

THE KINGDOM RANGE



Tannoy has for many years been at the forefront of development of wide bandwidth technology. The design philosophy behind the Kingdom range was driven by the demand for the technical performance of loudspeakers to match advances in digital software and hardware (e.g. SACD/ DVDA).

All models utilise the Tannoy Dual Concentric™ drive unit, a world famous loudspeaker technology unique to Tannoy, to deliver the vast majority of the musical information. The Kingdom and Kingdom 15 use a very highly developed version of this driver - the Tannoy SuperDual™

Each model is capable of reproducing extremely wide bandwidth information due to the inclusion of two additional drive units. A supplementary bass driver, resolving frequencies as low as 16Hz, and a SuperTweeter™, extending high frequency information to 44kHz, provide a dynamic range that offers an unprecedented listening experience.

SUPERTWEETER™

This key component of the wide bandwidth system allows supremely accurate low-level detail resolution by extending the frequency response to 44kHz. Extending the frequency response, by two octaves beyond the limits of human hearing, corrects the time and phase response within the normal audible bandwidth. This adds further realism to the soundstage by improving imaging and placement of instruments.

Music contains transient information; even bass notes have leading edge transients reaching 30kHz, and rich harmonics well beyond the range of human hearing for pure tones. By resolving high frequency detail up to 44kHz the Kingdom SuperTweeter™ will accurately reproduce the leading edge of individual notes allowing the listener to experience the entire bandwidth information of instruments.

SUPERDUAL™ HIGH FREQUENCY SECTION

With its huge magnet system (2.8 kilograms (6.2lbs) on the Kingdom), the high frequency unit of the SuperDual™ provides extreme accuracy and reliability. The rectangular section, copper clad aluminium voice coil is edge wound on to a high temperature-tolerant glass fibre former. This construction, combined with Ferrofluid cooling, ensures that sustained and effortless high power levels are possible. Uniform high frequency dispersion is guaranteed by the high temperature polymer waveguide.

SUPERDUAL™ MIDRANGE SECTION

The treated paper cone is terminated with a twin roll phenolic impregnated fabric surround. The rigid cast chassis is manufactured from aluminium alloy LM24M. This alloy, selected for its ability to withstand the complexity of the manufacturing process, ensures maximum rigidity in use, even at extreme power levels.

SUB-BASS DRIVER

Each model employs a supplementary bass driver to deliver very low frequency information. The low resonant frequency cast chassis employs four double struts for maximum rigidity, while a large, high temperature voice coil ensures total control of the movement of the massive cone. The flagship Kingdom extends the bandwidth down to an earth-shaking 16Hz by using a colossal 457mm (18") drive unit, which spans the lower section of this speaker's 50mm (2") thick birch ply front baffle.

CROSSOVER

The crossover, silver-plated linear crystal cable and silver solder hard-wired with gold plated bi-wire input terminals, uses heavy-duty vacuum impregnated air cored inductors. This, in conjunction with the high voltage, high stability, polypropylene capacitors ensures the dynamic range remains consistent even at high power levels.

Tannoy's Differential Materials Technology (DMT) damping technique, where components are encased in resonance absorbent mastic and heat shrink-wrapped, is employed to further enhance the performance of these premium quality, low dielectric loss and low colouration components. The capacitor values are therefore maintained throughout the entire frequency range, while the crossover circuit itself is secured within the cabinet using a vibration-isolating mounting system to complete the protection of the components.

A control panel, containing several gold plated high current crossover switches, is positioned on the front baffle.

To ensure optimal matching this allows adjustment of the SuperDual™ frequency roll-off, along with the SuperDual™ HF and SuperTweeter™ energy levels by +/-3dB in 5 graduated steps.

CABINET

The solid wood materials, finished in American Cherry and ash veneers, have been selected for absolute neutrality while extensive internal bracing further enhances the enclosure's structural rigidity. The front baffle of the Kingdom is laminated up to 50mm (2") thickness around the sub-bass driver to ensure that cabinet resonance is strictly controlled.

On the rear of the cabinet, the bass reflex ports are fitted with foam port dampers to allow fine-tuning of the system to the listening environment.

