NIMBO-24

LOUDSPEAKERS

Top Performance Cabinet Loudspeaker



USER MANUAL

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1. PRECAUTIONS

1.1 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: A device with Class I construction shall 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 not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

1.2 Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device 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 device (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 device.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the device during lightening sorts or when unused for long periods of time.
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 is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, 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. For this reason, it always shall remain easily accessible.
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 the unit.
17. The device shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on device.

1.3 Cleaning

Clean the unit with a soft, dry clean 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, animal, or objects due to failure to comply with the warnings above.

2. WARRANTY & ENVIRONMENT

Thank you for choosing our device Ecler NIMBO-24!
We appreciate your trust.

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

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 with the environment and planet sustainability, energy saving and CO_2 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.

3. PACKAGE CONTENTS

- 1 x NIMBO-24 loudspeaker.
- 1 x VEASY wall bracket with vertical and horizontal adjustment (VESA compatible) + 4 screws.
- 2 x Euroblock connectors.
- 1 x Cable entry plate + 1 screw.
- 2 x Cable glands (included from specific serial numbers onwards; see page 9 for detailed information).
- 2 x Cable glands.
- 1 x First Steps Guide.
- 1 x Warranty card.

4. DESCRIPTION & FEATURES

NIMBO-24 is a premium performance 2-way passive loudspeaker with 80W RMS power, in a compact size with extended low frequency response. Suitable for outdoor applications, with a cloud-inspired design, result of Ecler's engineering skills and the collaboration of architects and interior designers.

Including 2 x 4" woofers and a 1" silk tweeter located in the acoustic centre, acting as a single point source to disperse the sound evenly.

The nominal impedance of the speaker can be selected to 4 ohm or 16 ohm thanks to the front switch located behind the logo, which allows to modify its impedance without removing the aluminium front grille.

It includes the robust VEASY wall bracket, allowing tilt and pan adjustment using a single screw.

4.1 Main Features

- 2-way passive loudspeaker for surface and ceiling mounting.
- 2x 4" woofers with 4-layer voice coil improves power handling and low frequency response.
- 1" silk tweeter with neodymium magnet and ferrofluid.
- Glass-fibre reinforced ABS non resonant compact enclosure.
- Wide dispersion pattern.
- VEASY bracket compatible with VESA 75 included. Quick and easy to install, including jumps and markings for repeating speaker orientation.
- Weather-protected with an IP-44 rating.
- Available in white (RAL9003), black (RAL9005), gold colour (RAL1036, approx.) and titanium colour (RAL9007 MATT).
- RAL paint customization available.

5. CONNECTIONS

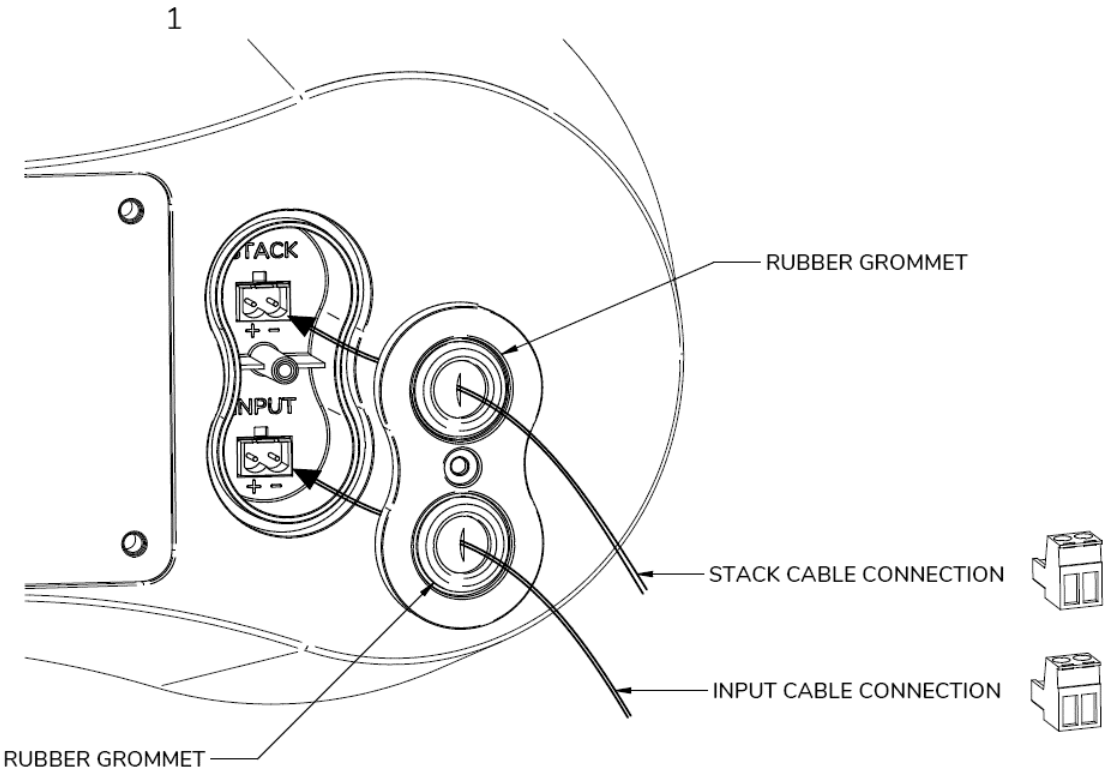
The connection cables which connect the amplifiers output and the speaker should be of good quality, have sufficient conductor area and be as short as possible. The latter fact is especially important when the distance is long and the load impedance low (4-16 Ω). A cross-section of at least 2.5mm2 is recommended for distances up to 10m; 4 or 6mm2 for longer distances. Following formula gives the required section, assuming 4% losses:

