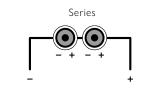
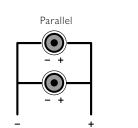
SETUP AND WIRING EXAMPLES

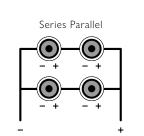
The following examples show some of the ways that KEF Architectural products may be used in your project. Included are wiring diagrams and the product settings required for each example.

WIRING NOTES

These types of wiring are used in the following examples. Please note that impedance will change depending on the wiring style as well as the type and number of speakers used.







COMMON SYSTEM IMPEDANCES

These are some of the most common system impedances when using different wiring configurations with KEF Architectural speakers.

PLEASE NOTE: Wiring diagrams are for guidance and illustration only. More speakers may be added, but you MUST ensure that the resulting impedance is suitable for the amplification you are specifying.

Wiring Style	Speaker 1 (Series 1)	Speaker 2 (Series 1)	Speaker 3 (Series 2)	Speaker 4 (Series 2)	Total Impedance
Series	4Ω	4Ω	-	-	8Ω
Series	8Ω	8Ω	-	-	16Ω
Parallel	4Ω	-	4Ω	-	2Ω
Parallel	8Ω	-	8Ω	-	4Ω
Series Parallel (w/sub)	8Ω	8Ω	6Ω	-	4.36Ω
Series Parallel	4Ω	4Ω	4Ω	4Ω	4Ω
Series Parallel	8Ω	8Ω	8Ω	8Ω	8Ω

PRODUCT SETTINGS

KASA500, as well as some Architectural subwoofers, have mode selection switches. The modes required are found with each example. The following icon shows the switch when BYPASS is selected:



NOTE: When Ci200QSb-THX is used with KASA500, ensure the CROSSOVER mode is set to bypass. When powered by a standard amplifier that does not feature a crossover, set the CROSSOVER mode to ON.

KASA500

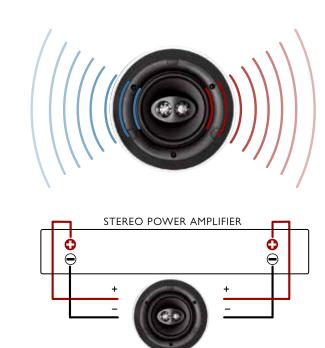
KASA500 has DIP switches on the rear to adjust the line output (high pass filter) and the internal DSP (for KEF Architectural subwoofers). Please contact KEF Technical Support, or consult the DIP switch chart for advice on the best settings for your particular KEF speakers and subwoofers. Also note that KASA500 may be used in place of any 'generic' stereo amplifiers in these examples.

SINGLE SPEAKER SOLUTIONS

KEF has two ways of bringing phenomenal sound into situations where space is at a premium and only a single

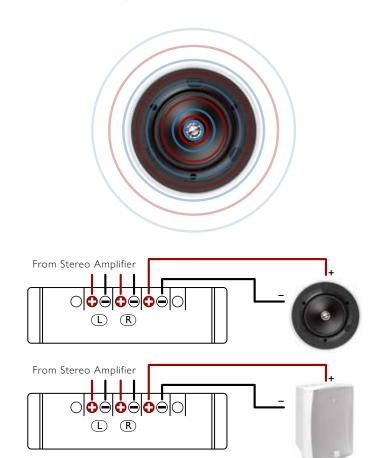
DUAL STEREO

The Dual Stereo special application loudspeakers feature two tweeters and a dual voice coil woofer. Stereo soundstage is created by combining the dispersion effect of the Tangerine Waveguide with asymmetrical tweeter placement, as illustrated below.

