and **Canterbury** enclosures introduced for the first time the dual-throated port principle, thereby making a notable advance on the more orthodox type of reflex cabinet. These enclosures have become the accepted quality standard by leading recording and broadcasting concerns. Of greater cubic capacity than the **Chatsworth II,** these enclosures are eminently suited to the larger room where a higher listening level can do full justice to their outstanding performance. The modern, yet restrained, design of these loudspeakers ensures that they will be worthy additions to any furnishing scheme.

CHATSWORTH II

TANNOY HIGH

APERIODIC ENCLOSURE
MONITOR 12″ UNIT

The dimensions and constructional details given are intended to guide the home constructor in building cabinets having similar acoustic characteristics to those shown.

The fabric used must have a very open weave otherwise the performance of the loudspeaker will be prejudiced. The cabinets should be glued and screwed with corner blocks and cross braces added to ensure rigidity, the thickness of timber should not be less than ¾″.

All internal surfaces of the cabinet should be lagged to a depth of some 8″. This is essential and may be formed by a "pillow" of cotton waste or glass wool. In the case of the **York** and the **Canterbury,** the thickness of the lagging at the bottom of the cabinet may be increased to 8″ with advantage.

The dimensions may be varied slightly providing the cubic capacity remains substantially unchanged.

Yorkminster SE

Embodying all that is essential in a classic Tannoy loudspeaker, the Yorkminster SE is a blend of proven acoustic design, exceptional traditional craftsmanship and cutting edge audio technology. This truly remarkable loudspeaker reproduces music with a performance that ranges effortlessly from captivating delicacy to breathtaking scale and impact. The Alnico magnet system endows the 12" version of the renowned Tannoy Dual Concentric™ driver in the Yorkminster SE with an exceptional transient response and greatly increased sensitivity over standard motor system materials. The classic aesthetic design of the hand built cabinet is finished in premium hardwood veneers with beautiful solid wood mouldings.

Kensington

In combining the best of bespoke cabinet making with the latest production and acoustic design skills, Tannoy presents a loudspeaker that blends time-honoured values with cutting edge audio performance. Traditional aesthetic meets modern technology to create a loudspeaker that is as easy to live with as it is exhilarating to listen to. A 10″ Dual Concentric, with Alnico magnet system and the Tannoy PepperPot WaveGuide™, is mounted in a comprehensively braced and solidly constructed mahogany cabinet. This combination delivers superb dynamics with fluid mid-range, focused imaging, spacious sound staging and deep, controlled bass performance.

Sandringham

Although it is the most compact floor-standing loudspeaker in the Tannoy Prestige range, the Sandringham SE compromises nothing compared to its siblings in terms of the standard of craftsmanship and acoustic engineering. The hand made cabinet, constructed from hand-selected walnut, is finished to an exceptionally high standard. An 8″ Tannoy Dual Concentric™ driver and premium quality crossover combine with this rigid enclosure to ensure optimum performance.

Stirling

A compact floor-standing speaker that uses a 10″ Tannoy Dual Concentric™ in a cabinet design optimised to produce bass performance with superb control and extension, allied to spacious, fluid mid-range and high frequencies of great purity and detail. The cohesion of the stereo sound staging reproduced by the Stirling SE, a characteristic common to all the Dual Concentric™ equipped Prestige models, is involving and believable, delivering remarkable spaciousness and presentational stability in equal measure.

Turnberry

This beautiful design is undoubtedly a timeless Tannoy classic; one which uses cutting edge technology in its 10″ Dual Concentric™ drive unit and the finest crossover components to create a thrillingly dynamic and realistic performance; all delivered with consummate ease. All components and cabinets are still hand assembled in the time-honoured fashion to ensure that attention to detail and unique styling go hand in hand in maintaining the exclusive appeal of this highly respected and sought after loudspeaker.

Autograph Mini

The Autograph mini is a hugely scaled-down but authentic version of a loudspeaker that was famous throughout the audio world fifty years ago. Reduced to a fraction of the size of the immense and revered original Tannoy Autograph this exquisite replica is the ultimate modern retro audio product. Its diminutive size and accurately detailed finish produce a modern day classic that will embellish the most contemporary surroundings.

