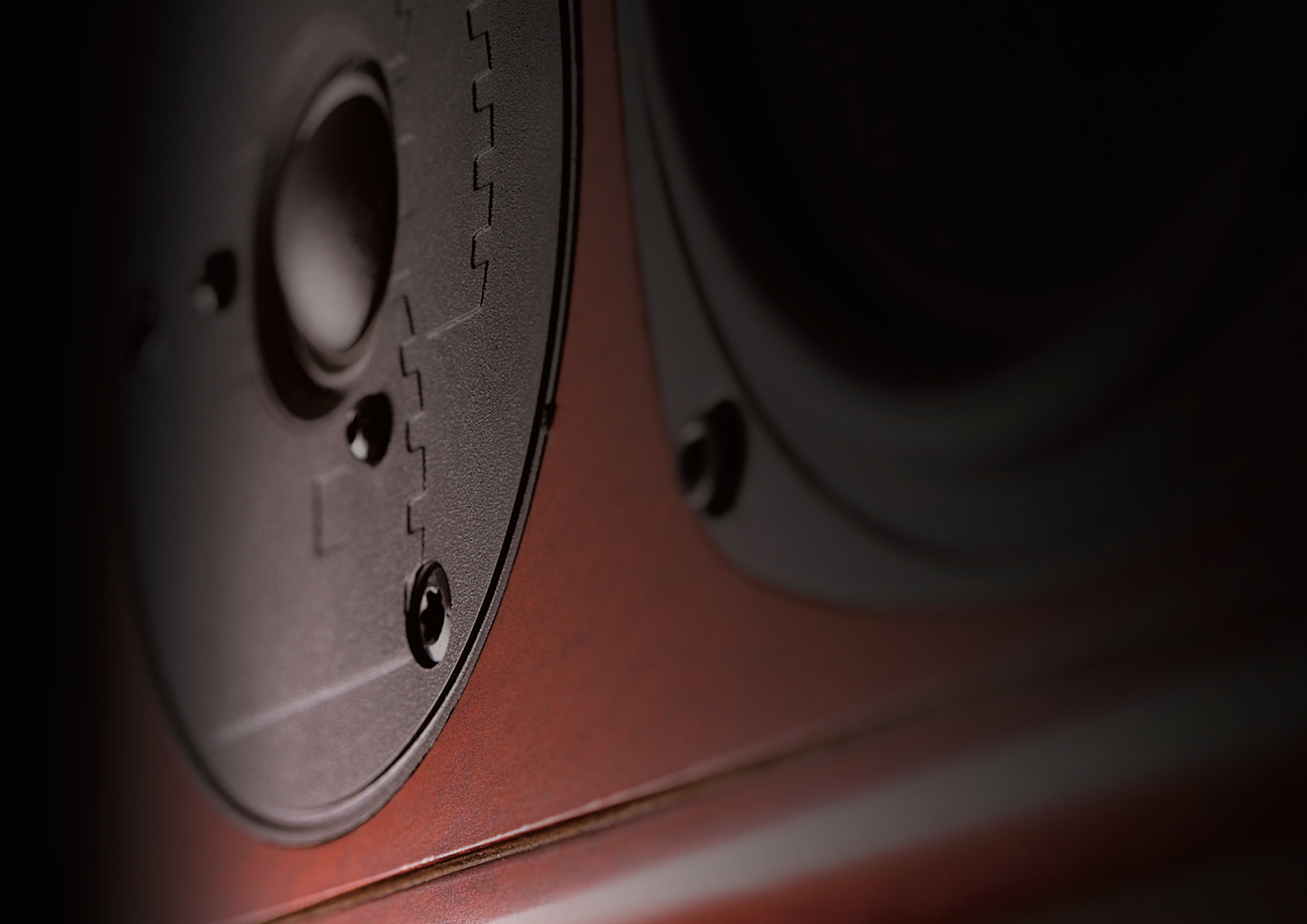








In brief...	
Founded in	1973
Country of Origin	England
Brand portfolio	Loudspeakers
Price range	Speakers - GBP400/pair to GBP1,000/pair
Philosophy	Technicalities of accuracy, with craftsmanship and passion
Product range	Windsor Series, Avon Series, Knight Series, Richmond Anniversary





Windsor Series

A Fortified Structure that is Beholding to the Eye and Ear

Advanced loudspeaker design has a long tradition, in Great Britain, and Castle has always been one of the leading brands when it comes to working in the tradition of classic designs and concepts, while at the same time, using the most advanced technologies to raise the bar of performance excellence.