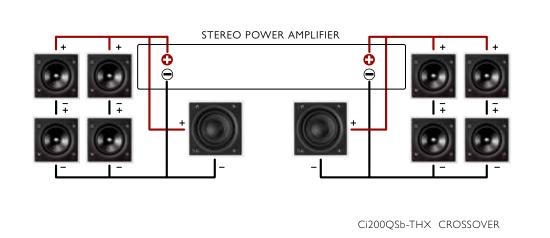


STEREO TO MONO TRANSFORMER (CiTR-SM)

The CiTR-SM converts a stereo amplifier signal into mono, allowing any KEF Architectural loudspeaker to deliver all the music from a single unit, with all the room filling benefit of Uni-Q.

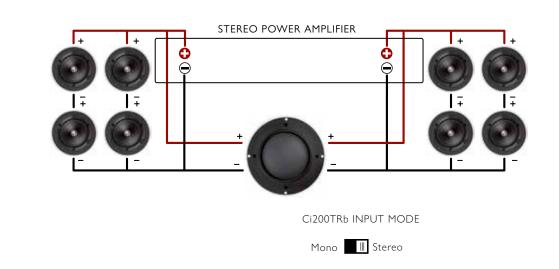


PASSIVE SUB/SAT SYSTEM (STEREO SUBWOOFERS)

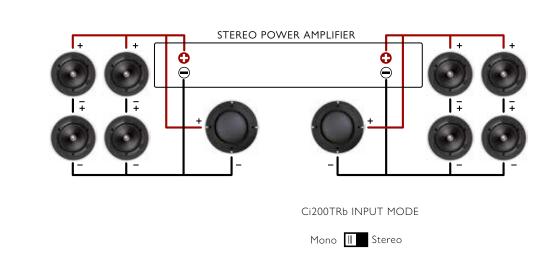


on 🖩 bypass

PASSIVE SUB/SAT SYSTEM (Ci200TRb STEREO MODE)

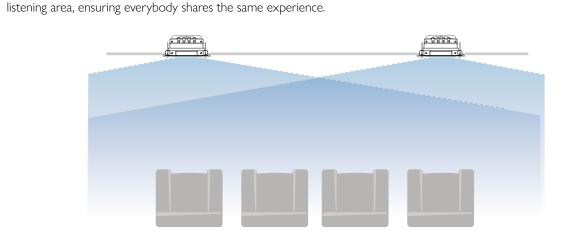


PASSIVE SUB/SAT SYSTEM (Ci200TRb MONO MODE)



KEFs signature Uni-Q Driver Array is a point source that places the tweeter at the exact acoustic centre of the midrange driver. The unique benefits of Uni-Q makes it the ideal solution for custom installation:

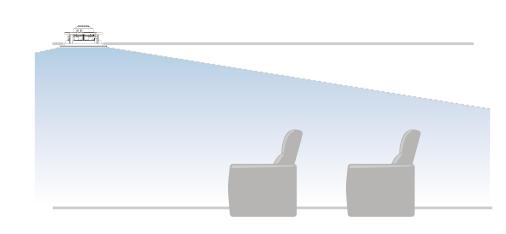
SIT ANYWHERE Equal directivity sound of up to 160° delivers pinpoint imaging and effortlessly natural performance across a huge



IN-CEILING LCR

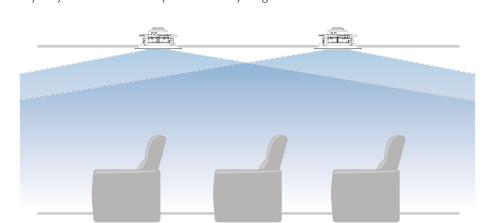
UNI-Q BENEFITS

By installing a KEF ceiling speaker as close to the front wall as possible, all listeners will hear the sound as if it is coming from the screen, rather than from above.



DOLBY ATMOS FOR ALL

The huge off-axis response ensures that everybody in the front row receives all the information from the rear Atmos channels, and everybody in the back row experiences everything from the front row.