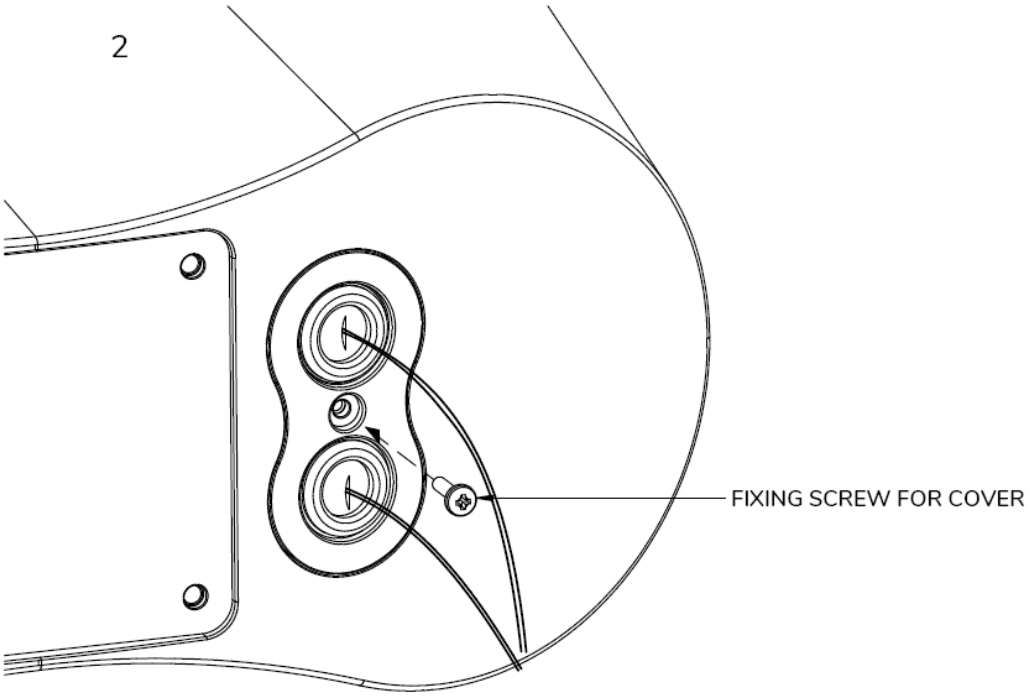
$$\text{Cross section in mm}^2 = \frac{\text{Length in m}}{\text{Loudspeaker impedance in } \Omega}$$

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

See detailed connections diagram on next page.

