Ci160TR

Architectural Speaker

OBSESSED WITH HIGH RESOLUTION

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.

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Specifications

Model		**Ci160TR**
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

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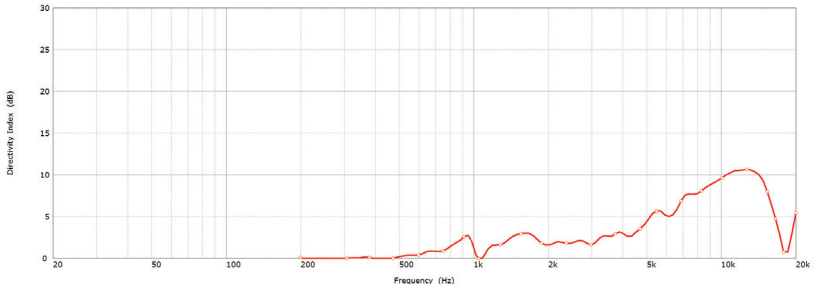
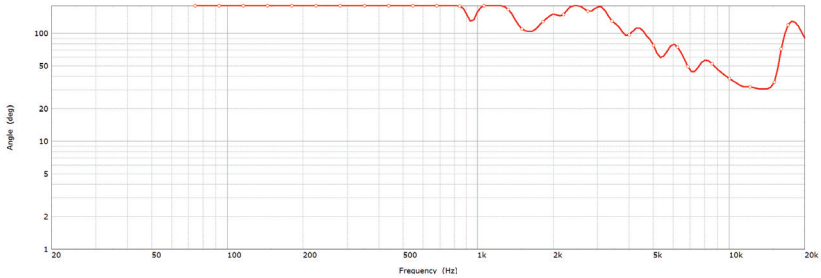
The Ci speakers that utilise THX in the model name have undergone and passed certified THX approval.

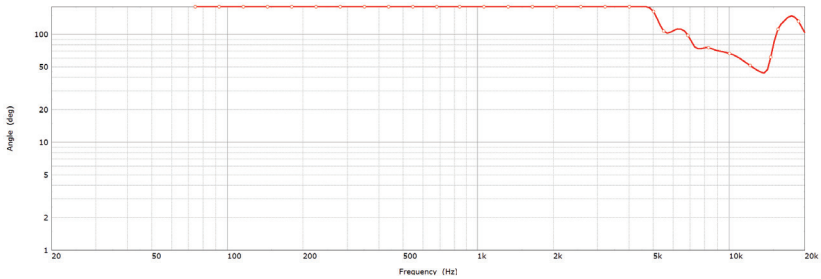
Directivity Index



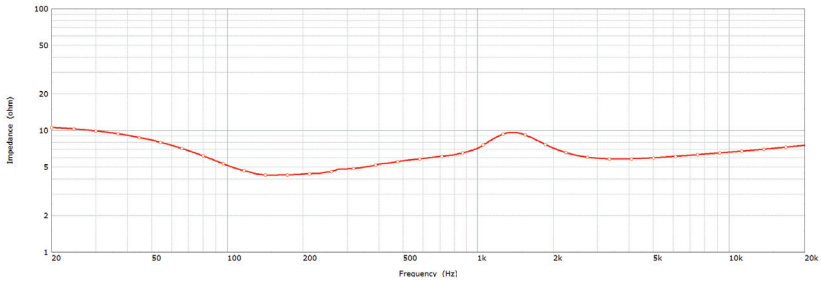
Beamwidth -3dB



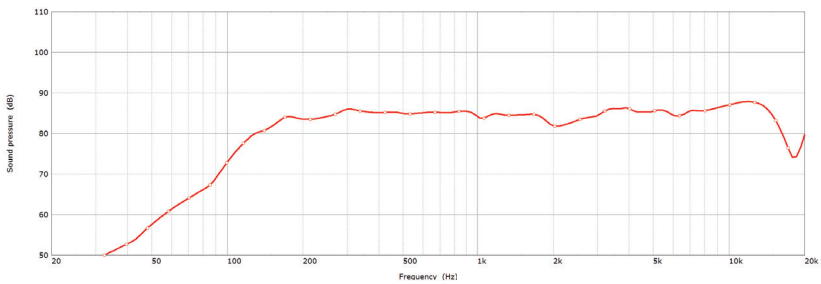
Beamwidth -6dB



Impedance

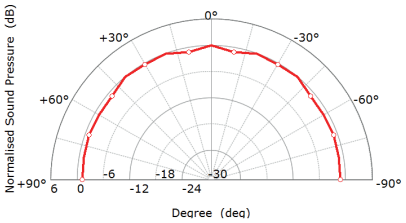


Sensitivity (2.83V/1m)