	KINGDOM	KINGDOM 15	KINGDOM 12
PERFORMANCE			
Recommended amplifier power - Watts RMS	20 - 500	20 - 450	20 - 300
Power handling - Watts RMS	300	250	200
Power handling - Watts Peak	750	625	500
Maximum SPL	117dB - (300 Watts RMS@1mtr) 121dB - (750 Watts Peak@1mtr)	115dB - (250 Watts RMS@1mtr) 119dB - (625 Watts Peak@1mtr)	113dB - (200 Watts RMS@1mtr) 117dB - (500 Watts Peak@1mtr)
Sensitivity - 2.8volts in at 1 metre on axis	92dB	91dB	90dB
Nominal impedance - Ohms	8	8	8
Frequency response +/- 3dB	16Hz - 44kHz	20Hz - 44kHz	24Hz - 44kHz
Dispersion	90° conical	90° conical	90° conical
DRIVE UNITS			
Dual Concentric™ driver type	SuperDual™	SuperDual™	Dual Concentric™
Dual Concentric™ Midrange - Treated paper cone - Voice coil diameter	300mm (12") 76mm (3")	254mm (10") 76mm (3")	254mm (10") 42mm (1.6")
Dual Concentric™ High Frequency	51mm (2") with 64-micron aluminium alloy dome	51mm (2") with 64-micron aluminium alloy dome	25mm (1") with 50-micron aluminium alloy dome
SuperTweeter™	25mm (1") 50-micron deep anodised aluminium alloy dome, neodymium magnet	25mm (1") 50-micron deep anodised aluminium alloy dome, neodymium magnet	25mm (1") 50-micron deep anodised aluminium alloy dome, neodymium magnet
Low Frequency Driver - Treated paper cone - Voice coil diameter	457mm (18") 76mm (3")	380mm (15") 54mm (2.1")	300mm (12") 52mm (2")
CROSSOVER			
Crossover type - Bi-wired, low loss, passive Hard wired with high purity silver-plated linear crystal cable using silver solder			
- Bass driver	2nd order low pass	2nd order low pass	2nd order low pass
- Dual Concentric™ MF:	2nd order low pass	2nd order low pass	2nd order low pass
HF:	1st order high pass	1st order high pass	1st order high pass
- SuperTweeter™	3rd order high pass	3rd order high pass	3rd order high pass
Crossover frequencies			
- Bass to Dual™ midrange	100Hz	100Hz	100Hz
- Dual™ midrange to Dual™ tweeter	1.1kHz	1.2kHz	1.6kHz
- Dual™ tweeter to SuperTweeter™	15kHz	15kHz	16kHz
Crossover adjustments			
- SuperTweeter™ HF energy	+/- 3dB in 5 steps	+/- 3dB in 5 steps	+/- 1.5dB in 3 steps
- Dual™ HF energy	+/- 3dB in 5 steps	+/- 3dB in 5 steps	+/- 3dB in 5 steps
- Dual™ roll-off from 10kHz	0dB, 3dB, 6dB per octave	0dB, 3dB, 6dB per octave	
CABINET			
Enclosure type	Rear ported reflex for bass driver Closed box for SuperDual™	Rear ported reflex for bass driver Closed box for SuperDual™	Rear ported reflex for bass driver Closed box for Dual Concentric™
Volume	370 litres	250 litres	160 litres
Dimensions h x w x d (mm)	1600 x 1000 x 850	1258 x 678 x 500	1060 x 540 x 460
Dimensions h x w x d (inches)	63 x 39.4 x 33.5	49.5 x 26.7 x 19.7	41.7 x 21.3 x 18.1
Weight (kgs)	208	160	75
Weight (lbs)	458.6	352.8	165.4
Finish	American Cherry	American Cherry	American Cherry

TANNOY
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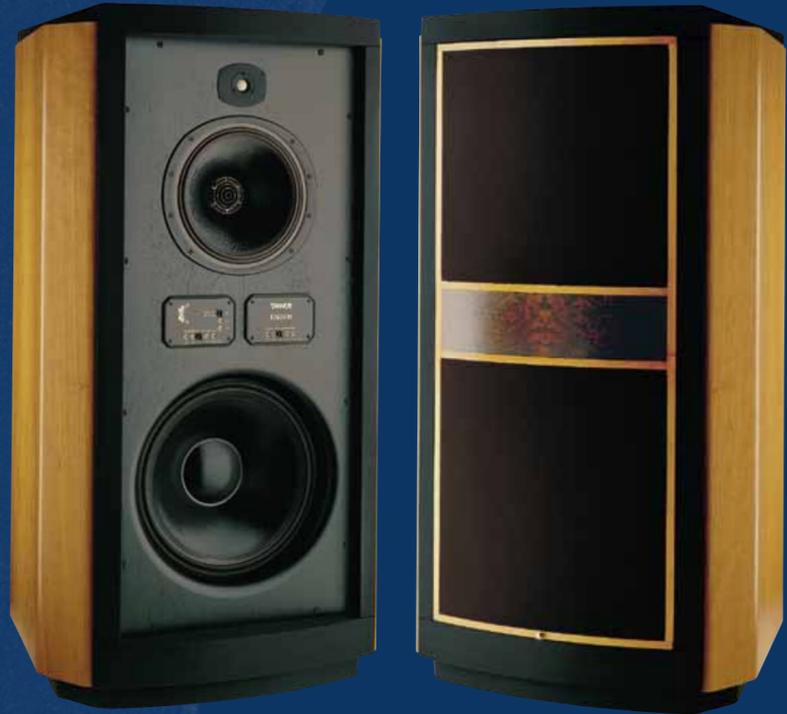
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TANNOY
WIDEBAND
TECHNOLOGY

THE KINGDOM RANGE



Designed without acceptance of compromise, the Kingdom is the flagship of the entire Tannoy loudspeaker range. Introduced initially into Japan, one of the world's most discriminating markets, its name has become synonymous with the very best in high-end loudspeaker engineering. Within weeks of the Japanese launch the Kingdom was awarded the highest possible hi-fi accolade in that country - the prestigious Golden Sound Award.



Kingdom



With the Kingdom 15 the aim in the design process was clear; engineer a speaker suited to smaller listening rooms without compromising the overall tonal balance and performance characteristics established by Kingdom. This has been achieved by incorporating into a compact enclosure precisely the same technology package, in this instance a 254mm (10") SuperDual™, 380mm (15") bass driver and SuperTweeter™.



Kingdom 15



With the birth of the 'baby' Kingdom 12, Tannoy has added a new star to the critically acclaimed extended bandwidth Kingdom range. At its heart is the 254mm (10") Tannoy Dual Concentric™ drive unit that presents tremendous midrange clarity with superb imaging. Of the two supplementary drivers the substantial 300mm (12") low frequency drive unit delivers bass down to a very low 24Hz while the SuperTweeter™ extends high frequency response up to 44kHz.



Kingdom 12