5.1 Connection Diagram





5.2 Outdoor installation

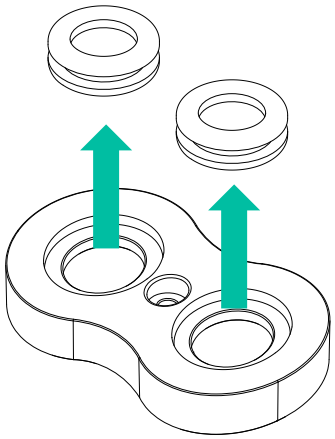
5.2.1 With cable glands

From the serial numbers listed below onwards, two cable glands are included in the packaging to improve cable-entry sealing for outdoor installations. Refer to the product label on the device to identify the internal reference and serial number.

Internal Reference	Applicable from serial number
CNIMBO24BK	> 33016xxxx
CNIMBO24GD	33617xxxx
CNIMBO24TN	33502xxxx
CNIMBO24WH	> 30229xxxx

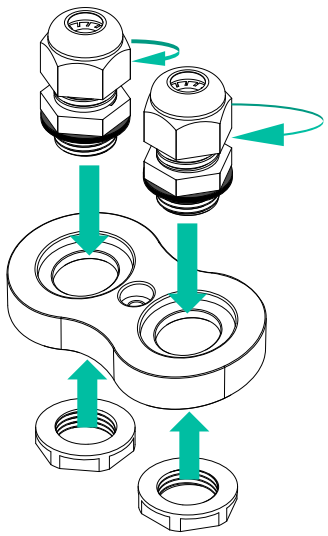
Install the cable glands as shown in the diagram below.

1



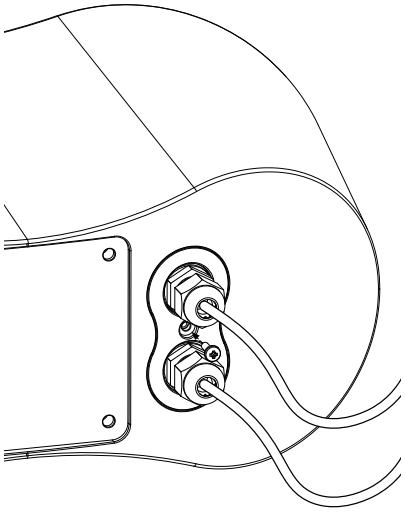
Remove the rubber grommets from the cable entry plate.

2



Insert the two cable glands into the cable entry plate and rotate them clockwise until they are securely tightened.