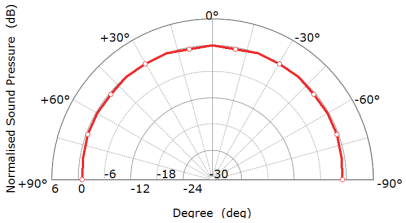


Polar Responses

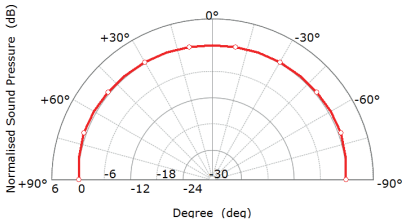
Polar 63Hz



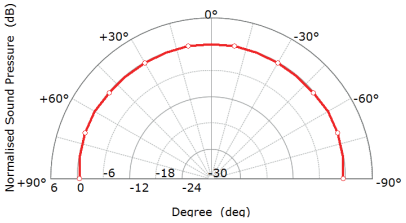
Polar 125Hz



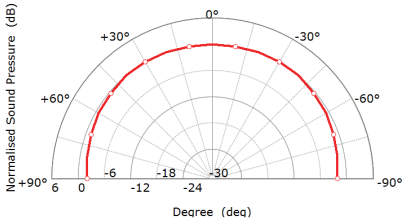
Polar 250Hz



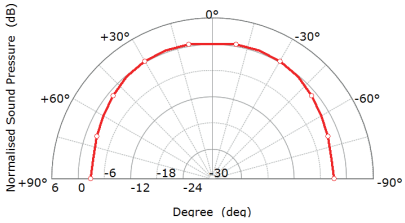
Polar 500Hz



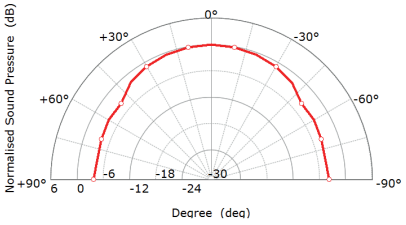
Polar 1kHz



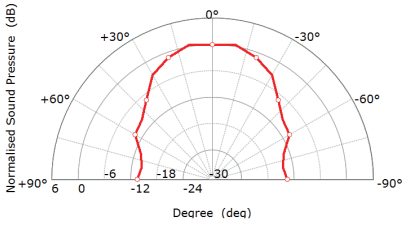
Polar 2kHz



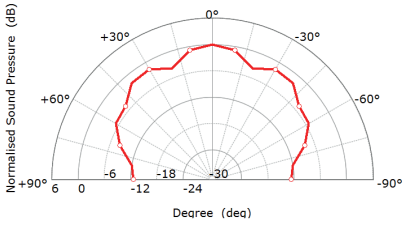
Polar 4kHz



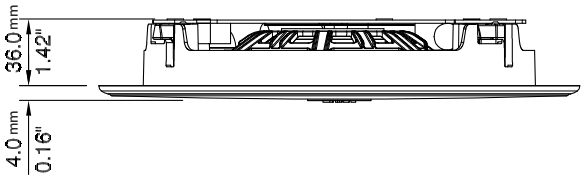
Polar 8kHz



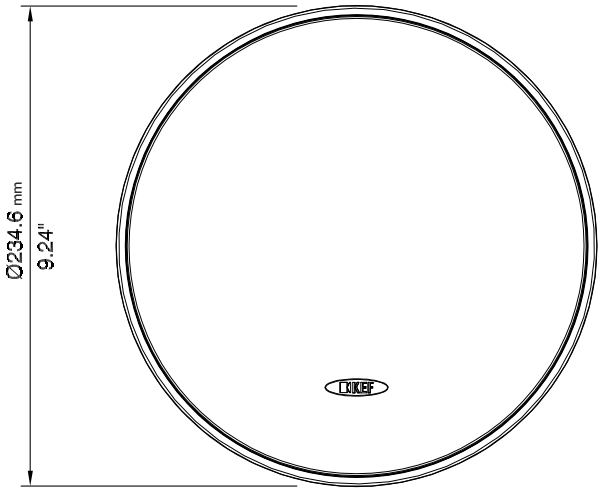
Polar 16kHz



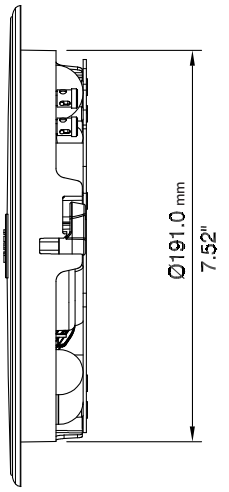
Mechanical Diagrams



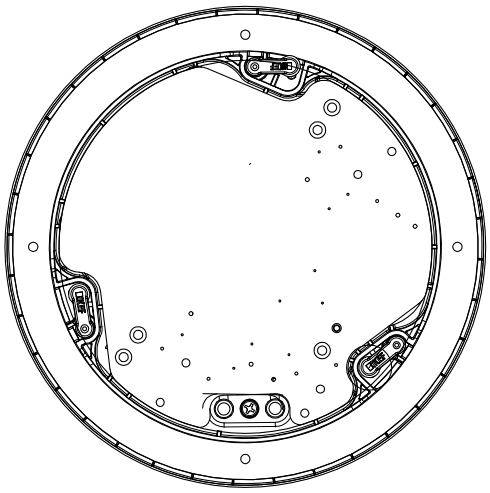
Top View



Front View



Side View



Rear View

Dimensions in mm (inches)

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