

TANNOY
Dimension

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WIDEBAND
TECHNOLOGY

S O U N D S C I E N C E



Loudspeakers with the natural ability to reproduce any kind of music with pace, life and rhythm whilst effortless dynamics and expressive realism generate the scale, excitement and impact of film soundtracks with ease. The Tannoy Dimension series incorporates the very latest wide bandwidth technology in an acoustically optimised cabinet.

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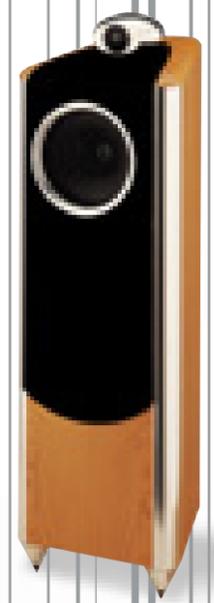
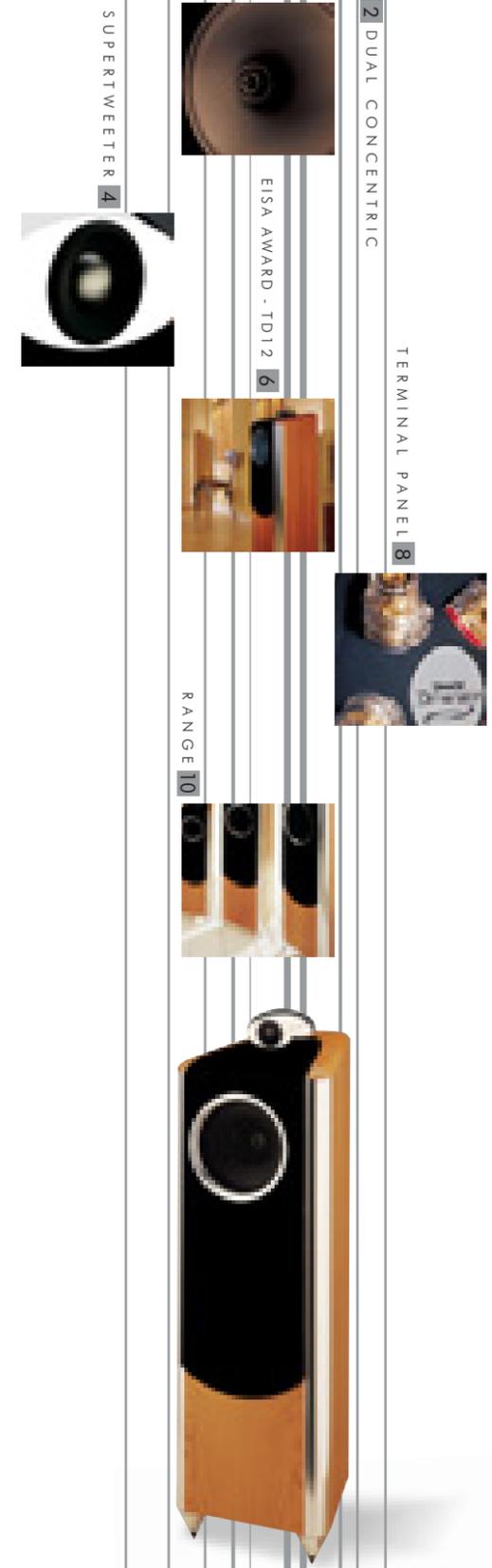
An innovative blend of beautiful styling and groundbreaking technical achievement – sound and science in perfect harmony.

A D E S I G N C L A S S I C



Tremendous dynamic range, agile, accurate and punchy bass, with remarkable extension, fluid, open midrange and spacious, airy high frequency, all combine to produce a performance on a grand scale.

TDB The compact design of the TD8 belies the effortless ease with which it produces an enormous performance.





TANNOY
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At the heart of Dimension is the famous Tannoy Dual Concentric™ drive unit.

Featuring a cone material manufactured from a composite of several different fibres and twin roll surround, the system delivers enhanced midrange performance and tight, fast bass with tremendous low frequency extension.

