



Reference Series Home Theatre



The experience
of sound

TDM 23F Front Left and Right Speakers

As KEF's flagship home theatre range, the THX® system has the power to immerse you in different worlds. To trigger deep emotions. To make your heart soar. To make your hair stand on end. In short, to turn you from a passive spectator into an active participant.

The THX standards were developed to recreate the intensity of the cinema experience at home. With KEF's unique technology, our system comfortably exceeds THX criteria for full range Dolby Digital® reproduction. And for the viewer, the result is simply astonishing.

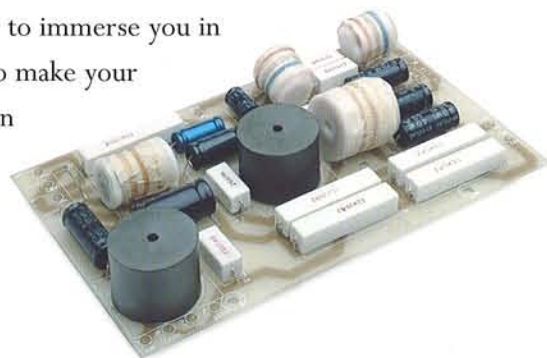
Together with the TDM 23C, the TDM 23F front speakers deliver devastating 'slam'. Like cinema speakers, the line-source MF/HF array compresses vertical dispersion to create a wide, even beam of sound at face level, undistorted by ceiling or floor reflections.

The three-way sealed box design partners KEF's celebrated soft dome 19mm (3/4") tweeter with dual 80mm (3") midrange units and dual LF drivers in discrete enclosures. With bass extension massively enhanced by KEF's radical racetrack concept, the 200 Watt TDM 23F combines huge reserves of power with phenomenal dynamic range.

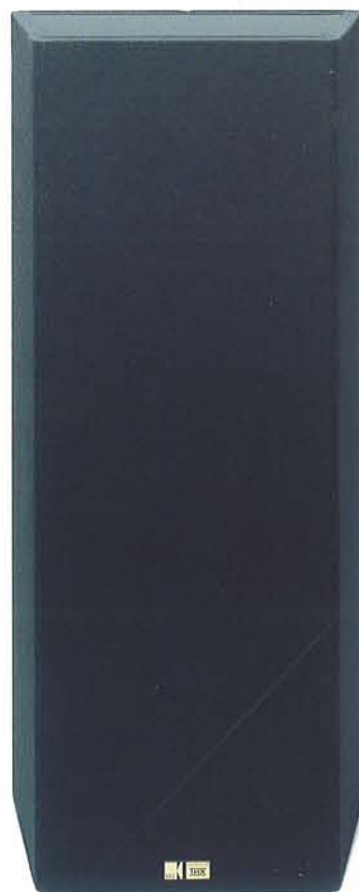
A boundary compensation feature allows each speaker to be precisely balanced for its position, whether on the wall (using the optional mounting kit) or in the room on the matching stand. Available in Black or White finish.



The integral Boundary Compensation Device (BCD) allows sound quality to be optimised for the speaker's position in the room.



KEF's complex high-order crossover circuits are computer-matched for seamless integration of the different drive units.



TDM 23C Centre Channel Speaker

As the heart of any home theatre system, the centre speaker is critical. The slightest timbral imbalance between it and the front speakers risks destroying the illusion of presence. To avoid 'breaking the spell', their audio characteristics should be as similar as possible. In KEF's THX® system, they're identical.



The TDM 23C shares exactly the same high order crossover components and drive units as the TDM 23F, with the HF/MF array rotated through 90 degrees to maintain the same intricately detailed horizontal coverage.

The same Ferrofluid-cooled tweeter accounts for the uncannily natural-sounding dialogue and vocals. Dual B169 racetrack bass drivers deliver the same tightly controlled bass extension. Even the

cabinet construction is the same, with its smoothly contoured baffle to minimise diffraction effects. Like the TDM 23F, it plays loud, with superb musicality and off-axis performance. In other words, the acoustic match is perfect.