STEREO POWER

AMPLIFIER

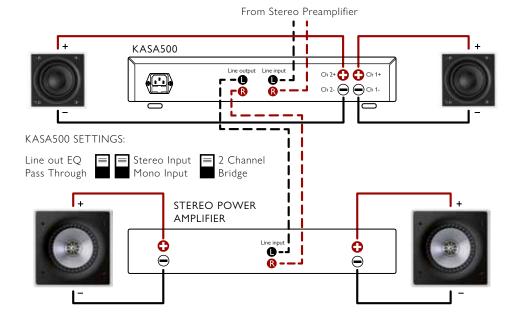
HIGH END SUB/SAT SYSTEM

KASA500 SETTINGS:

From Stereo Preamplifier

L----

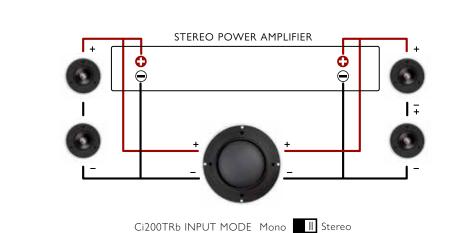




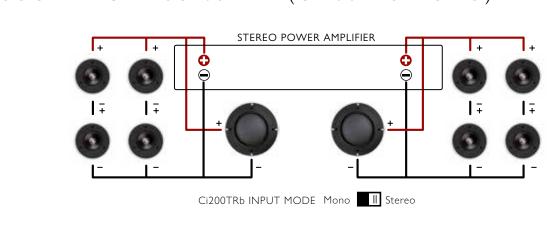
SOUNDLIGHTS

KEF Soundlights are specifically designed to mimic the aesthetics of installed lighting.

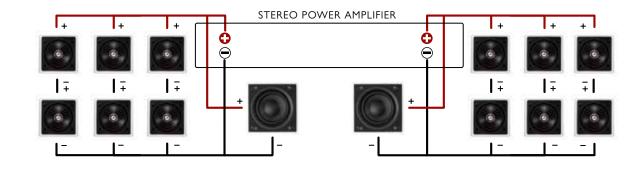
SOUNDLIGHT SUB/SAT 1 (Ci200TRb STEREO)



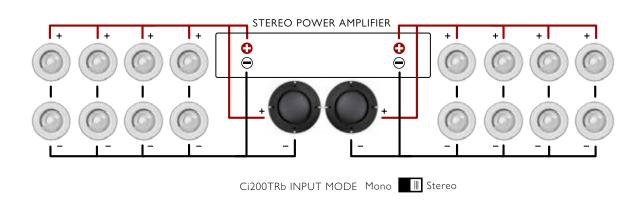
SOUNDLIGHT SUB/SAT 2 (Ci200TRb MONO)



SOUNDLIGHT SUB/SAT 3



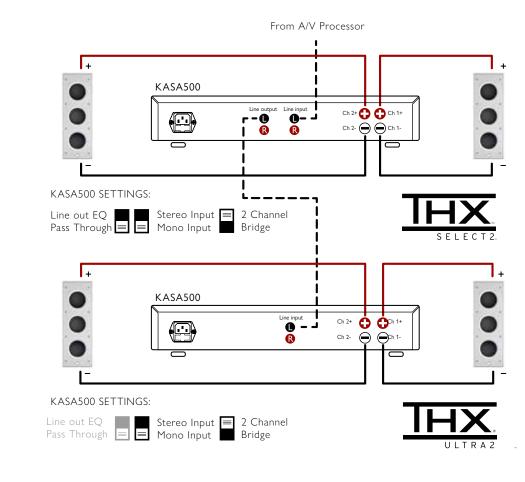
SOUNDLIGHT SUB/SAT 4 (Ci200TRb MONO)