A SUPERB LISTENING EXPERIENCE

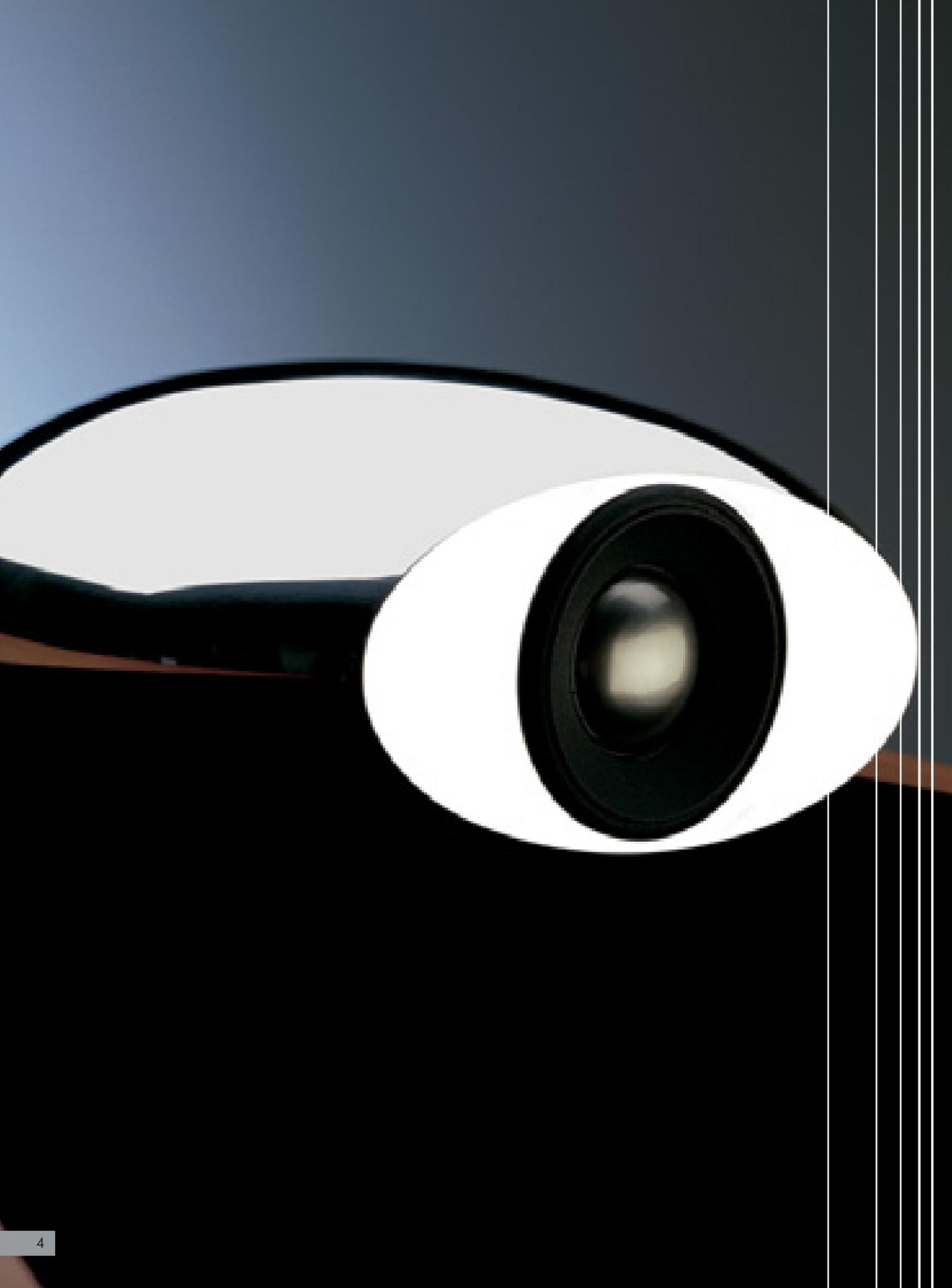
The mix of fibres within the driver cone has been carefully chosen to obtain a light but very stiff structure providing exceptional grip and control of bass transients.

Centrally mounted behind the Tulip Waveguide™, the driver's high frequency unit combines transparent, fluid performance with true point source symmetrical dispersion properties.



