

Westminster Royal HE

TANNOY®



The magnificent Westminster Royal HE is the crowning glory of the Tannoy Prestige loudspeaker range



THE PRESTIGE RANGE



WESTMINSTER ROYAL HE

TECHNICAL SPECIFICATION

PERFORMANCE

Recommended amplifier power	50 - 225 watts
Power handling	135 watts RMS.
Power handling	550 Watts Peak
Maximum SPL	120.5dB (135 Watts RMS / 1m) 126.5dB (555 Watts Peak / 1m)
Sensitivity	99dB (2.83v @ 1m)
Nominal impedance	8 ohms
Minimum impedance	5.5 ohms
Frequency response	18Hz - 22kHz -6dB
Phase response	The system behaves substantially as a frequency independent time delay
Total harmonic distortion	Less than 1% @ 135 watts RMS (50Hz - 20kHz)

DRIVE UNIT

Dual Concentric mid/bass frequency	380mm (15") Dual Concentric™ driver utilising an Alnico magnet system and a treated paper pulp cone with HE twin roll fabric surround with 52mm round wire voice coil.
Dual Concentric high frequency	51mm (2") unit centrally mounted within the bass unit voice coil to achieve a true coincident acoustic point source. Acoustic Waveguide and round wire voice coil.
Dispersion	90 degrees conical

CROSSOVER

Frequency	200Hz acoustical, 1kHz electrical
Type	Bi-wired, hard wired passive, low loss time compensated 2 nd order low frequency 2 nd order time compensated high frequency
Adjustment	+/-3dB over 1kHz to 22kHz shelving +2dB to -6dB per octave over 5kHz to 22kHz slope.

CABINET

Enclosure type	Compound Horn
Dimensions mm (inches)	1395h x 930w x 560d (55h x 35.6w x 22d)
Volume	530 litres
Material	25mm (1") solid walnut and birch ply enclosure
Weight kgs (lbs)	138 (304.3)
Finish options	Walnut veneer and solid walnut edging and trim detail.

Tannoy's crowning achievement in the Prestige range, the Westminster Royal HE, is a compound horn-loaded loudspeaker that pushes back the limits of innovative technical design whilst retaining the appearance of a true Tannoy classic.

At its heart is a new HE version of the famous 380mm (15") Tannoy Dual Concentric™ driver. This unit incorporates the latest Alnico magnet system for exceptional transient response and increased sensitivity. HE, or Hard Edge, refers to the material used in the construction of the driver surround. This, when combined with the unique drive unit chassis earthing facility, results in a tight, fast and controlled bass with fluid, transparent midrange and a high frequency performance of great purity. Once again Tannoy sets the standard for low frequency performance, dynamics and 'presence'.

A hard-wired time compensated crossover network, constructed using only premium quality components, handles the signal processing. Silver-plated copper Van den Hul wiring is used throughout to ensure that signal integrity is maintained. Gold plated Bi-wire speaker terminals are provided for signal input, while high current switches that allow control of high frequency energy and roll off are located on a front mounted brass plate.

The magnificent 530 litre cabinet, with its complex horn loading system, gives greatly increased efficiency allied to 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, all with stunning realism. Assembled using carefully selected, hand-finished veneers and solid walnut trim details, the extensive internal bracing and damping of the rigid 25mm (1") birch ply constructed cabinet confirms the attention to detail inherent in this loudspeaker.

Features: 380mm (15") Dual Concentric point source symmetrical dispersion driver • HE hard edge twin roll fabric driver surround and driver chassis earthing providing fluid open midrange and clean, detailed high frequencies • Alnico magnet assembly gives exceptional transient response and increased sensitivity • 25mm (1") birch ply construction of the 530 litre cabinet provides exceptional strength and rigidity, speeding up the aural response of the speaker • Extensive internal bracing and damping reduces colouration, enhancing the midrange detail, speed and clarity of the bass • Complex compound horn loading system greatly increases efficiency while providing a wave front approaching that from real instruments • Bi-wired, hard wired adjustable crossover utilising premium quality components

TANNOY
BREAKING SOUND BARRIERS

Tannoy Ltd. North Lanarkshire, ML5 4TF Scotland Tel: 01236 420199 Fax: 01236 428230

Tannoy/TGI North America, 300 Gage Avenue, Kitchener, Ontario, Canada N2M 2C8
Tel: 519 745 1158 Fax: 519 745 2364

Tannoy Nederland BV. Anthonetta Kuyilstraat 19, 3066 GS Rotterdam, Nederlands
Tel: 010 2860555 Fax: 010 2860431

www.tannoy.com

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