Remaining true to the cabinet build and finish quality of that yesteryear model, the Autograph Mini naturally incorporates a Dual Concentric™ driver - the unique engineering statement that makes this speaker a 'real' Tannoy. Incorporating wide bandwidth technology to ensure breathtaking performance from a unit measuring just 4" in diameter, this is the smallest 'Dual' ever manufactured. And following in the footsteps of its proven heritage the driver utilises a heavy cast alloy frame and multi fibre paper pulp cone. Delivering natural midrange and well defined bass, the traditional but high tech cone material also ensures subtlety with stunning detail and expansive imaging.

A key component of the Autograph Mini is the titanium diaphragm high frequency unit positioned on the same axis as the bass section. Fitted with a neodymium magnet system to deliver a smooth response up to an incredible 54kHz, this key component in the Autograph Mini enhances the loudspeaker's strikingly true to life performance. Ensuring complete signal path integrity, 99.99% high purity silver cable is used to connect the tweeter to the system's minimalist crossover network - a thoroughbred audiophile component in itself that includes low loss inductors and specially damped audio grade capacitors.

High density birch ply with hardwood veneers and solid hardwood mouldings are utilised in the unique and chic design of the hand finished cabinet. As with its erstwhile and larger predecessor, authentic oatmeal coloured grille cloth is used to conceal the driver and is also inlayed within the angled sides towards the front of the miniature hexagonal cabinet.
A high performance loudspeaker designed for the discerning fashion conscious.

Glenair

While embodying the long established company philosophy of no compromise acoustic performance, the Glenair brings a fresh and modern styling approach to the Tannoy Prestige range.

Utilising the proven acoustic benefits of a trapezoidal cabinet design, Glenair bears all the hallmarks of bespoke loudspeaker craftsmanship but with a more contemporary feel. Plywood manufactured from birch grown in slow-growing cold regions of the world and selected for its denser quality is used for the main structure of the speaker cabinet. The combination of heavily damped material, comprehensive internal bracing and non–parallel side panels alleviate the problems associated with standing waves, ensuring that the loudspeaker is free from unwanted resonance.

Externally the cabinet is finely crafted with American Cherry veneer and solid wood mouldings hand finished and polished to an unsurpassed standard. No unsightly retaining lugs spoil the clean lines of the speaker's front panel when the curved, acoustically transparent grille is removed; this thanks to the cleverly designed magnetised fixing method within the baffle structure.

As with all other Prestige models, the two Glenair models benefit from the many advantages of the world-renowned Tannoy Dual Concentric™ drive unit with its unique and superior sound reproduction qualities. The carefully engineered components of the latest version of the 10″ and 15″ Dual Concentric™ drivers fitted to the Glenair 10 and Glenair respectively, present an astonishingly true to life performance with an open, coherent and utterly involving soundstage. Effortless bass dynamics, open midrange and meticulously detailed high frequency with a delicacy of treble nuances are assured.

Each component part of the new Glenair models complement one another to deliver an audiophile loudspeaker that runs true to the highly respected pedigree of the Prestige range and as such maintains Tannoy's leading position as an innovator of premium audio solutions.

Glenair

Glenair 10

Super Tweeter™

Always an innovator where quality sound reproduction is concerned, Tannoy has continued this tradition by being at the forefront of the development of WideBand™ technology. All Prestige models except Autograph Mini are compatible with Tannoy's SuperTweeter™ designs, providing the opportunity to extend high-frequency response to above 50 kHz, thereby providing all of the bandwidth required for today's wide bandwidth digital recording formats.

In fact the SuperTweeter™ only starts working at a point that is close to what is generally considered the limit of the audible frequency band for most adults. The Dual Concentric™ in the main loudspeaker, still working to its full frequency specifications, continues to provide the heart of the musical information as a coherent point source. However, the extreme high frequencies are then resolved by the SuperTweeter™ to provide incredible, wide bandwidth detail and enlivening the performance by increasing the tonal accuracy of individual instruments for more natural and true to life music reproduction.