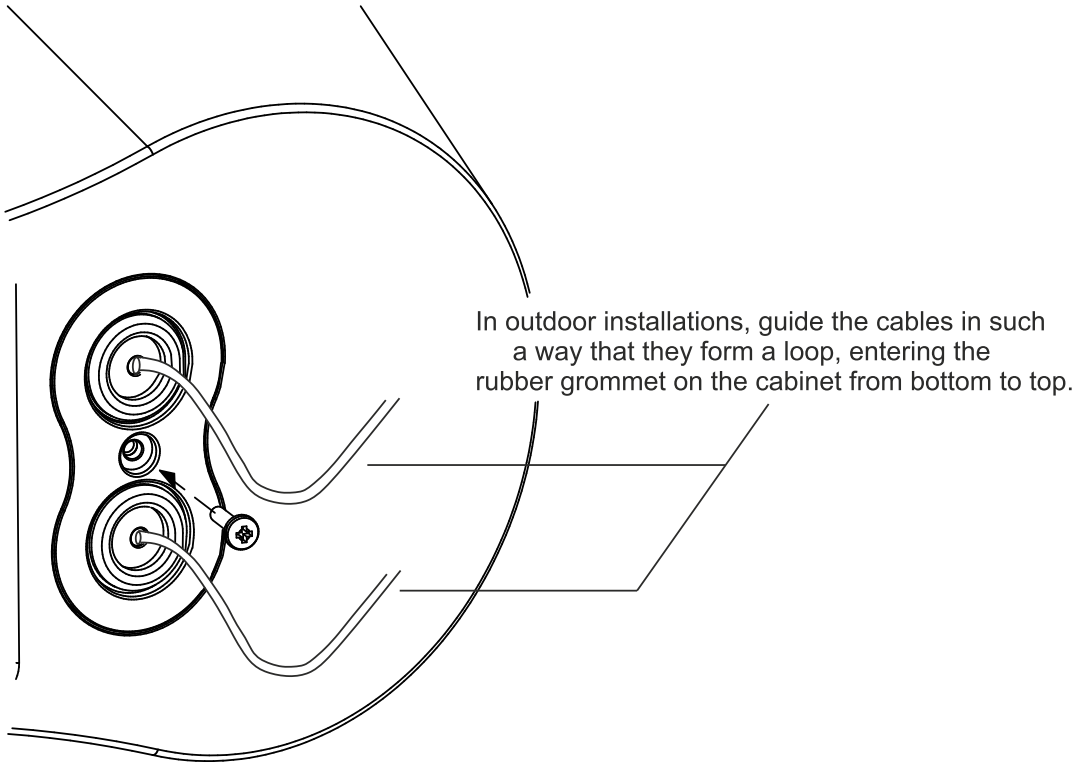
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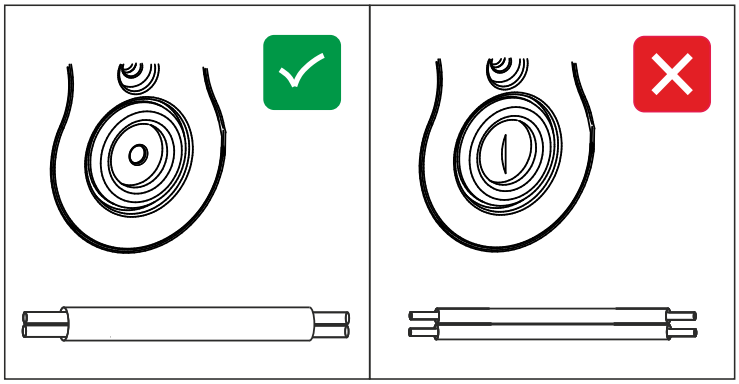
Pass the cables through the cable glands, forming a loop from bottom to top. Connect the cables as required. Then secure the cable entry plate to the loudspeaker using the supplied screw.

5.2.2 Without cable glands

Models with serial numbers prior to those listed on the previous page do not include cable glands. For outdoor installations of these models, proceed as follows:

