OPERATION MANUAL

In-Ceiling Integrated Loudspeaker
IC65
IC80

The Choice of Professionals®

Welcome to M&K Sound®

Congratulations on your new loudspeakers and welcome to the M&K Sound family.

For more than 50 years, M&K Sound loudspeakers have been trusted by discerning music lovers, home cinema enthusiasts, and audio professionals around the world. Built on a heritage of innovation, accuracy, and uncompromising performance, every M&K Sound speaker is engineered to reproduce sound exactly as it was intended to be heard.

As The Choice of Professionals™, our products continue to be selected for some of the world's most demanding listening environments, bringing studio-quality sound into homes and private cinemas alike.

Your new IC Series in-ceiling loudspeaker has been designed to deliver exceptional performance, reliability, and listening enjoyment for many years to come.

Thank you for choosing M&K Sound.

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M&K SOUND®
In-Ceiling Integrated Loudspeaker

Introduction

M&K Sound In-ceiling speakers are designed for easy and flexible installation. You are just a few easy steps away from enjoying the acclaimed M&K Sound.

Placement Guidelines

The M&K Sound IC65 and IC80 in-ceiling loudspeakers are designed to deliver exceptional performance across a wide range of applications, from distributed audio and living room installations to dedicated private home cinemas and immersive audio systems utilizing Dolby Atmos®, DTS®, and Auro-3D® formats.

Correct speaker placement and orientation are essential to achieve the best possible sound quality and listening experience.

General Placement Recommendations

The IC65 and IC80 are optimized for ceiling installation and may be used as:

- Height channels in immersive audio systems
- Surround channels in home cinema installations
- Main listening speakers in living spaces, media rooms, and multi-room audio systems

When planning speaker locations, consider the primary listening position and follow the recommendations provided by the audio format manufacturer whenever applicable.

For dedicated home cinema installations, Dolby Atmos, DTS, and Auro-3D speaker placement guidelines should always take precedence.

Adjustable On-Axis Swivel Tweeter

Both the IC65 and IC80 feature an adjustable on-axis swivel tweeter, allowing the high-frequency response to be directed toward the primary listening area. This feature helps optimize clarity, imaging, and overall tonal balance regardless of the speaker's mounting position.

For optimum performance:

• After installation, gently adjust the on-axis swivel tweeter so it points toward the primary listening position.

• In single-row seating arrangements, aim the tweeter toward the center listening position.

• In larger rooms with multiple seating positions, direct the tweeter toward the center of the listening area to achieve the most even sound coverage.

• For Dolby Atmos and other immersive audio applications, orient the adjustable on-axis swivel tweeter toward the primary listening position to maximize detail, spatial precision, and listening realism.

Correct alignment of the adjustable on-axis swivel tweeter improves high-frequency accuracy, dialogue intelligibility, sound staging, and overall system performance.

Stereo and Distributed Audio Applications

When used for background music or stereo playback in living rooms, kitchens, dining areas, or other residential spaces, speakers should be positioned to provide even sound coverage throughout the room.

Where a defined listening position exists, the adjustable on-axis swivel tweeter should be aimed toward the primary listening area. For general ambient audio applications, the tweeter may be directed toward the center of the room to provide balanced coverage across a wider area.

Home Cinema and Immersive Audio Applications

The IC65 and IC80 are fully compatible with modern immersive audio formats and can be used for all Ceiling-mounted immersive audio applications.

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For optimum results:

• Position speakers according to the recommendations of the chosen audio format.

• Ensure all speakers are securely mounted and symmetrically placed whenever possible.

• Utilize the adjustable on-axis swivel tweeter to direct high frequencies toward the main listening position, ensuring consistent tonal balance and precise sound localization.

For specific placement angles, distances, and speaker layouts, please consult the official installation guidelines provided by Dolby Atmos®, DTS®, or Auro-3D®.

A back-can provides several key benefits that elevate your home audio experience

Improved Sound Quality:
By creating a sealed enclosure, the back-can provides a controlled, predictable internal volume, so the speaker's sound characteristics remain consistent rather than fluctuating based on the unpredictable size or shape of your ceiling cavity.

Without a back-can, sound escapes into the ceiling cavity. The enclosure directs all sound downward and prevents the ceiling cavity from acting as an uncontrolled speaker box.

Component protections:
The sealed enclosure keeps dust, insulation, insects, and moisture out of the speaker's sensitive electrical components, ensuring a longer lifespan.

