

IC Series

LOUDSPEAKERS

In-ceiling / In-wall Loudspeaker



USER MANUAL

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1. IMPORTANT REMARK



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the apparatus during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from mains: Switching off the POWER switch all the functions and light indicators of the amplifier will be stopped, but fully disconnecting the device from mains is done unplugging the power cord from the mains input socket. For this reason, it always shall remain readily operable.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of apparatus.
17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

NOTE: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.

3. IMPORTANT NOTE

Congratulations! You are the owner of a carefully designed and manufactured equipment. We thank you for trusting in us and choosing our IC-series speaker for false ceilings.

In order to get the optimum operation and efficiency from this unit, it is VERY IMPORTANT - before you plug anything - to read this manual very carefully and bear in mind all considerations specified within it. We strongly recommend that its maintenance be carried out by our Authorized Technical services.

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.

4. INTRODUCTION

ECLER's line of IC speakers for false ceilings incorporates carefully selected components in an easy-to-use design that is quick to install. They also provide excellent sound quality for high and low thanks to our infinite speaker philosophy and to top-performance high frequency transducer.

Because we have included a transformer in the whole series, our units are extremely versatile and are easy to use both in applications with low impedance and in applications running at 100V/70V. All you have to do is shift the position of the built-in selector.

The transducers used to play low and medium frequencies are made of polypropylene, giving them maximum, long-term stability and protecting them from environmental factors like heat and humidity.

There are three models in the IC series: IC3, IC6 and IC8. Here, we will describe the technical specifications of each of these models:

4.1 IC3

- 1 way speaker for false ceilings
- 3" polypropylene woofer
- Power: 25W RMS@8Ω
- Sensitivity (1W/1m): 90 dB SPL
- Built-in transformer.
- External diameter: 105mm

- Cut out diameter: 90mm
- Available in black (RAL9004) or white (RAL9003) finish
- Installation system: spring clips (installation without tools)

4.2 IC6

- 2 way speaker for false ceilings
- 6" polypropylene woofer
- 25mm tweeter
- Power: 40W RMS@8Ω
- Sensitivity (1W/1m): 88 dB SPL
- Built-in transformer.
- External diameter: 204mm
- Cut out diameter: 180mm
- Available in black (RAL9005) or white (RAL9010) finish
- Installation system: Three revolving fasteners

4.3 IC8

- 2 way speaker for false ceilings
- 8" polypropylene woofer
- 25mm tweeter
- Power: 60W RMS@8Ω
- Sensitivity (1W/1m): 89 dB SPL
- Built-in transformer.
- External diameter: 245mm
- Cut out diameter: 222mm
- Available in white (RAL9010) finish
- Installation system: Three revolving fasteners

Note: If you use the speaker for false ceiling in 70V installations, the power for the 100V position will be half the amount shown on the switch. When used in 50V installations, it will be a fourth of the amount.

Each model in the series comes with a protective grill that can be removed with a hook included in the package. Be careful not to damage the speaker when removing the grill.

