Ci160MR / Ci200MR

Architectural Speakers

OBSESSED WITH HIGH RESOLUTION

Product Overview

The KEF Ci160MR & Ci200MR are high performance speakers designed for in-ceiling and flush mount installations. They use 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 or 200mm 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 sound across a wide listening area. Both meet IP64 certification requirements and are specifically engineered to deliver exceptional acoustic performance in a value oriented package. The ABS assembly, Ultra-Thin Bezel and grille, are UV protected. The KEF Ci160MR and Ci200MR are the ideal choice for whole house music, foreground, background, Home Theater and Dolby Atmos applications.

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 grille plating and powder coating process, the KEF Ci160MR and Ci200MR are 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 or CI200mm round in-ceiling speakers utilise the same diameter openings 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 Ci160MR speaker shall consist of a 160mm low frequency woofer and a 16mm aluminium dome high frequency tweeter, and the Ci200MR shall consist of a 200mm 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 (Ci160MR) or 90 dB SPL (Ci200MR) 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 Ci160MR or the Ci200MR.

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Specifications

Model		Ci160MR	Ci200MR
Series		M Series	M Series
Nominal impedance		8Ω	8Ω
Sensitivity (2.83V/1m)		89dB	90dB
Frequency response (±6dB) open-backed		52Hz - 20kHz	45Hz - 20kHz
Frequency range (-10dB)		46Hz - 45kHz	38Hz - 45kHz
Nominal coverage (degrees)		120°	100°
Max SPL (dB)		104dB	106dB
Crossover frequency		2.8kHz	2.8kHz
Drive units	LF	160mm (6.5in.) Uni-Q	160mm (6.5in.) Uni-Q
	HF	16mm (0.6in.)	16mm (0.6in.)
Recommended amplifier power		10 - 100W	10 - 125W
Recommended high-pass filter (Hz)		50Hz	40Hz
Product external dimensions	Diameter Ø	234.6mm (9.24in.)	289.6mm (11.4in.)
	Depth	88.7mm (3.49in.)	103.3mm (4.07in.)
Cut-out dimensions	Diameter Ø	196mm (7.71in.)	240mm (9.45in.)
Net weight		1.4kg (3.1lbs)	1.6kg (3.6lbs)
Mounting depth from surface		85.2mm (3.35in.)	97.2mm (3.83in.)
Optional rough in frame		RIF160R	RIF200R
Optional rear enclosure		RNC160R	RNC200R
Ideal rear volume (L)		35L	60L
Minimum rear volume (L)		20L	30L
Certification		IP64	IP64

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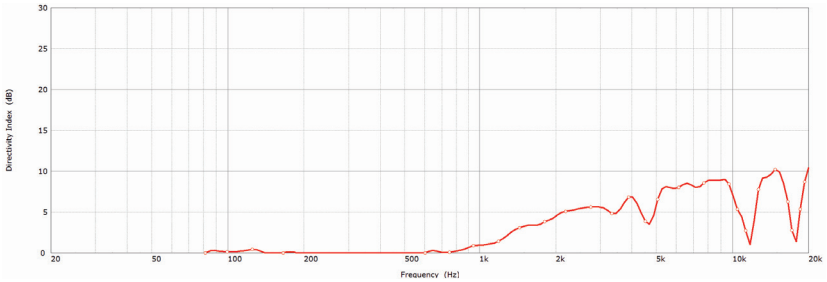
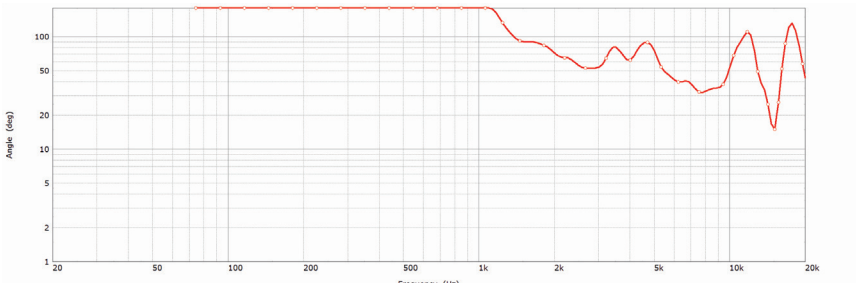
The Ci speakers that utilise THX in the model name have undergone and passed certified THX approval.