And like all THX system speakers, the TDM 23C is hand built to Reference Series standards, and measured against a calibrated laboratory reference system to within a tolerance of 0.5 dB. An integral Boundary Compensation Device allows the acoustic characteristics to be optimised for its position in the room - whether above or below a large TV or on the wall (using the optional mounting kit). Available in Black or White finish.



The computer-optimised fabric dome tweeter is Ferrofluid-cooled for increased power handling.



The sweet musicality of the TDM 23C's dual 80mm (3") midrange cones is seamlessly integrated with the upper and lower ends of the frequency range.



KEF's unique racetrack design delivers the low frequency performance of a 200mm (8") cone in a cabinet which can only accommodate a 160mm (6 1/2") conventional bass driver.

TDM 34DS Di-pole Surround Speakers

Above all, the latest digital surround sound formats are distinguished by the power of ambient effects to create a detailed and convincing three-dimensional atmosphere. If you have the right full bandwidth surround speakers, that is.

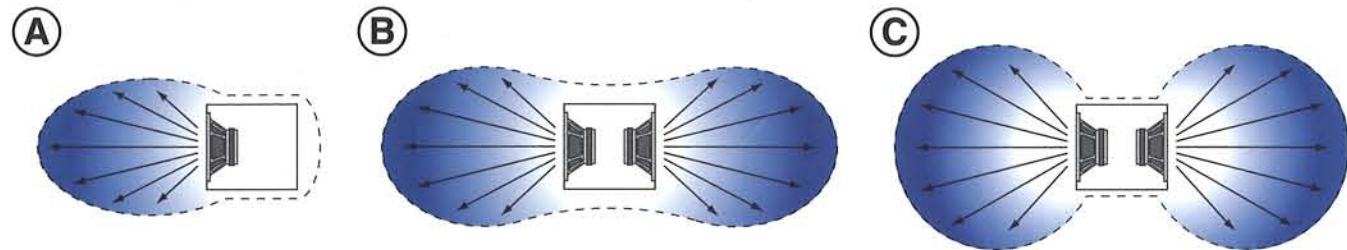


The TDM 34DS is a full three-way di-pole design, in which the cabinet contains two separate speaker systems connected out of phase with each other. This configuration has the effect of creating a 'null'; the sound appears to wash over and through the listening area, rather than coming from either speaker. These characteristics are perfectly complemented by the inherent benefits of KEF's revolutionary Uni-Q® technology, which generates an even soundfield throughout the room.



In the TDM 34DS, two fourth generation 160mm (6½") Uni-Q HF/midrange drivers are coupled with a racetrack LF driver in a discrete enclosure, giving bass performance which is literally unbeatable for the size. With 150 Watt power handling and identical timbral properties to TDM 23F and TDM 23C, the TDM 34DS is capable of filling the space with a sound stage that's so real you can almost touch it. Physically as well as emotionally, you're there. Compact, handsome and easy to mount, the TDM 34DS is available in Black or White.

With KEF's patented Uni-Q® technology, the tweeter is mounted at the exact acoustic centre of the midrange cone, allowing both drivers to act as a single point source.



A. Mono-pole radiation pattern.

B. Bi-pole radiation pattern.

C. Di-pole radiation pattern.

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TDM 45B Active Subwoofer

Awesome is a word much over-used in describing bass performance. Not so with the TDM 45B; the first time you experience it, awe is exactly what you feel. With a massive 300W internal power amplifier driving a 375mm (15") long throw woofer, it's hardly surprising. Nothing else in its price range even comes close.

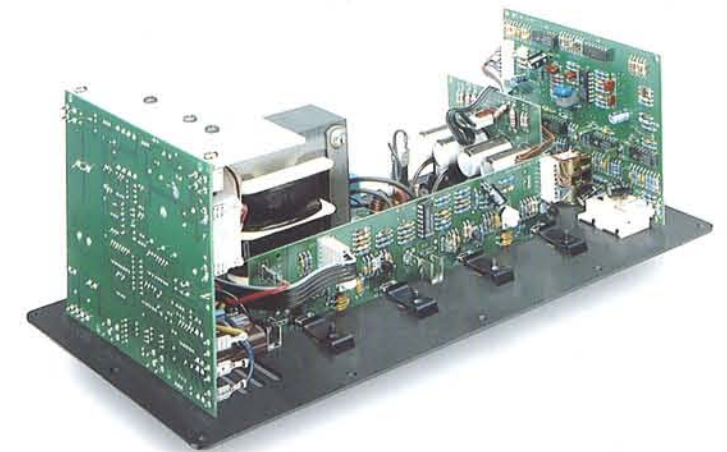
There's more to superlative bass presence than sheer power, though. For all its prodigious output, the TDM 45B amplifier generates far lower levels of spurious noise than the minimum stipulated by THX® standards.



