Product Overview

The KEF Ci160ER is a 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 16mm high frequency aluminium tweeter mounted in the acoustic centre of the 160mm low frequency woofer. The Ci160ER meets IP64 certification requirements and is specifically engineered to deliver exceptional acoustic performance in a value oriented package. The ABS assembly, Ultra-Thin Bezel and grille, are UV protected to withstand continued operation in direct sunlight. The KEF Ci160ER is the ideal choice for foreground, background, and announcement applications in hotels, convention centres, and other commercial venues.

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.

**Weather Resistant** – Manufactured using a proprietary plating and powder coating process, the KEF Ci160ER is UV protected and designed to withstand the harshest operating environments.

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

**Universal cut-out** – All KEF 160mm round in-ceiling speakers utilise the same diameter opening for ease of installation and flexible component selection.

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

The speaker shall consist of a 160mm low frequency woofer and a 16mm aluminium dome high frequency tweeter 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 52Hz-20kHz +/- 6 dB. The speaker shall not weigh more than 1.4kg.

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 2.83 volts. The crossover frequency between the woofer and tweeter shall be 2.8kHz. The speaker shall meet numerous safety and performance standards listed by regulatory bodies around the world.

The speaker shall be the KEF Ci160ER.
## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Ci160ER</th>
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</thead>
<tbody>
<tr>
<td>Model</td>
<td>Ci160ER</td>
</tr>
<tr>
<td>Series</td>
<td>E Series</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity (2.83V/1m)</td>
<td>89dB</td>
</tr>
<tr>
<td>Frequency response (±6dB) open-backed</td>
<td>52Hz - 20kHz</td>
</tr>
<tr>
<td>Frequency range (-10dB)</td>
<td>46Hz - 45kHz</td>
</tr>
<tr>
<td>Nominal coverage (degrees)</td>
<td>110°</td>
</tr>
<tr>
<td>Max SPL (dB)</td>
<td>104dB</td>
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<tr>
<td>Crossover frequency</td>
<td>2.8kHz</td>
</tr>
<tr>
<td>Drive units</td>
<td></td>
</tr>
<tr>
<td>LF</td>
<td>160mm (6.5in.)</td>
</tr>
<tr>
<td>HF</td>
<td>16mm (0.6in.)</td>
</tr>
<tr>
<td>Recommended amplifier power</td>
<td>10 - 100W</td>
</tr>
<tr>
<td>Recommended high-pass filter (Hz)</td>
<td>50Hz</td>
</tr>
<tr>
<td>Product external dimensions</td>
<td></td>
</tr>
<tr>
<td>Diameter Ø</td>
<td>234.6mm (9.24in.)</td>
</tr>
<tr>
<td>Depth</td>
<td>88.7mm (3.49in.)</td>
</tr>
<tr>
<td>Cut-out dimensions</td>
<td></td>
</tr>
<tr>
<td>Diameter Ø</td>
<td>196mm (7.71in.)</td>
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<tr>
<td>Net weight</td>
<td>1.4kg (3.1lbs)</td>
</tr>
<tr>
<td>Mounting depth from surface</td>
<td>85.2mm (3.35in.)</td>
</tr>
<tr>
<td>Optional rough in frame</td>
<td>RIF160R</td>
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<tr>
<td>Optional rear enclosure</td>
<td>RNC160R</td>
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<tr>
<td>Ideal rear volume (L)</td>
<td>35L</td>
</tr>
<tr>
<td>Minimum rear volume (L)</td>
<td>20L</td>
</tr>
<tr>
<td>Certification</td>
<td>IP64</td>
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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.
Ci160ER

Architectural Speaker

Directivity Index

Beamwidth -3dB

Beamwidth -6dB

Impedance

Sensitivity (2.83V/1m)
Ci160ER

Architectural Speaker

Polar Responses

Polar 63Hz

Polar 125Hz

Polar 250Hz

Polar 500Hz

Polar 1kHz

Polar 2kHz

Polar 4kHz

Polar 8kHz

Polar 16kHz

Degree (deg)
Ci160ER
Architectural Speaker

Mechanical Diagrams

Dimensions in mm (inches)

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