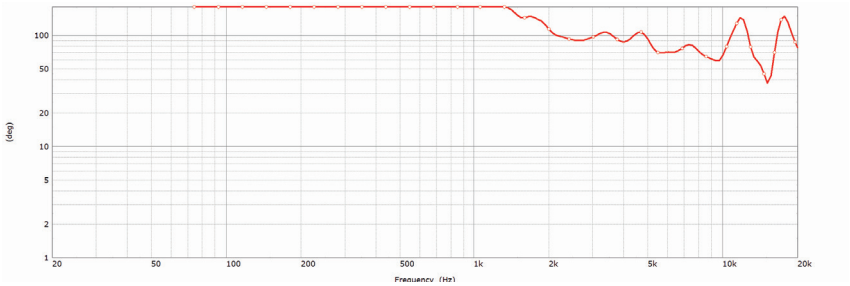
Directivity Index



Beamwidth -3dB



Beamwidth -6dB



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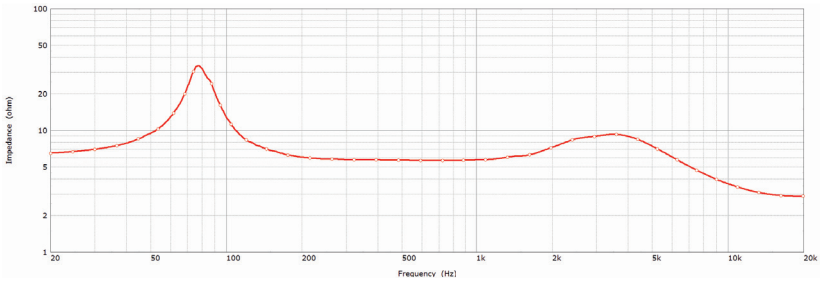
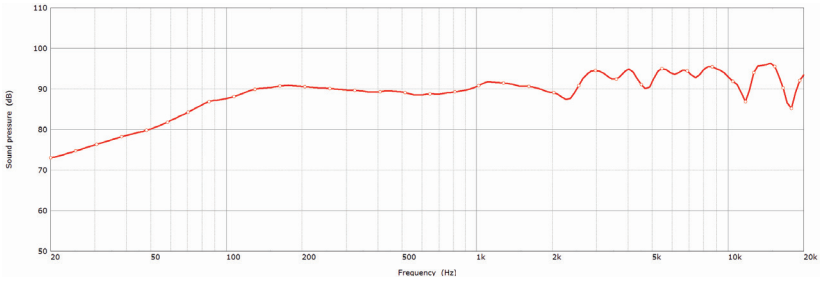
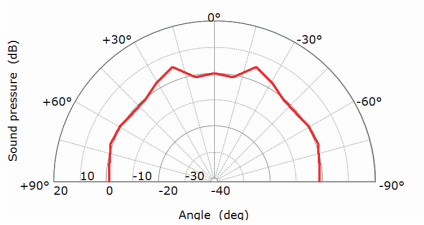


Sensitivity (2.83V/1m)

