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Ecler MIA Series Mini Array Column Loudspeakers



Specifications

- Product Name: MIA Series Commercial Loudspeakers
- Model Number: 50-0444-0103
- Type: Mini Array Column Loudspeakers

Precautions

Before using the MIA Series Commercial Loudspeakers, please ensure to follow these precautions:

- Do not expose the equipment to rain or humidity to prevent fire or shock hazard.
- Ensure proper grounding by connecting to a mains socket outlet with protective earthing.
- Only use the specified attachments and accessories provided by the manufacturer.
- Unplug the device during lightning storms or when not in use for extended periods.

Warranty & Package Description

The product comes with a warranty. For warranty details, refer to the warranty section of the user manual. The package includes the necessary components for installation and operation.

Impedance Connections

Refer to the user manual for detailed instructions on the impedance selector and connections for optimal performance.

EQ Settings

Adjust the EQ settings as per your audio requirements for enhanced sound quality. Refer to the user manual for specific guidance on EQ settings.

Recommended Positioning & Technical Environment

Proper positioning of the loudspeakers is crucial for optimal sound dispersion. Ensure to place them as recommended in the user manual. Also, maintain the technical environment suitable for the operation of the loudspeakers.

Amplifier Installation Data

Refer to the amplifier installation data provided in the user manual for correct installation procedures to ensure compatibility and performance.

MIA Series

COMMERCIAL LOUDSPEAKERS Mini Array Column Loudspeakers

PRECAUTIONS

Important Notice



- RISK OF ELECTRIC SHOCK
- DO NOT OPEN
- WARNING: SHOCK HAZARD – DO NOT OPEN




The flashing light with an arrowhead symbol inside an equilateral triangle on it is intended to alert the user of the presence of non-insulated “dangerous voltage” within the enclosure, which might be of sufficient magnitude to pose a risk of electric shock to users.



The exclamation mark within an equilateral triangle is intended to alert the user of the requirement for important operating and maintenance (servicing), for which

instructions may be found in the literature accompanying the appliance.

- **WARNING** (If applicable): Terminals marked with the symbol “” may be of sufficient magnitude to pose a risk of electric shock. The external wiring connected to terminals requires installation by a technician or the use of ready-made leads or cords.
- **WARNING:** To prevent fire or shock hazard, do not expose this equipment to rain or humidity.
- **WARNING:** A device with Class I manufacturing ought to be connected to a mains socket outlet with a protective earthing connection.



- **WARNING:** Ecler products have a long lifetime of more than 10 years. This product must never be discarded as unsorted urban waste, but must be taken to the nearest electrical and electronic waste treatment centre.

Key Safety Directions

1. Read the following directions.
2. Keep the following directions.
3. Heed all warnings.
4. Follow all directions.
5. Do not use this device in proximity to water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install according to the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may release heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades, being one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, contact a qualified electrician for a 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 of exit from the device.
11. Only use attachments/accessories specified by the manufacturer.

12. Unplug the device during lightning storms when unused for long periods.
13. Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug damage, liquid spillage or objects onto the device, the device has been exposed to rain or humidity, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket; therefore, it should always remain easily accessible.
15. Equipment is connected to a socket-outlet with an earthing connection using a power cord.
16. The marking information is located at the bottom of the unit.
17. The device shall not be exposed to dripping or splashing liquids, and no liquid-filled objects, such as a filled-up glass, shall be placed on top of the device.

Cleaning Directions

- Clean the unit with a soft, dry cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents, or abrasive substances to clean this unit.
- NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animals, or objects due to failure to comply with the warnings above.

WARRANTY & ENVIRONMENT

- Thank you for choosing our Ecler MIA Series!
- We greatly value your trust.
- It is VERY IMPORTANT to carefully read this manual and to fully understand its contents before connections take place to make the best use of this equipment, as well as to get the best performance from it.
- To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised 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.

Ecler is truly committed to the environment and planet sustainability, energy saving, and CO2 emission reduction. Recycling materials and using non-contaminant components are also top priorities in our green crusade.

Ecler has deeply evaluated and analyzed the environmental impacts of all the processes involved in the production of this product, including packaging, and has alleviated, reduced, and/or compensated for them. **PACKAGE CONTENTS**

- 1 MIA Series unit.
- 1 FLATY wall-mount bracket for MIA-81, or
- 1 HANDY wall-mount bracket for MIA-82
- 2x Euroblock connector
- First Steps Guide.
- Warranty card.