The 375mm (15") coated paper cone bass driver provides formidable LF extension for dramatic bass effects.

Extending from 120Hz right down to 15Hz, the dynamic range is formidable. The crossover circuitry features continuously variable low pass/high pass tracking to integrate bass response seamlessly with the rest of the system. As a sealed box design, the delivery is tighter, more musical - and being magnetically shielded, freedom of positioning is virtually unlimited.

As you would expect, the TDM 45B is acoustically matched with all other TDM Series speakers, and is switchable from THX to stereo modes for stunning performance with either movies or music. Black Ash finish.



Audiophile quality 300W RMS internal power amplifier with continuously variable auto-tracking crossovers for smooth system integration.



Inside The TDM 34DS



Each cabinet contains two identical speaker systems, connected out of phase. This makes the sound appear to hang in the air, rather than emanate from either speaker.

Compact

With a cabinet measuring only 295 x 419 x 196mm (11.6 x 16.5 x 7.7"), the TDM 34DS is remarkably small for a full bandwidth surround speaker designed for the latest digital formats.

Full three-way design

Specification far exceeds THX® standards, with two 160mm (6½") midrange/HF drivers and a racetrack LF cone in dedicated enclosures.

High performance tweeter

Advanced Ferrofluid-cooled fabric dome tweeter adds clarity and realism to vocals and dialogue whilst eliminating harshness.

KEF Uni-Q®

KEF's patented Uni-Q technology creates a detailed sound stage throughout the room, as opposed to the narrow 'sweet spot' of conventional speakers. When connected in di-pole configuration, as in the TDM 34DS, a smooth consistent soundfield is produced which delivers an almost uncanny sense of 'being there'.

