



# eMOTUS30D

COMMERCIAL LOUDSPEAKERS  
*Outdoor loudspeaker*



## USER MANUAL

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## 1. PRECAUTIONS


### 1.1 Important Notice



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 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.

## 1.2 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 in accordance with 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 are 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 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 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 by means of a power cord.
16. The marking information is located at the rear/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.

## 1.3 Cleaning Directions



**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 Ecler eMOTUS3OD!**

**We greatly value your trust.**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its **contents before any connecting takes place** in order 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](http://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<sub>2</sub> 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

- 2 x eMOTUS3OD loudspeakers.
- 2 x articulated brackets for wall mounting.
- 2 x security steel cable
- 8 x adhesive legs for positioning the loudspeakers on a desktop
- Rear connection housing for outdoor use
- First Steps Guide.
- Warranty card.



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## 4. DESCRIPTION & FEATURES

**eMOTUS3OD** is a loudspeaker cabinet, 3" woofer with eMOTUS unique design.

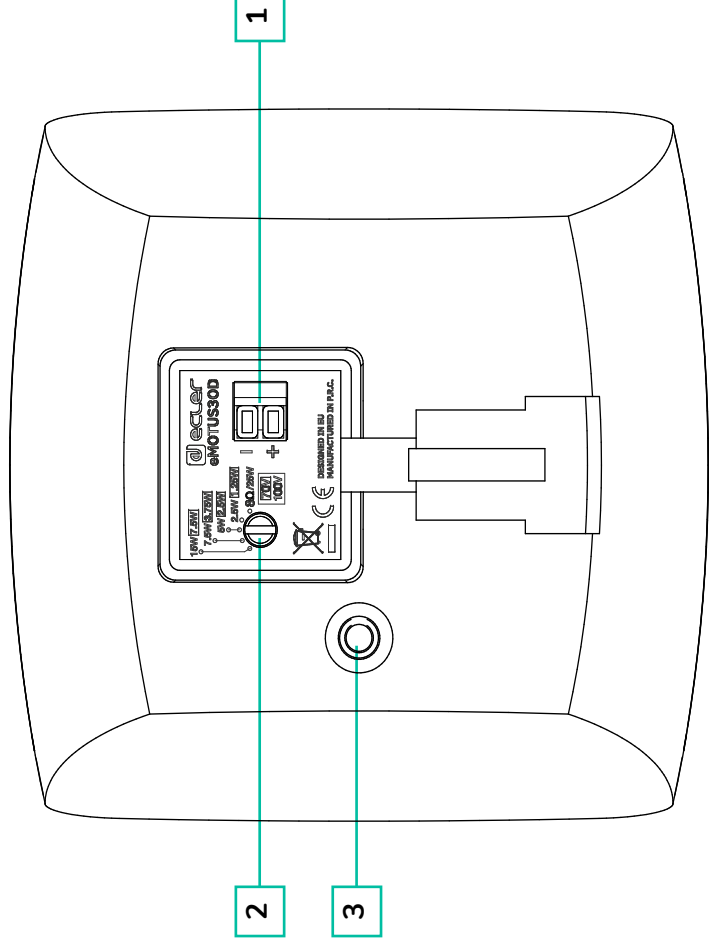
Ready for indoor and outdoor applications, thanks to its aluminium grill and UV protection treatment (IP65-rated). A professional and compact loudspeaker, cost-effective and with a unique design that will easily fit in a massive number of applications: theme parks, gardens, nature parks and urban spaces, leisure, health and sport centres, residential buildings, outdoor areas, etc.

Available in black and white colour. Wall mount accessories and safety sling are included for an easy and secure installation.

