

eMOTUS5016

COMMERCIAL LOUDSPEAKERS

Outdoor Loudspeaker





PRODUCT OVERVIEW

eMOTUS5016 is a low impedance (16 ohm) loudspeaker cabinet, 5" woofer + 1" tweeter coaxial 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.

KEY FEATURES

- 5" woofer + 1" coaxial tweeter
- 40 W RMS @ 16Ω
- Power options: 16 ohm.
- Max SPL (Peak):108dB
- Euroblock connection.
- Outdoor design: IP65 rated
- Wall bracket and security steel cable included.
- Adhesive legs for positioning the loudspeakers on a desktop included.
- Rubber cover to protect rear connections.
- Available in black (RAL 9005) and white (RAL 9016) colour
- EASE files available.



APPLICATIONS

- Retail
- Education
- Corporate
- Leisure
- Sports & Wellness
- Hospitality

ACCESSORIES AND COMPATIBLE DEVICES

- CEILY (ceiling bracket).
- GROUNDY (ground bracket).



TECHNICAL SPECIFICATIONS

eMOTUS5016

Effective frequency range ¹	eMOTUS5016	
Coverage angle² Power handling Sensitivity³ 86dB (1W/1m) Maximum SPL⁴ Power options Recommended amplifier power Recommended amplifier power Transducers Ways Low frequency driver High frequency driver Nominal impedance Physical Connection type Installation options Environmental Enclosure material Grille material Mounting system Operating temperature Operating humidity Storage temperature Finished colour Dimensions (WxHxD) Ways 2-ways full range 5" woofer 1" coaxial tweeter 1" coaxial tweeter 16Ω 2-terminal Euroblock connector (Input) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F Veyby HR Max: 40°C; 104°F Veyby HR Min: -10°C; 14°F Max: 40°C; 104°F Max: 40°C; 104°F Max: 40°C; 104°F Veyby HR Min: -10°C; 14°F Max: 40°C; 104°F Max: 40°C; 104°F Veyby HR Min: -10°C; 14°F Max: 40°C; 104°F Max: 40°C; 104°F Veyby HR Min: -10°C; 14°F Max: 40°C; 104°F M	System	
Power handling Sensitivity³ Sensitivity³ Maximum SPL⁴ Power options Recommended amplifier power Recommended amplifier power Ways Low frequency driver High frequency driver Nominal impedance Physical Connection type Installation options Environmental Enclosure material Grille material Mounting system Operating temperature Operating humidity Storage temperature Finished colour Dimensions (WxHxD) Ways 2-ways full range 5" woofer 1" coaxial tweeter 16Ω 2-terminal Euroblock connector (Input) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F Vays Vall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 1.75 kg. / 3.86 lb. Pieces per box Shipping dimensions (WxHxD) Sentinuous / 108dB peak 16 Ω Vald BGM MMS 102dB continuous / 108dB peak 16 Ω Sentinuous / 108dB peak 16 Ω Nember 1004	Effective frequency range ¹	· · · · · ·
$Sensitivity^3 \\ Maximum SPL^4 \\ Power options \\ Recommended amplifier power \\ Recommended Amplifier \\ Reco$	Coverage angle ²	150° x 150° (HxV)
$\begin{tabular}{ll} Maximum SPL^4 & 102dB continuous / 108dB peak \\ Power options \\ Recommended amplifier power \\ Recommended amplifier power \\ \hline \begin{tabular}{ll} Recommended amplifier power \\ Recommended amplifier power \\ \hline \begin{tabular}{ll} Included accessories \\ Recommended amplifier power \\ Recommended amplifier power \\ \hline \begin{tabular}{ll} Recommended amplifier power \\ Recommended amplifier power \\ Recommended amplifier power \\ \hline \begin{tabular}{ll} Recommended amplifier power \\ Recommended anplifier power \\ Recommended and Power \\ Recommended a$	Power handling	40 W RMS / 160 W Peak
Power options 16 Ω Recommended amplifier power Transducers Ways 2-ways full range 5" woofer High frequency driver High frequency driver High frequency driver Nominal impedance 2-ways full range Physical Connection type Installation options 2-terminal Euroblock connector (Input) Surface (wall mount), desktop IP65 rated ABS plastic Grille material Alluminium ABS bracket Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F 485% HR Storage humidity Storage humidity Max: 40°C; 104°F 90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. Pieces per box	Sensitivity ³	86dB (1W/1m)