The Tannoy SuperTweeter™ extends the high frequency capability of the complete loudspeaker system out to beyond 50kHz. This in turn corrects the time and phase response at the upper end of audibility to deliver enhanced accuracy and spaciousness, improved clarity within the essential mid band area and even an enhancement of the definition and impact of low frequencies. Benefits are heard clearly with any source material, regardless of bandwidth, therefore ensuring that a Tannoy SuperTweeter™ is an essential accessory.

ST200

The oiled American Walnut casing of the ST200 is specifically designed to partner the Prestige range of Dual Concentric™ loudspeaker designs. From Stirling SE right through to the iconic Westminster Royal SE, this SuperTweeter has adjustment optimisation, appearance, style, construction and performance to greatly improve the overall listening experience.

Supplied with detailed crossover set up instructions and a calibrated location gauge, to allow accurate front to back positioning for all Prestige loudspeaker designs past and present, this simple installation delivers a substantial acoustical enhancement.

The wide range of adjustments provided for crossover frequency and level ensure that the ST200 is equally suited to the earlier classic Tannoy designs, including older Prestige, HPD, Monitor Gold or Monitor Silver models.

Super Tweeter™

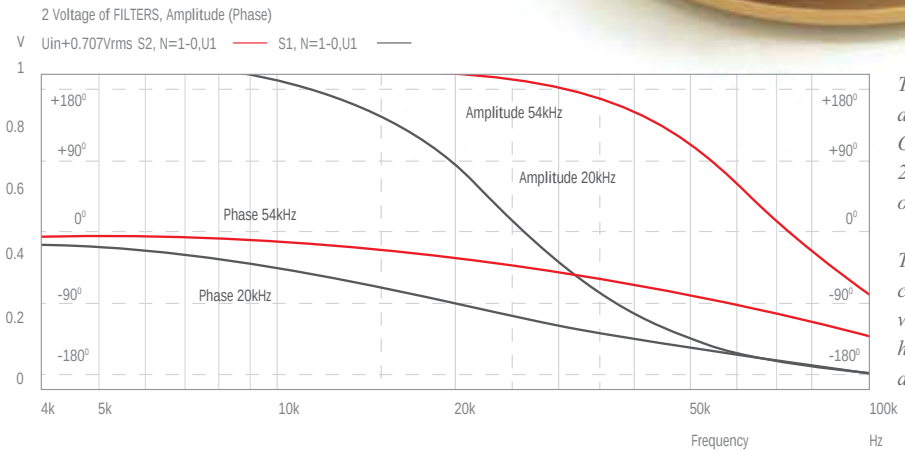
ST200

Super Tweeter™
ST100

ST100

The ST100 is constructed with the same Performance Platform™ as the ST200, but this time with a solid black ash enclosure. This model is provided with a different range of crossover and frequency control settings designed to offer wider flexibility to acoustically match all types of speakers, regardless of manufacturer. In addition the ST100 is optimised for use with older Tannoy Dual Concentric™ models, many going back over 45 years to the original 15″ Monitor Red derivatives.

Super Tweeter™
ST50



This plot shows the phase error for two different loudspeaker systems.
One system has an upper end roll off at 20kHz (black curve) while the other extends on out to a 54kHz (red curve) roll off.

