

MAGA
ENGINEERING
PRODUCT CATALOGUE





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Product Catalogue
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INTRODUCTION

Welcome to the Maga Engineering® product catalogue. Below you will find the features and technical specifications of our current product range classified according to the following series:

VERTICAL SERIES

Featuring the specifications and performance characteristics of our **ME10V**, **ME10V Wide**, **ME16V**, and **ME20V** line array enclosures, along with the **ME46V MKII** compact column line array. All models are fully integrated into the **EASE® Focus 3**, the industry-standard 3D acoustic simulation and prediction software.

SUB SERIES

Dedicated to our high-performance subwoofers: **ME115SNDA MKII**, **ME115SND**, **ME115SNDX**, **ME118SNDA**, **ME118SND**, **ME118LEX**, **ME218SNDX**, **ME218LEX**, **ME218FHA**, **ME218FH**, and the new **ME121LEX** model. Both the **ME121LEX** and **ME218LEX** subwoofers are fully supported within the **EASE® Focus 3** 3D acoustic simulation and prediction software.

WEDGE SERIES

With the high-performance floor monitors **ME12WAX**, **ME12WX**, **ME15WAX** and **ME15WX**.

HORIZON SERIES

With the data and technical characteristics of the high-performance enclosure for point-source or horizontal curvilinear array **ME12Z**.

SPOT SERIES

Dedicated to the point-source PA and monitor applications enclosures **ME5SX**, **ME8SA MKII**, **ME8S**, **ME12SA** and **ME12S**). The **ME5SX** and **ME8S** models are included in the **EASE® Focus 3** 3D acoustic simulation and prediction software.

BROADCAST SERIES

With the **ME10BA** monitor, specifically designed for mixing and audiovisual post-production studios.

AMPLIFICATION

With our new **ME 5K** (5 000 W), **ME 10K** (10 000 W) and **ME 20K** (20 000 W) amplifiers, specifically designed to amplify our line-array systems, Maga Mini systems and permanent installations.

Our range of products completely covers the needs of the most demanding companies and professionals in the sector. Whatever your project, whatever your concerns, do not hesitate to consult our specialised staff, as you are sure to find a satisfactory solution to your needs in Maga Engineering® sound systems.

It is important to emphasize that, in addition to the aforementioned models already included in the **EASE® Focus 3** 3D acoustic simulation and prediction software, specifically the **ME10V**, **ME10V Wide**, **ME16V**, **ME20V** and **ME46V MKII (VERTICAL Series)**, the **ME121LEX** and **ME218LEX (SUB Series)**, and the **ME5SX** and **ME8S (SPOT Series)**, we are currently working to incorporate nearly our entire range of enclosures in the near future.

Furthermore, to ensure full compatibility between our systems and the “de facto” industry standards for top-tier touring, we are developing speaker libraries for our enclosures to be integrated into the **Lab.gruppen® PLM Series™** and **Powersoft® X Series™** amplifiers.

Another proof of our commitment to quality and a job well done is the availability of a laser inclinometer (optional) on the rigging frame of our line-array systems, not to mention aspects such as the **5-year limited warranty on all passive Maga Engineering® products**.

Finally, before entering the products section, you will find a text called “About us”, where you can see our company origins and philosophy. Although, really, everything could be summarized in a few words: Quality, Performance, Reliability and Confidence. All at the service of our greatest passions, which are SOUND and MUSIC.

We hope you enjoy reading.

MAGA ENGINEERING



ABOUT US

Maga Engineering® is a company dedicated to the design and manufacture of high-end acoustic cabinets and PA systems in Spain. **Our goal is clear and well defined: to produce professional audio systems of the highest performance with unbeatable value for money.**

We strongly believe that it is possible to offer premium sound systems at honest prices, without charging excessive mark-ups or incurring in enormous marketing costs. When you invest in a Maga Engineering system, you are betting on a high-level electroacoustic engineering product forged with the most advanced components available.

All our acoustic cabinets are designed from the initial sketch with the aim of offering the best results allowed by state-of-the-art technologies. At Maga Engineering, we only use the best drivers and components in the market. We carry out thousands of laboratory tests to thoroughly evaluate performance, sound pressure and tone quality. Electronics, enclosures, transducers... all parts are carefully assessed so that the whole system works perfectly.

The Maga Engineering® systems are extremely versatile and offer real high-fidelity quality. All our passive filters are crafted with premium electronic components.

The **VERTICAL Series** line array enclosures (**ME10V**, **ME10V Wide**, **ME16V**, and **ME20V**) offer exceptional versatility through multiple configuration options. The **ME10V** line array element can be easily stacked or flown, offering a high return on investment for rental companies. Its great flexibility in assembly allows for the production of all types of small- and medium-format events using a single enclosure model. Despite its extraordinarily compact size and low weight (**24 kg**), it delivers high performance, reaching a **peak SPL of 137 dB @ 1 m**. This reduction in weight and footprint provides a significant advantage for logistics and transport, while also greatly simplifying the rigging and installation process. This enclosure is available in two versions: the **ME10V** model, with **90° horizontal dispersion**, and the **ME10V Wide**, with **120° horizontal dispersion**.

The new addition to the **VERTICAL Series** is the **ME16V** line array element, featuring **dual 8" drivers** and a **1.4" compression driver** in a remarkably compact and lightweight (**24.5 kg**) package. As versatile as the **ME10V**, this new model is **more advanced and powerful**. It features a **three-point rigging system** and achieves an extraordinary **peak SPL of 138 dB @ 1 m**, while maintaining the brand's superb sonic signature. In addition to its **custom passive crossover**, the unit can be easily **bi-amplified** by manually adjusting an internal connection to bypass the passive filter.

Specifically engineered for medium to large-scale events, the **ME20V** is a 3-way enclosure optimized into a 2-way system via a high-performance passive crossover. It houses **two 10" drivers** and a **3.5" + 1.75" coaxial driver**, ensuring perfect time alignment and phase coherence. Despite its high output, its optimized size and weight (**33 kg**) make it as manageable and versatile as its smaller siblings. **It delivers a stunning peak SPL of 141 dB @ 1 m.**

Combining **VERTICAL Series** enclosures with our **SUB Series** subwoofers, the **ME121LEX (single 21", peak SPL of 138 dB @ 1 m)** and **ME218LEX (dual 18", peak SPL of 141 dB @ 1 m)**, allows for the creation of line array configurations of any size, from small-scale applications to large touring systems, all with superb sound quality. For further information, please consult the **Line Array Configurations** document.

The series is completed by the **ME46V MKII**, a compact passive column-array. **Its performance (137 dB peak @ 1 m) and hi-fi grade sound quality are exceptional.** The enclosure features **four 6.5" drivers** and **three 1" drivers**, integrated into a 1-way system via a custom passive crossover.

All our VERTICAL Series line array enclosures, as well as the ME121LEX (single 21") and ME218LEX (dual 18") subwoofers from the SUB Series, are fully supported by EASE® Focus 3 3D acoustic simulation and prediction software.

The wide range of Maga Engineering products includes four high-performance floor monitors in the **WEDGE Series (ME12WAX, ME12WX, ME15WAX and ME15WX)**, several acoustic cabinets for point-source PA and monitor applications in the **SPOT Series (ME5SX, ME8SA MKII, ME8S, ME12SA and ME12S)** and a high-performance cabinet for point-source or horizontal curvilinear array in the **HORIZON Series (ME12Z)**. We also offer the high-performance sets **ME12Z/ME218FH** (passive) and **ME12Z/ME218FHA** (powered),

ideal for **DJ/CLUB** applications thanks to their spectacular sound pressure levels (**134 dB peak @ 1 m** for the **ME12Z** and **139 dB peak @ 1 m** for the **ME218FH** and **ME218FHA** subwoofers).

The **SPOT Series** models (**ME5SX, ME8SA MKII, ME8S, ME12SA** and **ME12S**) deliver a level of performance and quality that stands out as absolutely phenomenal for their small size. The **ME5SX** and **ME8S** models, **are fully supported by EASE® Focus 3 3D acoustic simulation and prediction software.** Complemented with the 15" (**ME115SNDAMKII, ME115SND, ME115SNDX**) and 18" (**ME118SND, ME118SND**) subwoofers in our **SUB Series**, these **SPOT** cabinets work as perfect mini-PA solutions for situations where a traditional line-array system is not necessary, always preserving the pristine sound and high-fidelity timbre that define us. For more details, please take a look at the **Maga Mini Configurations** document.