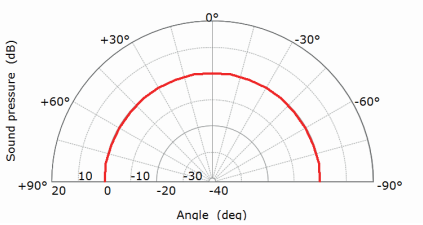


Polar Responses

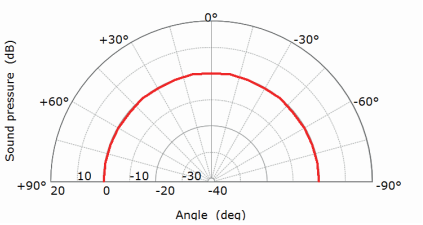
Polar 63Hz



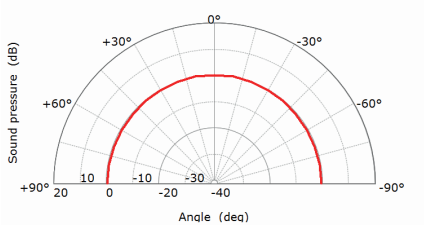
Polar 125Hz



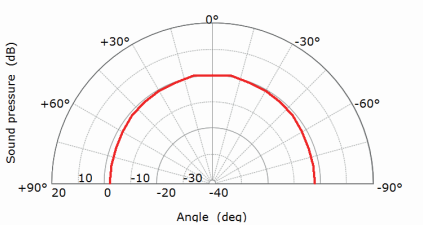
Polar 250Hz



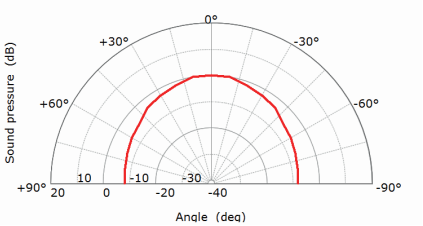
Polar 500Hz



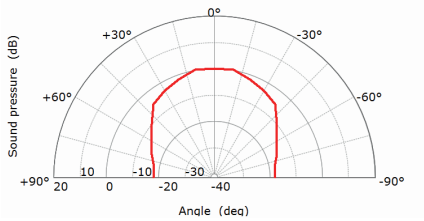
Polar 1kHz



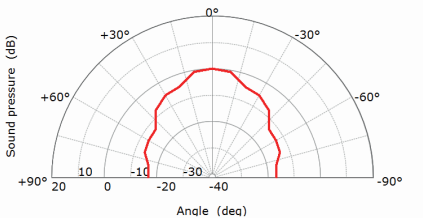
Polar 2kHz