From the beginning, the co-founders of Castle Acoustics, John Collinson (formerly at QUAD) and William Escott (ex-Wharfedale), determined to adhere to the traditions of craftsmanship and skilled engineering which they saw as being in decline elsewhere.

A spin-off from Wharfedale, one of the world's most famous audio brands, Castle began with a real hi-fi pedigree, which is a tradition that remains to this day.

Castle are proud to announce the Windsor series, signalling the return to the UK for the manufacturing of Castle loudspeakers. Castle Windsor series comes, with craftsmanship and quality that is self-evident and marks the brand's intention to restore and build upon the reputation of the brand for superlative quality loudspeakers.

The epitome of engineering; nothing sits as proud as a Castle.



Windsor Series

The Road to Excellence

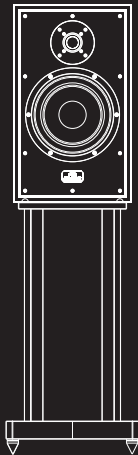
The Castle Windsor series was designed by the world-famous Fink Team - headed up by Karl-Heinz Fink, one of the finest loudspeaker engineers on the planet.

FINK AUDIO-CONSULTING

A long-time Castle fan, Karl-Heinz Fink and the Fink Team collaborated with the Castle engineers to create a loudspeaker series that embodies the philosophes of the Castle Acoustics brand pedigree; a magnificent loudspeaker with hallmarks of craftsmanship and quality.



KARL-HEINZ FINK



The flagship Windsor series comes with craftsmanship and quality that is self-evident, clearly marking the intention to restore and build upon the brand's reputation for a superlative quality loudspeaker.

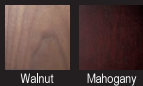
Three elements need to be optimised in a loudspeaker design to give the highest level of performance. Of course, a good loudspeaker needs good drive units. In the case of the Windsor Duke and Windsor Earl, an 8" woofer and 6.5" woofer were developed together with a 28mm textile dome tweeter to perform in two classic bookshelf/monitor style cabinets.



SPECIFICATIONS

				
Model	Windsor Duke	Windsor Earl	Windsor Duke Stand	Windsor Duke Stand
General description	2-way bookshelf speaker	3-way bookshelf speaker	High-carbon British Steel Construction Specially Weighted Design for Zero-resonance Custom Designed for Optimum Performance Made in UK	High-carbon British Steel Construction Specially Weighted Design for Zero-resonance Custom Designed for Optimum Performance Made in UK
Enclosure type	Bass Reflex	Bass Reflex		
Transducer complement	2-Way	2-Way		
Bass driver	8" (200mm) Woven Polypropylene	6.5" (165mm) Woven Polypropylene		
Treble driver	1.11" (28mm) Micro-Fibre Dome	1.11" (28mm) Micro-Fibre Dome		
Sensitivity (2.83V @ 1m)	90dB	89dB		
Recommended Amplifier Power	30-150W	25-100W		
Peak SPL	95dB	95dB		
Nominal impedance	8Ω Compatible	8Ω Compatible		
Minimum impedance	4.2Ω	4.3Ω		
Frequency response (+/-3dB)	52Hz-22kHz	58Hz-22kHz		
Bass extension (-6dB)	39Hz	45Hz		
Crossover frequency	2.1kHz	2.2kHz		
Cabinet Volume	26L	15.8L		
Dimensions (HxWxD)mm	470x280x(310+36)mm	430x240x(260+36)mm		
Finish	Mahogany Veneer	Mahogany Veneer		

FINISHES



Walnut

Mahogany





Avon Series

Determined to both perfect and take advantage of the Transmission Line speaker principles, Castle engineers embarked on a three years investigation into the acoustics, mathematics and all performance aspects of such loudspeakers.

The result was a break through in TL Theory. In its simplest explanation, driving the line at two distinct points overcomes both the damping problem and loss of energy, resulting in a smooth power response from the lowest fundamentals right through to the midrange frequencies.

Castle has called this breakthrough technology TDTL - Twin Drive Transmission Line and is, for the very first time, in the new Avon floorstanding loudspeakers.