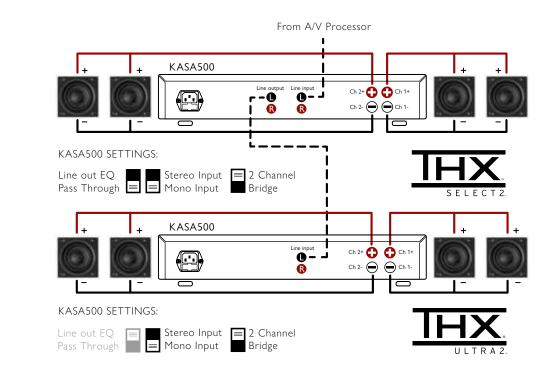
THX® CERTIFIED SUBWOOFERS

Two KEF Architectural subwoofers models, when combined with the KASA500 Audio System Amplifier, deliver THX® certified bass performance. For THX® Certified Select (rooms up to 2000 cubic feet), one KASA500 is used, whilst two KASA500 are needed for THX® Certified Ultra (rooms up to 3,000 cubic feet). The diagrams below show the number of subwoofers required, as well as the wiring and KASA500 settings.

Ci3160RLb-THX SELECT/ULTRA



Ci200QSb-THX SELECT/ULTRA

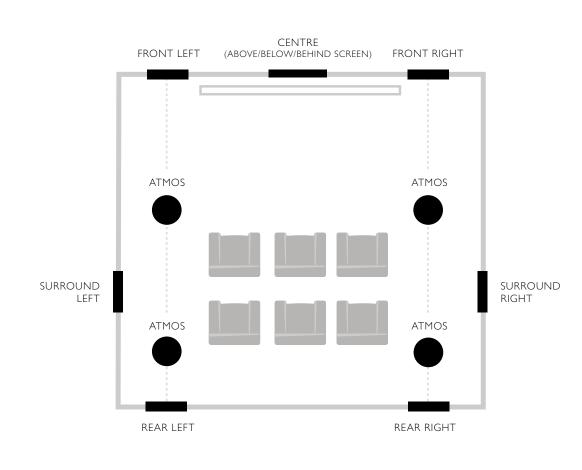


RECOMMENDED HOME THEATRE

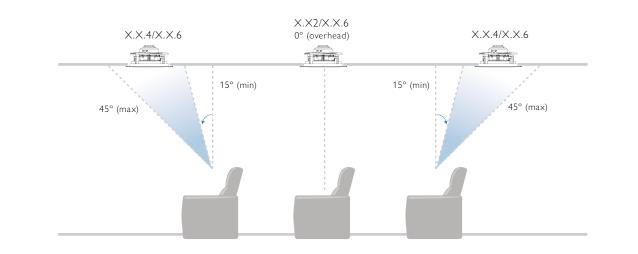
SPEAKER PLACEMENT

Due to the impressive off-axis response of Uni-Q, KEF recommends slightly different speaker placement for home theatre, designed to cover the whole listening area rather than cater for one single position (or provide subpar sound

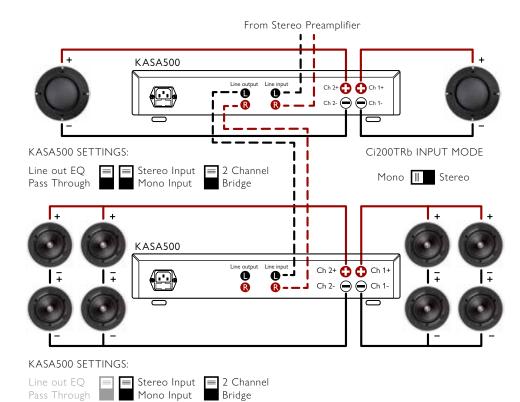
Front speakers should be positioned as wide as the seating area (with clearance from the side walls). The rear, as well as any Atmos channel speakers, should be positioned in line with the front speakers.. Surround speakers should be positioned in line with, or just behind the Main Listening Position.. Both Surround and Rear speakers should be positioned above ear height to assist in diffusing ambient sounds throughout the room.