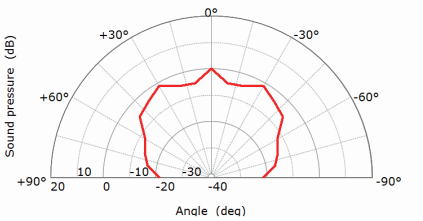
Polar 4kHz



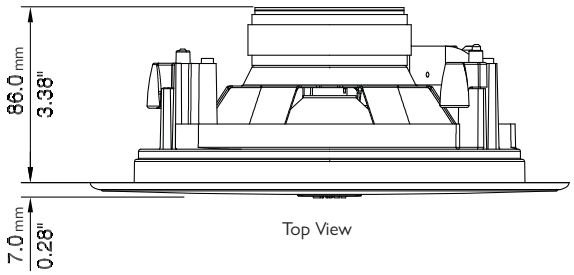
Polar 8kHz



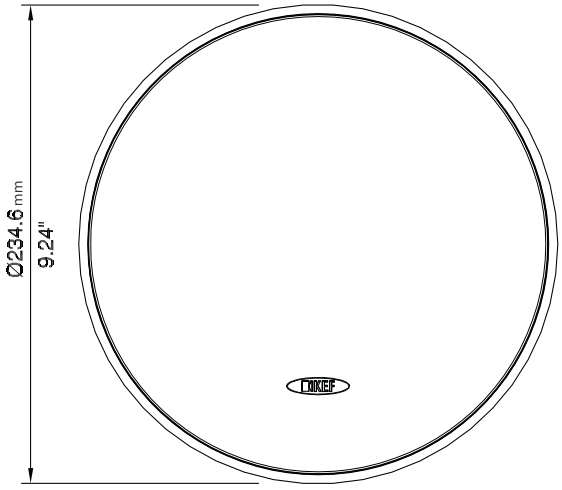
Polar 16kHz



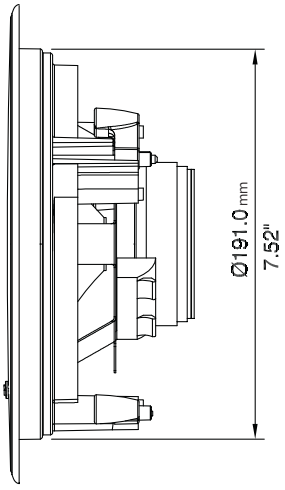
Mechanical Diagrams



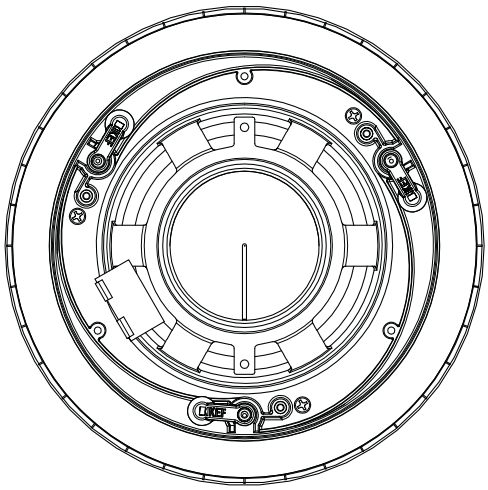
Top View



Front View



Side View

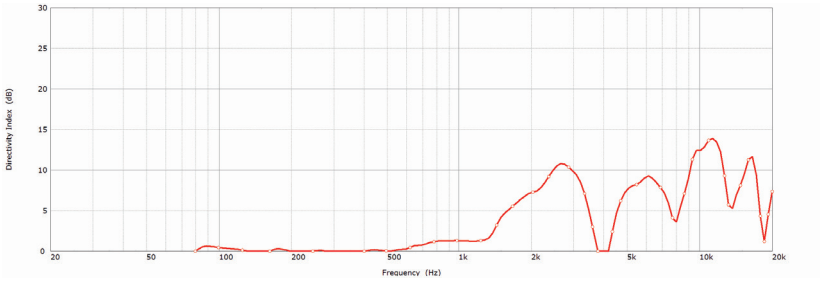


Rear View

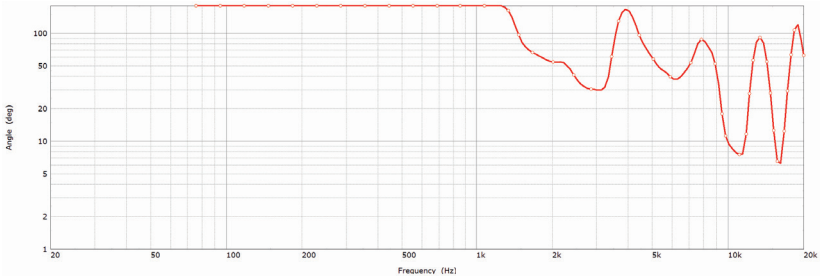
Dimensions in mm (inches)