Last but not least, our **BROADCAST Series** includes the **ME10BA** monitor, specifically designed for mixing and audiovisual post-production studios.

Behind Maga Engineering is a team of electronic and acoustic engineers with a deep mastery of legacy and cutting-edge PA technologies. Above all, we are a group of audiophiles who refuse to accept that large-format audio must sound "harsh" or "brittle."

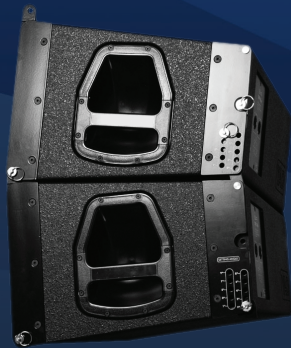
We develop our systems with the conviction that a professional PA can offer hi-fi levels of clarity without sacrificing maximum performance or SPL. Every product is the result of exhaustive R&D and laboratory testing to ensure the highest possible quality. We achieve this while never losing sight of the practical handling and operational needs of rental and event production firms that rely on our systems every day.



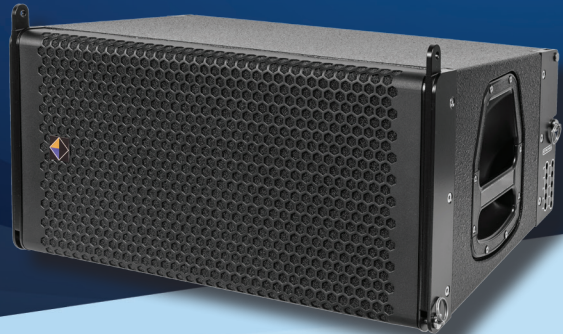
VERTICAL SERIES • ME10V

Compact line-array system with 90° horizontal dispersion

- Premium European components.
- Maximum SPL: 137 dB peak @ 1 m.
- Symmetrical L/R design guarantees acoustic symmetry.
- 2-way cabinet (1 x 10", 2 x 0.8" drivers).
- Custom passive crossover featuring HEPC® (High-End Phase Coherence) filtering technology for superior phase alignment, built with premium-grade electronic components.
- Design based on low-curvature flat wavefront.
- Cabinet with asymmetrical pattern of 90° horizontal dispersion.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Adjustable splay angles in ten steps from 0° to 9°.
- Optional digital laser inclinometer kit for fly bar/bumper installation.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



HEPC
HIGH-END PHASE COHERENCE





TECHNICAL SPECIFICATIONS

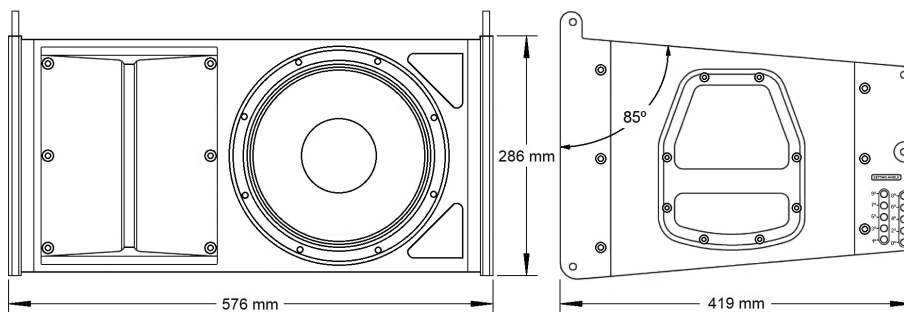
Frequency Response:	50 Hz - 20 KHz
Maximum SPL:	137 dB Peak @ 1m (with V2 filter, measured with M-Noise)
LF/HF Sensitivity (1W @ 1m):	102 dB
Power Handling (Continuous):	500 W AES
Recommended amplification:	600 W
Rated impedance:	16 Ω
Nominal dispersion angle (-6 dB):	Horizontal: 90° / Vertical: defined by the array (min. 20°)
Bass components:	1 x 10" neodymium, 450 W AES
Treble components:	2 x 0.8" neodymium, 40 W AES each

DIMENSIONS

Front (width/height):	576 x 286 mm
Depth:	419 mm
Net weight:	24 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



DIMENSIONS

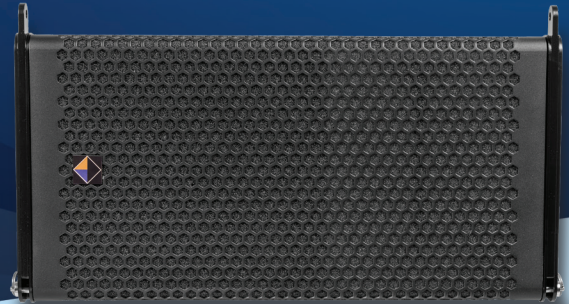


VERTICAL SERIES • ME10V Wide

Compact line-array system with 120° horizontal dispersion

- Premium European components.
- Maximum SPL: 137 dB peak @ 1 m.
- Symmetrical L/R design guarantees acoustic symmetry.
- 2-way cabinet (1 x 10", 2 x 0.8" drivers).
- Custom passive crossover featuring HEPC® (High-End Phase Coherence) filtering technology for superior phase alignment, built with premium-grade electronic components.
- Design based on low-curvature flat wavefront.
- Cabinet with asymmetrical pattern of 120° horizontal dispersion.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Adjustable splay angles in ten steps from 0° to 9°.
- Optional digital laser inclinometer kit for fly bar/bumper installation.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.

Features a white 120° diffuser,
distinguishing it from the
standard ME10V version.





TECHNICAL SPECIFICATIONS

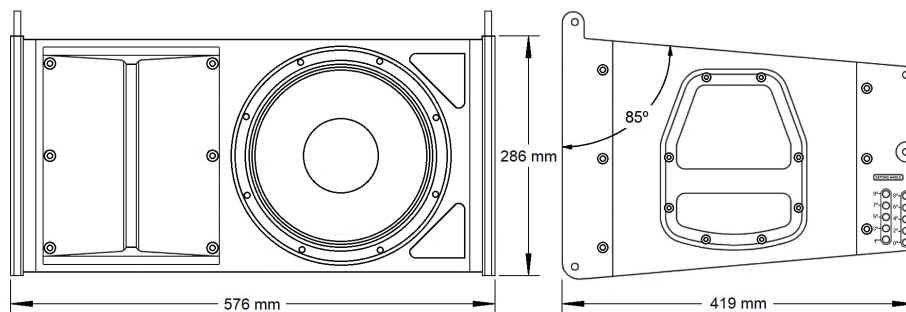
Frequency Response:	50 Hz - 20 KHz
Maximum SPL:	137 dB Peak @ 1m (with V2 filter, measured with M-Noise)
LF/HF Sensitivity (1W @ 1m):	102 dB
Power Handling (Continuous):	500 W AES
Recommended amplification:	600 W
Rated impedance:	16 Ω
Nominal dispersion angle (-6 dB):	Horizontal: 120° / Vertical: defined by the array (min. 20°)
Bass components:	1 x 10" neodymium, 450 W AES
Treble components:	2 x 0.8" neodymium, 40 W AES each

DIMENSIONS

Front (width/height):	576 x 286 mm
Depth:	419 mm
Net weight:	24 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



DIMENSIONS



VERTICAL SERIES • ME16V

Compact line-array system with 100° horizontal dispersion

- Premium European components.
- Maximum SPL: 138 dB peak @ 1 m.
- Two-way enclosure (2 x 8" LF and 1.4" HF compression driver) integrated into a single-way system via a custom passive crossover.
- Featuring HEPC® (High-End Phase Coherence) filtering technology for superior phase alignment, built with premium-grade electronic components.
- Easily switchable to bi-amp mode by manually adjusting an internal connection to bypass the passive crossover.
- 100° horizontal dispersion enclosure.
- Loudspeaker model included in EASE® Focus 3D acoustic simulation and prediction software.
- Adjustable splay angles in eleven steps from 0° to 10°.
- Optional digital laser inclinometer kit for fly bar/bumper installation.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.

