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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 pedigree 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 'Tantalum' and 'Alloy', 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™ principle. By implementing the latest design and material technologies, with sophisticated circuit techniques in crossover design, Tannoy has developed loudspeaker systems with superb reproduction capabilities and exceptionally wide dynamic range.

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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wonderfully individual and totally unlike any other speakers.

Distinctive, distinguished and proud, they transcend mere fashion and have captured

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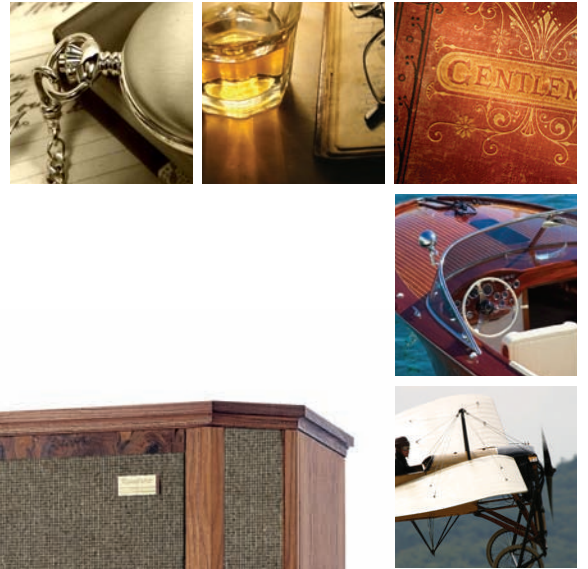


Westminster Royal

As the crowning achievement of the Prestige range, The Westminster Royal is on one hand a traditional compound horn loaded loudspeaker, but one that also pushes back the limits of technological innovation.

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 15

The 15" version of the Tannoy Dual Concentric™ drive unit in the Canterbury 15 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. Built to special order only, each pair of Canterbury 15 loudspeakers is individually certificated and supplied with and a polished brass crossover trim plate engraved with the owner's name.



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 entertainments.

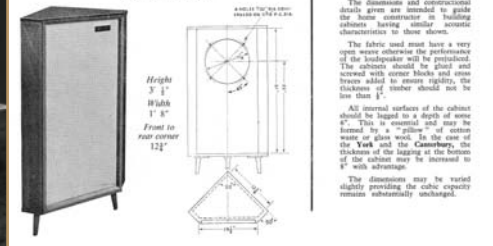
These enclosures are hand constructed from selected solid woods, extensive grade laminated wood and hand chosen, hand polished veneers, while the fabric employed is acoustically transparent and may be easily cleaned.

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 unnecessary curves or recesses. Its popularity has led to the introduction of the Chatsworth II—re-styled to extend even further its suitability for the smaller rooms, without any sacrifice in performance.

This loudspeaker assembly being of small yet elegant proportions is ideal used as pair for stereo, phone, reproduction. The legs may be readily removed thereby reducing the overall height to approximately 4"

The well-established York and Canterbury enclosures introduced for the first time the dual-throat 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 companies. Of greater cubic capacity than the Chatsworth II, these enclosures are eminently suited to the larger room where a higher listening level can be 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 APERIODIC ENCLOSURE MONITOR 12" UNIT



Yorkminster



Embodying all that is essential in a classic Tannoy loudspeaker, the Yorkminster 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 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. The bi-wire terminal on the rear panel also features an 'earth' or grounding point. With the driver chassis grounded, this proven technology developed on earlier Prestige models minimises the effects of radio frequency interference in the loudspeaker cables which can affect associated system electronics, resulting in a more transparent midrange.

Presenting the Yorkminster with an Editors Choice Award in Hi Fi News magazine Paul Messenger stated that: "... delicious is an adjective that most readily springs to mind... delectable, delightful and delicate would serve equally well to describe a mid-band in particular that's wonderfully natural and communicative". Reinforcing the international respect and high regard for this loudspeaker it was also presented with the coveted Golden Sound Award in Japan.



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.

Reviewing the speakers in Hi Fi News, Ivor Humphreys commented: □

"The sheer transparency of the Kensington astonished. I've not before heard anything quite so coherent from a box loudspeaker...capable of coming within a whisker of emulating that 'open window to the event' which, for me at least, is what high fidelity is all about".