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

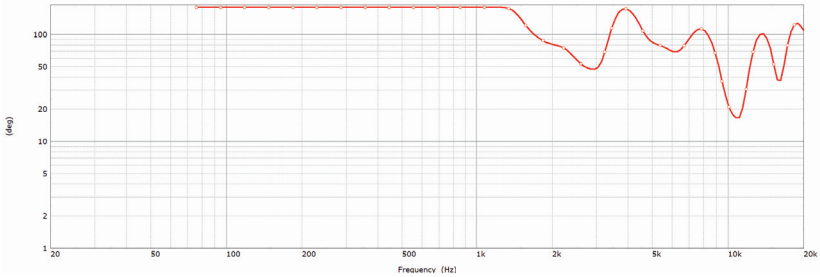
Directivity Index



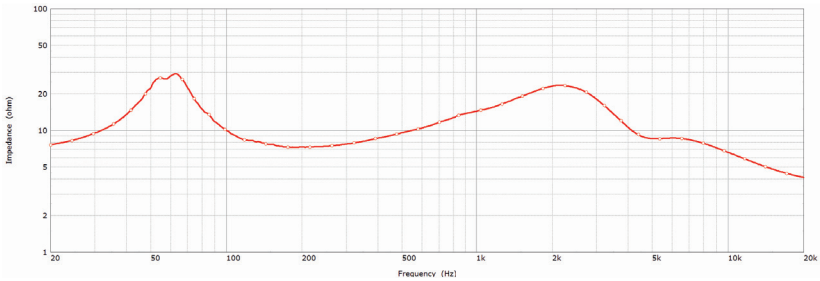
Beamwidth -3dB



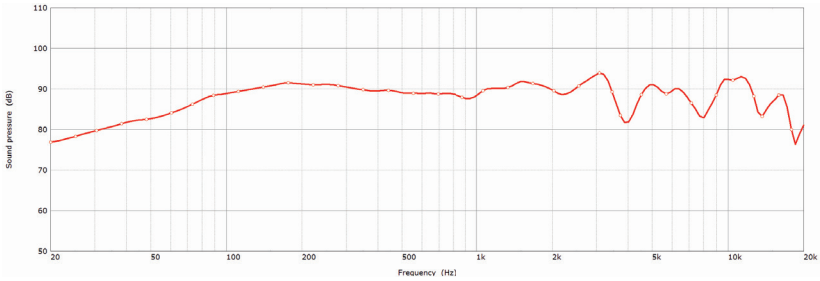
Beamwidth -6dB



Impedance

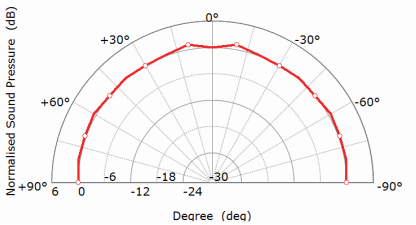


Sensitivity (2.83V/1m)