HEPC
HIGH-END PHASE COHERENCE





TECHNICAL SPECIFICATIONS

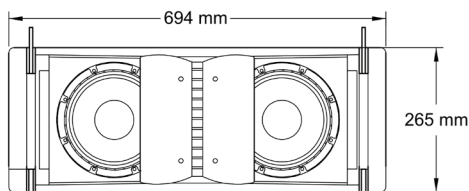
Frequency Response:	65 Hz - 20 kHz
Maximum SPL:	138 dB Peak @ 1m (Measured with M-Noise)
LF/HF Sensitivity (1W @ 1m):	105 dB (With passive crossover)
Power Handling (Continuous):	LF: 600 W AES (16 Ω) HF: 80 W AES (16 Ω)
Recommended amplification:	1200 W to 2500 W @ 8 Ω; performance and reliability are guaranteed exclusively through factory-programmed DSP presets.
Rated impedance:	16 Ω
Nominal dispersion angle (-6 dB):	Horizontal: 100° / Vertical: 10°
Bass components:	2 x 8" neodymium, 300 W AES each
Treble components:	1 x 1.4" neodymium compression driver, 80 W AES

DIMENSIONS

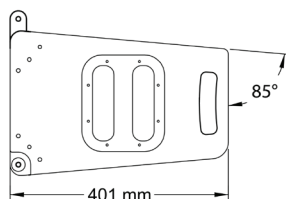
Front (width/height):	694 x 265 mm
Depth:	401 mm
Net weight:	24.5 kg
Connections:	2 x Neutrik® 4-pole speakON®, +1-1 connection (Via custom passive crossover); +1-1 bass / +2-2 mid-treble connection (Bi-amp Mode)



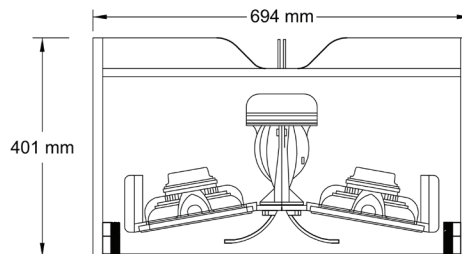
DIMENSIONS



FRONT VIEW



SIDE VIEW

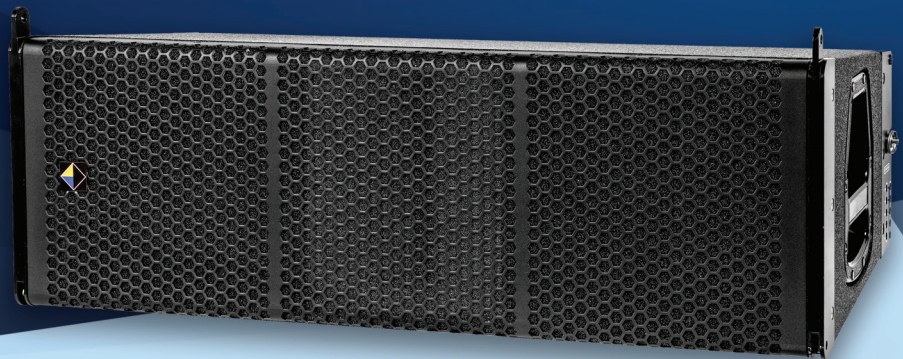


TOP VIEW

VERTICAL SERIES • ME20V

High-performance line-array system with 100° horizontal dispersion

- Premium European components.
- Maximum SPL: 141 dB peak @ 1m.
- Bi-amplified enclosure (2-way active, 3-way real) featuring 2 x 10" LF drivers and a 3.5" + 1.75" coaxial compression driver.
- Featuring HEPC® (High-End Phase Coherence) filtering technology for superior phase alignment, built with premium-grade electronic components.
- 100° horizontal dispersion enclosure.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Adjustable splay angles in ten steps from 0° to 9°.
- Optional digital laser inclinometer kit for fly bar/bumper installation.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

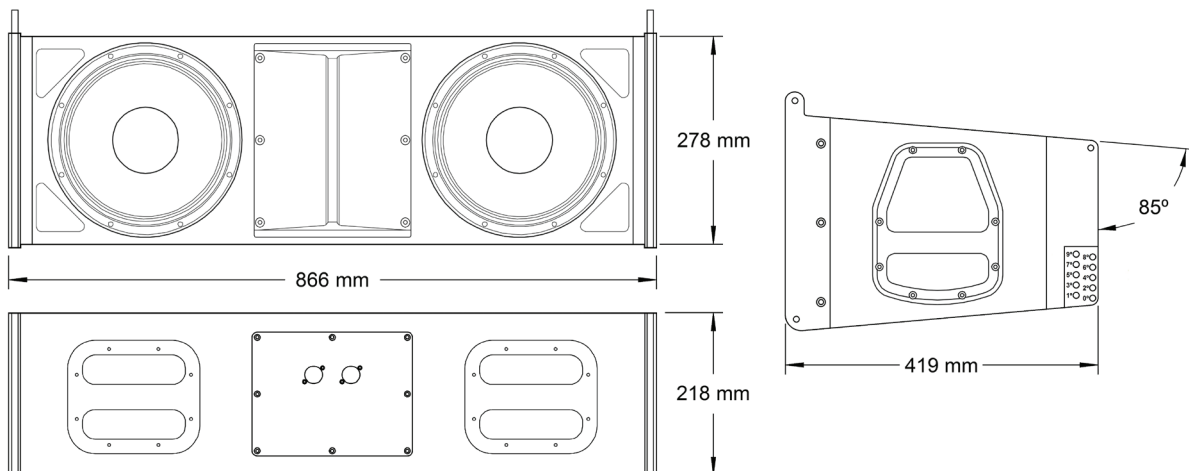
Frequency response:	50 Hz - 20 KHz
Maximum SPL:	141 dB Peak @ 1m (Measured with M-Noise)
LF/HF Sensitivity (1W @ 1m):	100 dB / 112 dB
Power Handling (Continuous):	LF: 1400 W AES (16 Ω) HF: 230 W AES (16 Ω)
Recommended amplification:	1600 W
Rated impedance:	16 Ω
Nominal dispersion angle (-6 dB):	Horizontal: 100° / Vertical: defined by the array (min. 20°)
Bass components:	2 x 10" neodymium, 700 W AES each
Treble components:	1 x 3.5" + 1 x 1.75" neodymium, 150 W + 80 W AES

DIMENSIONS

Front (width/height):	866 x 278 mm
Depth:	419 mm
Net weight:	33 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 bass / +2-2 mid-treble connection



DIMENSIONS



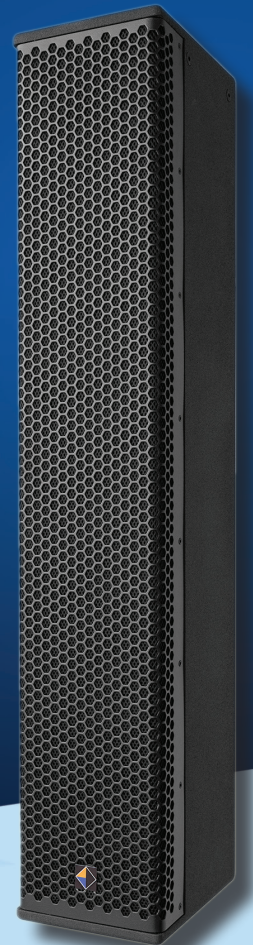
VERTICAL SERIES • ME46V MKII

Compact line-array passive column

- Premium European components.
- Maximum SPL: 137 dB peak @ 1 m.
- Exceptional hi-fi sound quality.
- Compact line-array column with 4 x 6.5" and 3 x 1". Reduced to 1 way by means of a custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- 130° horizontal dispersion / 30° vertical dispersion (asymmetrical).
- Ideal for permanent installations where the highest sound quality and voice intelligibility are critical (theatres, auditoria, etcetera). Also suitable for portable PA systems combined with our SUB Series subwoofers.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Socket for extension bar, mount for microbumper and rigging accessories.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