Fire Safety:
In certain jurisdictions or building codes, back cans are required. Please get advice from your local dealer (advice = noun).

Pay attention to Specification on page 9 and 10 for more details on Hz response with or without can.

For purchase or more details please contact your authorized M&K dealer.

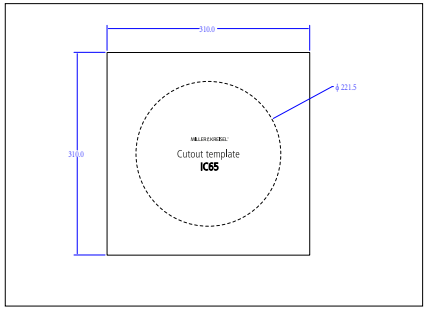
Speaker Installation

To support precise wall cut-out for M&K Sound Frameless in-ceiling speakers, use the template included in the carton.

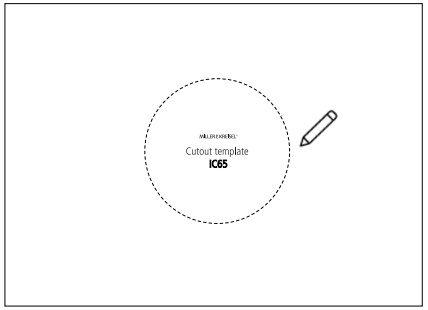
The 2-piece carton template matches the speaker's outer dimensions, with a "push-out" section is to be used for the actual cutting.

Following the instructions will result in proper and easy installation of the speaker.

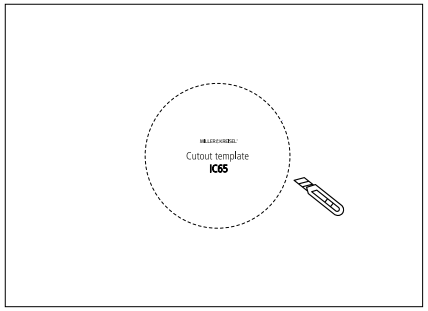
NOTE: The speaker in the drawing may not match your speakers.
It is shown as an example only.



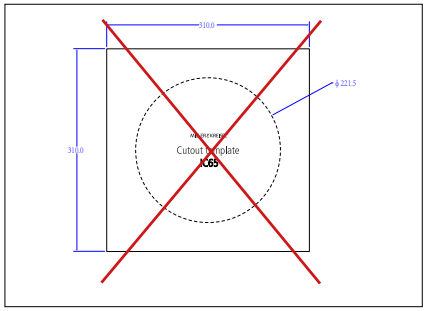
1. Use the overall carton template to visualize the position before pushing out the actual cutting template at the perforated lines.



2. Hold the "pushed out" cutting template at the position to mark a line for the actual cut.



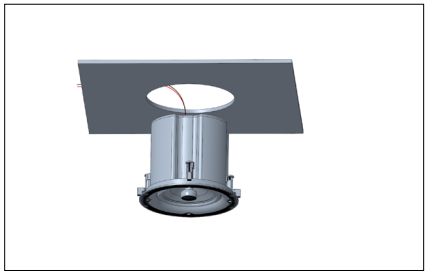
3. Cut to the inside of your marked line.



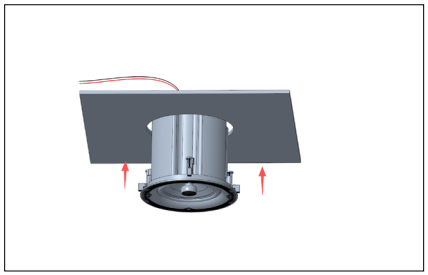
4. Cutting directly on the template is not recommended

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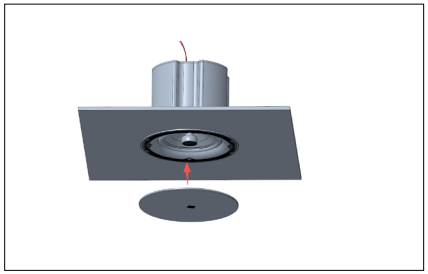
Mounting with Back Can