DESCRIPTION & FEATURES

- MIA Series is a family of elegant, unique and compact design column loudspeakers, built in a single aluminium piece to avoid vibrations and mechanical stress.
- MIA-81 includes 8×1.5" drivers with an RMS rating of 40W, and MIA-82 includes 8×2.5" drivers with an RMS rating of 150W. Both models behave as a mini line array with the disposition of 8 drivers per column and the possibility of working in 16 Ω or 64 Ω by selecting them behind the logo without the need to remove the grille.
- MIA Series is available in black and white colour, AISIP44 graded, ready for outdoor applications.

As a highlight, a stainless-steel wall-mount bracket is included for height adjustment at any point along the length of the column. MIA-81 includes the FLATY bracket that allows the column to be mounted against the wall and

- MIA-82 includes the incredibly versatile HANDY wall-mount smart pan and tilt bracket.

Main Features

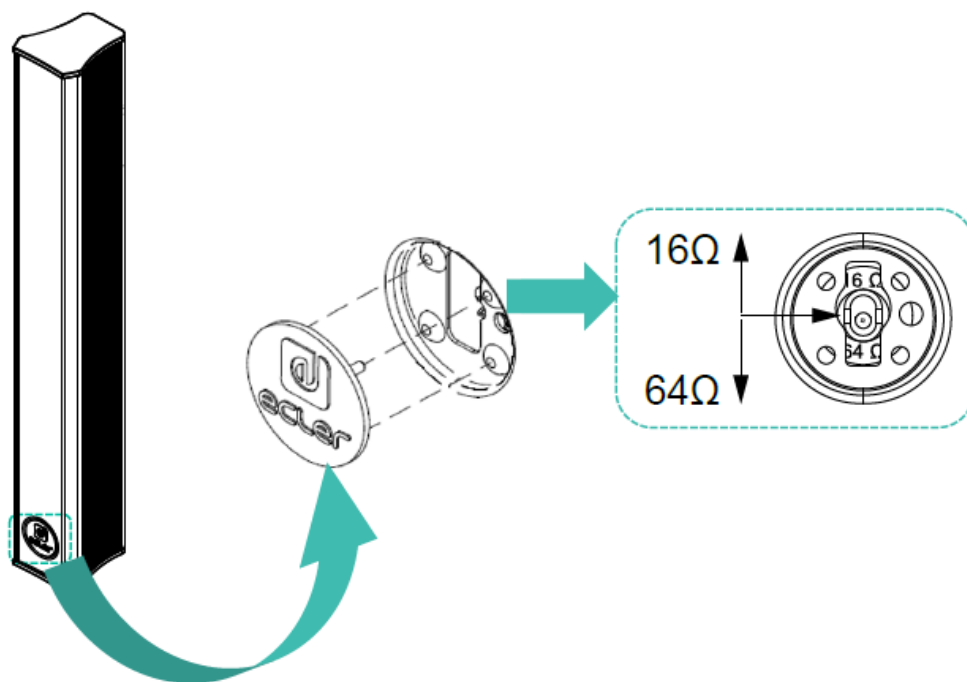
- Column passive loudspeaker for surface mounting.
- Possibility of working in 16 Ω or 64 Ω by selecting them behind the logo without the

need to remove the grille.

- Aluminium one-piece non-resonant compact enclosure.
- Stack Output.
- FLATY bracket allows the column to be mounted against the wall (MIA-81).
- HANDY wall-mount versatile pan and tilt bracket included (MIA-82).
- Weather-protected with an IP44 rating.
- Available in white (RAL9003) and black (RAL9005).
- EASE files available.

IMPEDANCE SELECTOR

MIA Series has 2 impedance options (16Ω and 64Ω) to install more or fewer speakers in parallel. In this matter, it has a 2-position switch on its front panel (behind the logo) that allows selecting its working mode without removing the grill.