### 4.1 Main Features

- 3" woofer.
- 25WRMS @ 8Ω.
- Power options:
  - 2.5W/5W/7.5W/15W @ 100V
  - 1.25W/2.5W/3.75W/7.5W @ 70V
- Outdoor design.
- IP65 rated.
- Rubber cover to protect rear connections.
- Wall bracket and security steel cable included.
- Adhesive legs for positioning the loudspeakers on a desktop included.
- Available in black (RAL9005) and white (RAL9016) colour.
- [EASE files available.](#)

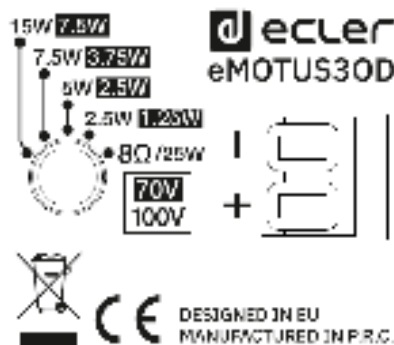
## 5. REAR PANEL



1. 2-terminal Euroblock connector
2. Power selector
3. Attachment point for the safety cable

## 6. CONNECT

eMOTUS3OD accepts high or low impedance. In this regard, on the rear panel, there is a 5-position switch for selecting your work mode. The first 4 positions allow for the system to operate in high impedance, and the fifth, in low impedance. (\*) The 4 positions on the power selector for a 100V line will make it possible to set the maximum power with which each unit will operate. So, in areas where a low sound level is needed, the lower positions will be used (2.5 to 1.25W), whereas in areas where a higher level is required, the upper positions (15 or 7.5W) will be used.



In the event of using the loudspeaker in installations at 70V, the power ratings for the 100V position will be reduced to half of those indicated on the connector terminals. In the case of 50V installations, they will be reduced to a quarter.

The fifth position corresponds to operating in low impedance ( $8\ \Omega$ ) and a maximum power of 25 WRMS. In the event of adopting this set up, the limitations of the amplifier must be taken into account by connecting several loudspeakers to the output, particularly if the impedance of the unit falls below  $4\ \Omega$ . Also, it is important to ensure that the connection cable joining the amplifier outputs and the loudspeakers are good quality, and as short as possible. This becomes especially important when the distances to cover are considerable and the impedance of the loudspeakers is low.

(\*) The speaker distribution system on a 100V/70V line historically arises from the technical need to mix loudspeakers with different impedances and/or power ratings on the same line or amplifier channel, all without the need to be concerned about the total impedance of the resulting unit. In addition to that, this solution makes it possible, with minimum losses of power, to use long stretches of cable and a slightly shorter section than that normally used in a low impedance installation.

eMOTUS3OD is delivered by default with the switch in the 100V/15W position. If the system is accidentally connected to an amplifier with a low impedance output, no damage will be done to the loudspeaker, but it will perform well below its capacity. In the event of accidentally connecting the loudspeaker to a 100V network with the switch in the  $8\ \Omega$  position, it will be seriously damaged.



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## 7. INSTALLATION & OPERATION

In the packing of eMOTU30D, you will find all that is needed to complete installation of the unit.

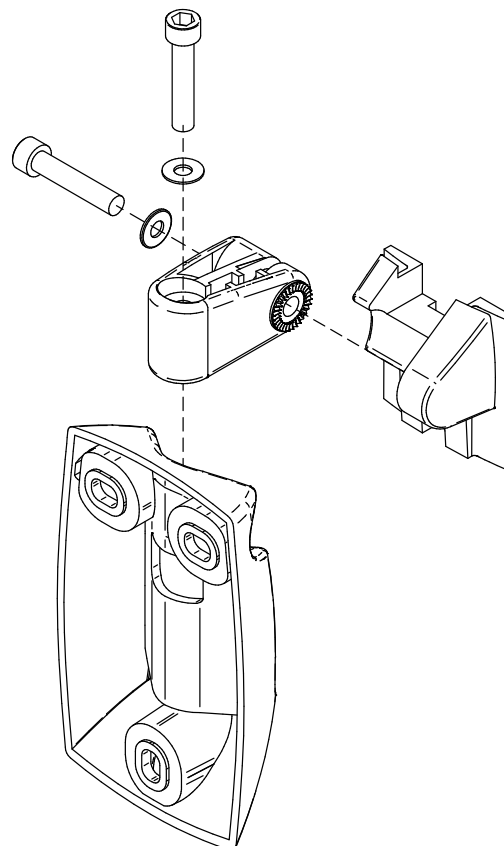


The following should be observed as general rules:

- Always install on solid, firm surfaces.
- For good sound reproduction, there should be no hindrance between the units and the audience.
- Adjust the levels of sound pressure to reproduction requirements. Despite its small size, the eMOTUS30D has a performance far higher than that of domestic loudspeakers.