Sandringham

Although it is the most compact floor-standing loudspeaker in the Tannoy Prestige range, the Sandringham 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, 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 a 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.

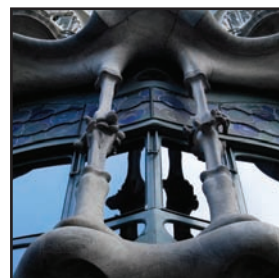
Remaining true to the cabinet build and finish quality of that yesteryear model, the Autograph Mini naturally incorporates a Dual Concentric™ driver - the unique engineering statement that makes this speaker a 'real' Tannoy. Incorporating wide bandwidth technology to ensure breathtaking performance from 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 is 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 inlaid within the angled sides towards the front of the miniature hexagonal cabinet.

A high performance loudspeaker designed for the discerning fashion conscious.





Glenair

A change in styling well beyond evolutionary when compared to other models in the Prestige range, Glenair reveals a fresh new style with clean functional lines and a minimalist simplicity. Retaining its thoroughbred Tannoy technology heritage and no compromise acoustic performance Glenair presents a modern understated sophistication. Cleverly benefiting the speaker's performance, the aesthetically elegant trapezoidal cabinet shape helps to reduce internal standing waves thereby preventing unwanted panel resonance.

With its massive 15" Dual Concentric™ driver Glenair delivers the kind of effortless bass dynamic that is only possible from a substantial drive unit; something you just don't find in your average run of the mill home cinema or hi-fi loudspeaker. Its open midrange and delicacy of treble nuances meticulously combine in a coherent and utterly involving soundstage, delivering an astonishingly true to life performance.

Ensuring perfect integration of the driver elements, all components of the carefully designed crossover network in the Glenair are high precision, low-loss and thermally stable. For the high frequency feed a single Hovland MusiCap® capacitor is used providing class-leading sonic consistency; exceptional dynamics, speed, focus, correct timbre and depth of field. Two large laminated iron core inductors are used to avoid saturation effects. Top quality silver-plated copper wiring is used for the low frequency section, and Acrolink® 6N ultra high purity (99.9999%) copper wire is used for the high frequency wiring for complete signal path integrity.

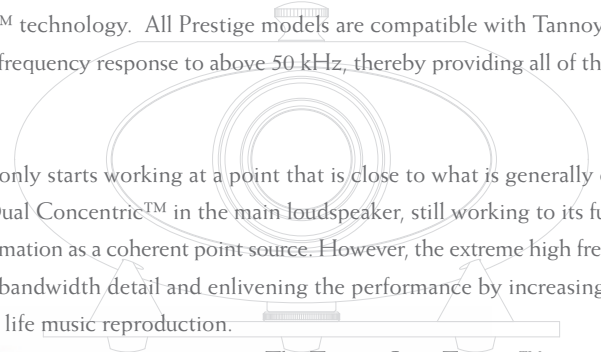
The finely crafted cabinet with its sumptuous solid American Cherry wood mouldings and veneers give it a refreshing style that will complement anything from casual and cool through to sophisticated and contemporary.



Super Tweeter™

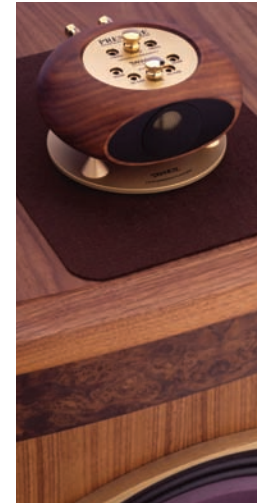
Always an innovator where quality sound reproduction is concerned, Tannoy has continued this tradition by being at the forefront of the development of WideBand™ technology. All Prestige models are compatible with Tannoy's SuperTweeter™ designs, providing the opportunity to extend high-frequency response 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 for any model in the Prestige range.