CONNECTIONS

The connection cables that connect the amplifier's output and the speaker should be of good quality, have sufficient conductors, and be as short as possible. The latter fact is especially important when the distance is long and the load impedance is 16Ω . A cross-section of at least 2.5mm^2 is recommended for distances up to 10m; 4 or 6mm^2 for longer distances. The following formula gives the required section, assuming 4% losses:

$$\text{Cross section in mm}^2 = \frac{\text{Length in m}}{\text{Loudspeaker impedance in } \Omega}$$

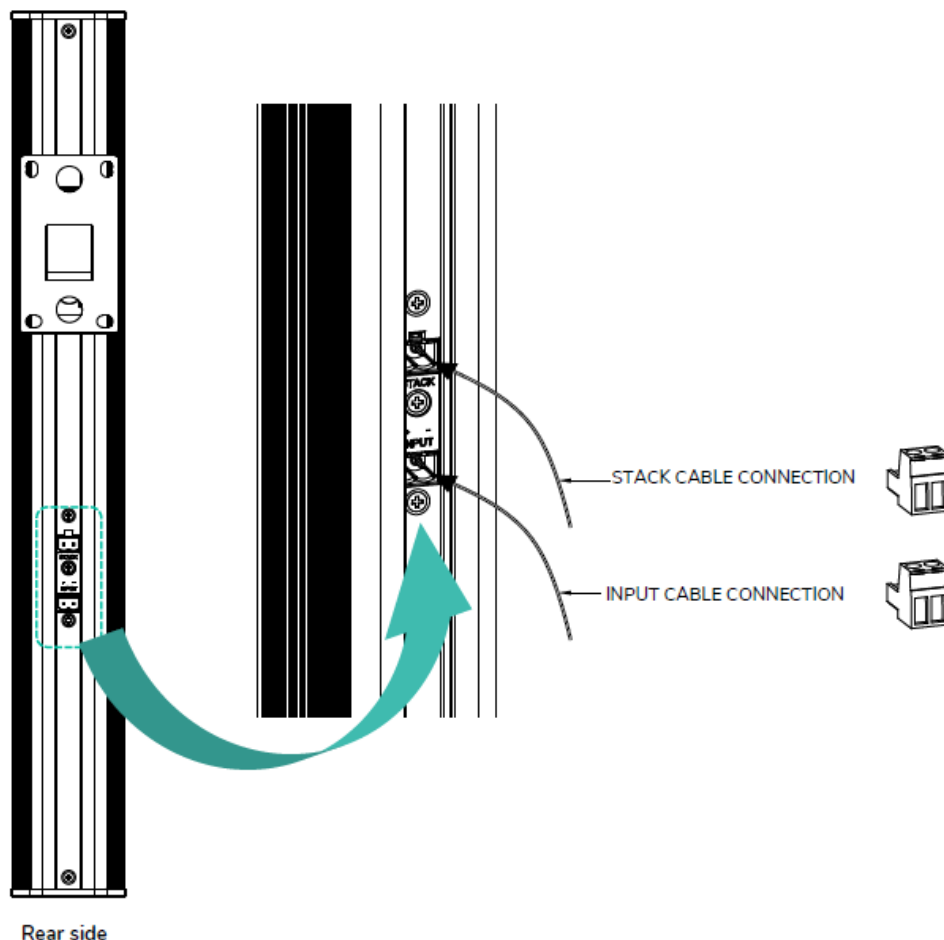
High Impedance Amplifiers

- ✗ MIA-81 is not compatible with High Impedance amplifiers.
- ✓ MIA-82 switched to 64 Ohm can be connected to a High Impedance amplifier.
Consider MIA-82 as a 160W loudspeaker in a 100V line and a 80W loudspeaker in a 70V line.

Always respect the polarity. The loudspeaker has an INPUT Euroblock connector and a second STACK Euroblock connector, thereby facilitating the parallel connection of speakers.

Sethe and E detailed the connections diagram on the next page.

Connections Diagram



EQ SETTINGS

- Download the Ecler Loudspeakers EQ Settings file ready to import into the EclerNet Manager software.

RECOMMENDED AMPLIFIER

The output power of the recommended amplifier for MIA-81 is 80W RMS, and for MIA-82 is 300W RMS.

POSITIONING & INSTALLATION

Positioning

- Consider the following general rules.
- Place the speaker on a solid and firm surface. No obstacles should stand between the enclosures and the audience. The high frequencies are very directive compared to the low frequencies, so that any obstacle will impair their response. In case large audiences must be addressed, a better long-distance sound propagation will be achieved if the enclosures are flown high enough.