HEPC
HIGH-END PHASE COHERENCE





TECHNICAL SPECIFICATIONS

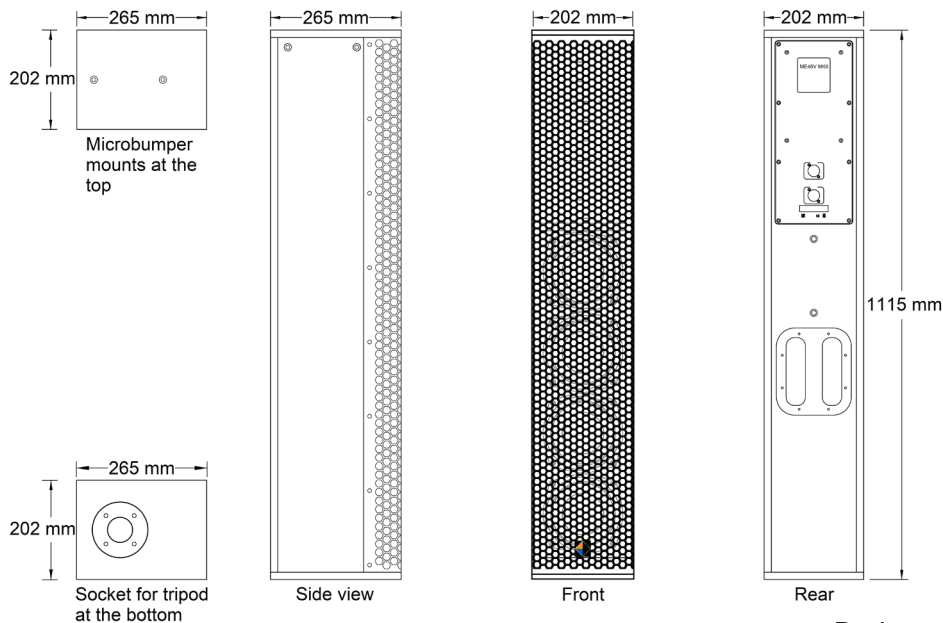
Frequency response (+/- 4 dB):	50 Hz - 20 KHz
Maximum SPL:	137 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	100 dB
Admissible power (continuous):	700 W AES, 8 Ω
Recommended amplification:	1000 W to 1500 W
Rated impedance:	8 Ω
Nominal dispersion angle (-6 dB):	Horizontal: 130° / Vertical: 30° (asymmetrical)
Bass components:	4 x 6.5" neodymium, 160 W AES each
Treble components:	3 x 1" neodymium, 60 W AES each

DIMENSIONS

Front (width/height):	202 x 1115 mm
Depth:	265 mm
Net weight:	23 kg
Connections:	2 x Neutrik® 4-pole speakON®, +1-1 connection



DIMENSIONS

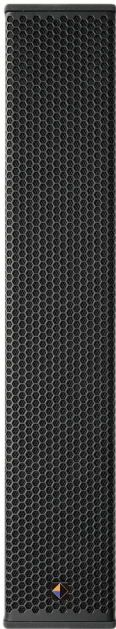


CONFIGURATIONS

The compact line-array column **ME46V MKII** from our **VERTICAL** Series is specifically designed to offer a degree of sonic excellence comparable to the standards of the hi-fi world. It has primarily been conceived for indoor permanent installations (theatres, auditoria, etcetera) where the highest sound quality and voice intelligibility are critical. However, thanks to its wide coverage and astounding performance (**137 dB peak @ 1 m**), it can be used in outdoor settings and also as part of portable PA systems when combined with our **SUB** Series subwoofers.

In particular, the **ME46V MKII / ME218FHA** setup delivers a level of performance and sound quality that stands out as absolutely phenomenal.

This column, remarkably lightweight (**23 kg**) and easy to handle, integrates a custom passive filter with HEPC® (High-End Phase Coherence) filtering technology that optimises the number of necessary amplification channels by reducing the output to 1 way. The recommended amplification for a set of 2 ME46V MKII units plus 2 SUB Series passive subwoofers is the Maga Engineering® **ME 10K** amplifier.



ME46V MKII line-array column



ME46V MKII line-array column stacked on a **ME115SNDX** subwoofer with extension bar



ME46V MKII line-array column stacked on a **ME118SND** subwoofer with extension bar

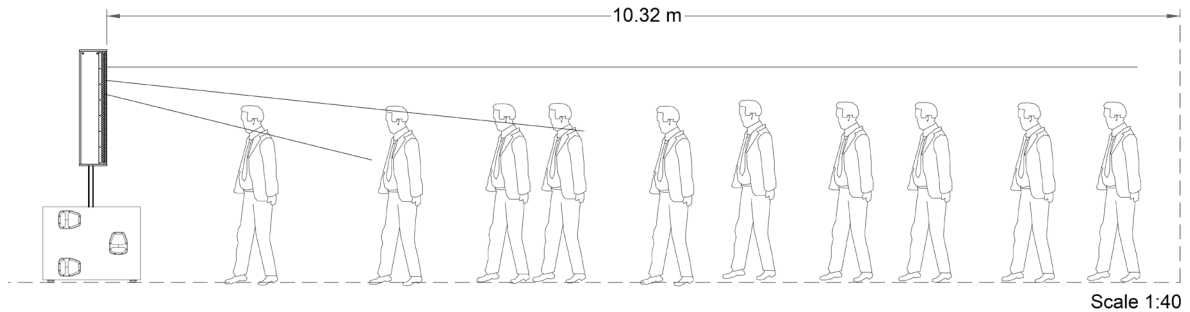


ME46V MKII line-array column stacked on a **ME218FHA** powered subwoofer with extension bar

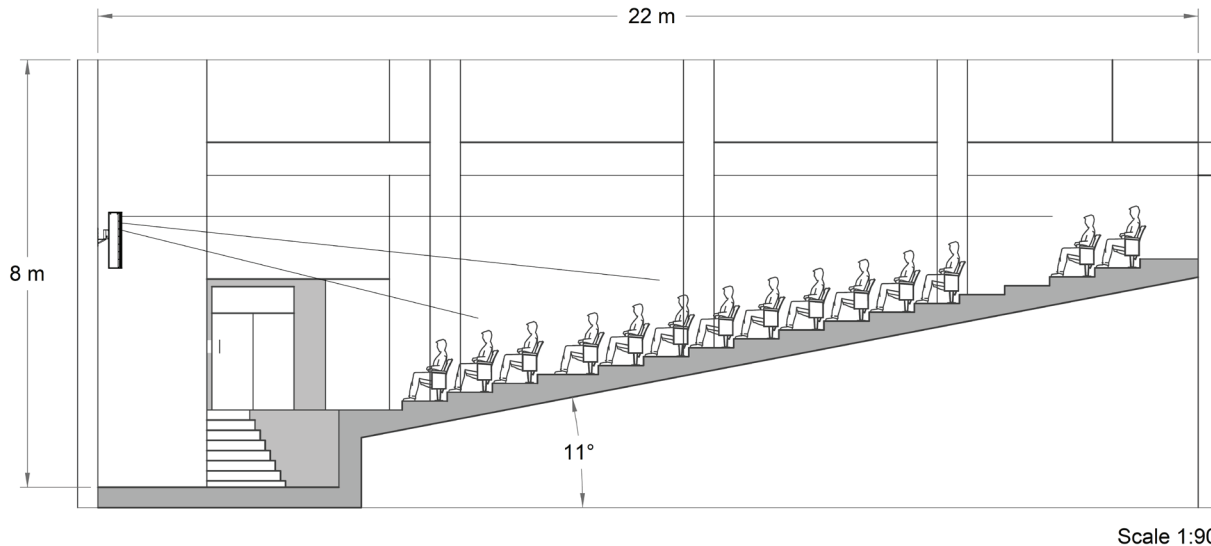
APPLICATIONS

The **ME46V MKII** compact line-array column from the **VERTICAL** Series is suitable for multiple applications, such as the two configurations suggested below:

1) Coverage with the **ME46V MKII** compact line-array column stacked on a **ME218FHA** subwoofer with extension bar.



2) Coverage for a medium-sized theatre or auditorium with the **ME46V MKII** compact line-array column in a wall mount setup.



SUB SERIES • ME115SNDA MKII

Multi-purpose 15" active subwoofer

- Premium European components.
- Maximum SPL: 129 dB peak @ 1 m.
- Single, compact-size ferrite 15" speaker.
- Ideal for portable PA systems combined with SPOT and WEDGE Series cabinets. Also perfect for permanent installations.
- Internal 1200 W Class D amplifier with built-in DSP and full digital processing (includes 4 user-selectable presets). Ethernet connection for updates and programming/control with the ArmoníaPlus® System Manager software.
- Auto-regulated power supply (90 V – 250 V).
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