ST200

The oiled American Walnut casing of the ST200 is specifically designed to partner the Prestige range of Dual Concentric™ loudspeaker designs. From Stirling right through to the iconic Westminster Royal, 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

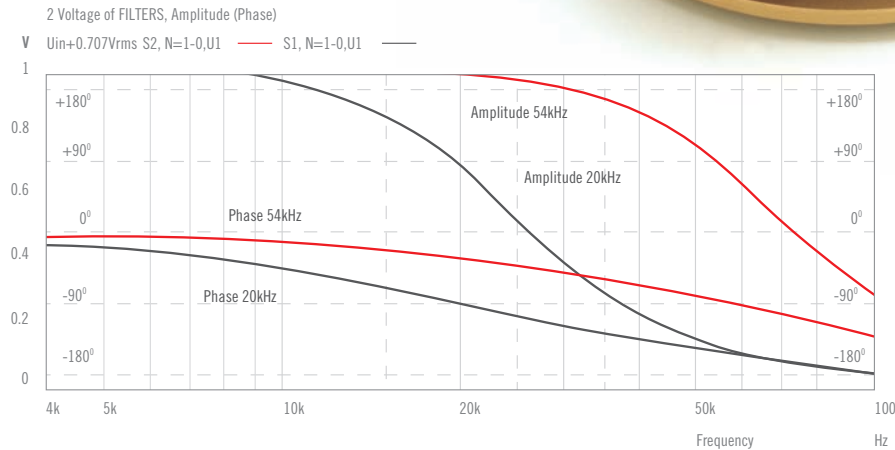
ST100

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 while the other extends on out to a 54kHz 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.

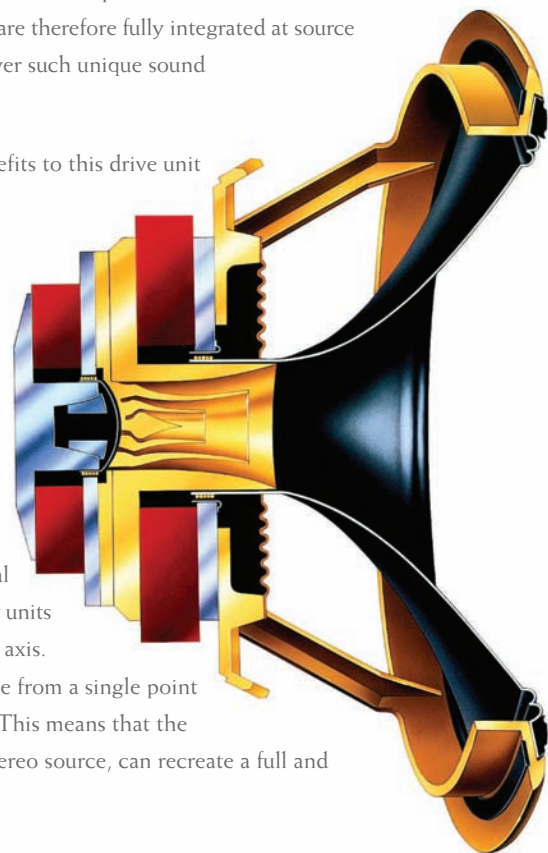


Tannoy Dual Concentric™ Drive Unit

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.

There are three other significant acoustic benefits to this drive unit design:

- ② 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.
- ② Polar dispersion of sound is symmetrical in both the horizontal and vertical planes.
- ② 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.

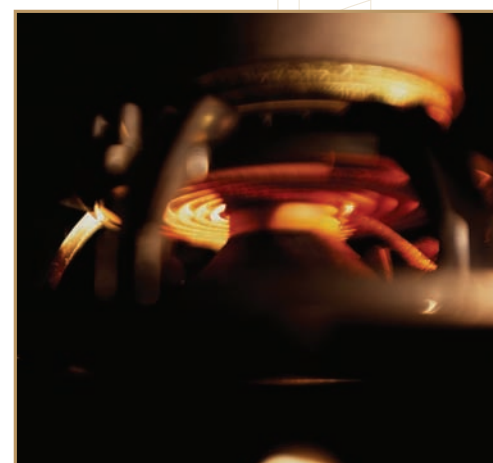
Alnico is an unusual iron/nickel alloy doped during the melt process with cobalt and aluminium to produce a magnetic material with very special properties. Having a high remanant magnetism and energy product, it magnetises to a high level and retains an unusual degree of magnetisation. Alnico is also 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, produce 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.