### Procedure for installing on a surface:

1. Make three 6 mm drill holes in the wall, lining them up with the position of the holes in the bracket.
2. Insert three 6 mm wall plugs in these holes.
3. Fasten the safety line on the back of the bracket.
4. Place the bracket in position, after first passing the line and the loudspeaker cable through the square hole on the bracket. Fix the bracket to the wall.



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5. Connect the loudspeaker cable to the connector on the rear part of the box, using the Euroblock connector supplied.

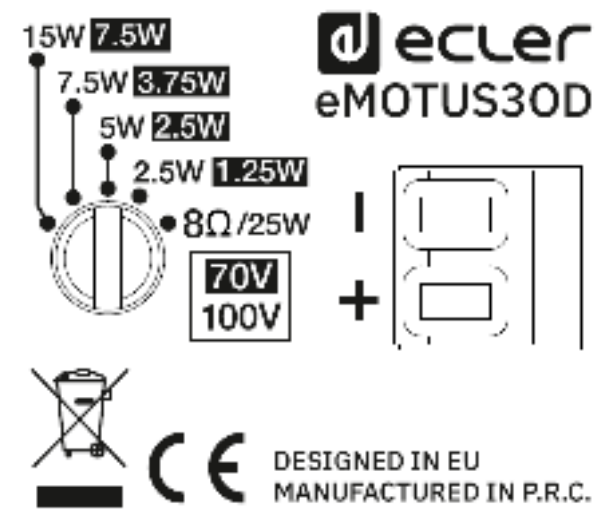
**⚠ Ensure the correct polarity of the terminals and that the cable goes through the square hole in the bracket.**

**💡 It is advisable to place the protective housing supplied when the loudspeaker is installed outdoors.**

6. Place the acoustic box in its final position, vertically sliding it downward so that the rail on its rear side fits with the bracket rail.

**⚠ Fasten the safety cable on the rear part of the acoustic box, to avoid it accidentally falling and causing material and/or personal damage.**

7. Orientate the box to obtain the required position on the vertical and horizontal axes. Tighten the Allen screws on the bracket to fix said position on both axes.
8. Adjust the power selector to the required position.



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## 8. TECHNICAL DATA

### 8.1 Technical Specifications

#### eMOTUS30D

System	
Effective frequency range <sup>1</sup>	120 Hz - 20 kHz (-10dB)
Coverage angle <sup>2</sup>	196°x187° (HxV)
Power handling	25W RMS / 100W Peak
Sensitivity <sup>3</sup>	85dB (1W/1m)
Maximum SPL <sup>4</sup>	99dB continuous / 105dB peak
Power options	2.5W/5W/7.5W/15W @ 100V and 8Ω 1.25W/2.5W/3.75W/7.5W @ 70V and 8Ω
Recommended amplifier power	50W
Transducers	
Ways	1-way
Low frequency driver	3" woofer
Nominal impedance	8Ω
Physical	
Connection type	2-terminal Euroblock connector (Input)
Power type selector	Selectable transformer tap
Installation options	Surface (wall mount), desktop
Environmental	IP65 rated
Enclosure material	ABS plastic
Grille material	Aluminium
Mounting system	ABS 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	Wall-mount bracket, adhesive legs, back rubber cover & security steel cable
Optional accessories	-
Finished colour	White (RAL 9016) or black (RAL 9005)
Dimensions (WxHxD)	132x134.5x115.5 mm / 5.20x5.30x4.55 in.
Weight	1.3 kg. / 2.87 lb.
Pieces per box	2

<sup>1</sup>10dB below the sound pressure level at specified sensitivity

<sup>2</sup>6dB below the sound pressure level than that at the direction of maximum level. Max. angle between 1 kHz to 4 kHz.