TD10 While less imposing in size, the TD10 offers performance of immense scale.

With stunning dynamics and seductive musicality. In common with all models in the range the sheer presence and sound staging ability of this speaker is captivating; the ideal choice for listening rooms of more modest proportions.



TANNOY Dimension

A Tannoy SuperTweeter is incorporated into the design of all Dimension models, not only to resolve fine detail of high frequency information but also to effectively enhance the listening experience even at lower frequencies. Creating an increased immediacy, airiness and impact, the SuperTweeter makes music more natural and true to life.

The low diffraction rounded edge of the baffle combined with acoustically inert material surrounding the SuperTweeter ensures that high frequency output is not re-radiated, resulting in superior imaging.



TDC1 A hugely powerful, stunningly natural, centre channel speaker.

Precisely tonally balanced to the other models in the Dimension range. Voicing characteristics matched with such precision are an essential part of achieving a home theatre system capable of exceptional multi-channel imaging.

Front grille optional



TD12 This loudspeaker is the award winning flagship model of the Dimension range.

"I was won over by this highly musical and articulate speaker, which provides the kind of dynamics and expressive realism associated with higher prices."

"Involving, entertaining, revealing and generous in scale, the Dimension 12 reproduces any kind of music with pace, life and rhythm."

Hi-fi News - April 2001

Need we say more?

TANNOY
Dimension
TD12

“ Involving, entertaining, revealing and generous in scale, the Dimension TD12 reproduces any kind of music with pace, life and rhythm ”



B I - W I R E A B L E T E R M I N A L P A N E L

TANNOY Dimension

An innovative bi-wireable terminal panel has been designed to simplify the connection of even the largest diameter audiophile loudspeaker cables. In addition to the high quality gold plated speaker cable connections there is an 'earth' or 'ground' terminal that is connected to the chassis of the drive units.

Within any loudspeaker system the voice coil will pick up radio frequency interference that contributes to noise and distortion when fed back to the amplifier. The Dimension system of driver chassis earthing optimises the performance of the amplifier by reducing these effects.

Technical brilliance -
perfect music reproduction.



The TD-SUB underpins a Dimension home theatre system with truly remarkable low frequency performance.

Massively constructed around a 15" (380mm) drive unit, this subwoofer uses a sophisticated, flexible and extremely potent amplifier design to ensure the integrity of the powerful, deep and controlled bass.

TANNOY
Dimension
RANGE



Electrical filtering via the crossover is kept to a minimum because the drive unit performance has been optimised to form a near-natural transition throughout the frequency range. The design is precisely customised to our own engineers' special demands utilising premium quality non-standard components. This total system

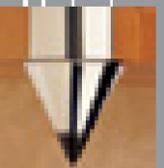
view of crossover design ensures a far more natural presentation of music to the listener.

The multi-faceted trapezoidal design of the immensely strong cabinet reduces internal standing waves, further minimising colouration. The cabinet, which is constructed

using birch ply for the primary panel components, is comprehensively internally braced to improve rigidity and further reduce the amplitude of panel resonance.

Heavyweight solid aluminium cones and floor-coupling spikes ensure any residual cabinet energy is efficiently dissipated.

A S U P E R B L I S T E N I N G E X P E R I E N C E





BREAKING SOUND BARRIERS.

Modern programme material and sources (e.g. SACD / DVDA) have driven the requirement for loudspeakers with extended frequency bandwidth performance. Always at the forefront of audio evolution, Tannoy has been developing just such wide bandwidth loudspeaker technology over many years.

Music contains transient information and rich harmonics beyond the range of human hearing for pure tones. Even bass notes have leading edge transients reaching 30kHz. Operating between the roll-off point of the Dual Concentric™ high frequency unit and 54kHz, the Dimension SuperTweeter will accurately reproduce the leading edge of individual notes allowing the listener to experience the entire bandwidth information of instruments.

In addition, by extending the frequency response by two octaves corrects time and phase response within the bandwidth of normal human hearing. Taking these acoustical phase anomalies beyond the range of human hearing adds realism to the soundstage by improving imaging and placement of instruments.

SCIENTIFIC RESEARCH.

Musical instruments have energy up to and beyond 100kHz, but can we perceive it?