The Crossover Network

During the design of the crossover network the acoustic, mechanical and electrical interactions of the high and low frequency sections are fully analysed. The crossover is therefore an integral part of the design of the system. The crossover network provides complex equalisation, in both amplitude and phase, for each section and fully integrates the response at the crossover point.

All components are high precision, low-loss and thermally stable. Quality, vibration damped DMT™ polypropylene capacitors are used for the high frequency feed.

Air-cored and large laminated iron core inductors avoid saturation effects and distortion products. Individual components are carefully laid out to minimise inter component coupling and placed well away from the driver magnetic field.

Top quality cable is used for all internal wiring.

The complementary design of crossover and drive units, together with concentric placement, aligns the high and low frequency sources to a single point. This means that the loudspeaker system as a whole behaves as a minimum phase system over the audio band ensuring accurate reproduction of stereo images with a 3D quality.





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

Autograph Mini



Recommended amplifier power 20 - 100 Watts
 Continuous power handling 50 Watts RMS
 Frequency response 68Hz - 54kHz -6dB
 Sensitivity 88dB (2.83 Volts @ 1 metre)
 Nominal impedance 8 Ohms

DRIVE UNITS
 Dual Concentric™ high frequency 19mm (3/4") Titanium dome with Tulip WaveGuide™
 Dual Concentric™ low frequency 100mm (4") Treated paper pulp cone with Rubber surround. 33mm (1 1/8") edge wound voice coil
 Dispersion 90 degrees conical

CROSSOVER
 Frequency 2.3kHz
 Type Passive low loss 2nd order compensated LF, 1st order compensated HF

CONSTRUCTION
 Enclosure type Rear ported
 Volume 3.5L (213 1/2 cu")
 Dimensions 345 x 210 x 130mm (13 9/16 x 8 1/4 x 5 1/8")
 Weight 4.0kg (8 13/16 lbs)
 Finish Teak veneer with solid teak trim detail

Glenair



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

33mm (1 3/4") Aluminium alloy dome with Tulip WaveGuide™
 380mm (15") Treated paper pulp cone with HE twin roll fabric surround. 52mm (2 1/16") 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 558mm (43 3/16 x 18 1/8 x 17 5/8")
 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 25mm 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 25mm diameter 25 micron titanium dome, gold finish, with neodymium magnet system

CROSSOVER
 Crossover type 3rd order high pass
 Crossover frequency 18, 20 or 22kHz 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 25mm 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



Specifications



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



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Specifications



Westminster Royal



50 - 225 Watts
135 Watts RMS
18Hz - 22kHz -6dB
99dB (2.83 Volts @ 1 metre)
8 Ohms

Dual Concentric™ high frequency

Dual Concentric™ low frequency

Dispersion

CROSSOVER

200Hz acoustical, 1kHz electrical
Bi-wired, hard wired passive, low loss
time compensated 2nd order LF, 2nd order
compensated HF.

+/- 3dB over 1kHz to 22kHz shelving,
+2dB to -6dB per octave over 5kHz to
22kHz slope

CONSTRUCTION

Enclosure type
Volume
Dimensions

Weight
Finish

Canterbury 15



50 - 275 Watts
140 Watts RMS
28Hz - 22kHz -6dB
93dB (2.83 Volts @ 1 metre)
8 Ohms

51mm (2") with Aluminium alloy dome,
Alnico magnet system with
Pepperpot Waveguide™
380mm (15") Treated paper pulp cone with
HE twin roll fabric surround. 52mm (2")
round wire wound voice coil
90 degrees conical

1.1kHz
Bi-wired, hard wired passive, low loss
2nd order low frequency, 2nd order
compensated high frequency
+/- 3dB over 1.1kHz to 22kHz shelving,
+ 2dB to -6dB per octave over 5kHz to
22kHz slope