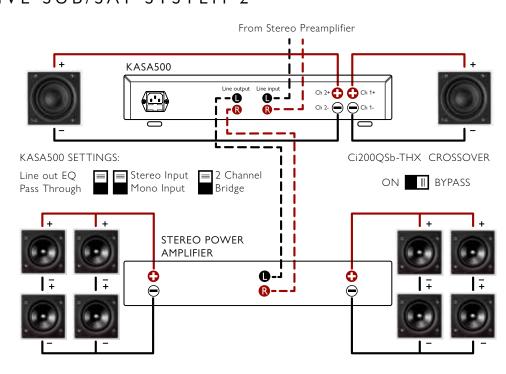
For Dolby Atmos, it is important for the overhead speakers to be positioned correctly, so that they work with the other speakers to faithfully deliver the sound effects. KEF recommends the following placement, measured from the side profile of the Main Listening Position, and still in line with the Front speakers. Note the configurations for the number of overhead speakers being used. Measure directly overhead from the middle of the listening area, front Atmos speakers from the front row, and rear Atmos speakers from the rear row.



ACTIVE SUB/SAT SYSTEM 1

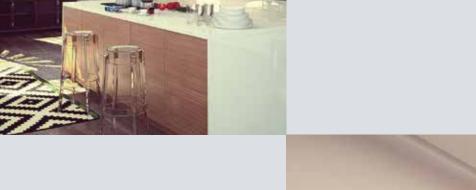


ACTIVE SUB/SAT SYSTEM 2









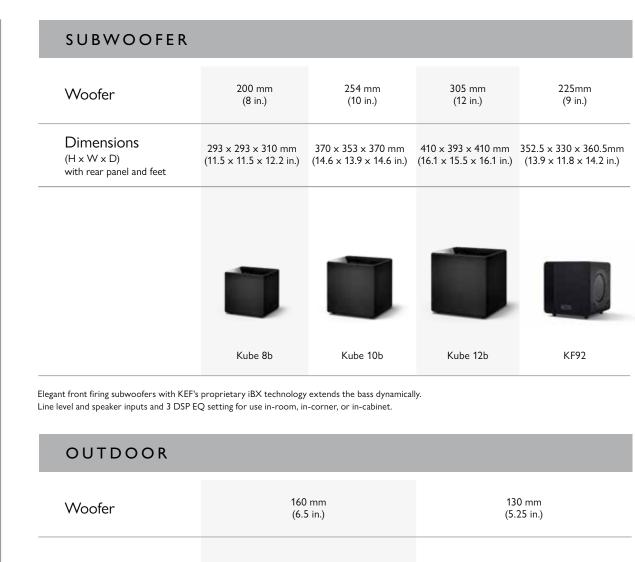


2020





	Tall Rectangle		Recta	angle	Square			Soundlight Square	Round				Soundlight Round		
Woofer	5 x 160 mm (5 x 6.5 in.)	3 × 160 mm (3 × 6.5 in.)	4 × 100 mm (4 × 4 in.)	200 mm (8 in.)	160 mm (6.5 in.)	200 mm (8 in.)	160 mm (6.5 in.) T Series 115mm (4.5 in.)	130 mm (5.25 in.)	100 mm (4 in.)	250mm (10 in.)	200 mm (8 in.)	160 mm (6.5 in.) T Series 115mm (4.5 in.)	130 mm (5.25 in.)	75 mm (3 in.)	50 mm (2 in.)
Cut-out	1052 x 209 mm (41.42 x 8.23 in.)	660 × 209 mm (25.98 × 8.23 in.)	476 × 114 mm (18.74 × 4.49 in.)	334 × 238 mm (13.15 × 9.37 in.)	274 x 194 mm (10.79 x 7.64 in.)	238 × 238 mm (9.37 × 9.37 in.)	194 x 194 mm (7.64 x 7.64 in.)	158 × 158 mm (6.22 × 6.22 in.)	112 x 112 mm (4.41 x 4.41 in.)	TBC	Ø240 mm (Ø9.45 in.)	Ø196 mm (Ø7.71 in.)	Ø158 mm (Ø6.22 in.)	Ø118 mm (Ø4.65 in.)	Ø65 mm (Ø2.56 in.)
REFERENCE Extreme Theatre	THX OLITABLE CIS160REF-THX	THX. Ci3160REF-THX													
R SERIES Extreme Theatre	Ci5160RL-THX	Ci3160RL-THX				THX OLIVERY CI200RS-THX				THX.	THX VI.TRAZ Ci200RR-THX	THX VISTOR Ci160RR-THX			
Q SERIES Uni-Q Driver			THX ILLET Ci4100QL-THX	Ci200QL	Ci160QL	Ci200Qs	Ci160QS	Ci130QS	Ci100QS		Ci200QR	Ci160QR	Ci130QR	Ci100.2QR	
C SERIES Uni-Q Driver					Ci160.2CL		Ci160.2CS	Ci130.2CS			Ci200.2CR	Ci160.2CR	Ci130.2CR		Ci50R
E SERIES Uni-Q Driver							Ci160ES				Ci200ER	Ci160ER	Ci130ER		