6. LOCATION AND ASSEMBLY

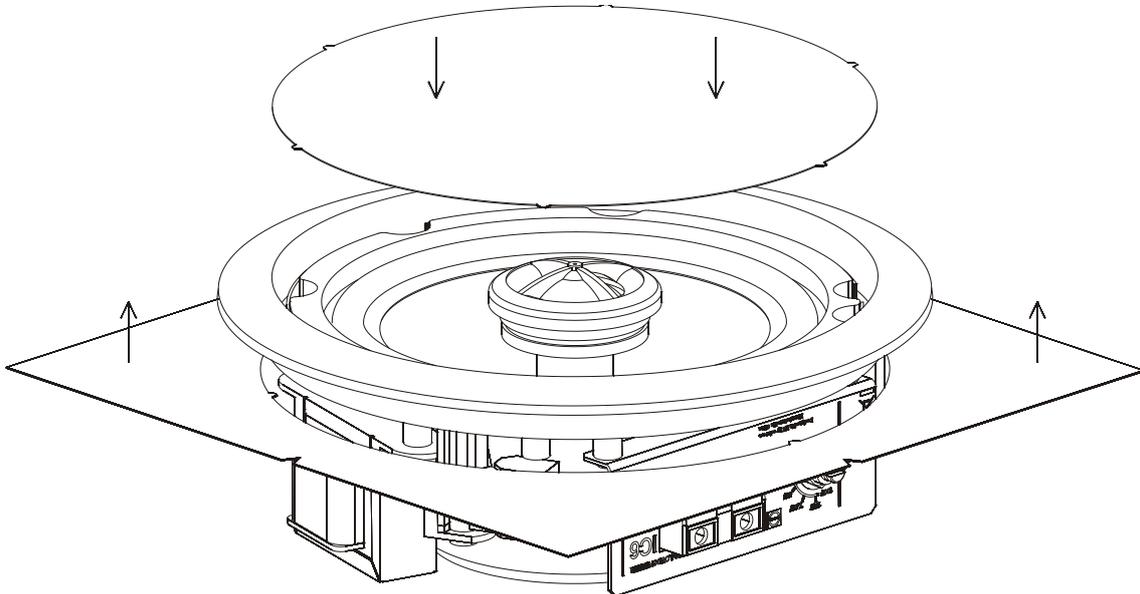
To install this product correctly, you must be prepared to cut circular holes where you would like to place the speakers and have the wiring necessary for each unit.

In order to install the speakers correctly:

1. Remove the protective grating from the speaker using the hook provided in the packaging.
2. Cut a circular hole in the false ceiling: A template for cutting/painting is included with each unit to simplify this process. Once the unit is separated into two parts, the outside part can be used as a template to make the hole in the ceiling, and the inner disk can be used to protect the speaker cone if you would like to paint the plastic another colour.
3. Use the clamps to connect the unit to the wiring of the system where the speaker is being installed.
4. Place the speaker in the newly cut hole. Hold it in place with your hand and push it into place, all the while making sure that the three revolving fasteners are drawn back.
5. Press each of the three screws that are accessible from the front side of the speaker. The speaker is now fixed in its final position.
6. Reattach the protective grille.

7. PAINTING

The IC series is designed to be painted, meaning it can be installed anywhere, regardless of the aesthetic criteria of the place where it will be used.



In order to paint any of the models in the product line:

1. Remove the protective grating from the speaker using the hook provided in the packaging.
2. Once the cut/paint template has been separated into two parts, use the inside disk to protect the speaker cone. Place it tight on the cone. The points still on disk after it has been separated help to fix it tight into place. The outside part of the template can be put on the back part of the speaker, lining it up with the plastic circle, to protect the back part from splattering if you are using spray paint.
3. Paint the protective grating and the speaker separately. Make sure that the small holes in the grating are not blocked by paint. Use an appropriate air-dry paint.
4. When the paint is dry, remove the protectors. The unit is ready to be installed.

8. TECHNICAL CHARACTERISTICS

IC3

| System | |
|--|--|
| Effective frequency range ¹ | 110 Hz – 20 kHz (-10dB) |
| Coverage angle ² | 147° |
| Power handling | 10W RMS / 40W Peak |
| Sensitivity ³ | 86dB (1W/1m) |
| Maximum SPL ⁴ | 96dB continuous / 102dB peak |
| Power options | 100V: 1,5 / 3 / 6 W and 8 ohm 70V: 0,75 / 1,5 / 3 W and 8 ohm |
| Recommended amplifier | 20W |
| Transducers | |
| Driver | 3" woofer |
| Nominal impedance | 8Ω |
| Physical | |
| Connection type | Terminal block |
| Installation options | In-ceiling, in-wall |
| Grille material | Aluminium rust proof |
| Mounting system | Spring clips (installation without tools) |
| Finished color | Black (RAL 9004) or White (RAL 9003) |
| External diameter | 100mm / 3.94" |
| Internal diameter | 85mm / 3.35" |
| Recommended cut out diameter | 85mm / 3.35" |
| Required depth | 95mm / 3.74" |
| Ceiling thickness | No limit min 50mm / 1.96" max |
| Weight | 0,5 kg. / 1.10 lb. |
| Pieces per box | 2 units |
| Shipping dimensions(WxHxD) | 120 x 130 x 230mm / 4.7" x 5.1" x 9.0" |
| Shipping weight | 0,6 kg. / 4.18 lb |