Dual variable distributed port system
235L (8⁵/₁₆ cu.ft)
1090 x 704 x 480mm
(43 x 27¹¹/₁₆ x 18⁷/₈")
63kg (138⁷/₈ lbs)
Walnut veneer with solid walnut edging and
burr walnut trim detail

Yorkminster



50 - 250 Watts
150 Watts RMS
23Hz - 22kHz -6dB
94dB (2.83 Volts @ 1 metre)
8 Ohms

52mm (2") Aluminium alloy dome,
Alnico magnet system with
PepperPot Waveguide™
300mm (12") Treated paper pulp cone with
HE twin roll fabric surround 52mm (2")
flat copper ribbon voice coil
90 degrees conical

1.1kHz
Bi-Wired, hard wired passive, low loss
2nd Order compensated LF, 2nd Order
compensated HF
+/- 3dB over 1.1kHz to 22kHz shelving, +2dB to
-6dB per octave over 5kHz to 22kHz slope

Twin rear ported
200L (7¹/₁₆ cu.ft)
1080x 620 x 447mm
(42¹/₂ x 24³/₈ x 17⁵/₈")
61.5kg (135⁵/₈ lbs)
Teak veneer with solid
teak trim detail

Kensington



50 - 225 Watts
135 Watts RMS
29Hz - 22kHz -6dB
93dB (2.83 Volts @ 1 metre)
8 Ohms

51mm (2") Aluminium alloy dome,
Alnico magnet system with
PepperPot Waveguide™
250mm (10") Treated paper pulp cone with
HE twin roll fabric surround. 52mm (2")
flat copper ribbon voice coil
90 degrees conical

1.1kHz
Bi-Wire, hard wired passive, low loss
2nd Order compensated LF, 2nd Order
compensated HF
+/- 3dB over 1.1kHz to 22kHz Shelving, +2dB to
-6dB per octave over 5kHz to 22kHz slope

Distributed Port
105L (3¹¹/₁₆ cu.ft)
1100 x 406 x 338mm
(43³/₁₆ x 16 x 13³/₁₆")
37kg (81⁹/₁₆ lbs)
Mahogany veneer with solid walnut
edging and trim detail

Sandringham



30 - 150 Watts
95 Watts RMS
37Hz - 25kHz -6dB
90dB (2.83 Volts @ 1 metre)
8 Ohms

25mm (1") Aluminium alloy dome with
Tulip Waveguide™
200mm (8") Treated paper pulp cone with
HE twin roll fabric surround. 42mm (1⁵/₈")
flat copper ribbon voice coil
90 degrees conical

1.4kHz
Bi-wired, hard wired passive, low loss
3rd order compensated LF, 1st order
compensated HF
+/- 2dB over 1.4 kHz to 25 kHz shelving

Coupled Reflex Distributed Port
48L (1¹¹/₁₆ cu.ft)
890 x 332 x 260mm
(35" x 13¹/₁₆" x 10¹/₄")
21kg (46⁵/₁₆ lbs)
Lacquered walnut with solid walnut
edging and trim detail

Stirling



30 - 150 Watts
95 Watts RMS
35Hz - 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. 42mm (1⁵/₈")
edge wound voice coil
90 degrees conical

1.7kHz
Bi-wired, hard wired passive, low loss
4th order compensated LF,
2nd order HF
+/- 3dB over 1.7kHz to 25kHz shelving

Distributed port
85L (3 cu.ft)
850 x 397 x 368mm
(33¹/₂ x 15³/₈ x 14¹/₂")
23kg (50¹¹/₁₆ lbs)
Walnut veneer with solid
walnut edging and trim detail

Turnberry



30 - 180 Watts
110 Watts RMS
34Hz - 25kHz -6dB
93dB (2.83 Volts @ 1 metre)
8 Ohms

33mm (1¹/₈") 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

1.3kHz
Bi-wired, hard wired passive, low loss
2nd order compensated LF,
1st order HF
+/- 3dB over 1.3kHz to 25kHz shelving

Distributed port
100L (3¹/₂ cu.ft)
950 x 456 x 336mm
(37³/₈ x 18 x 13³/₁₆")
36kg (79³/₈ lbs)
Walnut veneer with solid walnut
edging and trim detail