ArmoníaPlus
System Manager





TECHNICAL SPECIFICATIONS

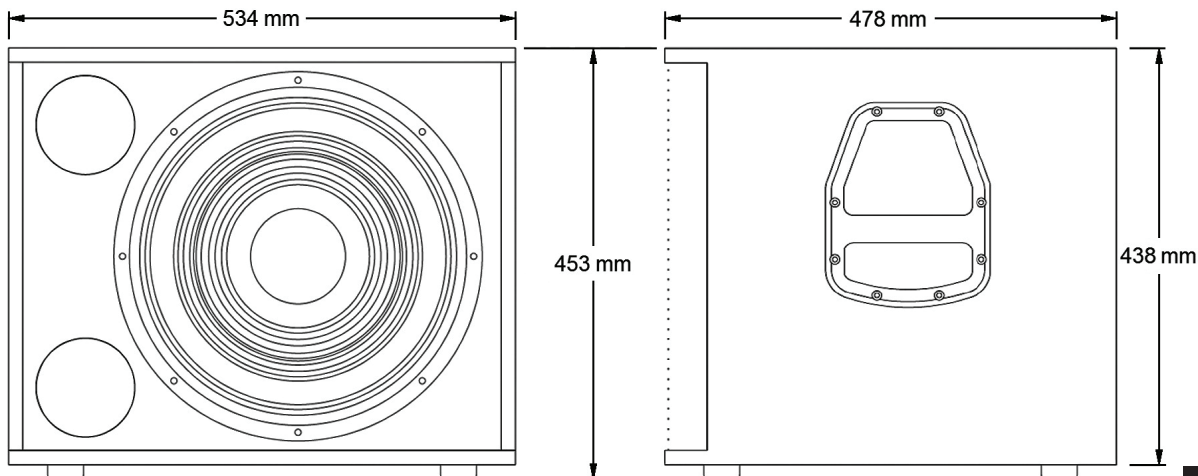
Frequency response:	35 Hz - 100 Hz (+/- 3 dB)
Maximum SPL:	129 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: 80 Hz cut Preset 2: 100 Hz cut Preset 3: 80 Hz cut with polarity inversion Preset 4: 100 Hz cut with polarity inversion
Amplification:	1200 W Class D amplifier at 8 Ω with full digital processing and control via Ethernet with the ArmoníaPlus® System Manager software; maximum network consumption 220 W; admissible voltage from 90 V to 264 V.
Components:	1 x 15" ferrite, 700 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	534 x 453 mm
Depth:	478 mm
Net weight:	28 kg
Connections:	2 x Neutrik® powerCON® TRUE male and female; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



SUB SERIES • ME115SND

Multi-purpose 15" passive subwoofer

- Premium European components.
- Maximum SPL: 131 dB peak @ 1 m.
- Single, compact-size ferrite 15" speaker.
- Ideal for portable PA systems combined with SPOT and WEDGE Series cabinets. Also perfect for permanent installations.
- 700 W AES power admission.
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

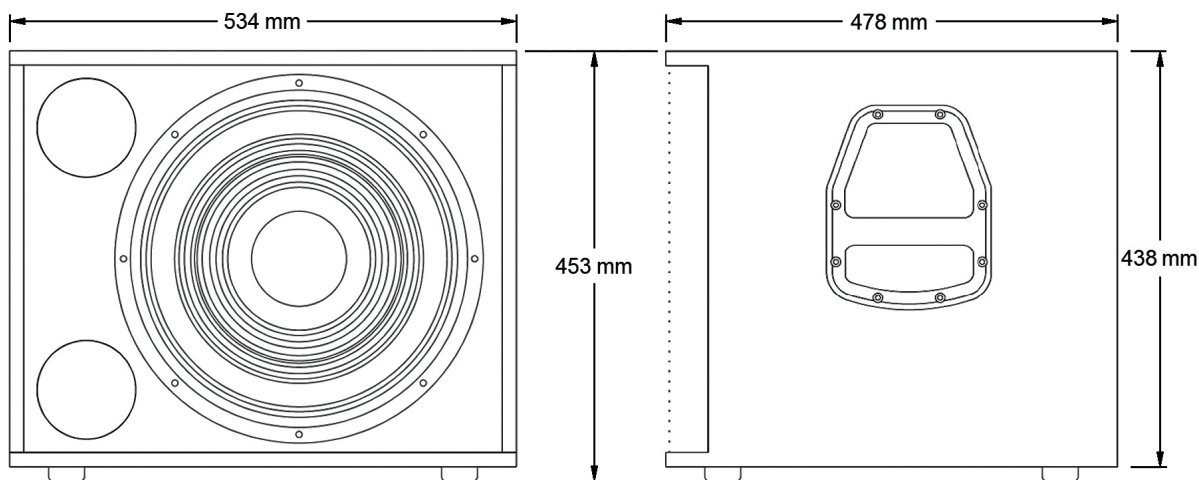
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	131 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	98 dB
Admissible power (continuous):	700 W AES
Recommended amplification:	400 W to 800 W
Rated impedance:	8 Ω
Components:	1 x 15" ferrite, 700 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	534 x 453 mm
Depth:	478 mm
Net weight:	25 kg
Connections:	2 x Neutrik® 4-pole speakON®, +1-1 connection



DIMENSIONS



SUB SERIES • ME115SNDX

High-performance 15" passive subwoofer

- Premium European components.
- Maximum SPL: 132 dB peak @ 1 m.
- Single, compact-size ferrite 15" speaker.
- Ideal for portable PA systems combined with SPOT and WEDGE Series cabinets. Also perfect for permanent installations.
- 1000 W AES power admission.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

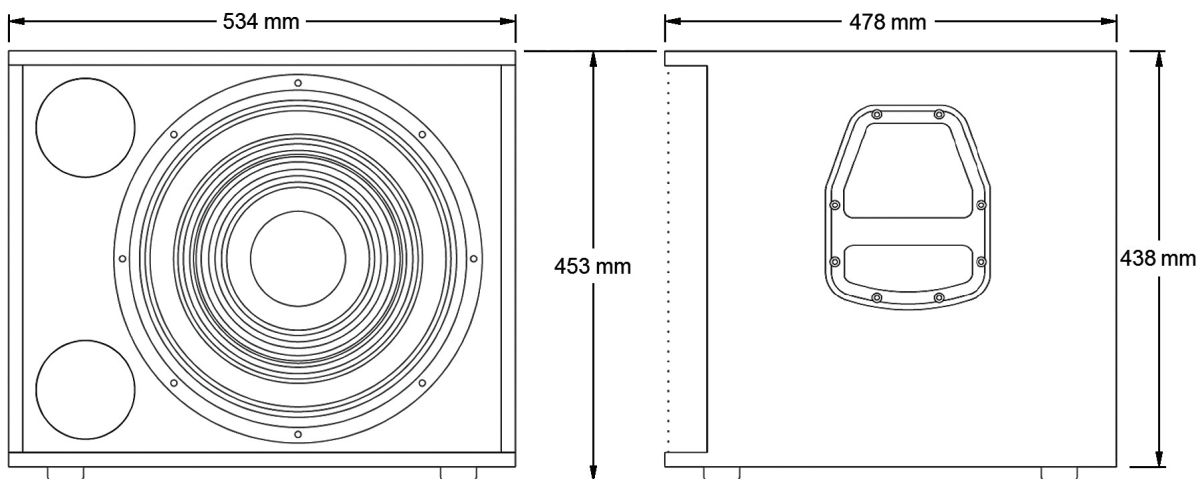
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	132 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	98 dB
Admissible power (continuous):	1000 W AES
Recommended amplification:	600 W to 1200 W
Rated impedance:	8 Ω
Components:	1 x 15" ferrite, 1000 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	534 x 453 mm
Depth:	478 mm
Net weight:	25 kg
Connections:	2 x Neutrik [®] 4-pole speakON [®] ; +1-1 connection



DIMENSIONS



SUB SERIES • ME118SNDA

High-performance 18" active subwoofer

- Premium European components.
- Maximum SPL: 134 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeaker, featuring advanced cooling (MALTCROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- Ideal for portable PA systems combined with the ME12SA cabinets in our SPOT Series.
- Internal 1200 W Class D amplifier with built-in DSP and full digital processing (includes 4 user-selectable presets). Ethernet connection for updates and programming/control with the ArmoníaPlus® System Manager software.
- Auto-regulated power supply (90 V – 264 V).
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