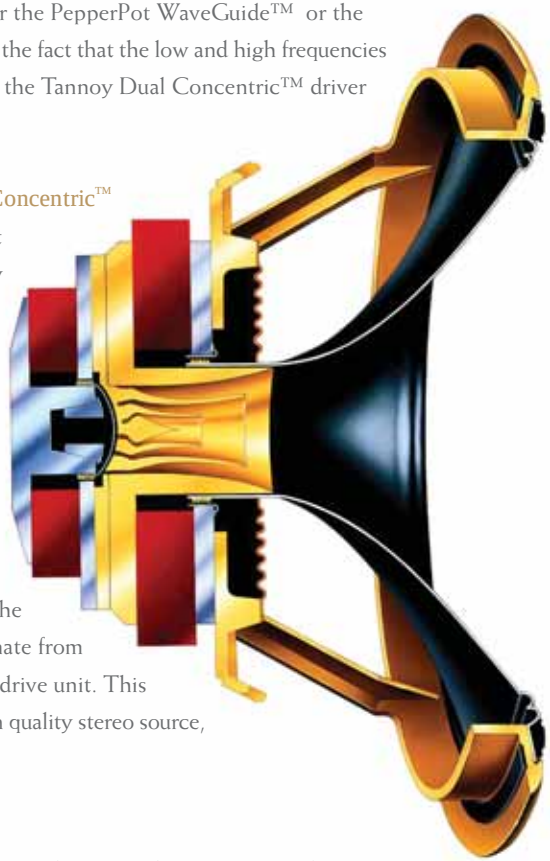
There is clearly less phase error in the latter case, not just at high frequencies, but also well within the accepted range of human hearing where harmonic recognition starts as low as 5kHz.

ST50

Constructed from solid aluminium die-castings coated with a soft feel, non-reflecting finish, this innovative modern design is designed to visually blend with all types of speakers. With a wide range of adjustment settings designed to integrate with the product with which it is partnered, the ST50 is a spectacularly instant acoustic upgrade. Arguably one of the most cost effective performance enhancements you can apply to your audio system; one that completes the musical picture with an increased immediacy, airiness and impact, making music more true to life.

Tannoy Dual Concentric™ Drive Unit

The unique advantage of the Tannoy Dual Concentric™ principle is that the low and high frequency sound radiation is generated on the same axis. In effect, the Dual is a single chassis comprising two separate drive units properly merged into one, with the high frequency unit mounted in the centre of the pole piece of the low frequency unit. High frequency sound radiates from the centre of the low frequency unit through a carefully designed high frequency exponential horn, either the PepperPot WaveGuide™ or the Tulip WaveGuide™ dependant on the model. It is the fact that the low and high frequencies are therefore fully integrated at source that gives the Tannoy Dual Concentric™ driver such unique sound reproduction qualities.



Three significant acoustic benefits of the Dual Concentric™

The location of the high frequency unit does not physically obstruct the low frequency unit in any way; a unique feature when compared with industry standard coaxial systems.

Polar dispersion of sound is symmetrical in both the horizontal and vertical planes.

By careful crossover network design the virtual acoustic sources of the high and low frequency units can be made to occupy the same point on the axis. Therefore the whole sound appears to emanate from a single point source located slightly behind the drive unit. This means that the loudspeakers, when fed from a high quality stereo source, can recreate a full and accurate stereo image.

Low Frequency Section

The low frequency section of the Dual Concentric™ drive units have exceptional power handling and dynamic range. The low frequency cone piston is produced from selected multi-fibre paper pulp. This is specially treated to absorb internal resonance modes.

A treated fabric surround, or rubber surround in the case of Autograph Mini, is designed to correctly terminate the moving cone and provide optimum compliance and linearity at large excursions. The cone piston is driven by a high power motor system, which in selected models uses an Alnico magnet.

Alnico is an unusual iron/nickel alloy doped during the melt process with cobalt and aluminium to produce a magnetic material with very special properties. Having a high remanant magnetism and energy product, Alnico magnetises to a high level and retains an unusual degree of magnetisation. Alnico is also an electrical conductor. These properties give the Alnico magnet equipped Dual Concentric™ drivers an exceptionally clean transient response and increased sensitivity. The coil is wound with a special high temperature adhesive system and individually cured to ensure reliable operation at high peak power inputs. The shape of the low frequency cone is arranged to provide optimum dispersion of audio frequencies at both the high and low ends of the spectrum. The cone flare continues the high frequency horn profile to ensure a smooth transition at the crossover point.

High Frequency Section

The high frequency driver consists of a wide dynamic range compression unit giving superb transient performance with a smooth uncoloured response. The compression unit feeds acoustic power through a low compression phase compensating device, either the Tannoy Tulip Waveguide™ or the PepperPot WaveGuide™, to the throat of the acoustic horn formed by the low frequency cone.The low frequency cone profile provides a second waveguide with acoustic impedance transformation to match the high frequency radiation into the listening environment.