“The dry low bass of the transmission line better resolved the character of the bass instruments than just about any loudspeaker I’ve heard before” - Hi-Fi World, October 2015



Avon Series

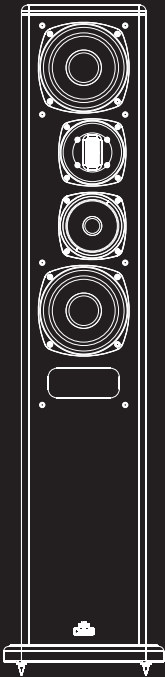
Castle TDTL Transmission Line speakers

Avon Series also utilises other technologies including 3-way configurations on Avon 2, 4 and 5. These utilise a special 115mm woven carbon fibre midrange with a treble output from an advanced ribbon.

The ribbon tweeter perfectly complements the ultra-low bass extension from our unique research and development. An ultra-thin alloy sandwich acts as the voice-coil and diaphragm, while the whole radiating area is driven directly, responding accurately to the music signal without energy storage or breakup. This produces a supreme high end resolving the harmonic content of the music in a thrilling, natural way.

Both these units provide delicacy and sparkling detail in the way they reproduce musical instruments and voices. Together with sophisticated acoustic-phase crossovers, tuned by Castle engineers over hundreds of hours of listening tests, every speaker in the series offers a smooth and balanced sound, married perfectly with the dramatic bass output of the new Transmission Line Technology.

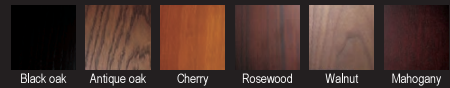
Avon series is available in a selection of hand polished, furniture quality veneers - Cherry, Walnut, Mahogany, Black Oak, Antique Oak and Rosewood - A delight to both the eyes and ears.



SPECIFICATIONS

					
Model	Avon 1	Avon 2	Avon 4	Avon 5	Avon C
General description	2-way bookshelf speaker	3-way bookshelf speaker	3-way floorstanding speaker	3-way floorstanding speaker	3-way centre speaker
Enclosure type	SDEL - Single	SDEL - Single	TDTL - Twin Drive	TDTL - Twin Drive	TDEL - Twin Drive
	Drive Extended Line	Drive Extended Line	Transmission Line	Transmission Line	Extended Line
Transducer complement	2-way	3-way	3-way	3-way	3-way
Bass driver	130mm Woven	150mm Woven	130mm Woven	150mm Woven	150mm Woven
	Carbon fibre Cone	Carbon fibre Cone	Carbon fibre Cone x2	Carbon fibre Cone x2	Carbon fibre Cone x2
Midrange driver		115mm Woven	115mm Woven	115mm Woven	115mm Woven
		Carbon fibre Cone	Carbon fibre Cone	Carbon fibre Cone	Carbon fibre Cone x2
Treble driver	12 x 45 mm True Ribbon	12 x 45 mm True Ribbon	12 x 45 mm True Ribbon	12 x 45 mm True Ribbon	12 x 45 mm True Ribbon
AV shield	No	No	No	No	No
Sensitivity (2.83V @ 1m)	87dB	88dB	89dB	89dB	90dB
Recommended amplifier power	25-100W	25-100W	25-100W	25-100W	25-100W
Peak SPL	95dB	96dB	97dB	97dB	97dB
Nominal impedance	8Ω Compatible	8Ω Compatible	8Ω Compatible	8Ω Compatible	8Ω Compatible
Minimum impedance	4.3Ω	3.3Ω	3.5Ω	3.8Ω	3.6Ω
Frequency response (+/-3dB)	60Hz ~ 20kHz	50Hz ~ 20kHz	45Hz ~ 20kHz	35Hz ~ 20kHz	65Hz ~ 20kHz
Bass extension (-6dB)	55Hz	45Hz	40Hz	30Hz	60Hz
Crossover frequency	2.5kHz	320Hz&3.2kHz	320Hz&3.6kHz	300Hz&3.6kHz	300Hz&3.8kHz
Cabinet Volume (in litres)	8.3L	19.2L	32.6L	56L	17.2L
Dimensions (WxDxH)mm	320x180x(230+30)	475x210x(280+30)	(930+25)x180x(280+30)	(1080+30)x210x(335+30)	(174+25)x520x(290+30)
Net weight	5.8kg/pcs	10.5kg/pcs	17.6kg/pcs	24kg/pcs	14kg/pcs
Gross weight	13.2kg/ctn	23kg/ctn	19.2kg/ctn	26.2kg/ctn	15.2kg/ctn

FINISHES





KNIGHT Series

Castle Acoustics

From its founding in the early 1970s, Castle Acoustics has represented the interests of the audiophile who requires much more than just superlative performance from their hi-fi systems.