ArmoníaPlus
System Manager





TECHNICAL SPECIFICATIONS

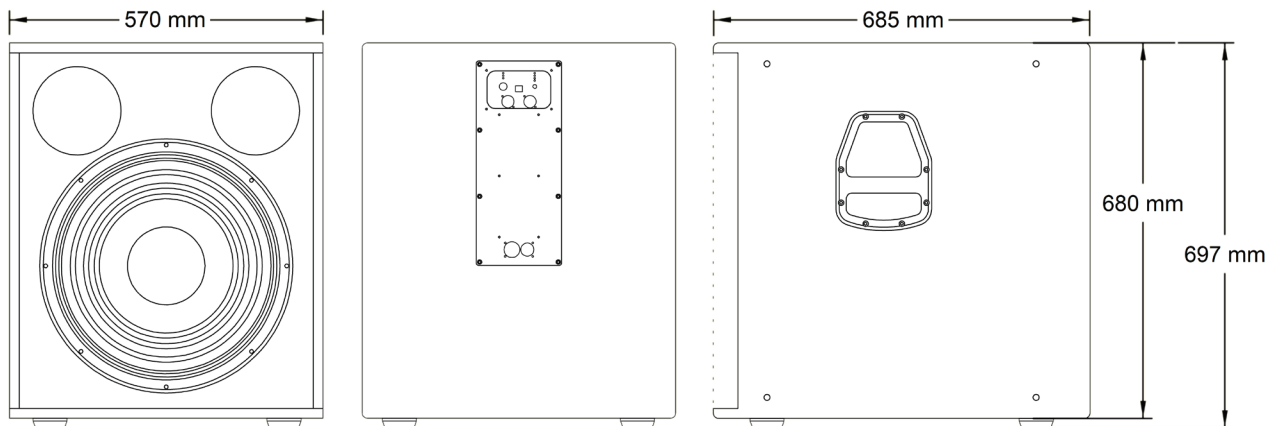
Frequency response:	35 Hz - 100 Hz (+/- 3 dB)
Maximum SPL:	134 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: 80 Hz cut Preset 2: 100 Hz cut Preset 3: 90 Hz for ME46VA (coming soon) Preset 4: 80 Hz cut with polarity inversion
Amplification:	1200 W Class D amplifier at 8 Ω with full digital processing and control via Ethernet with the ArmoniaPlus® System Manager software. Maximum network consumption 220 W. Admissible voltage from 90 V to 264 V.
Components:	1 x 18" neodymium, 1000 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	570 x 697 mm
Depth:	685 mm
Net weight:	48 kg
Connections:	2 x Neutrik® powerCON® TRUE male and female; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



SUB SERIES • ME118SND

High-performance 18" passive subwoofer

- Premium European components.
- Maximum SPL: 136 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeaker, featuring advanced cooling (MALTCROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- Subwoofer designed with an internal metal reinforcement structure; prepared for rigging with optional bumper and accessories kit.
- Ideal for PA systems in permanent installations (theatres, auditoria, etcetera) combined with line-array ME16V cabinets in the VERTICAL Series. Also suitable for portable PA systems together with the SPOT Series ME12S and VERTICAL Series ME46V MKII cabinets.
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

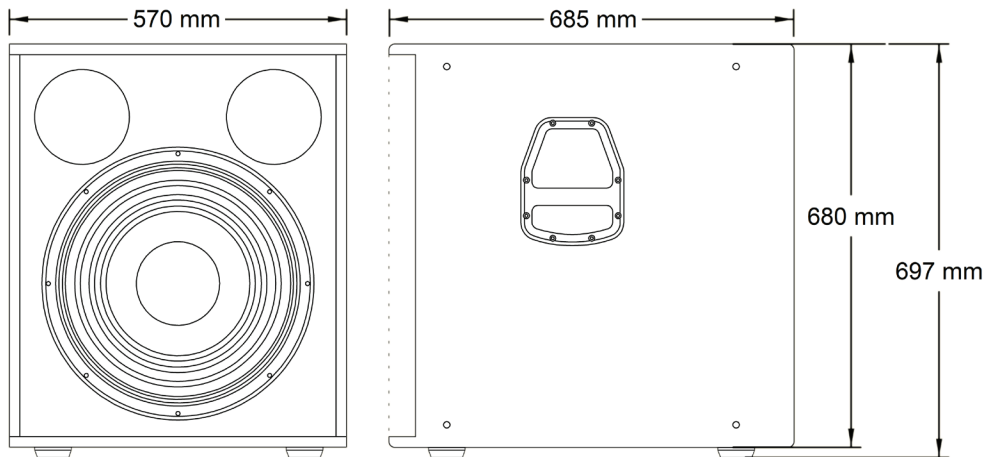
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	136 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	98 dB
Admissible power (continuous):	1000 W AES
Recommended amplification:	800 W to 2000 W
Rated impedance:	8 Ω
Components:	1 x 18" neodymium, 1000 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	570 x 697 mm
Depth:	685 mm
Net weight:	46 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



DIMENSIONS



SUB SERIES • ME118LEX

High-performance 18" passive subwoofer

- Premium European components.
- Maximum SPL: 137 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeaker, featuring advanced cooling (MALTROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- Subwoofer designed with an internal metal reinforcement structure; prepared for rigging with optional bumper and accessories kit.
- Ideal for PA systems in permanent installations (theatres, auditoria, etcetera) combined with line-array ME16V cabinets in the VERTICAL Series. Also suitable for portable PA systems together with the SPOT Series ME12S and VERTICAL Series ME46V MKII cabinets.
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

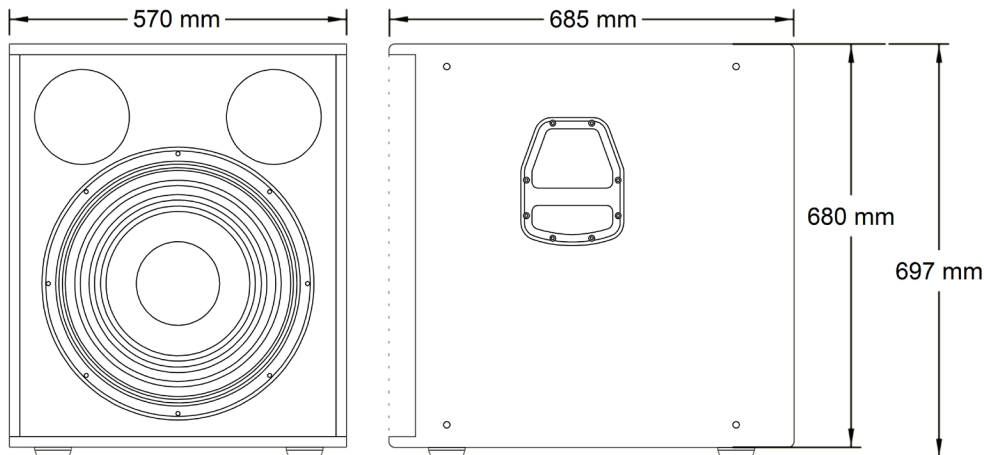
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	137 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	99 dB
Admissible power (continuous):	1600 W AES
Recommended amplification:	800 W to 2200 W
Rated impedance:	8 Ω
Components:	1 x 18" neodymium, 1600 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	570 x 697 mm
Depth:	685 mm
Net weight:	46 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



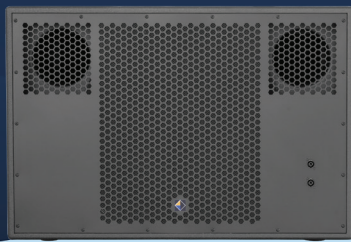
DIMENSIONS



SUB SERIES • ME121LEX

High-performance 21" passive subwoofer

- Premium European components.
- Maximum SPL: 138 dB peak @ 1 m.
- Next-generation 21" neodymium loudspeaker, featuring advanced cooling (MALTCROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- 1600 W AES power admission.
- Front-mounted speakON® connector for easy use in cardioid configurations.
- Ideal for PA systems in combination with ME16V and ME20V line array enclosures from the VERTICAL Series, suitable for both touring and permanent installations (theaters, auditoriums, etc.).
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Special rubber feet to avoid vibrations and displacements.
- Optional rigging hardware.
- Nut pre-installation for 4 x 100 mm GUITEL® wheels.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





ESPECIFICACIONES TÉCNICAS

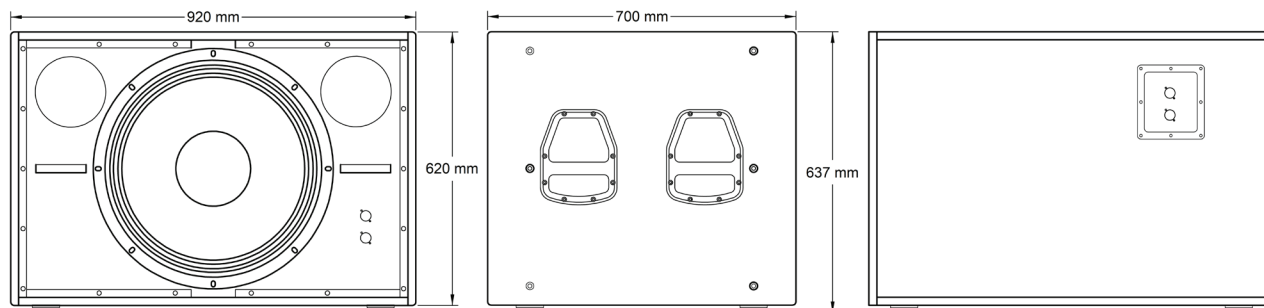
Frequency response:	30 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	138 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	100 dB
Admissible power (continuous):	1600 W AES
Recommended amplification:	2000 W to 5000 W
Rated impedance:	8 Ω
Components:	1 x 21" neodymium, 1600 W AES, 8 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	920 x 637 mm
Depth:	700 mm
Net weight:	67 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection Front-mounted speakON® connector for easy use in cardioid configurations