Either a titanium or aluminium alloy diaphragm, formed by a specially developed process, produces a piston with a very high stiffness to mass ratio. Optimum molecular grain structure gives long-term durability. A low mass precision coil provides the driving force for the diaphragm, energized by a powerful magnet system. A damped acoustic cavity to one side of the diaphragm controls the compression driver response and ensures perfect integration at the crossover point.

Crossover

Having re-evaluated the performance of models throughout the Prestige range, Tannoy engineers selected the latest cutting edge components and materials at their disposal to introduce several performance enhancing amendments to the crossover topologies within the 'SE' models. To optimise acoustic performance only components of the highest possible standard have been used.

Westminster Royal SE, Canterbury SE, Yorkminster SE and Kensington SE:

These models benefit from Acrolink® cable right through from terminal panel to crossover, crossover to drivers and the LF board wiring itself; not forgetting the bi-wire links. Cables produced by Acrolink® use self-stipulated 6N copper, constructed using the same process as is used with wires for semiconductor devices, which require a guarantee of high quality. More precisely, the purity of the copper needs to be over 99.9999% and the total of any impurity metals must be less than 1 part per million. The quality of this cable ensures that a powerful yet delicate and natural, fast response is accomplished throughout the signal path.

Very low loss laminated iron core inductors on the LF ensure that there is less resistance between the amplifier and driver, resulting in superior bass control. High purity silver (99.99%) link wires maintain signal path integrity on the separate HF crossover board and for the HF feed capacitor Hovland Musicaps® are used with a special Tannoy DMT™ (Differential Material Technology) isolation sleeve.

Hovland Musicaps® are renowned for their exceptional dynamics, speed, focus, correct timbre and depth of field, and true inter-transient silence. Separate layers of polypropylene film and conductive foil deliver superior clarity of reproduction that metalised capacitors cannot match. High quality ICW Musicaps are used in other areas. Vishay thick film non-inductive resistors are used in critical areas, with extensive heat sinking where necessary. The stable component temperature provided by the heat-sinking feature ensures maximum reliability and an even and consistent sound quality.

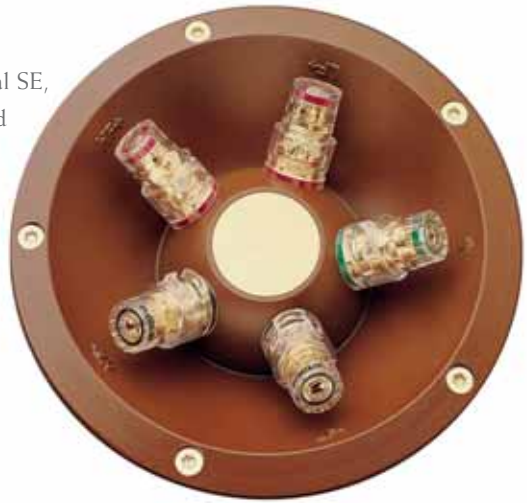
Turnberry SE, Sandringham SE and Stirling SE:

Hard-wired crossovers are used throughout and the routing of each cable has been painstakingly considered to ensure there is no degradation in sound quality. Similarly, the components have been carefully arranged to avoid any coupling effects. In particular, incredible transparency in the mid band has been achieved providing an enhanced true-to-life vocal clarity. Completely redesigned crossovers, incorporating the most up-to-date high quality components, have taken these models to a new level of acoustic excellence. ICW Clarity Caps have been included for high frequency (HF) section of the crossovers, while high quality metalised film capacitors are used in LF sections. The LF crossover also makes use of very low loss laminated iron core inductors. Internal connections from input terminals to crossover, internal crossover wiring and crossover to Dual Concentric™ drive unit are made with the exceptional VDH MC CS18 halogen free silver-plated cable.

Terminal panel

5-point (bi-wire and ground point) gold plated terminals have been incorporated on all the upgraded Prestige SE models. With the driver chassis grounded via the 5th terminal, and by using appropriate speaker cable, this proven technology, developed on earlier Prestige models, minimises the effects of RF interference resulting in a more transparent midrange.