Download all EASE files by clicking on the image:

Installation

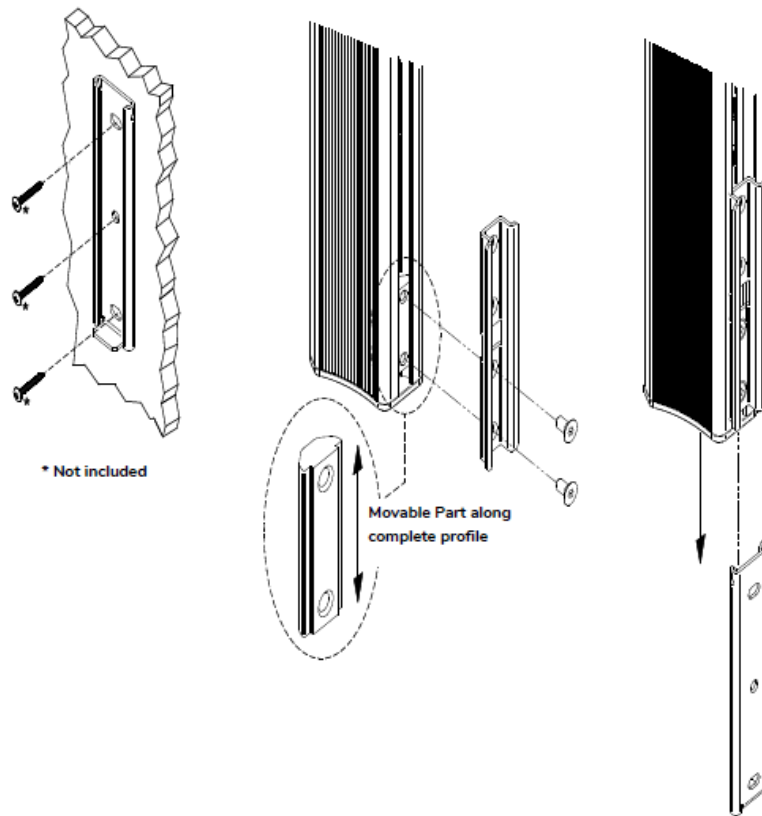
MIA Series loudspeakers include a wall-mount bracket.

- MIA-81 includes a FLATY wall-mount bracket that allows the column to be mounted against the wall.
- MIA-82 includes the incredibly versatile HANDY wall-mount smart pan and tilt bracket.

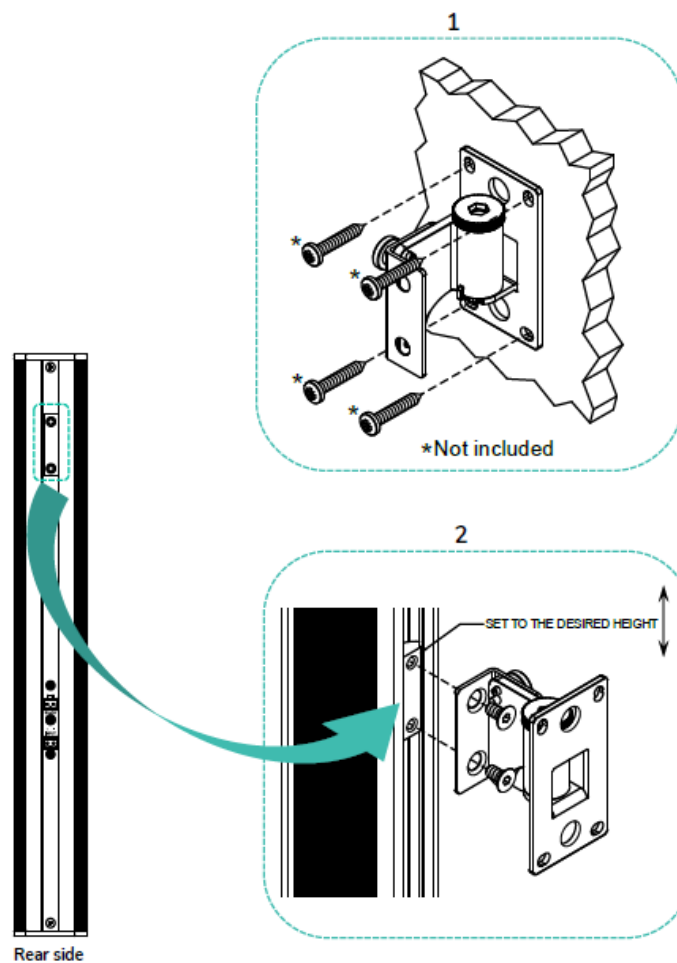
Both brackets are made out of stainless steel and permit adjusting the height at any point along the length of the column.