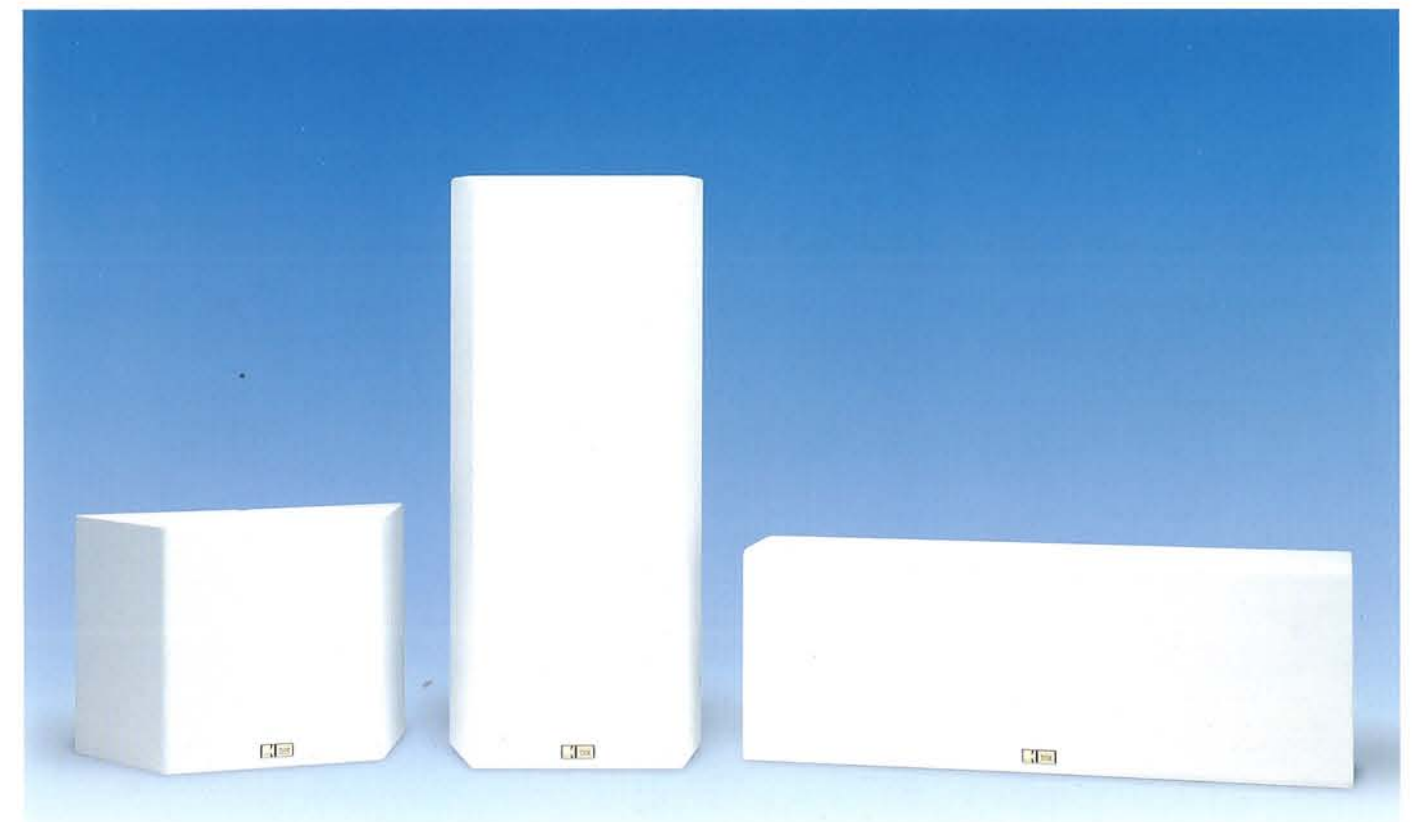
Racetrack bass

With the same B169 racetrack driver as the front left, right and centre channel speakers, phenomenal bass performance is guaranteed throughout the entire system. Dolby Digital® soundtracks are reproduced with stunning clarity and impact.

Specifications

	TDM 23F	TDM 23C	TDM 34DS	TDM 45B
Design	Three way closed box	Three way closed box	Three way closed box	Closed box
Frequency Response ± 3dB*	80Hz - 20kHz	80Hz - 20kHz	80Hz - 20kHz	35Hz - 150Hz
LF Corner - 6dB	65Hz	65Hz	65Hz	28Hz
Crossover Frequency	400Hz, 5kHz	400Hz, 5kHz	200Hz, 3.5kHz	50Hz - 150Hz, 80Hz (THX)
Power Handling	200 Watts	200 Watts	150 Watts	300W amplifier built in
Sensitivity (2.83V/1m)	90dB	90dB	88dB	Active system
Maximum Output	114dB @ 1m	114dB @ 1m	112dB @ 1m	115dB @ 1m
Impedance	4Ω	4Ω	4Ω	Active system
Magnetic Shielding	Yes	Yes	No	Yes
Internal Volume	25 Litres	22 Litres	12 Litres	70 Litres
Weight	14.5 kg (31.9 lbs)	14 kg (30.8lbs)	9.8 kg (21.5 lbs)	28 kg (62 lbs)
Dimensions (H x W x D)	715 x 316 x 180 mm 28.1 x 12.5 x 7.1 in	256 x 715 x 180 mm 10.1 x 28.1 x 7.1 in	295 x 419 x 196 mm 11.6 x 16.5 x 7.7 in	455 x 455 x 510 mm 18.2 x 18.2 x 20.4 in
Finish	Black or White	Black or White	Black or White	Black Ash

* Measured on HF axis.



Models TDM 34DS, TDM 23F and TDM 23C finished in white.



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Dealer Stamp



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KEF and Uni-Q are registered trademarks. Uni-Q is protected under GB patent 2 236929, and U.S. Pat. No. 5,548,657. Worldwide patents pending.

KEF Audio reserve the right, in line with continuing research and development, to amend or change specifications.

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