For this reason, every Castle product is born of a desire for luxury, not only in ability, but also presentation. Manufactured to furniture-grade standards without compromise the fine materials and woods are specified in every design.

The Knights range of loudspeakers offers not only Castle's famously smooth and rich performance, but for the first time, a new standard in build and value, in a package dedicated to high-quality stereo audio.



"A worthy award-winner"

Castle Knight 2 – Winner, Best Loudspeaker up to £2,000, Hi-Fi Choice Awards 2010



"A true resurgence for the Castle brand. The Knight 2 has a beguiling sound quality and enviable finish"

Castle Knight 2 review - Hi-Fi Choice (November 2010)

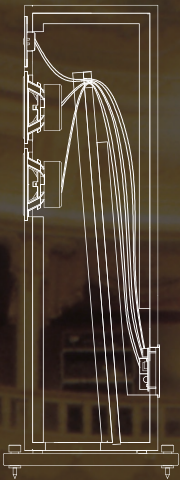
KNIGHT Series

Knight Series is Castle's latest loudspeaker range that focuses on the traditional values that are at the core of Castle engineering - real wood veneer cabinets, natural sounding drive units, innovative bass control, and excellent sound quality.

At the heart of every Castle loudspeaker are drive units built in-house at Castle's advanced development and engineering facility. The advantage of building drive units to a specific design means that Castle engineers retain full control of the characteristics of the drivers, something that is not available by using 'off-the-peg' drive units as many hi-fi manufacturers do. This enables our engineers to use advanced and innovative cabinet techniques for bass loading, for example the TPT Transmission-line, as drive units can be matched exactly to the parameters that this type of loading requires.

In addition the 'voicing' of the loudspeakers, an essential part of maximizing the musical enjoyment a hi-fi loudspeaker brings to your listening room, is made much easier by the selection of materials and characteristics that provide a natural sounding drive unit before the crossover is introduced. In this way the crossover can be kept to a minimal form so it does not interfere with the music signal on its way to the drive units, nor does it cause complex impedance problems for the amplifier to drive. As a result all Castle loudspeakers obtain the best results from any amplifier you wish to use, will suit all types of music and will readily integrate with your room without the boominess and lumpy, ill-defined bass character that you may have found with other speakers.

Knight Series floor standing speakers incorporate Castle's proprietary TPT (Twin-Pipe Technology) bass loading system, which is a new variation on transmission-line loading, delivering deep bass without the 'boomy sound' that can result from other reflex-port loading. The TPT loading is a meld of quarter wave loading and reflex loading achieving what is essentially a mass loaded quarter wave reflex pipe. The 'Twin-Pipe' refers to the internal layout where the drive unit is positioned part way down a folded, tapered column. This exits through the base of the cabinet and is mass loaded by the air trapped between this 'port' and the plinth.



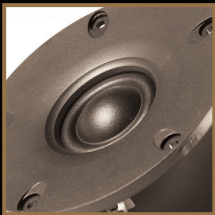
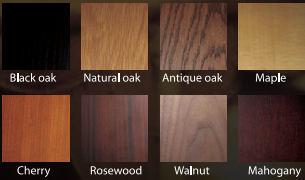
Castle's history of craftsmanship is evident in its wood-veneered speaker cabinets, and the Knight series sports high quality veneers sourced from sustainable timbers wherein only deep-figured slices are used. Each loudspeaker pair is hand-finished with mirrored, book-matched veneers, sealed and waxed in a process that takes more than five days. Only when a depth of character and luster that befits the Castle name is reached are they released for final testing.

SPECIFICATIONS



Model	Knight 1	Knight 2	Knight 3	Knight 4	Knight 5
Format	b/s reflex	b/s reflex	floor t-line	floor t-line	floor t-line
Component					
Bass	130mm x 1	150mm x 1	130mm x 1	130mm x 2	150mm x 2
Tweeter	25mm tex	25mm tex	25mm tex	25mm tex	25mm tex
Amplifier Power	15 - 100 w	15 - 125 w	15 - 100 w	25 - 150 w	25 - 200 w
Nominal Impedance	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
Sensitivity (1W @ 1M)	88 db	90 db	88 db	90 db	91 db
Frequency Range at -6 dB	46 Hz - 24 KHz	42 Hz - 24 KHz	38 Hz - 24 KHz	36 Hz - 24 KHz	30 Hz - 24 KHz
Crossover Frequency	3.0 KHz	3.0 KHz	3.0 KHz	3.0KHz	3.0KHz
Dimensions(mm)					
HT	290	380	760	840	925
W	165	200	165	165	200
D	265	335	265	270	335
Height on spike	-	-	820	900	985
Supplied with	rubber feet	rubber feet	spikes and spike seats	spikes and spike seats	spikes and spike seats
Packing	pair	pair	pair	pair	single
Net Weight	4.5kg;	7.85kg;	10.7kg;	12.5kg;	20.0kg;