See the detailed installation diagram on the next page.

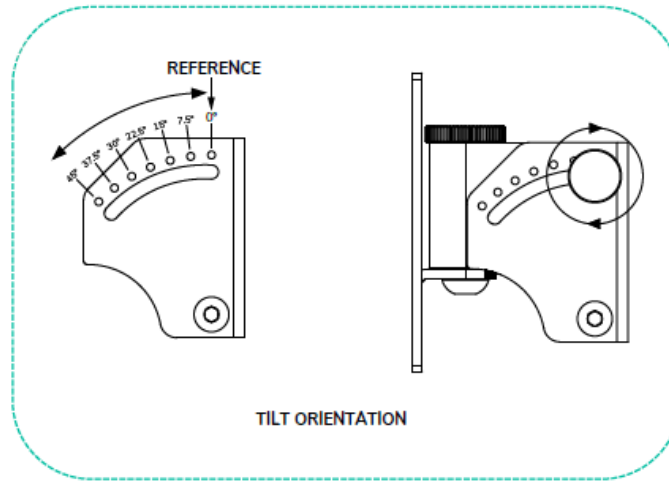
MIA-81: FLATY Wall-Mount Bracket Installation Diagram



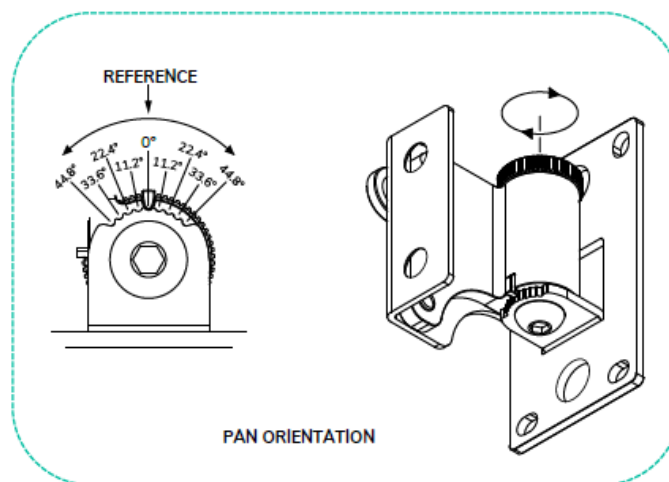
MIA-82: HANDY Wall-Mount Bracket Installation Diagram



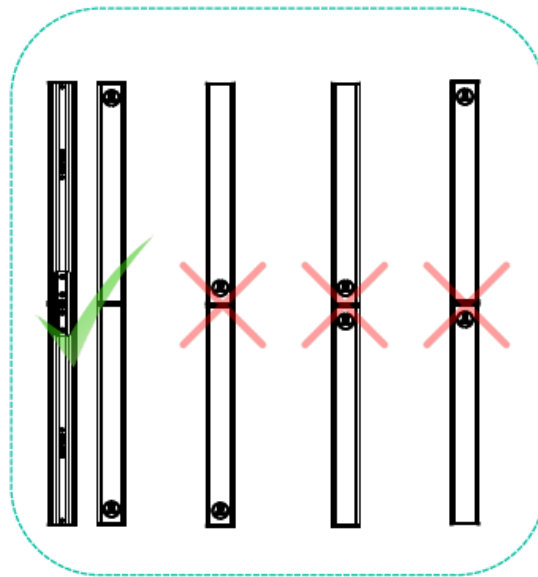
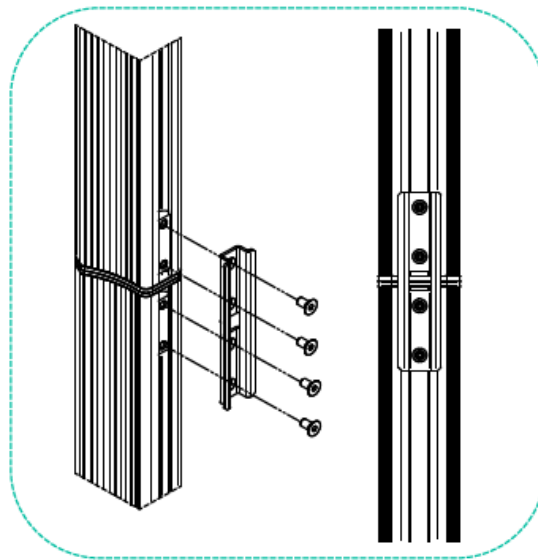
3