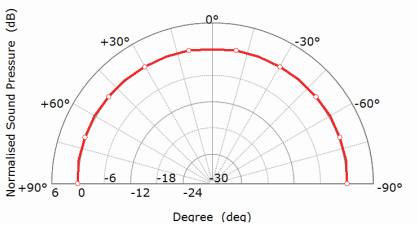


Polar Responses

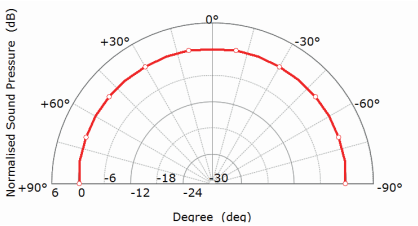
Polar 63Hz



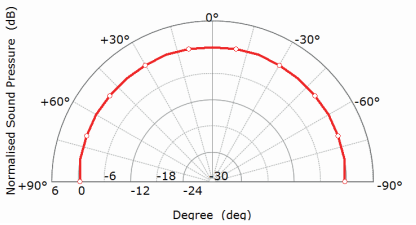
Polar 125Hz



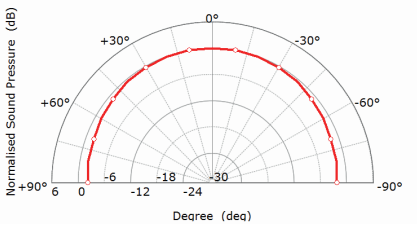
Polar 250Hz



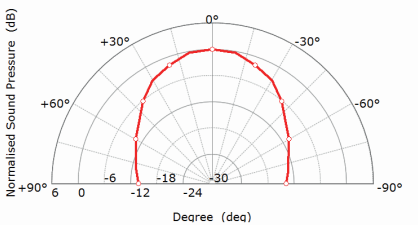
Polar 500Hz



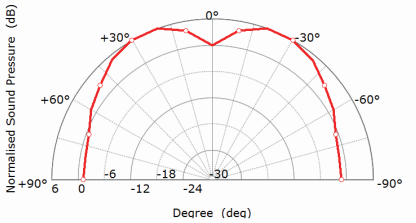
Polar 1kHz



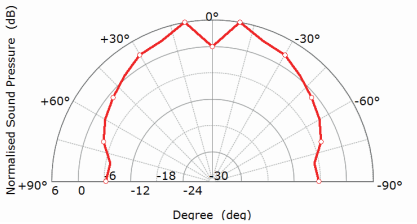
Polar 2kHz



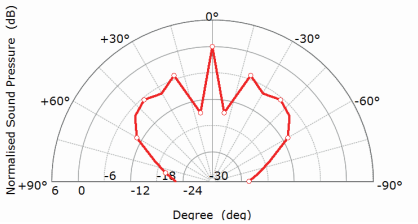
Polar 4kHz



Polar 8kHz



Polar 16kHz

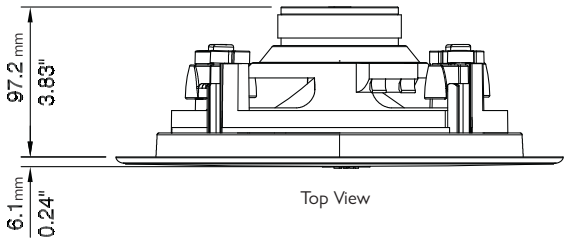


Ci200MR

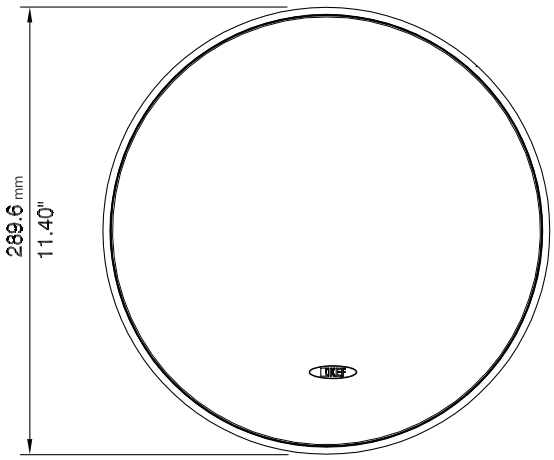
Architectural Speaker

OBSESSED WITH HIGH RESOLUTION

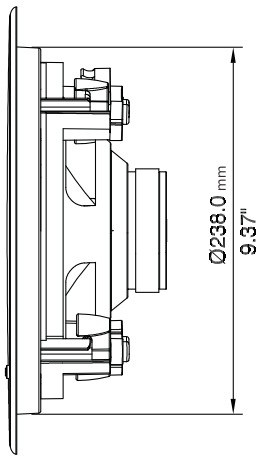
Mechanical Diagrams



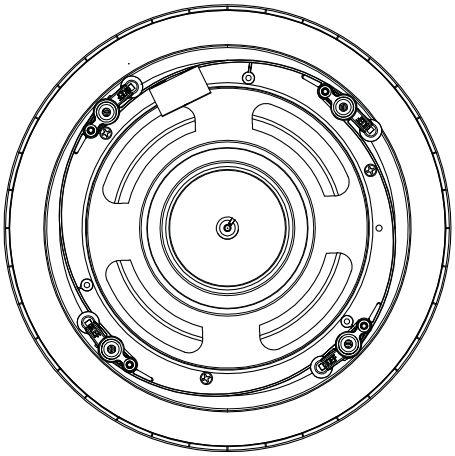
Top View



Front View



Side View



Rear View

Dimensions in mm (inches)

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