

## Architectural Speaker

---

### Product Overview

The KEF Ci160TR is an ultra-slim high-performance speaker designed for in-ceiling flush mount installations where mounting depth is a concern. The speaker has a total height of just 40mm and a mounting depth of only 36mm. Such an incredibly compact package is achievable through the implementation of KEF's patented low profile 115mm mid-bass driver and a 25mm vented aluminium tweeter. The tweeter includes KEF's Tangerine Waveguide™ which greatly improves acoustic response and dispersion. The Ci160TR also features KEF's Ultra-Thin Bezel and is built to be moisture resistant making it the ideal choice for any indoor or outdoor luxury audio application where a shallow mounting depth prevents the use of a conventional speaker.

### Key Features

**KEF “sit-anywhere” Uni-Q® Technology – Patented Low Profile Driver** – The overall 40mm speaker depth is achieved thanks to a flat 115mm mid bass driver that despite its slim design, still delivers excellent bass extension.

**Tangerine Waveguide™** - In addition to protecting the driver, the Tangerine Waveguide further enhances dispersion allowing for 160 degrees of coverage.

**Weather Resistant** – Manufactured using a proprietary plating and powder coating process, the KEF Ci160TR is UV protected and moisture resistant making it safe for use in bathrooms, pool areas, and on ocean yachts.

**Ultra-Thin Bezel (UTB)** – To maintain a premium aesthetic appearance, the ABS bezel was carefully engineered to be as thin as possible while maintaining the necessary structural rigidity.

**Magnetic Grille Assembly** – For security and ease of installation the grille attaches by a powerful magnetic circuit and can be painted to match any décor.

**Versatile Installation** – The Ci160TR can be mounted in the tightest of spaces through either traditional dog leg tabs or be screwed directly onto a solid surface.

**IP64 Certification** – The speaker passed official IEC testing to ensure that splashing water would have no harmful effects on assembly components.



### Architect and Engineer Specifications

The speaker shall be designed for shallow in-ceiling and flush mount installation requiring a speaker with a mounting depth of no greater than 40mm.

The speaker shall consist of a 115mm mid-bass driver and a 25mm vented aluminium tweeter utilizing a waveguide to deliver a natural high frequency response across a wider listening area. The drivers shall be mounted in a UV protected ABS baffle with a paintable bezel of no more than 5mm in width. The entire assembly shall be built utilising moisture resistant components and a paintable grille assembly that attaches by a powerful magnetic circuit for ease of installation and security. The speaker shall mount by either traditional mounting tabs or contain a provision allowing it to be screwed directly onto a solid surface. It shall have a minimum frequency response of 110Hz – 24kHz +/- 6dB and not weight more than 1kg.

The nominal impedance of the speaker shall be 8 ohms and it must achieve a minimum pressure sensitivity of 87dB SPL at 1 meter on-axis with an input of 2.83 volts. The crossover frequency between the mid-bass driver and tweeter shall be 1.7kHz. The speaker shall meet numerous safety and performance standards listed by regulatory bodies around the world.

The speaker shall be the KEF Ci160TR.

# Ci160TR



## Architectural Speaker

---

### Specifications

Model	<b>Ci160TR</b>	
Series	T Series	
Nominal impedance	8Ω	
Sensitivity (2.83V/1m)	87dB	
Frequency response (±6dB) open-backed	110Hz - 24kHz	
Frequency range (-10dB)	69Hz - 45kHz	
Nominal coverage (degrees)	160°	
Max SPL (dB)	101dB	
Crossover frequency	1.7kHz	
Drive units	LF	115mm (4.5in.) dual layer
	HF	25mm (1in.)
Recommended amplifier power	10 - 100W	
Recommended high-pass filter (Hz)	70Hz	
Product external dimensions	Diameter Ø	234.6mm (9.24in.)
	Depth	40mm (1.57in.)
Cut-out dimensions	Diameter Ø	196mm (7.71in.)
Net weight	1kg (2.2lbs)	
Mounting depth from surface	<36mm (1.42in.)	
Optional rough in frame	RIF160R	
Optional rear enclosure	RNC160R	
Ideal rear volume (L)	3L	
Minimum rear volume (L)	1L	
Certification	IP64	

Visit [KEF.COM](https://www.kef.com) for more about KEF and its products.

KEF reserves the right, in line with continuing research and development, to amend or change specifications. E&OE.

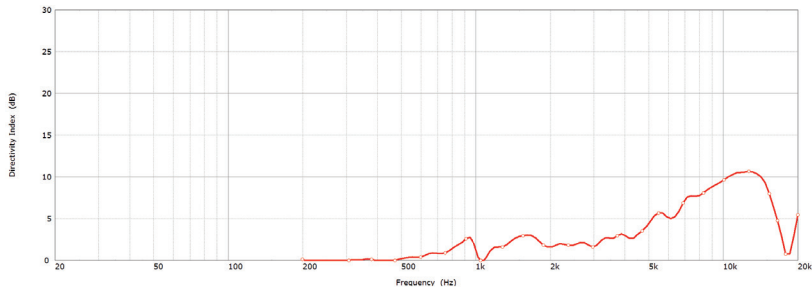
The Ci speakers that utilise THX in the model name have undergone and passed certified THX approval.