<sup>3</sup>Measured on-axis, 2,83V, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

<sup>4</sup>Calculated from sensitivity and power handling specifications, exclusive of power compression

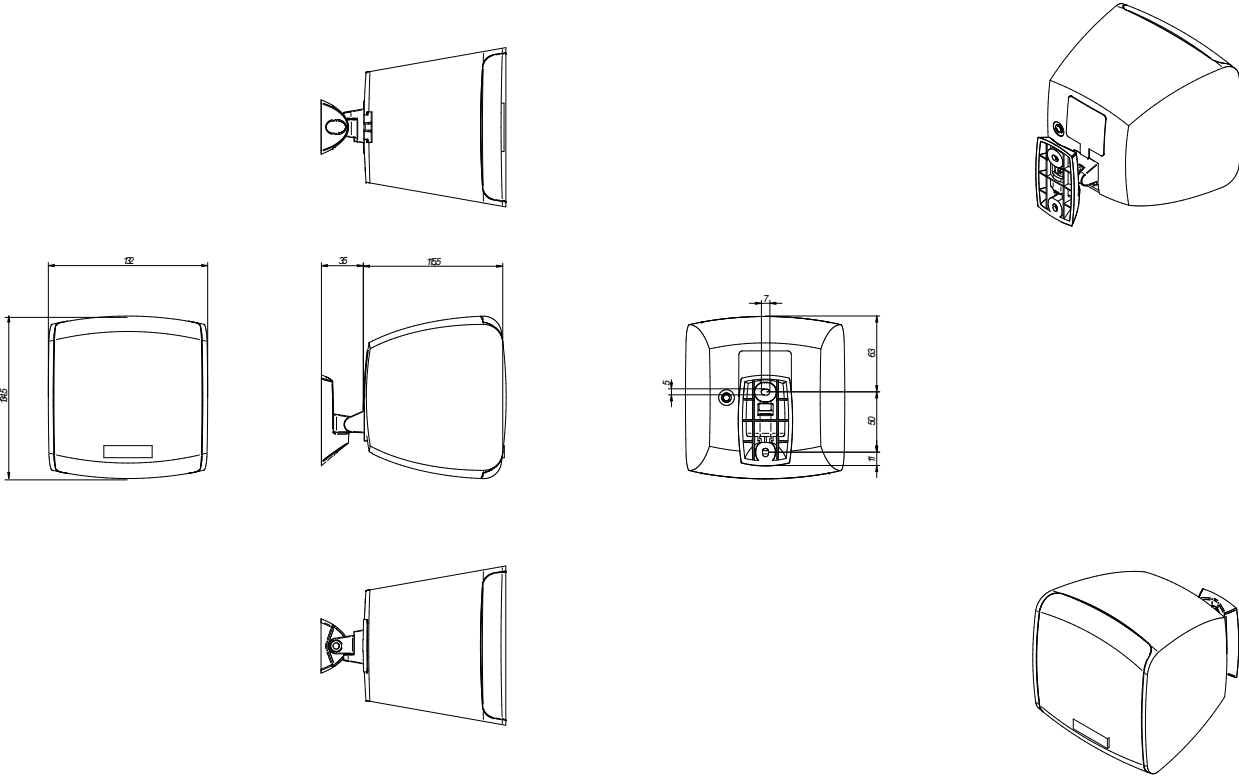
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8.2 Mechanical Diagram

All measurements are in mm.



Ecler eMOTUS3OD Mechanical Diagram



Front view dimensions: 586 (height), 122 (width)


Side view dimensions: 35 (depth), 155 (width)

Top view dimensions: 7 (width), 69 (height), 65 (width), 1 (depth)

61-11129-0100

www.ecler.com

All the measurements are 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](#).

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