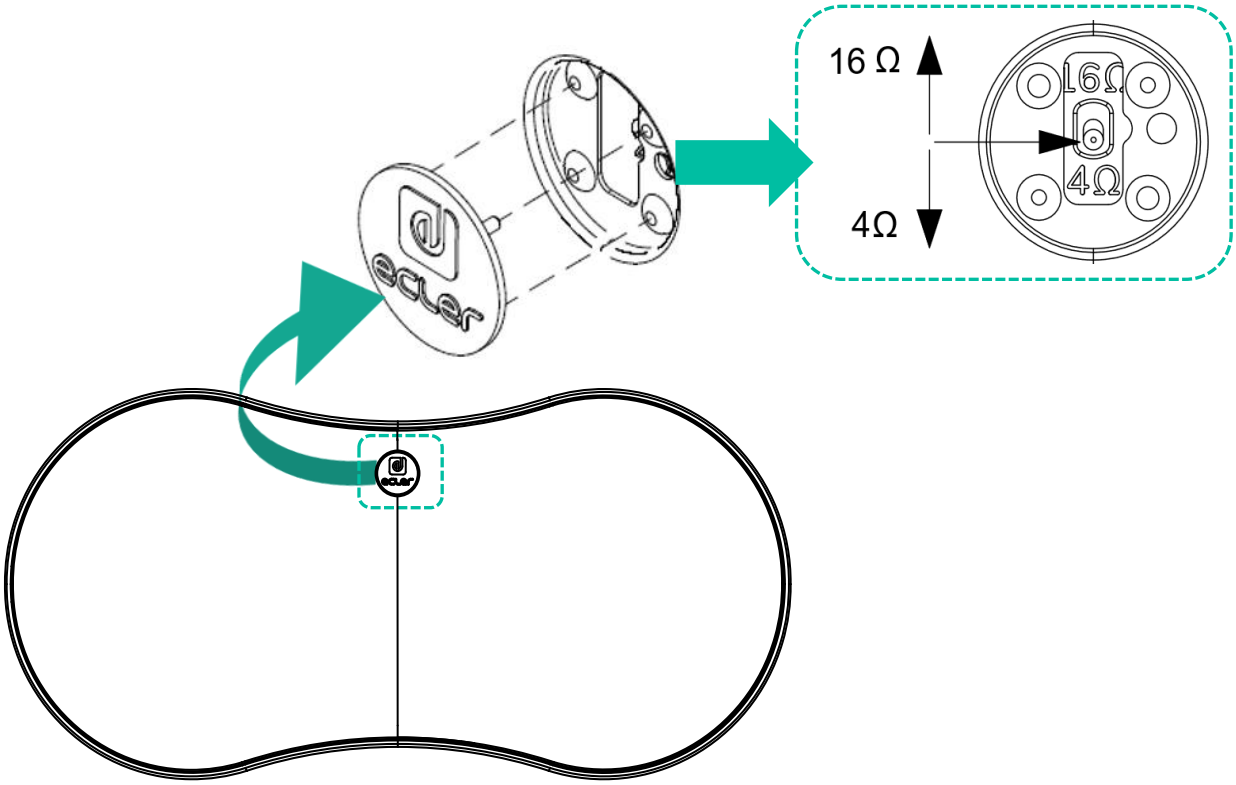


In outdoor installations, use a round tool to drill the grommets. Avoid making straight cuts. Additionally, ensure the use of round profile cables instead of parallel cables.



6. IMPEDANCE SELECTOR

NIMBO-24 works in low impedance operation. In this matter, it **has a 2-position switch on its front panel (behind the logo) that allows to select its working mode without removing the grill.**



7. EQ SETTINGS

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

8. RECOMMENDED AMPLIFIER

The output power of the **recommended amplifier** for NIMBO-24 **is 150W RMS**.

9. POSITIONING & INSTALLATION

9.1 Positioning

Consider 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: 

9.2 Installation

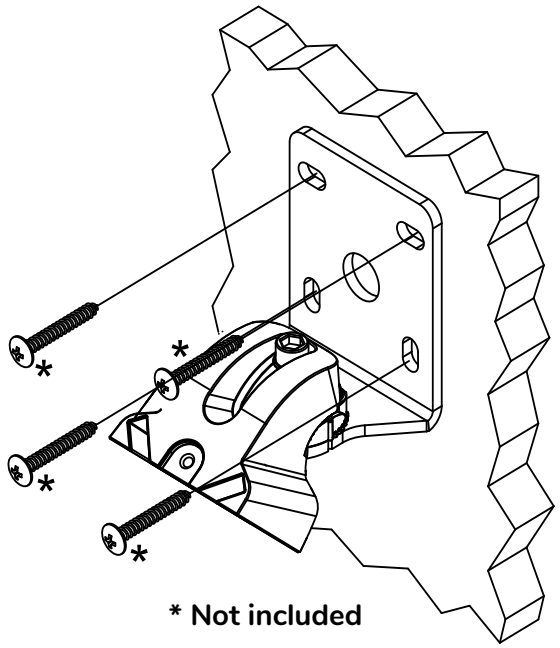
NIMBO loudspeaker **include the VEASY wall bracket, VESA 75 compatible and easy to install.** The robust VEASY wall bracket, allow tilt and pan adjustment using a single screw. Quick and easy to install, including jumps and markings for repeating speaker orientation.

See detailed installation diagram on next page.

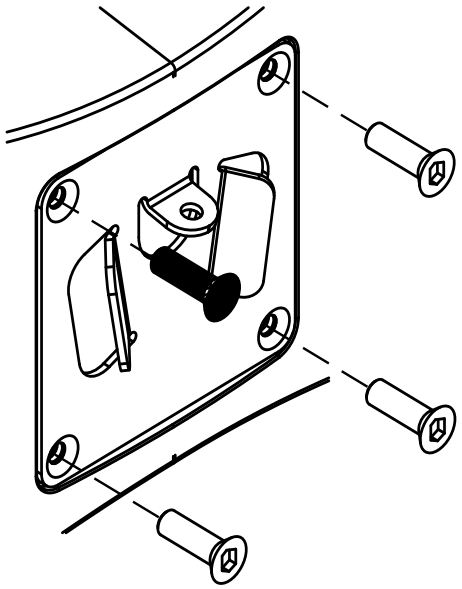
9.3 Installation Diagram

Mounting the VEASY wall bracket.