Transducers Ways 2-ways full range 5" woofer High frequency driver Nominal impedance 16Ω Physical Connection type Installation options Environmental Environmental Environmental Grille material Abs plastic Grille material Aluminium Mounting system Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity <85% HR Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity <90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. Weight Pieces per box Shipping dimensions (WxHxD) S' woofer 1" coaxial tweeter 10 Coaxial twee	Maximum SPL ⁴	102dB continuous / 108dB peak
Transducers Ways Low frequency driver High frequency driver Nominal impedance Physical Connection type Installation options Environmental Enclosure material Grille material Mounting system Operating temperature Operating humidity Storage temperature Storage humidity Storage humidity Included accessories Finished colour Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) Veright Vall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 1.75kg. / 3.86 lb. 2-ways full range 5" woofer 1" coaxial tweeter 16Ω 2-terminal Euroblock connector (Input) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F < 85% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 × 180 × 180 mm / 6.81 × 7.09 × 7.09 in. 1.75kg. / 3.86 lb. 2 230 × 220 × 460 mm / 9.01 × 9.67 × 18.11 in.	Power options	16 Ω
Ways Low frequency driver High frequency driver Nominal impedance5" woofer 1" coaxial tweeter 16ΩPhysicalConnection type Installation options Environmental Enclosure material Grille material Mounting system Operating temperature2-terminal Euroblock connector (Input) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracketOperating temperatureAluminium ABS bracketMounting system Operating humidity Storage temperatureMin: -10°C; 14°F Max: 40°C; 104°FOperating humidity Storage humidity<85% HR	Recommended amplifier power	80 W RMS
Low frequency driver High frequency driver Nominal impedance 1" coaxial tweeter 1 dΩ Physical Connection type Installation options Environmental Enclosure material ABS plastic Aluminium Abunting system Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F Ava: 40°C; 104°F	Transducers	
High frequency driver Nominal impedance 16Ω Physical Connection type Installation options Environmental Enclosure material ABS plastic Aluminium ABS bracket Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Storage humidity Storage humidity Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Stora	Ways	2-ways full range
Nominal impedance 16Ω	Low frequency driver	5" woofer
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Connection type Installation options Environmental Enclosure material Grille material Mounting system Operating humidity Storage temperature Storage humidity Included accessories Finished colour Dimensions (WxHxD) Storage dimensions (WxHxD) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F <<85% HR Min: -10°C; 14°F Max: 40°C; 104°F <<90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) I73 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. I.75kg. / 3.86 lb. Pieces per box Shipping dimensions (WxHxD) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F <<85% HR Min: -10°C; 14°F Max: 40°C; 104°F 85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% HR Min: -10°C; 14°F Max: 40°C; 104°F </85% H</td <td>Nominal impedance</td> <td>16Ω</td>	Nominal impedance	16Ω
Installation options Environmental Enclosure material Grille material Mounting system Operating temperature Operating humidity Storage temperature Storage humidity Included accessories Finished colour Dimensions (WxHxD) Shipping dimensions (WxHxD) Surface (wall mount), desktop IP65 rated ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F <<85% HR Min: -10°C; 14°F Max: 40°C; 104°F <<90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. 2 230 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.	Physical	
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Enclosure material Grille material Mounting system Operating temperature Operating humidity Storage temperature Storage humidity Included accessories Finished colour Dimensions (WxHxD) Weight Pieces per box Storille material ABS plastic Aluminium ABS bracket Min: -10°C; 14°F Max: 40°C; 104°F <	Installation options	Surface (wall mount), desktop