4



Assembling 2 MIA units by using the FLATY Wall-Mount bracket



TECHNICAL DATA

Technical Specifications

MIA-81

MIA-81

SYSTEM		
	Effective Freq. Range ¹	175Hz-20kHz (-10dB)
	Coverage angle ²	235° x 58° (HxV)
	Power handling	40 W RMS / 160 W Peak
	Sensitivity ³	98 dB (1W/1m)
	Maximum SPL ⁴	114 dB continuous / 120 dB peak
	Recommended amplifier power	80W RMS
TRANSDUCERS		
	Ways	1-way full range
	Driver	8 x 1.5" Loudspeaker
	Nominal impedance	16Ω / 64Ω
PHYSICAL		
	Connection type	Double INPUT/LINK connector, Euroblock type
	Power type selector	Front selection by toggle switch
	Installation options	Surface / Wall mounting
	Environmental	IP44
	Enclosure material	Aluminium
	Grille material	Aluminium
	Grille fixing system	Side Insertion mount system
	Mounting system	Stainless Steel Wall Bracket
	Operating temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Operating humidity	<85% HR
	Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Storage humidity	<90% HR
	Included accessories	FLATY bracket, 2x Euroblock connector
	Finished colour	White (RAL9003) or Black (RAL9005)
	Dimensions (WxHxD)	58 x 448 x 67 mm / 2.28 x 17.64 x 2.64 in.
	Weight	1.2 kg / 2.64 lb
	Pieces per box	1
	Shipping dimensions (WxHxD)	135 x 655 x 160 mm / 5.31 x 25.79 x 6.30 in.
	Shipping weight	1.9 kg / 4.19 lb
SYSTEM		
	Effective Freq. Range ¹	165Hz-20kHz (-10dB)
	Coverage angle ²	165° x 41° (HxV)
	Power handling	150 W RMS / 600 W Peak
	Sensitivity ³	105 dB (1W/1m)
	Maximum SPL ⁴	127 dB continuous / 133 dB peak
	Power options	100V: 160W (switched to 64 Ohm) 70V: 80W (switched to 64 Ohm)
	Recommended amplifier power	300W RMS
TRANSDUCERS		
	Ways	1-way full range
	Driver	8 x 2.5" Loudspeaker
	Nominal impedance	16Ω / 64Ω
PHYSICAL		
	Connection type	Double INPUT/LINK connector, Euroblock type
	Power type selector	Front selection by toggle switch
	Installation options	Surface / Wall mounting
	Environmental	IP44
	Enclosure material	Aluminium
	Grille material	Aluminium
	Grille fixing system	Side Insertion mount system
	Mounting system	Stainless Steel Wall Bracket
	Pan and tilt wall-mount	90°/45° (HxV)
	Operating temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Operating humidity	<85% HR
	Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Storage humidity	<90% HR
	Included accessories	HANDY wall-mount bracket, 2x Euroblock connector
	Finished colour	White (RAL9003) or Black (RAL9005)
	Dimensions (WxHxD)	83 x 648 x 87 mm / 3.27 x 25.51 x 3.43 in.
	Weight	2.65 kg / 5.84 lb
	Pieces per box	1
	Shipping dimensions (WxHxD)	135 x 920 x 160 mm / 5.31 x 36.22 x 6.30 in.
	Shipping weight	3.45 kg / 7.61 lb