# Ci160TR

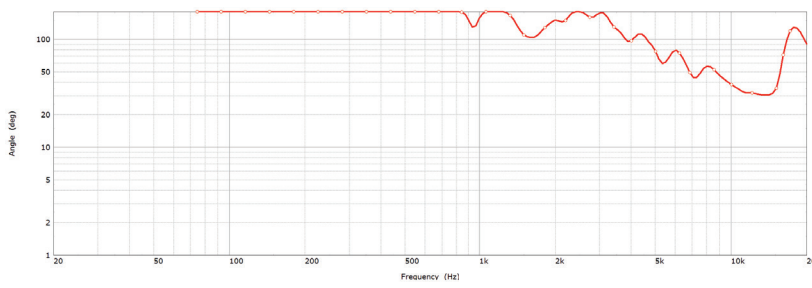


## Architectural Speaker

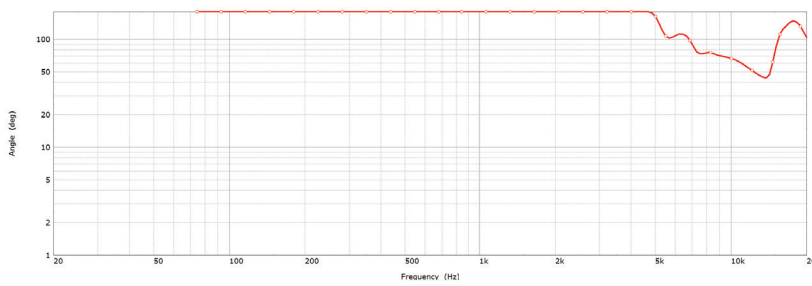
### Directivity Index



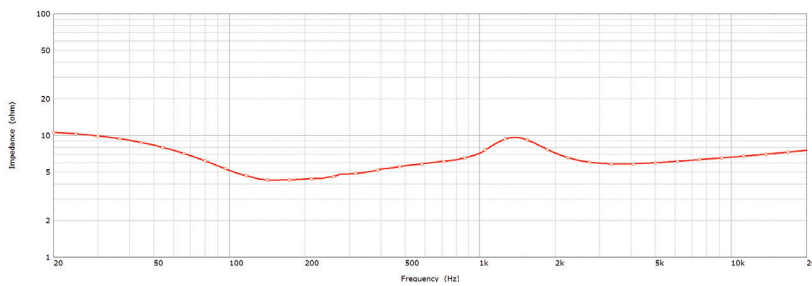
### Beamwidth -3dB



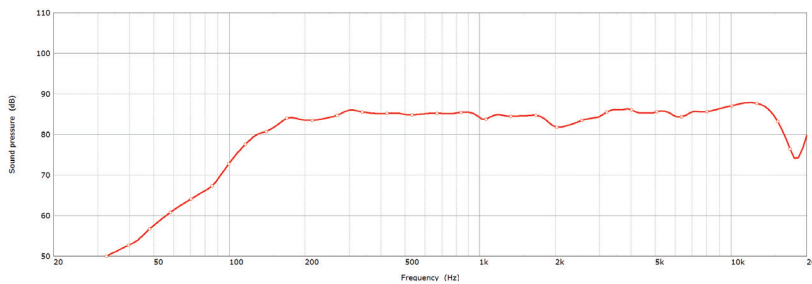
### Beamwidth -6dB



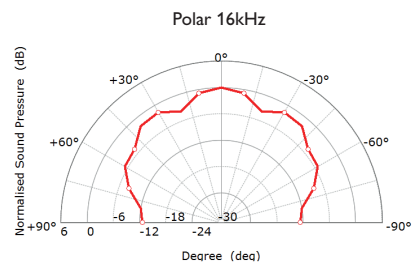
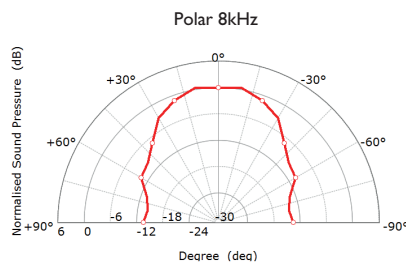
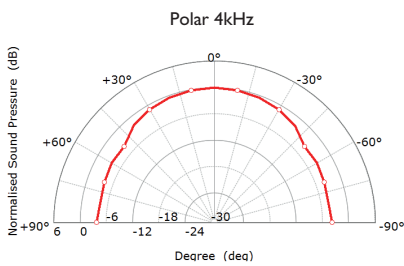
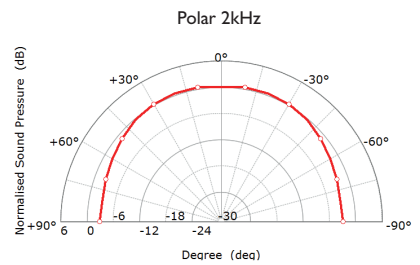
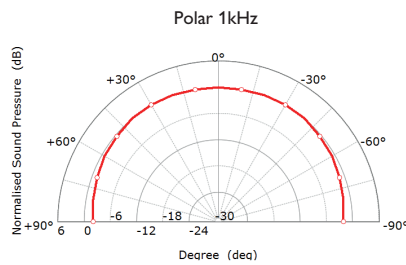
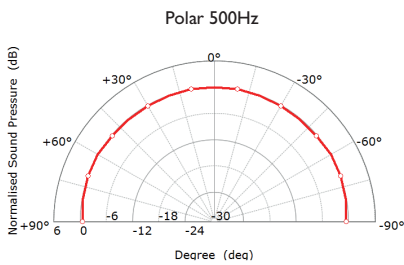
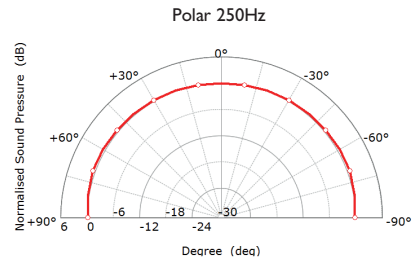