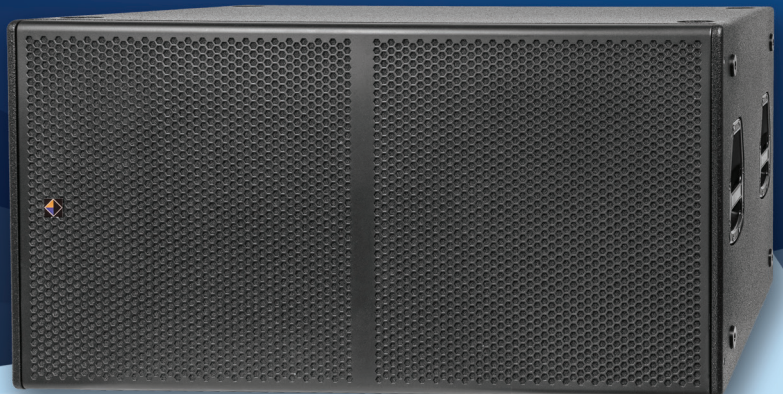
DIMENSIONES



SUB SERIES • ME218SNDX

Dual 18" passive subwoofer

- Premium European components.
- Maximum SPL: 139 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeakers, featuring advanced cooling (MALTCROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- 2000 W AES power admission.
- Special rubber feet to avoid vibrations and displacements.
- Designed for both horizontal and vertical placement.
- Nut pre-installation for 4 x 100 mm GUITEL® wheels.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

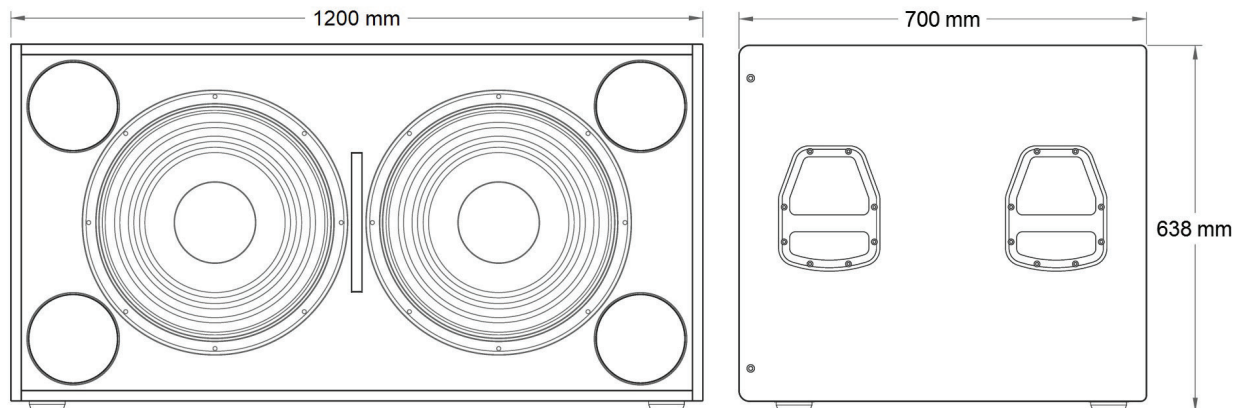
Frequency response:	40 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	139 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	101 dB
Admissible power (continuous):	2000 W AES
Recommended amplification:	1400 W to 2800 W
Rated impedance:	4 Ω
Components:	2 x 18" neodymium, 1000 W AES each

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	1200 x 638 mm
Depth:	700 mm
Net weight:	89 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



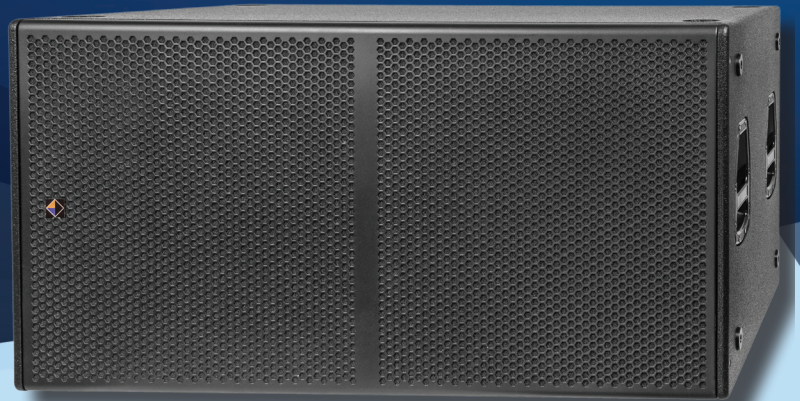
DIMENSIONS



SUB SERIES • ME218LEX

High-performance dual 18" passive subwoofer

- Premium European components.
- Maximum SPL: 141 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeaker, featuring advanced cooling (MALTCROSS® technology) and reduced power compression losses. This ensures more consistent SPL levels throughout extended periods of operation.
- High power admission (3200 W AES).
- Ideal for PA systems in combination with ME16V and ME20V line array enclosures from the VERTICAL Series, suitable for both touring and permanent installations (theaters, auditoriums, etc.).
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Special rubber feet to avoid vibrations and displacements.
- Designed for horizontal and vertical placement.
- Nut pre-installation for 4 x 100 mm GUITEL® wheels.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

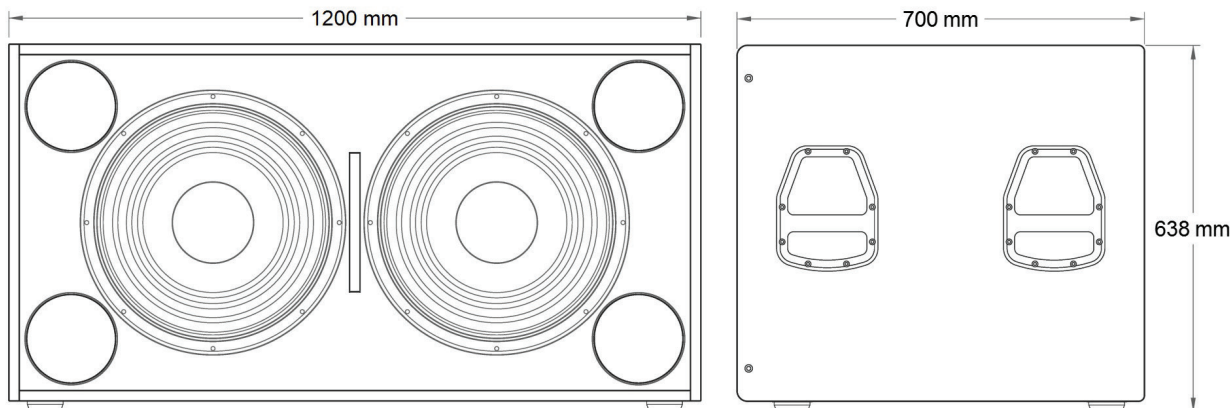
Frequency response:	40 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	141 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	100 dB
Admissible power (continuous):	3200 W AES
Recommended amplification:	2000 W to 4000 W
Rated impedance:	4 Ω
Components:	2 x 18" neodymium, 1600 W AES each

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	1200 x 638 mm
Depth:	700 mm
Net weight:	93 kg
Connections:	2 x Neutrik® 4-pole speakON®; +1-1 connection



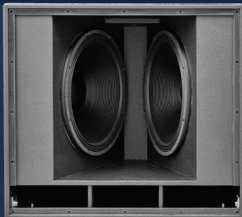
DIMENSIONS



SUB SERIES • ME218FHA

High-performance dual 18" active subwoofer

- Premium European components.
- Maximum SPL: 139 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeakers.
- Ideal for portable PA systems combined with the ME46V MKII cabinets in the VERTICAL Series, and for DJ settings together with the ME12Z model in the HORIZON Series.
- Internal 3000 W + 3000 W Class D amplifier with built-in DSP.
- Auto-regulated power supply (85 V – 265 V).
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- 100 mm GUITEL® wheels installed on the rear panel for easier transport.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