C SERIES Dual Stereo							Ci160CSds					Ci160CRds			
FL SERIES Flush Mount								Ci130QSfl					Ci130QRfl		
T SERIES & SUBWOOFERS Thin Speakers & Subwoofers		Subwoofer THX ** THX *** Ci3I60RLb-THX KASA500 Required				Subwoofer THX ** THX *** Ci200QSb-THX KASA500 Recommended	Thin Ci160TS			Subwoofer IHX Ci250RRb-THX KASA500 Required	Subwoofer Thin Ci200TRb KASA500 Recommended	Thin Ci160TR			
Rough-in Frame	RIF5160L	RIF3160L	RIF4100L	RIF200L	RIF160L	RIF200S	RIF160S	RIF130S	RIF100S	RIF250R	RIF200R	RIF160R	RIF130R	RIF100R	N/A
Rear Enclosure	N/A	N/A	N/A	RNC200L	RNC160L	RNC200S Excluding Ci200RS-THX & Ci200QSb-THX	RNC160S	RNC130S	RNC100S	N/A	RNC200R Excluding Ci200RR-THX	RNC160R	RNC130R	RNC100R	Ci50CAN





Ventura 6



AMPLIFICATION



KASA500

KASA500 is a powerful 2x250W Class D stereo amplifier. With powerful, bespoke DSP utilizing KEF's propriety iBX technology that extends the bass depth dynamically, KASA500 unlocks the full potential of the driver's power at any listening level. Custom EQ settings optimise the performance of KEF subwoofers into any installation, and limitless system configurations are possible through the inclusion of high-level speaker and line level inputs, plus signal pass-through with full range or adjustable high pass operation. Rackmount ears included.

ACCESSORIES



Steel Rough-in Frames (See table for product code) Rough-in Frames (new construction brackets) are used with in-wall and in-ceiling speakers and are available

pre-wiring of a new construction

installation, they allow the installer

to reserve the space in the wall

or ceiling and simplify cutting the

perfect hole size.

for most models. Installed during the

Steel Rear Enclosures (See table for product code) Metal Rear Enclosures (back boxes) are available for most models of KEF architectural speakers. Installed during the pre-wiring of a new construction installation they provide a sealed enclosure for the loudspeaker and reduce sound transmission to the room behind the speaker.



