

## CI160QR



OBSESSED WITH HIGH RESOLUTION

## Architectural Speaker

## Product Overview

The KEF CI160QR is a premium high performance speaker designed for in-ceiling and flush mount installations. It's a coincident point source design featuring KEF's proprietary "sit-anywhere" Uni-Q® technology with a driver array that includes a 19mm high frequency aluminium dome tweeter mounted in the acoustic centre of the 160mm low frequency woofer. The tweeter features KEF's Tangerine Waveguide engineered to enhance high frequency dispersion and when combined with the Uni-Q array, creates a speaker that delivers exceptionally smooth and consistent coverage across a wide listening area. The KEF CI160QR is constructed using weather resistant components and the Ultra-Thin Bezel and grille are treated with a UV protective finish making this speaker ideal for hi-fidelity applications in premium commercial venues such as luxury hotels, conference centres, and restaurants.

## Key Features

**KEF "sit-anywhere" Uni-Q® Technology** – This proprietary driver array places the tweeter in the acoustic centre of the woofer delivering wide dispersion with consistent sound characteristics throughout the space. Because the high and low frequencies originate from the same point, acoustic lobing problems common to other speaker designs are virtually eliminated allowing fewer speakers to deliver smooth coverage across a wide listening area.

**Tangerine Waveguide** – In addition to protecting the driver the Tangerine Waveguide further enhances dispersion allowing for 125 degrees of coverage.

**Weather Resistant** – Manufactured using a proprietary plating and powder coating process, the KEF CI160QR is UV protected and designed to withstand the harshest operating environments.

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

**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 in-ceiling flush mount installations and utilize a coincident point source design with the high frequency tweeter mounted in the acoustic centre of the low frequency woofer.

The speaker shall consist of a 160mm low frequency woofer and a vented 19mm aluminium dome high frequency tweeter featuring a waveguide for improved dispersion mounted in a UV protected ABS baffle with a paintable bezel of no more than 5mm in width. The grille shall also be paintable, include a paint shield, and attach by a powerful magnetic circuit for ease of installation and security. The speaker design shall be open back and deliver a minimum frequency response of 38Hz-34kHz +/- 6 dB. The speaker shall not weigh more than 1.8kg and be available with a rough in frame kit.

The nominal impedance of the speaker shall be 8 ohms and it must achieve a minimum pressure sensitivity of 89 dB SPL at 1 meter on-axis with an input of 283 volts. The crossover frequency between the woofer and tweeter shall be 3.0kHz. The speaker shall meet numerous safety and performance standards listed by regulatory bodies around the world.

The speaker shall be the KEF CI160QR.

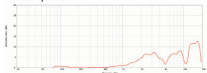
## Specifications

Model	CI160QR	
Series	Q Series	
Nominal impedance	8Ω	
Sensitivity (2.83V/1m)	89dB	
Frequency response (±6dB open-backed)	38Hz - 34kHz	
Nominal coverage	125°	
Max SPL	105dB	
Crossover frequency	3.0kHz	
Drive units	LF	160mm (6.5in.) UniQ
	MF	-
	HF	19mm (0.75in.)
Recommended amplifier power	10 - 125 W	
Recommended high-pass filter	45Hz	
Product external dimensions	Diameter Ø	234.6mm (9.24in.)
	Depth	98mm (3.86in.)
Cut-out dimensions	Diameter Ø	191.0mm (7.52in.)
Mounting depth from surface	91.0mm (3.58in.)	
Net Weight	1.8kg (3.96lbs)	
Optional rough in frame	RF160R	
Optional rear enclosure	RNC160R	
Ideal rear volume	25L	
Minimum rear volume	15L	

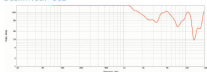
Visit [KEF.COM](http://KEF.COM) for more about KEF and its products.

KEF reserves the right, in line with continuing research and development, to amend or change specifications. EMOE. The CI speakers that utilize THX in the model name have undergone and passed certified THX approval.

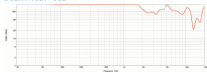
## Directivity Index



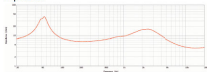
## Beamwidth -3dB



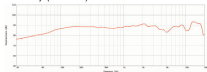
## Beamwidth -6dB



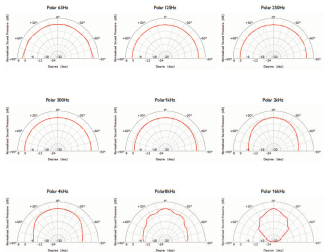
## Impedance



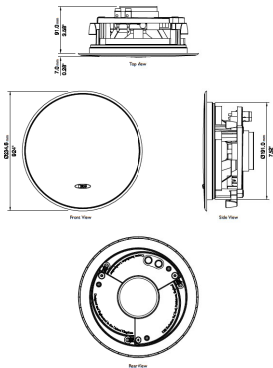
## Sensitivity (2.83V/1m)



## Polar Responses



## Mechanical Diagrams



Dimensions in mm (inches)

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