Additionally the Westminster Royal SE, Canterbury SE, Yorkminster SE and Kensington SE use high quality WBT™ connectors to ensure easier connection of substantial loudspeaker cable whilst maintaining complete signal path integrity.



A Note on Auditory Perception

Our hearing mechanism locates natural sound sources with great accuracy by using the naturally occurring phase differences (or arrival times) at middle frequencies, and intensity differences at higher frequencies, between each of our ears. Naturally occurring sounds pass through the air to the ears at constant speed (345 metres/second or 1132 feet/second). All frequencies travel at the same speed and therefore a frequency independent time delay is associated with the distances involved. (The familiar time delay between a flash of lightning and the associated clap of thunder is an example). Human hearing relies on the constant nature of the time delay at all frequencies and the intensity of the sound to locate natural sounds accurately. A pair of Tannoy Dual Concentric™ equipped loudspeakers can uniquely reconstruct stereo images and provide excellent localisation of recorded sounds by ensuring that the source of sound at high frequencies is at the same point in space as the source of sound at low frequencies.

The careful design of the crossover network complements the drive unit to provide a coincident sound source at frequencies where the human ear derives phase information for localisation. The loudspeaker system exhibits a time delay response that is in essence independent of reproduced frequencies. In addition, the amplitude (or intensity) response is linear, smooth and consistent. This provides the correct intensity information to recreate the original sound stage.

Dr. Paul Mills
Director of Engineering
(Tannoy Residential Audio)

Specifications

Guy Fountain at his desk in the Dalton Street Factory, 1930.

Specifications

	Westminster Royal	Canterbury	Yorkminster	Kensington
Recommended amplifier power	50 - 225 Watts	50 - 275 Watts	50 - 250 Watts	50 - 225 Watts
Continuous power handling	135 Watts RMS	140 Watts RMS	150 Watts RMS	135 Watts RMS
Frequency response	18Hz - 22kHz, -6dB	28Hz - 22kHz, -6dB	23Hz - 22kHz, -6dB	29Hz - 22kHz, -6dB
Sensitivity	99dB (2.83 Volts @ 1 metre)	96dB (2.83 Volts @ 1 metre)	95dB (2.83 Volts @ 1 metre)	93dB (2.83 Volts @1 metre)
Nominal impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms
DRIVE UNITS				
Dual Concentric™ high frequency	51mm (2") with Aluminium alloy dome, Alnico magnet system with Pepperpot Waveguide™	51mm (2") with Aluminium alloy dome, Alnico magnet system with Pepperpot Waveguide™	51mm (2") Aluminium alloy dome, Alnico magnet system with PepperPot Waveguide™	51mm (2") Aluminium alloy dome, Alnico magnet system with PepperPot Waveguide™
Dual Concentric™ low frequency	380mm (15") Treated paper pulp cone with HE twin roll fabric surround. 52mm (2") round wire wound voice coil	380mm (15") Treated paper pulp cone with HE twin roll fabric surround. 52mm (2") round wire wound voice coil	300mm (12")Treated paper pulp cone with HE twin roll fabric surround. 52mm (2")round wire voice coil	250mm (10")Treated paper pulp cone with HE twin roll fabric surround. 52mm (2") round wire voice coil
Dispersion	90 degrees conical	90 degrees conical	90 degrees conical	90 degrees conical
CROSSOVER				
Frequency	200Hz acoustical,1kHz electrical	1.1kHz	1.1kHz	1.1kHz
Type	Bi-wired, hard wired passive, low loss time compensated 2nd order LF, 2nd order compensated HF	Bi-wired, hard wired passive, low loss 2nd order low frequency, 2nd order compensated HF	Bi-Wired, hard wired passive, low loss 2nd order compensated LF, 2nd order compensated HF	Bi-Wire, hard wired passive, low loss 2nd order compensated LF, 2nd order compensated HF
Adjustment	+/- 3dB over 1kHz to 22kHz shelving, +2dB to - 6dB per octave over 5kHz to 22kHz slope	+/- 3dB over 1.1kHz to 22kHz shelving, + 2dB to - 6dB per octave over 5kHz to 22kHz slope	+/- 3dB over 1.1kHz to 22kHz shelving, +2dB to - 6dB per octave over 5kHz to 22kHz slope	+/- 3dB over 1.1kHz to 22kHz Shelving, +2dB to - 6dB per octave over 5kHz to 22kHz slope
CONSTRUCTION				
Enclosure type	Compound horn	Dual variable distributed port system	Twin rear ported	Distributed Port
Volume	530L (18.7 cu.ft)	235L (8.3 cu.ft)	200L (7 cu.ft)	105L (3.7 cu.ft)
Dimensions	1395 x 980 x 560mm (55 x 38½ x 22")	1100 x 680 x 480mm (43½ x 26¾ x 19")	1080x 620 x 447mm (42½ x 24½ x 17½")	1100 x 406 x 338mm (43½ x 16 x 13⅓")
Weight	138kg (304 lbs)	63kg (139 lbs)	61.5kg (135.6 lbs)	37kg (81.6 lbs)
Finish	Walnut veneer with solid walnut edging and trim detail	Walnut veneer with solid walnut edging and burr walnut trim detail	Lacquered teak veneer with solid teak trim detail	Lacquered mahogany veneer with solid walnut edging and trim detail