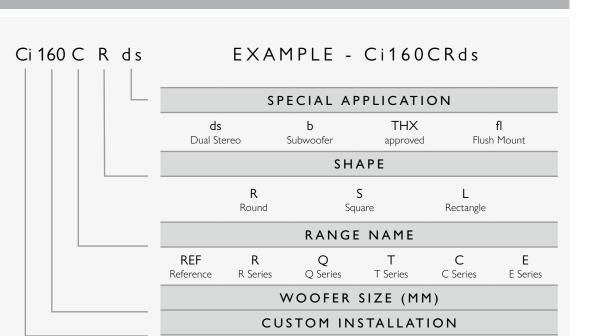
KEF Ci product to play two channels

mounted near speaker or equipment.

(stereo) from a single speaker. Can be

Ventura 5

SPEAKER NOMENCLATURE



FEATURES



EXTREME HOME THEATRE

A complete system designed and built to THX® Certified Ultra and THX® Certified Select standards the Ci-REFERENCE and Ci-R Series consists of two powerful in-ceiling speakers that can be combined with one of four in-wall models and a choice of two sensational new powered subwoofer configurations. As you might expect, its towering performance sets a new standard for custom



KEF's patented Uni-Q driver technology places the tweeter at the acoustic centre of the bass/midrange cone so that both act as a single source, dispersing sound widely and evenly over a large area. No matter the placement, KEF custom installation speakers deliver effortlessly natural sound with minimal distortion to every person in the room.



Ci200QSb-THX

INSTALLED SUBWOOFER

With three subwoofers to choose from, the elegant Ci3160RLb-THX with 3 lighting fast 6.5" woofers, the powerful and flexible square Ci200QSb-THX with a massive 8" driver, and the svelte Ci200TRb that mounts in under 59mm, there is a KEF installed subwoofer for any room or installation. When driven by the powerful KASA500 amplifier (2x250W), whose custom DSP EQ curves allow them to adapt to any sonic situation, the KEF installed subwoofers are the foundation for your theatre or music room, unleashing all of the impact, drama, and intensity of any movie soundtrack while preserving valuable floor space! KEF's THX® Certified Select and THX® Certified Ultra in-wall subwoofers are built with a serious regard for aesthetic

appeal that will make even the most demanding interior designer fall in love.



OUTDOOR

Weatherproof, IP65 certified and salt spray tested, marine quality Ventura Series outdoor models can flood your pool, garden or yacht with high quality sound, even

- Weatherproof sealed enclosure
- Salt spray tested for over 1200 hours
- Operating temperature range: -40 to +70C (-40 to +158F)

in the most extreme atmospheric conditions.

- Independent test lab certified IP65
- Aluminium grille and mounting bracket, $\frac{1}{4}$ " -20 threaded inserts for mounting options
- Stainless steel / brass hardware Rotatable logo

FLUSH MOUNT

The Flush Mount series features a brand new installation design from KEF. A mounting assembly is easily installed before the plastering stage, allowing you to achieve a perfectly flush fit. With the same paintable grille as the rest of the ranges, you can completely eliminate all traces of the speaker – except for the beautifully natural sound.



EXTREMELY LOW PROFILE

When nothing else will fit at 40mm (1.57in.) deep, requiring a mounting depth of only 36mm (1.42in.), the Ci160TR round, the Ci160TS square, and the Ci200TRb subwoofer at 59mm are the slimmest architectural speakers in the world, and all fit snugly into even the narrowest voids without compromising audio performance.



ULTRA THIN BEZEL

Offers the slimmest visible rim around the speaker while casting virtually no shadow. Designed to sit tight to the wall or ceiling with no visible gap, KEF speakers disappear as if part of the ceiling. Coupled with a magnetic grille that is as silent as it is acoustically transparent, KEF architectural speakers are fast and easy to install for the ultimate in discreet installation.

DUAL STEREO

coil woofer.

For areas with space for only one speaker, KEF's Ci Series Dual Stereo model plays left and right channels from a single unit containing twin tweeters and a dual voice

SOUNDLIGHTS

As discreet as LED downlights, KEF's tiny Soundlights give you big speaker performance with outstanding sound coverage, thanks to Uni-Q's exceptionally wide dispersion.