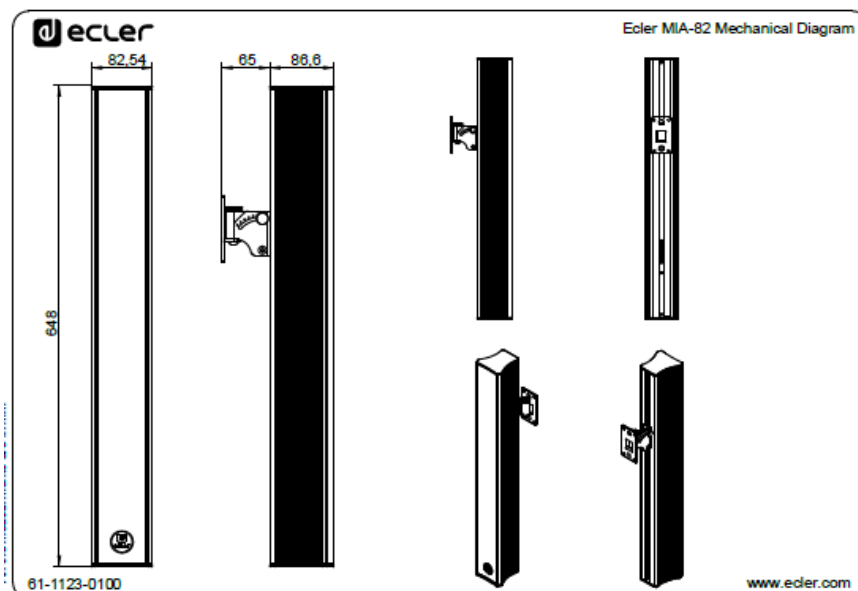
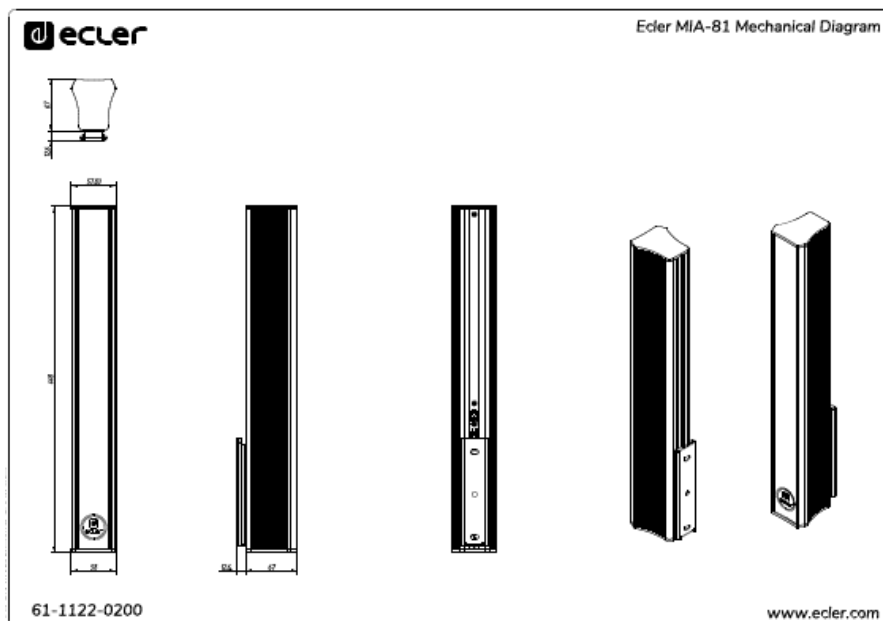
1. Below the sound pressure level at the specified sensitivity.
2. 6dB below the sound pressure level of that at the direction of maximum level, Max.
Angle between 1 kHz and 4 kHz.
3. Measured on-axis, far field, and referenced to 1 meter by the inverse square law.
Average from 100 Hz to 10 kHz.

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

Mechanical Diagram

MIA-81

All measurements are in mm.



- 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, under Support / Technical requests.

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- information@ecler.com |
- www.ecler.com

FAQs


Q: What should I do if the device is damaged?

A: If the device has been damaged in any way, such as power supply cord damage or exposure to liquid, refer all servicing to qualified personnel mentioned in the user manual.

Q: How should I clean the loudspeakers?

A: Use a dry cloth to clean the loudspeakers. Do not use any liquid cleaning agents.


Documents / Resources

	Ecler MIA Series Mini Array Column Loud Speakers [pdf] User Manual MIA-82, MIA Series Mini Array Column Loud Speakers, MIA Series, Mini Array Column Loud Speakers, Column Loud Speakers, Loud Speakers, S peakers
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References

- [User Manual](#)

 ecler

 Column Loud Speakers, ecler, Loud Speakers, MIA Series, MIA Series Mini Array Column Loud Speakers MIA-82, Mini Array Column Loud Speakers, Speakers

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