Specifications

	Sandringham	Stirling	Turnberry	Autograph Mini
Recommended amplifier power	30 -150 Watts	30 - 150 Watts	30 - 180 Watts	20 - 100 Watts
Continuous power handling	95 Watts RMS	95 Watts RMS	110 Watts RMS	50 Watts RMS
Frequency response	39Hz - 25kHz, -6dB	35Hz - 25kHz, -6dB	34Hz - 25kHz, -6dB	68Hz - 54kHz, -6dB
Sensitivity	90dB (2.83 Volts @1 metre)	91dB (2.83 Volts @ 1 metre)	93dB (2.83 Volts @ 1 metre)	88dB (2.83 Volts @ 1 metre)
Nominal impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms
DRIVE UNITS				
Dual Concentric™ high frequency	25mm (1") Aluminium alloy dome with Tulip Waveguide™	25mm (1") Aluminium alloy dome with Tulip Waveguide™	33mm (1 1/3") Aluminium alloy dome with Tulip Waveguide™	19mm (3/4") Titanium dome with Tulip WaveGuide™
Dual Concentric™ low frequency	200mm (8")Treated paper pulp cone with HE twin roll fabric surround. 42mm (1 1/2") flat copper ribbon voice coil	254mm (10") Treated paper pulp cone with HE twin roll fabric surround. 42mm (1 1/2") edge wound voice coil	254mm (10") Treated paper pulp cone with HE twin roll fabric surround. 52mm (2") edge wound voice coil	100mm (4") Treated paper pulp cone with Rubber surround. 33mm (1 1/3") edge wound voice coil
Dispersion	90 degrees conical	90 degrees conical	90 degrees conical	90 degrees conical
CROSSOVER				
Frequency	1.6kHz	1.8kHz	1.3kHz	2.3kHz
Type	Bi-wired, hard wired passive, low loss 2nd order compensated LF, 1st order compensated HF	Bi-wired, hard wired passive, low loss 2nd order compensated LF, 2nd order HF	Bi-wired, hard wired passive, low loss 2nd order compensated LF, 1st order HF	Passive low loss 2nd order compensated LF, 1st order compensated HF
Adjustment	+/- 3dB over 1.6 kHz to 25kHz shelving	+/- 3dB over 1.8kHz to 25kHz shelving	+/- 3dB over 1.3kHz to 25kHz shelving	
CONSTRUCTION				
Enclosure type	Coupled reflex distributed port	Distributed port	Distributed port	Rear ported
Volume	39L (1.4 cu.ft)	85L (3 cu.ft)	100L (3.5 cu.ft)	3.5L (213.5 cu.ins)
Dimensions	890 x 332 x 230mm (35 x 13 x 9")	850 x 397 x 368mm (33 1/2 x 15 1/2 x 14 1/2")	950 x 456 x 336mm (37 1/2 x 18 x 13 1/4")	345 x 210 x 130mm (13 1/2 x 8 1/4 x 5")
Weight	21kg (46.3 lbs)	23kg (50.7 lbs)	30kg (66 lbs)	4.0kg (8.8 lbs)
Finish	Lacquered walnut with solid walnut edging and trim detail	Walnut veneer with solid walnut edging and trim detail	Walnut veneer with solid walnut edging and trim detail	Teak veneer with solid teak trim detail