IC6

| System | |
|--|--|
| Effective frequency range ¹ | 75 Hz – 20 kHz (-10dB) |
| Coverage angle ² | 145° |
| Power handling | 40W RMS / 160W Peak |
| Sensitivity ³ | 93dB (1W/1m) |
| Maximum SPL ⁴ | 109dB continuous / 115dB peak |
| Power options | 100V: 2,5 / 5 / 7,5 / 15W 70V: 1,25 / 2,5 / 3,75 / 7,5W |
| Recommended amplifier | 80W |
| Transducers | |
| Ways | 2-way, full range |
| Low Frequency Driver | 6.5" woofer |
| High Frequency Driver | 1" tweeter |
| Nominal impedance | 8Ω |
| Physical | |
| Connection type | Clip-type input terminals |
| Installation options | In-ceiling, in-wall |
| Grille material | Aluminium rust proof |
| Mounting system | 3 rotating tabs |
| Finished color | Black (RAL 9005) or White (RAL 9010) |
| External diameter | 204mm / 8.03" |
| Internal diameter | 178mm / 7.00" |
| Recommended cut out diameter | 180mm / 7.40" |
| Required depth | >73mm / 2.87" |
| Ceiling thickness | 5mm / 0.19" min 20mm / 0.78" max |
| Weight | 1,5 kg. / 3.30 lb. |
| Pieces per box | 2 units |
| Shipping dimensions(WxHxD) | 240 x 250 x 220mm / 9.4" x 9.8" x 8.66" |
| Shipping weight | 1,90 kg. / 4.18 lb. |

IC8

| System | |
|--|---|
| Effective frequency range ¹ | 65 Hz - 20 kHz (-10dB) |
| Coverage angle ² | 136° |
| Power handling | 60W RMS / 240W Peak |
| Sensitivity ³ | 94dB (1W/1m) |
| Maximum SPL ⁴ | 112dB continuous / 118dB peak |
| Power options | 100V: 5 / 7,5 / 15 / 30W 70V: 2,5 / 3,75 / 7,5 / 15W |
| Recommended amplifier | 120W |
| Transducers | |
| Ways | 2-way, full range |
| Low Frequency Driver | 8" woofer |
| High Frequency Driver | 1" tweeter |
| Nominal impedance | 8Ω |
| Physical | |
| Connection type | Clip-type input terminals |
| Installation options | In-ceiling, in-wall |
| Grille material | Aluminium rust proof |
| Mounting system | 3 rotating tabs |
| Finished color | White (RAL 9010) |
| External diameter | 245mm / 9.64" |
| Internal diameter | 219mm / 8.62" |
| Recommended cut out diameter | 222mm / 8.74" |
| Required depth | 91mm / 3.58" |
| Ceiling thickness | 5mm / 0.19" min 20mm / 0.78" max |
| Weight | 2,3 kg. / 5.07 lb. |
| Pieces per box | 2 units |
| Shipping dimensions(WxHxD) | 290 x 290 x 260mm / 11.41" x 11.41" x 10.23" |
| Shipping weight | 2,60 kg. / 5.73 lb. |

¹10dB below the sound pressure level at specified sensitivity

²6dB below the sound pressure level than that at the direction of maximum level, Max. angle between 1 kHz and 4 kHz.

³Measured on-axis, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

⁴Calculated from sensitivity and power handling specifications, exclusive of power compression



All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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