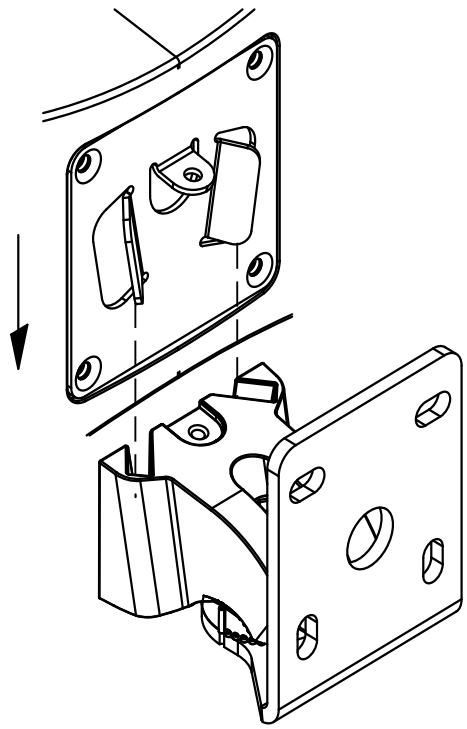
1



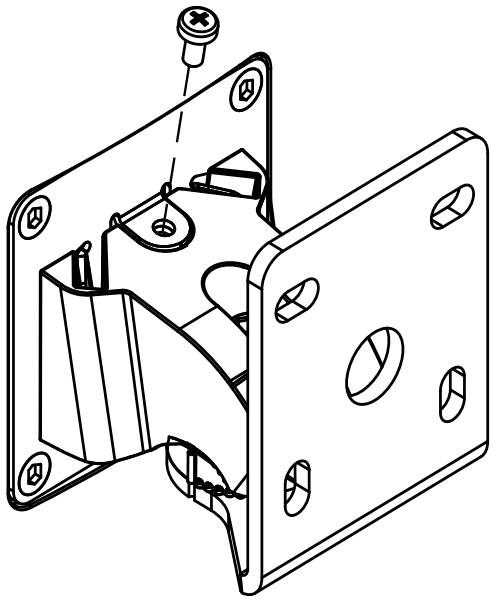
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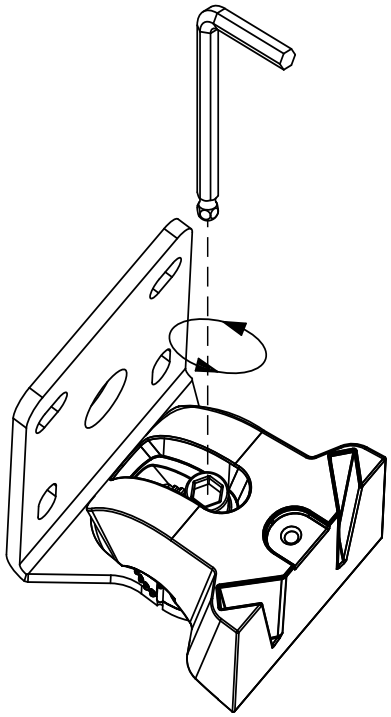
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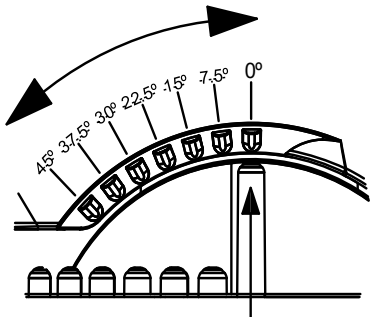
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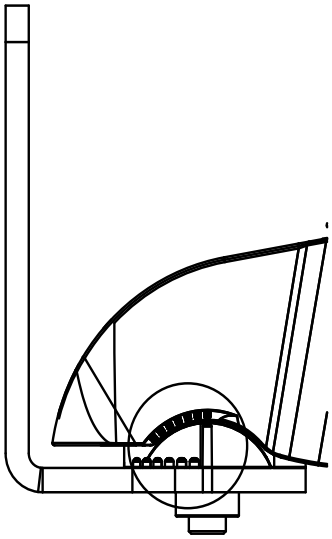