Grille material Mounting system Operating temperature Operating humidity Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F <a hre<="" td=""><td>Environmental</td><td>IP65 rated</td>	Environmental	IP65 rated
Mounting system Operating temperature Operating humidity Storage temperature Storage humidity Included accessories Finished colour Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F <85% HR Min: -10°C; 14°F Max: 40°C; 104°F <90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. 2 230 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.	Enclosure material	ABS plastic
Operating temperature Min: -10°C; 14°F Max: 40°C; 104°F	Grille material	Aluminium
Max: 40°C; 104°F Operating humidity Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) Max: 40°C; 104°F Aux: 40°C; 104°F Max: 40°C; 104°F	Mounting system	ABS bracket
Operating humidity Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) 285% HR Min: -10°C; 14°F Max: 40°C; 104°F 490% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. 230 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.	Operating temperature	Min: -10°C; 14°F
Storage temperature Min: -10°C; 14°F Max: 40°C; 104°F Storage humidity Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) Min: -10°C; 14°F Max: 40°C; 104°F < 90% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. 230 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.		Max: 40°C; 104°F
Max: 40°C; 104°F Storage humidity Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) 200 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.	Operating humidity	<85% HR
Storage humidity Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) Weight Pieces per box Shipping dimensions (WxHxD) 790% HR Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) 173 x 180 x 180 mm / 6.81 x 7.09 x 7.09 in. 1.75kg. / 3.86 lb. 230 x 220 x 460 mm / 9.01 x 9.67 x 18.11 in.	Storage temperature	Min: -10°C; 14°F
Included accessories Wall-mount bracket, adhesive legs, back rubber cover & security steel cable White (RAL 9016) or black (RAL 9005) $173 \times 180 \times 180 \text{ mm} / 6.81 \times 7.09 \times 7.09 \text{ in.}$ $1.75 \text{kg.} / 3.86 \text{ lb.}$ Pieces per box 2 $230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$		Max: 40°C; 104°F
cover & security steel cable White (RAL 9016) or black (RAL 9005) Dimensions (WxHxD) $173 \times 180 \times 180 \text{ mm} / 6.81 \times 7.09 \times 7.09 \text{ in.}$ Weight $1.75 \text{kg.} / 3.86 \text{ lb.}$ Pieces per box 2 Shipping dimensions (WxHxD) $230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$	Storage humidity	<90% HR
Finished colour Dimensions (WxHxD) White (RAL 9016) or black (RAL 9005) $173 \times 180 \times 180 \text{ mm} / 6.81 \times 7.09 \times 7.09 \text{ in.}$ $1.75 \text{kg.} / 3.86 \text{ lb.}$ $2 \text{ Shipping dimensions (WxHxD)}$ $230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$	Included accessories	Wall-mount bracket, adhesive legs, back rubber
Dimensions (WxHxD) $173 \times 180 \times 180 \text{ mm} / 6.81 \times 7.09 \times 7.09 \text{ in.}$ $1.75 \text{kg.} / 3.86 \text{ lb.}$ $1.75 \text{kg.} / 3.86 \text{ lb.}$ Shipping dimensions (WxHxD) $2 \times 230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$		cover & security steel cable
Weight 1.75 kg. / 3.86 lb. Pieces per box 2 Shipping dimensions (WxHxD) $230 \times 220 \times 460$ mm / $9.01 \times 9.67 \times 18.11$ in.	Finished colour	White (RAL 9016) or black (RAL 9005)
Pieces per box 2 Shipping dimensions (WxHxD) $230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$	Dimensions (WxHxD)	$173 \times 180 \times 180 \text{ mm} / 6.81 \times 7.09 \times 7.09 \text{ in}.$
Shipping dimensions (WxHxD) $230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$	Weight	1.75kg. / 3.86 lb.
	Pieces per box	2
Shipping weight 4.5 kg / 9.92 lb	Shipping dimensions (WxHxD)	$230 \times 220 \times 460 \text{ mm} / 9.01 \times 9.67 \times 18.11 \text{ in.}$
	Shipping weight	4.5 kg / 9.92 lb