FINISHES





Richmond Anniversary

Ever since Castle was founded over thirty five years ago, the Richmond has been the smallest speaker in the Classic range which has defined the Castle sound and build quality. Over the years much has changed in the way we live our lives and the music we listen to, but one factor has remained constant - the quality of the Richmond. As far back as the eighties, its reputation for quality at an affordable price was recognized by the press with Hi Fi Choice giving the then current Richmond a 'Best Buy' rating in 1981, an accolade repeated once more for the 3i in 2004.

Today we proudly present Richmond's latest incarnation, the Richmond Anniversary. Richmond still offers exceptional sound quality in a beautifully veneered cabinet at an affordable price.

Richmond Anniversary

Engineered to Perfection

For this Anniversary issue our engineers have investigated every aspect of the Richmond performance to extract the ultimate sound quality from this diminutive monitor-class speaker, all with the attention to detail and all consuming love of music that made the original Richmond such a hit.

To start, the behaviour of the cabinet was investigated using the latest vibration and spectral analysis. Richmond's original 15mm MDF cabinet was later damped by the addition of bitumen damping pads in the 3i in order to reduce the audible effects of panel resonance. For this Anniversary edition, Castle's engineers reduced panel resonance to below audibility by using multi-layer, composite panel materials and incorporated a loose fibre weave to absorb internal sound waves. In addition, the use of judicious bracing ensures that the dynamic capabilities of the drive units are fully realised.



SPECIFICATIONS

Richmond IV	
Enclosure type	Bass reflex, with rear firing port
Format	Stand mounting
Driver complement	130mm bass unit; 19mm soft dome tweeter
Sensitivity	88dB
Frequency response	60Hz – 20 kHz
Recommended amplifier power	15 – 80W
Crossover frequency	3.6 kHz
Dimensions (H x W x D)	280mm x 165mm x 235mm
Net weight	5.1kg each
Gross weight	12.5kg/carton
Carton size	460mm x 325mm x 370
Packing	pair, supplied with rubber feet





Richmond IV

Richmond IV is the next generation of Richmond stand-mount speaker, a classic 'miniature' which sounds much bigger than its diminutive size would indicate. Based on over 35 years of loudspeaker design experience, Richmond IV forms the basis of a new prestige range of Castle products for 2018.

In Richmond IV we have taken into account the wider bandwidth of modern recordings, increasing the size of the drive units to deliver a wide range of supreme musical detail, while still keeping true to the 'monitor class' performance for which Richmond is justifiably famous.

The enhanced dynamic capabilities and transient performance of the Richmond IV brings a musical realism and excitement that will have you exploring your musical collection all over again.

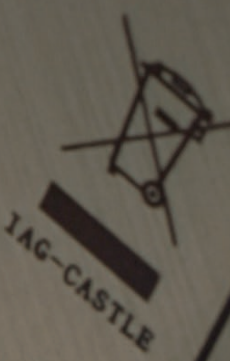


SPECIFICATIONS

Richmond IV	
General Description	2-way bookshelf speaker
Enclosure Type	Bass reflex
Transducer Complement	2-way
Bass Driver	6" (150mm) woven carbon fibre cone
Treble Driver	1.25" (32mm) micro-fibre dome
AV Shield	No
Sensitivity (2.83V@ 1m)	88 dB
Recommended Amplifier Power	25-100 W
Peak SPL	95 dB
Nominal Impedance	8 Ω compatible
Minimum Impedance	4.3 Ω
Frequency Response(+/-3dB)	58 Hz - 22 kHz
Bass Extension(-6dB)	45 Hz
Crossover Frequency	2.6 kHz
Cabinet Volume	7.8 L
Dimensions (H*W*D)	305 x 190 x (226+36) mm
Carton Size	500 x 385 x 330 mm
Net Weight	6.3 kg/piece
Gross Weight	14.5 kg/carton
Finish	Mahogany veneer / black oak veneer
Standard Accessories	Rubber feet



Audio Group Huntingdon, PE29 6XU, UK
8 OHMS
80 WATTS
88 dB





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