5



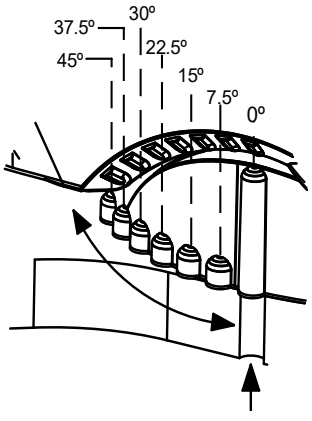
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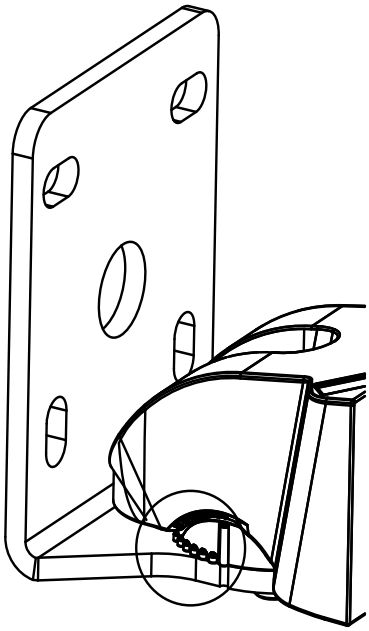




TILT ORIENTATION

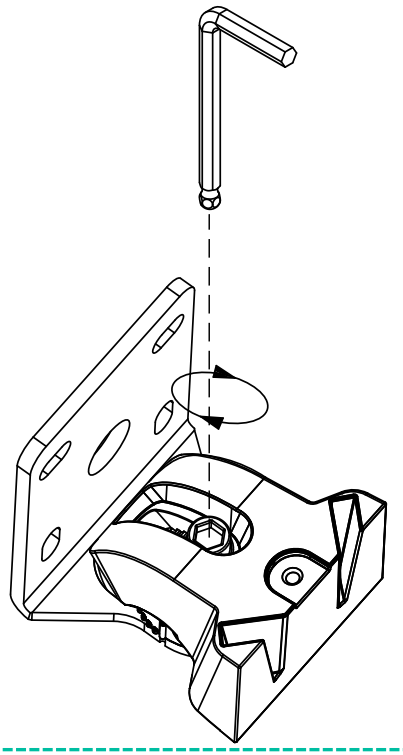
7





PAN ORIENTATION

8



10. TECHNICAL DATA

10.1 Technical Specifications

NIMBO-24

SYSTEM	
Effective Freq. Range [1]	62Hz-20kHz (-10dB)
Coverage angle [2]	165°x150° (HxV)
Power handling	80 W RMS / 320 W Peak
Sensitivity [3]	84 dB (1W/1m)
Maximum SPL [4]	103 dB continuous / 109 dB peak
Recommended amplifier power	150W RMS
TRANSDUCERS	
Ways	2-ways full range
Low frequency driver	2 x 4" Woofer
High frequency driver	1" Silk Dome Tweeter
Nominal impedance	4Ω / 16Ω
FILTERS	
Crossover filter	1,65 KHz
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	ABS reinforced with fibreglass
Grille material	Aluminium
Grille fixing system	Pressure mount system
Mounting system	Stainless Steel VEASY 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	1 x Wall-mount bracket + 4 screws, 2x Euroblock connectors, 1 x Cable entry plate + 1 screw, 2 x Cable glands.
Finished colour	White (RAL9003), Black (RAL9005), Gold (RAL1036, approx.) or Titanium (RAL9007 MATT)
Dimensions (WxHxD)	366 x 178 x 185 mm / 14.41 x 7 x 7.28 in.
Weight	3 kg / 6.61 lb
Pieces per box	1
Shipping dimensions (WxHxD)	450 x 310 x 300 mm / 17.71 x 12.20 x 11.81 in.
Shipping weight	5.7 kg / 12.57 lb

[1] below the sound pressure level at specified sensitivity.