1. Cut ceiling opening using supplied template and route speaker cable.

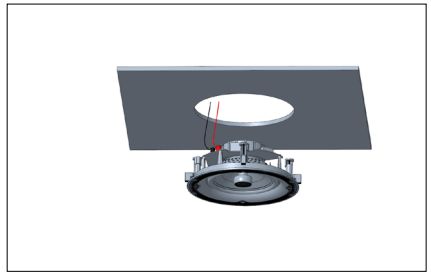


2. Connect speaker cable to the terminal and insert speaker into ceiling opening.

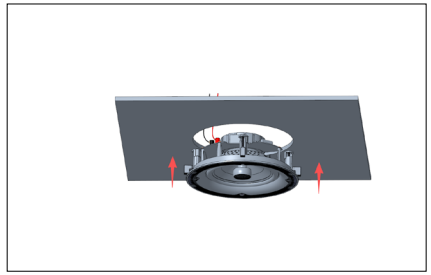


3. Tighten mounting screws to secure the speaker - do not make it too tight. Attach the magnetic grille.

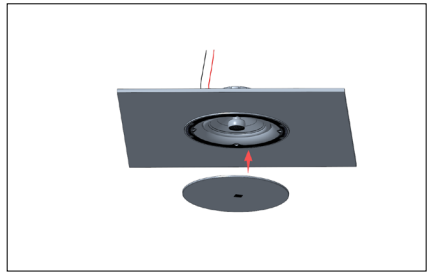
Mounting without Back Can



1. Cut ceiling opening using supplied template and route speaker cable.



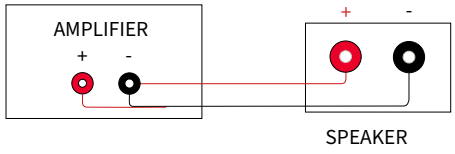
2. Connect speaker cable to the terminal and insert speaker into ceiling opening.



3. Tighten mounting screws to secure the speaker - do not make it too tight. Attach the magnetic grille.

SPEAKER WIRING

Connect the amplifier to the speaker using the positive (+) and negative (-) terminals.



IC65 In-Ceiling Integrated Loudspeaker





The new IC65 in-ceiling integrated loudspeaker is built around our proven proprietary 6.5- inch mid-woofer - also featured in the acclaimed Miller & Kreisel MPS1620P studio monitor.

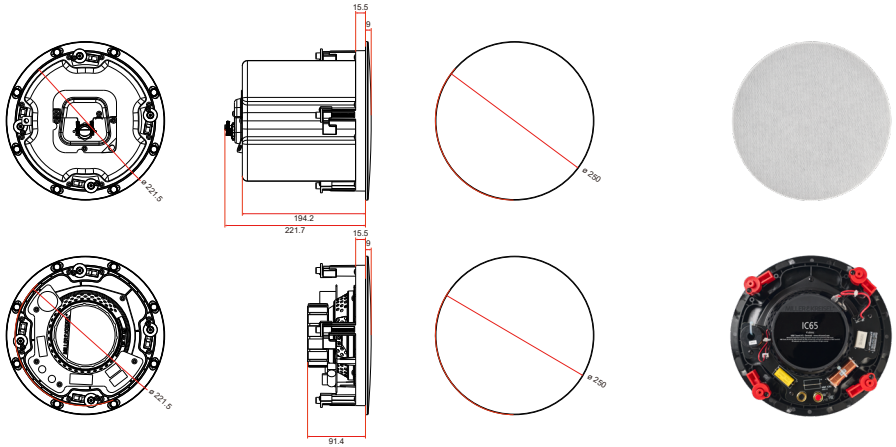
This mid-woofer has long been a cornerstone of the signature Miller & Kreisel sound. In the IC65, it is the core of our most compact format yet, delivering the authentic M&K performance in a discreet and versatile design.

The IC65 features a 1" soft fabric dome tweeter with swivel functionality, allowing precise 15° angling to optimize on-axis response for the listening position.

While maintaining the same overall size, driver configuration, and tweeter format, the IC65 introduces enhanced acoustic performance and a refined visual design. A slim grille elevates its discreet appearance while contributing to overall sonic improvements.