Researchers monitoring brainwave activity on subjects exposed to wide bandwidth material to 60kHz have conducted controlled experiments. By careful monitoring and noting subjective scores under blind conditions, it was discovered that the listeners were indeed responding to the ultrasonic components in the music.

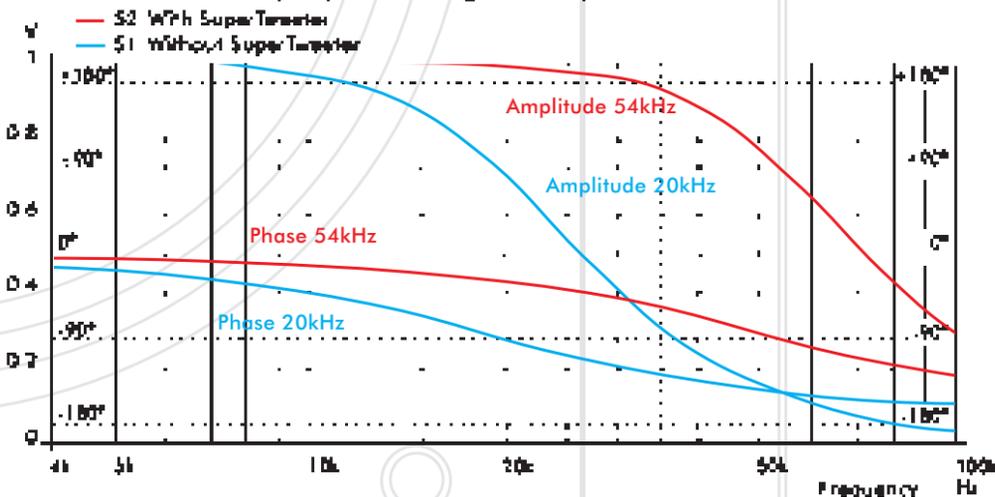
Further experiments have deduced that profoundly deaf subjects rely on ultrasonic detection in their discrimination of speech and tones. These tests concluded the mechanism was through bone conduction, probably to a small organ in the inner ear called the saccule, which is effectively wired to the cochlea, the organ responsible for hearing as we know it.

HOW DOES IT SOUND?

The proof as always is in the listening; whatever the source - whether vinyl, compact disc or the latest SACD / DVDA technology. All of the technical features and attention to detail combine in the Dimension models to provide discerning audiophiles with incredible wide band detail for the ultimate musical experience.

The addition of a SuperTweeter, time aligned to the acoustic centre of the Dual Concentric, reduces the high frequency phase error by moving the low pass roll off point much higher, typically -6dB @ 54kHz, -18dB @ 100kHz. Research continues into the actual mechanism of the perception of sound above 20kHz, but it can be clearly shown that the addition of a SuperTweeter will better preserve the harmonic relationship between instruments. To illustrate this the trace below shows the phase error at 20kHz and 54kHz roll off points. There is clearly less phase error - not just at high frequencies, but also as low as 5kHz.

The addition of a Tannoy SuperTweeter gives less phase error



	TD8	TD10	TD12	TDC1
PERFORMANCE				
Recommended amplifier power - Watts RMS	40 - 160	50 - 200	50 - 280	40 - 200
Continuous power handling - Watts RMS	100	130	180	130
Peak power handling	375	480	675	480
Sensitivity (2.83Volts @ 1 m)	90dB	91dB	92dB	92dB
Nominal impedance - Ohms	6	6	6	6
Frequency response -6dB	42Hz - 54kHz	38Hz - 54kHz	30Hz - 54kHz	42Hz - 54kHz
Dispersion	90 ° conical	90 ° conical	90 ° conical	90 ° conical

	TD8	TD10	TD12	TDC1
DRIVE UNITS				
SuperTweeter	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system
Dual Concentric™ High frequency	25mm (1") 50-micron aluminium dome with Tulip Waveguide.	25mm (1") 50-micron aluminium dome with Tulip Waveguide.	33mm (1.25") 50-micron aluminium dome with Tulip Waveguide.	25mm (1") 50-micron aluminium dome with Tulip Waveguide.
Dual Concentric™ Low frequency	200mm (8") Paper pulp cone, with a twin roll impregnated fabric surround.	254mm (10") Paper pulp cone, with a twin roll impregnated fabric surround.	300mm (12") Paper pulp cone, with a twin roll impregnated fabric surround.	200mm (8") Paper pulp cone, with a twin roll impregnated fabric surround.
Low frequency				2 x 200mm (8") Paper pulp cone, with a twin roll impregnated fabric surround.