Glenair 10

50 - 200 Watts
120 Watts RMS
38Hz - 25kHz, -6dB
91dB (2.83 Volts @ 1 metre)
8 Ohms

25mm (1") Aluminium alloy dome
with Tulip WaveGuide™

250mm (10") Treated paper pulp cone with
HE twin roll fabric surround.
52mm (2") edge wound voice coil
90 degrees conical

2.1kHz
Bi-wired, hard wired passive, low pass
2nd order LF, 1st order HF

Single rear ported
62L (2.2 cu. ft.)
1000 x 360 x 347.5mm
(39½ x 14 x13½")
28kg (61.7 lbs)
Cherry veneer with solid cherry
trim detail

Glenair

50 - 225 Watts
135 Watts RMS
32Hz - 25kHz, -6dB
95dB (2.83 Volts @ 1 metre)
8 Ohms

33mm (1¾") Aluminium alloy dome
with Tulip WaveGuide™

380mm (15") Treated paper pulp cone with
HE twin roll fabric surround.
52mm (2") edge wound voice coil
90 degrees conical

1.1kHz
Bi-wired, hard wired passive, low pass
2nd order LF, 1st order HF

Twin rear ported
115L (4 cu. ft.)
1100 x 460 x 548mm
(43 ½ x 18 x 17½")
45kg (99 lbs)
Cherry veneer with solid cherry
trim detail

Super Tweeter™ ST200

PERFORMANCE	
Recommended amplifier power	Up to 250W
Continuous Power Handling	135W RMS
Sensitivity	95dB maximum (2.83 Volts @ 1 metre)
Nominal impedance	8 ohm
Frequency response (-6dB)	To 54kHz, usable output (-18dB) to 100kHz
DRIVE UNITS	
Driver type	1" diameter 25 micron titanium dome, gold finish, with neodymium magnet system
CROSSOVER	
Crossover type	3rd order high pass
Crossover frequency	14, 16 or 18kHz adjustable
Level adjustment	89dB, 90.5dB, 92dB, 93.5dB, 95dB

Super Tweeter™ ST100

PERFORMANCE	
Recommended amplifier power	Up to 250W
Continuous Power Handling	135W RMS
Sensitivity	95dB maximum (2.83 Volts @ 1 metre)
Nominal impedance	8 ohm
Frequency response (-6dB)	To 54kHz, usable output (-18dB) to 100kHz
DRIVE UNITS	
Driver type	1" diameter 25 micron titanium dome, gold finish, with neodymium magnet system
CROSSOVER	
Crossover type	3rd order high pass
Crossover frequency	14, 16 or 18kHz adjustable
Level adjustment	87dB, 89dB, 91dB, 93.5dB, 95dB

Super Tweeter™ ST50

PERFORMANCE	
Recommended amplifier power	Up to 200W
Continuous Power Handling	110W RMS
Sensitivity	93dB maximum (2.83 Volts @ 1 metre)
Nominal impedance	8 ohm
Frequency response (-6dB)	To 54kHz, usable output (-18dB) to 100kHz
DRIVE UNITS	
Driver type	1" diameter 25 micron titanium dome, gold finish, with neodymium magnet system
CROSSOVER	
Crossover type	3rd order high pass
Crossover frequency	14, 16 or 18kHz adjustable
Level adjustment	85dB, 89dB, 93dB

Timeless design qualities linked to the very latest developments

of the acoustic arts give every model in the Prestige series its individual status

as a high performance loudspeaker for the discerning music lover.

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