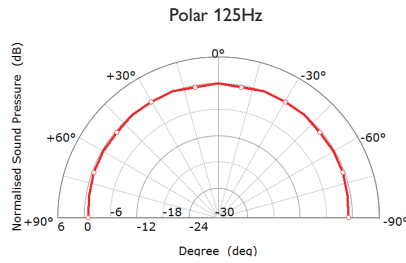
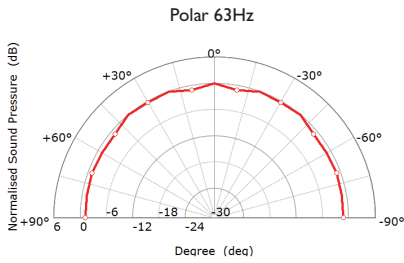
### Impedance



### Sensitivity (2.83V/1m)



### Polar Responses

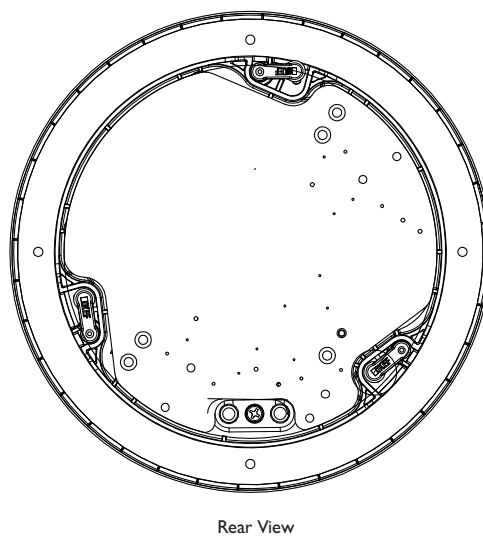
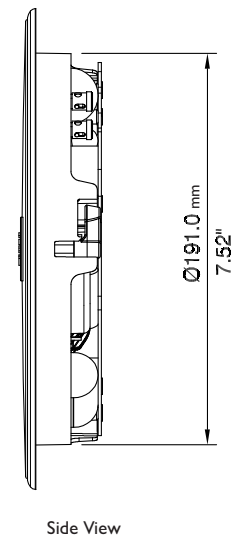
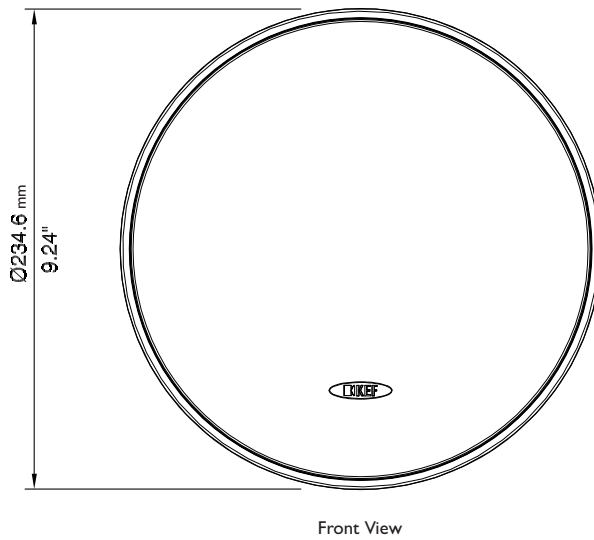
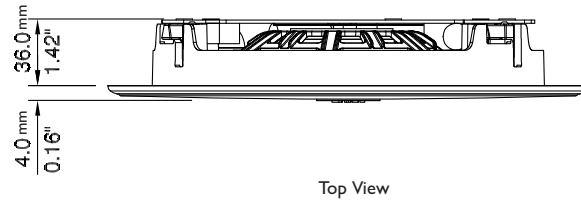


# Ci160TR



## Architectural Speaker

### Mechanical Diagrams



Dimensions in mm (inches)

KEF reserves the right, in line with continuing research and development, to amend or change specifications. E&OE.