Nominal system impedance	4 ohm (Z-min 3.4 ohm)
Frequency response with can	70-20 kHz (-12dB at 70 Hz)
Frequency response without can	50-20 kHz (-12 dB at 50 Hz)
Crossover frequency	3.7 kHz "Phase focused" (2nd order)
Tweeter	1" Dome. Coated silk dome / with swivel function
Woofer	6.5". Mineral filled polypropylene
Power handling	150 watt. Long term IEC-268-5 (cycled input 100-20 kHz)
Power handling	75 watt. Rated IEC-268-5 (constant input 100-20 kHz)
Recommended amp power	25-300 watt
Sensitivity	90 dB. Average SPL 2.83 V / 1m (on axis 150-10 kHz)

System principle	in-ceiling / Sealed enclosure
Connection	Terminal gold plating. Push terminals 4mm cable
Accessories	Cut-out tempplate / Optional back can
Welcome Card	Included in packing
Speaker OD Diameter	9.76 inch / 248 mm
Grill OD Diameter	9.84 inch / 250 mm
Cut-out Diameter	8.72 inch / 221.5 mm
Depth with can	9.08 inch / 230.7 mm
Depth without can	3.98 inch / 101 mm
Weight W/WO can, Netto	7.94 / 5.7 lbs / 3.6 / 2.6 kg



IC80 In-Ceiling Integrated Loudspeaker





The new IC80 is our first 8" in-ceiling speaker and builds on the same system principle as IC65, but with an 8" woofer, delivering deeper, controlled bass and outstanding clarity in a discreet architectural format.

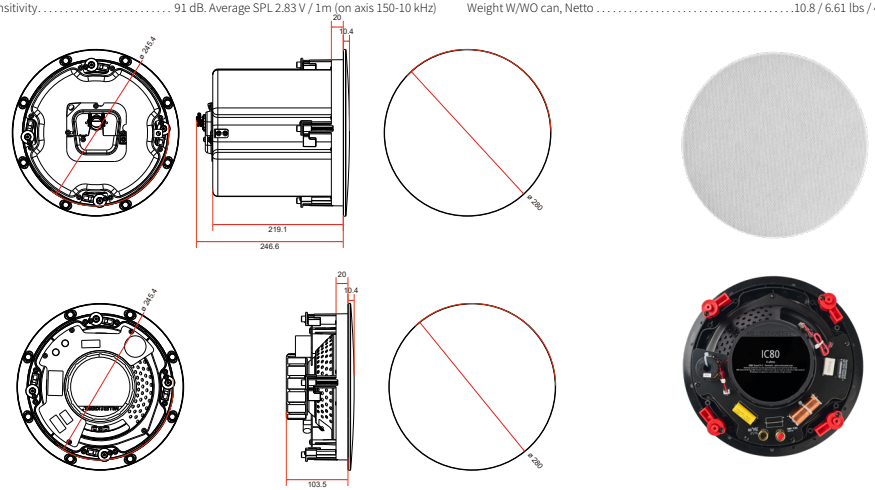
As our first 8" in-ceiling model, the IC80 sets a new benchmark for performance in this category. Designed to bring authentic M&K sound into larger listening spaces, it combines dynamic output with precision and balance.

The IC80 features a mounted 1" soft fabric dome tweeter with swivel functionality, allowing precise 15° angling to optimize on-axis response for the listening position.

While maintaining a clean and compact design, the IC80 introduces enhanced acoustic performance and a refined visual expression. A slim grille further elevates its discreet appearance while contributing to overall sonic performance.

Nominal system impedance	4 ohm (Z-min 3.4 ohm)
Frequency response with can	60-20 kHz (-12dB at 60 Hz)
Frequency response without can	40-20 kHz (-12 dB at 40 Hz)
Crossover frequency	3.7 kHz "Phase focused" (2nd order)
Tweeter	1" Dome. Coated silk dome / with swivel function
Woofer	8". Mineral filled polypropylene
Power handling	150 watt. Long term IEC-268-5 (cycled input 100-20 kHz)
Power handling	80 watt. Rated IEC-268-5 (constant input 100-20 kHz)
Recommended amp power	25-300 watt
Sensitivity	91 dB. Average SPL 2.83 V / 1m (on axis 150-10 kHz)

System principle	In wall / Sealed enclosure
Connection	Terminal gold plating. Push terminals 4mm cable
Accessories	Cut-out tempplate / Optional back can
Welcome Card	Included in packing
Speaker OD Diameter	10.95 inch / 278 mm
Grill OD Diameter	11.02 inch / 280 mm
Cut-out Diameter	9.66 inch / 245.4 mm.
Depth with can	10.12 inch / 257mm
Depth without can	4.49 inch / 114 mm
Weight W/WO can, Netto	10.8 / 6.61 lbs / 4.9 / 3 kg





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