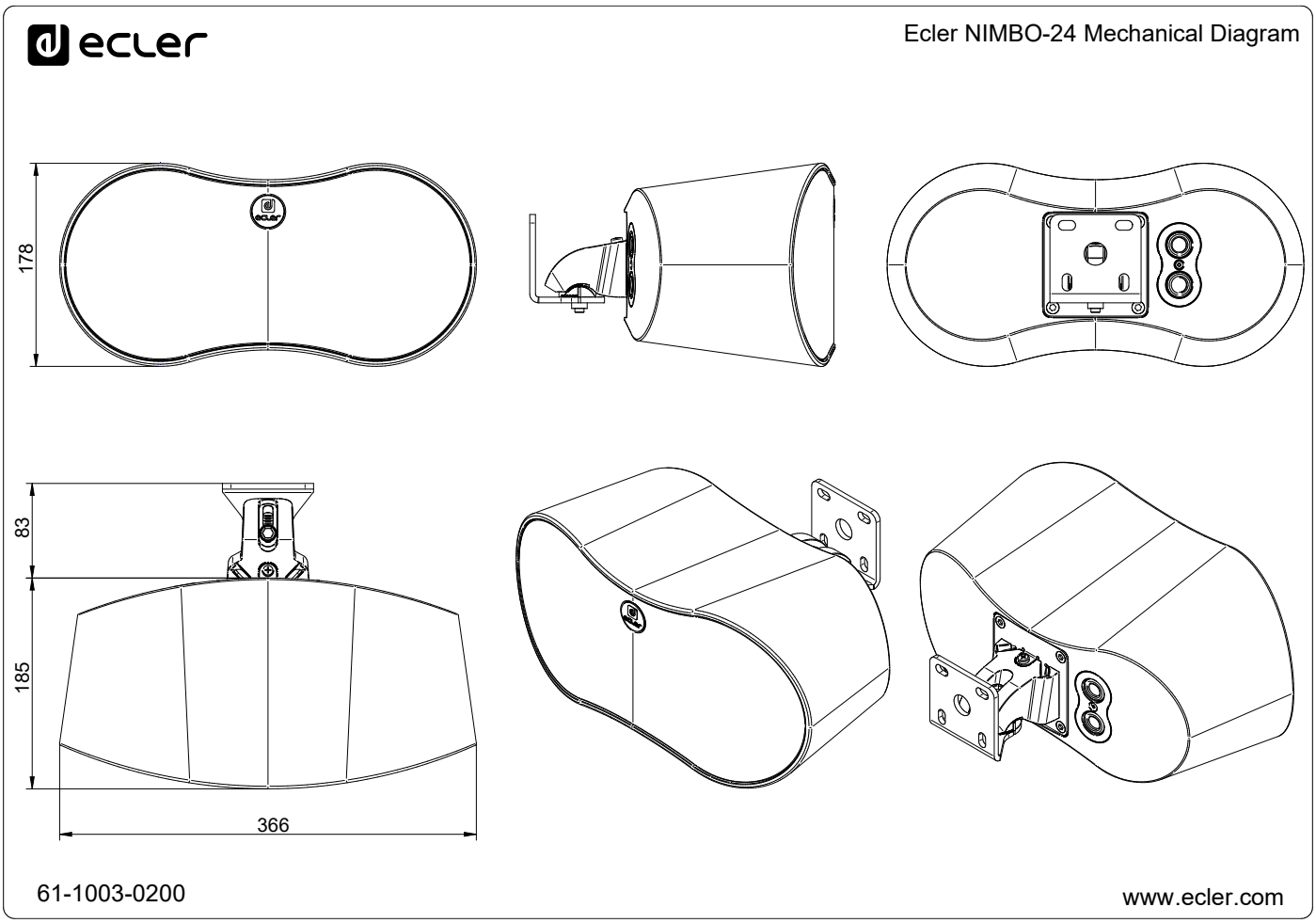
[2] 6dB below the sound pressure level than that at the direction of maximum level, Max. angle between 1 kHz and 4 kHz.

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

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

10.2 Mechanical Diagram

Measurements **in mm.**



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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.**