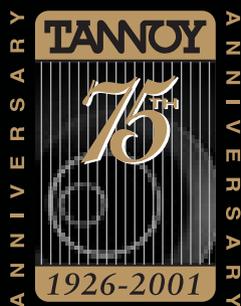
	TD8	TD10	TD12	TDC1
CROSSOVER				
Dual Concentric™ type	Bi-wired, hard-wired passive low loss, 2 nd order low pass, 1 st order high pass.	Bi-wired, hard-wired passive low loss, 3 rd order low pass, 1 st order high pass.	Bi-wired, hard-wired passive low loss, 3 rd order low pass, 1 st order high pass.	Bi-wired, hard-wired passive low loss, 1 st order low pass, 1 st order high pass.
Frequency	1.4kHz	1.2kHz	1.1kHz	1.4kHz
Low frequency to Dual midrange type				Bi-wired, hard-wired passive low loss, 1 st order.
Frequency				400Hz
SuperTweeter type	3 rd order high pass filter			
Frequency	14kHz	14kHz	14kHz	14kHz

	TD8	TD10	TD12	TDC1
CABINET				
Enclosure type	Dual chamber coupled reflex	Twin port reflex	Twin port reflex	Closed box
Construction	High-density 18mm birch-ply enclosure, internally cross-braced. High-density 30mm birch ply front baffle.	High-density 18mm birch-ply enclosure, internally cross-braced. High-density 30mm birch ply front baffle.	High-density 18mm birch-ply enclosure, internally cross-braced. High-density 40mm birch ply front baffle.	High-density 18mm birch-ply enclosure, internally cross-braced. High-density 30mm birch ply front baffle.
Dimensions mm (inches)	943 x 299 x 305 (37.1 x 11.8 x 12)	1095 x 350 x 370 (43.1 x 13.8 x 14.6)	1254 x 435 x 435 (49.4 x 17.1 x 17.1)	373 x 774 x 420 (14.7 x 30.5 x 16.5)
Weight kg (lbs)	22 (48.5)	32 (70.5)	52.5 (115.7)	31.5 (69.4)
Finish options	American cherry with polished alloy trim or Rose-nut with black anodised alloy trim.	American cherry with polished alloy trim or Rose-nut with black anodised alloy trim.	American cherry with polished alloy trim or Rose-nut with black anodised alloy trim.	American cherry with polished alloy trim or Rose-nut with black anodised alloy trim.
Optional accessories				Front grille assembly

TD SUB	
Output power	200 RMS, 400 Peak
Frequency range	18 - 100 Hz, with variable low pass filter
Drive unit	380mm Long Throw Heavy DutyCast Chassis
Amplifier type	DC coupled MOSFET
Input connectors	Twin phono connectors, line level 4mm sockets, speaker level
Mains input - Volts	115 or 230, via fused I.E.C. socket
Mains fuses	Semi Delay 3.15A 220-240V Semi Delay 6.3A 110-120V
Protection	Internal PCB mounted fuses and electronic protection
Gain control ranges - dB	80
High level two channel unbalanced	100k
High level single channel balanced	100k

Low level unbalanced Black 0dB Red +12dB	10k
Low level single channel balanced	10k
Phase	Normal or reversed

CABINET	
Enclosure type	Damped reflex
Construction	High-density 25mm birch-ply enclosure, internally cross-braced. High-density 40mm birch ply front baffle.
Dimensions mm (inches)	805 x 522 x 510 (31.7 x 20.6 x 20.1)
Weight kg (lbs)	42 (92.6)
Finish options	American cherry with polished alloy trim or Rose-nut with black anodised alloy trim.



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Tannoy adopts a policy of continuous improvement and product specification is subject to change.
Colours represented here are as accurate as the printing process allows.