¹10dB below the sound pressure level at specified sensitivity

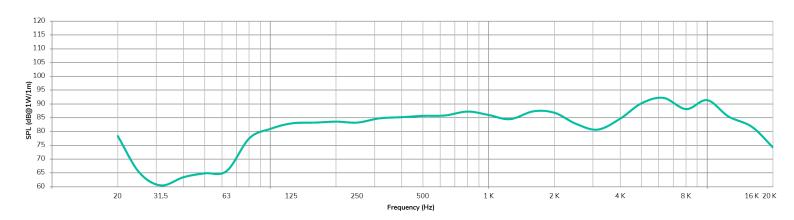
²6dB below the sound pressure level than that at the direction of maximum level. Max. angle between 1 kHz and 4 kHz.

³Measured on-axis, 2,83V, 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



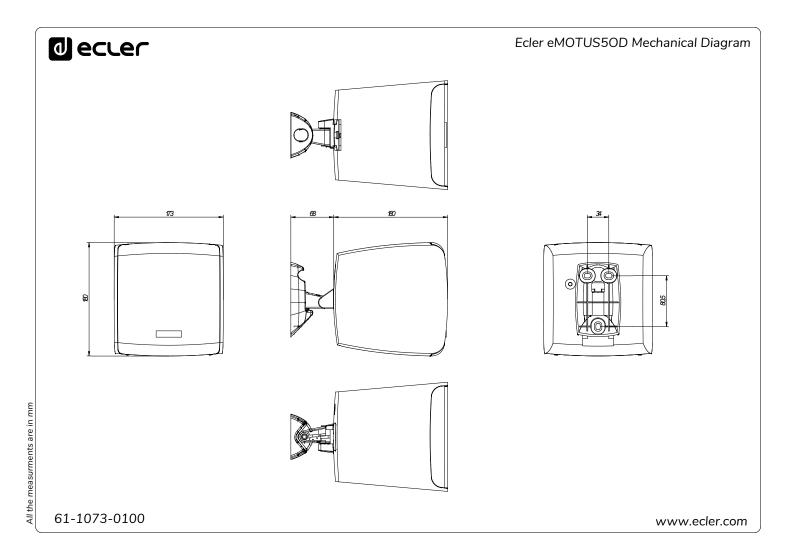
FREQUENCY RESPONSE ON-AXIS



POLAR DIAGRAMS

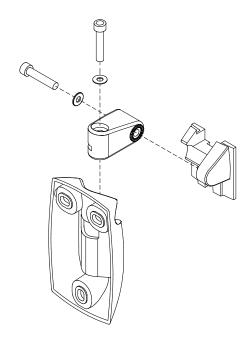


MECHANICAL DIAGRAM





WALL BRACKET MOUNTING DIAGRAM



A&E SPECIFICATIONS

The loudspeaker shall be a wall-mount type consisting of a 5" woofer and 1" coaxial tweeter suitable for low impedance installations (16 Ω). The power handling should be 40 W RMS at a nominal impedance of 16 Ω with a peak power handling of 160 W.

The effective frequency range (± 10 dB) shall be from 80 Hz to 20 kHz. The sensitivity shall be 86 dB considering 1 W input signal at 1 meter distance. The maximum continuous sound pressure level shall be 102 dB, while the maximum peak pressure level shall be 108 dB considering the loudspeaker's rated power. The coverage angle shall be 150° x 150° (HxV) coverage pattern.

The enclosure shall be made of ABS plastic and the grill shall be made of rust-proof aluminium. It shall be IP65 rated for outdoors installation. It shall come available in both white (RAL9016) and black (RAL9005) colours. Connection shall be made via terminal block, including Wall-mount bracket, adhesive legs, back rubber, cover & security steel cable.

The loudspeaker shall have a width of 173 mm, a high of 180 mm and a depth of 180 mm. The weight shall not exceed 1.75kg. It shall have data files available that can be used with EASE acoustic simulation software.

The loudspeaker shall be the ECLER eMOTUS5016.

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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 <u>Support / Technical requests.</u>