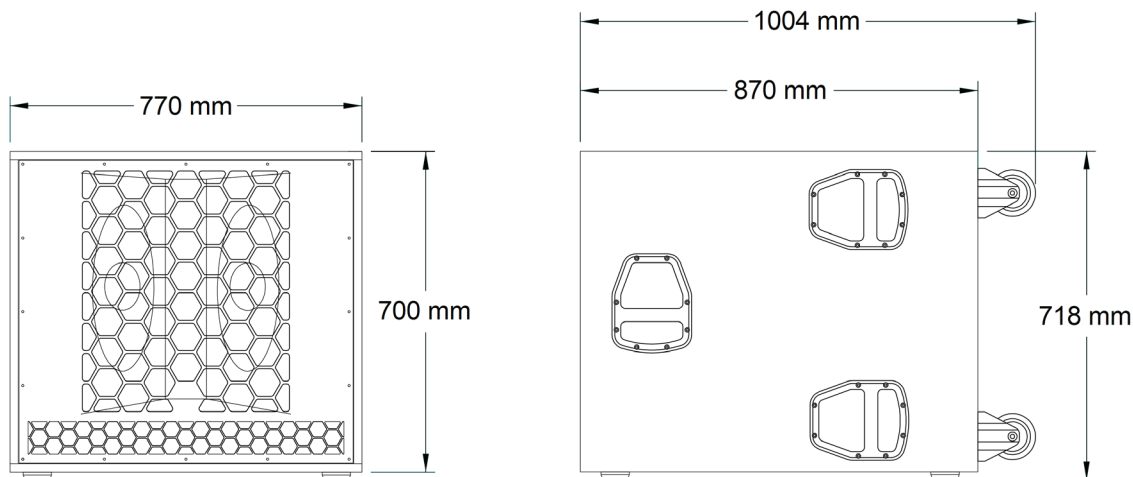
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	139 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: for connection to 1 ME12Z unit Preset 2: for connection to 1 ME46V MKII unit Preset 3: for connection to a cluster of 2 ME16V units Preset 4: for operation as external subwoofer
Amplification:	2 x 3000 W Class D amplifiers at 4 Ω each. Bi-amplified stage with full digital processing. Maximum network consumption 220 W. Admissible voltage from 85 V to 265 V.
Components:	2 x 18" neodymium, 1000 W AES each

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	770 x 718 mm
Depth:	870 mm (1004 mm including wheels)
Net weight:	90 kg
Connections:	XLR input, XLR link, Neutrik® powerCON® TRUE input-output, USB, 2 x RJ45 Ethernet



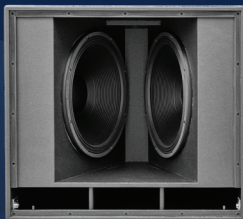
DIMENSIONS



SUB SERIES • ME218FH

High-performance dual 18" passive subwoofer

- Premium European components.
- Maximum SPL: 139 dB peak @ 1 m.
- Next-generation 18" neodymium loudspeakers.
- Ideal for portable PA systems combined with the ME46V MKII cabinets in the VERTICAL Series, and for DJ settings together with the ME12Z model in the HORIZON Series.
- High power admission (2000 W AES).
- Special rubber feet to avoid vibrations and displacements.
- Socket for extension bar in top panel.
- 100 mm GUITEL® wheels installed on the rear panel for easier transport.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

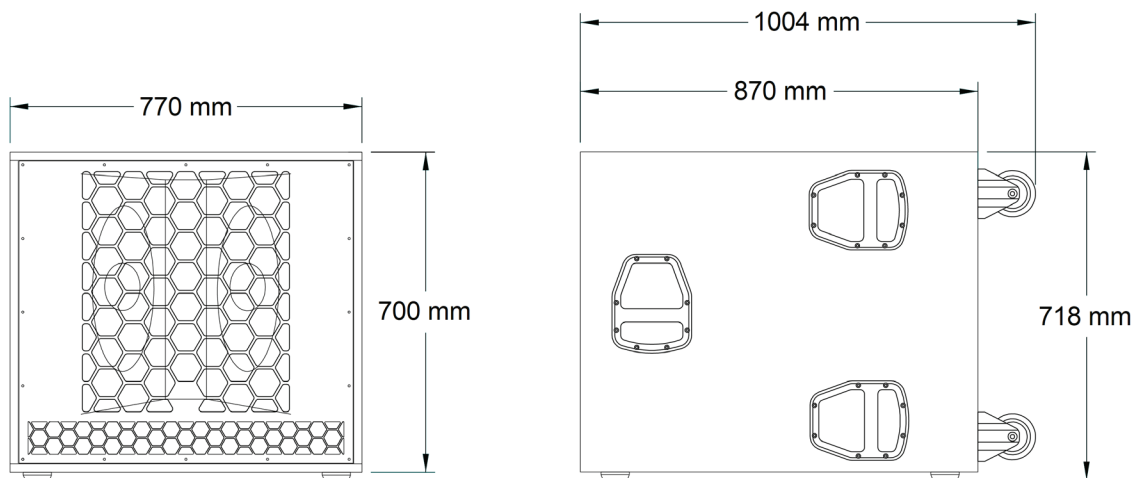
Frequency response:	35 Hz - 200 Hz (+/- 3 dB)
Maximum SPL:	139 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	100 dB
Admissible power (continuous):	2000 W AES
Recommended amplification:	1500 W to 2500 W
Rated impedance:	4 Ω
Components:	2 x 18" neodymium, 1000 W AES each

DIMENSIONS (INCLUDING RUBBER FEET)

Front (width/height):	770 x 718 mm
Depth:	870 mm (1004 mm including wheels)
Net weight:	88 kg
Connections:	2 x Neutrik® 4-pole speakON®, +1-1 connection



DIMENSIONS



WEDGE SERIES • ME12WAX

Multi-purpose active stage monitor

- Premium European components.
- Maximum SPL: 128 dB peak @ 1 m.
- Powered stage monitor with coaxial driver (1 x 12" + 1 x 2.84").
- Low feedback.
- Excellent performance as monitor.
- Includes 800 W + 200 W Class D amplifier.
- Light weight (19.5 kg).
- Full internal digital processing (includes 4 user-selectable presets) and Ethernet connection for updates and programming/control with the ArmoníaPlus® System Manager software.
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



ArmoníaPlus
System Manager





TECHNICAL SPECIFICATIONS

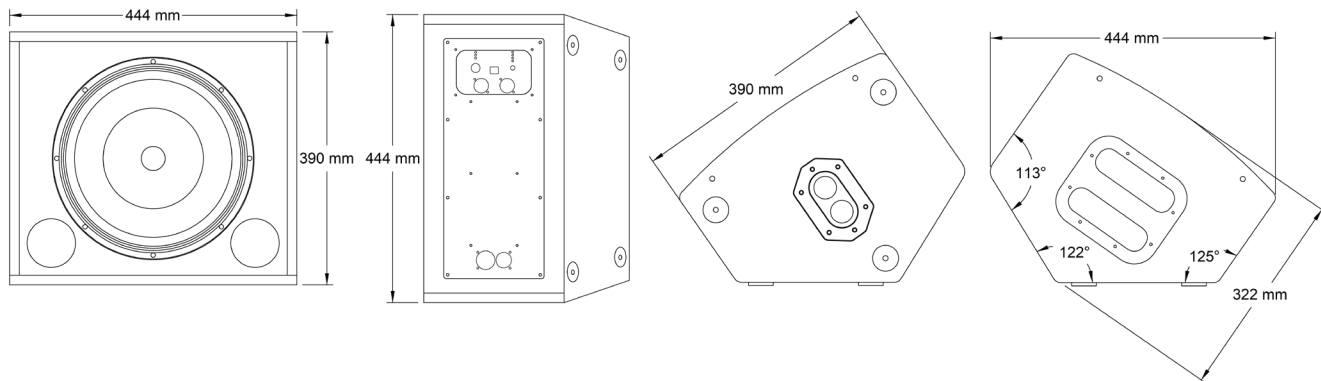
Frequency response:	52 Hz – 20 KHz (+/- 2 dB in preset 4)
Maximum SPL:	128 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: full-range Preset 2: floor monitor Preset 3: 100 Hz cut for use with subwoofer Preset 4: flat
Nominal dispersion angle:	60° conical
Amplification:	800 W Class D amplifier at 4 Ω (12" speaker) + 200 W at 16 Ω (2.84" driver) with full digital processing and control via Ethernet with the ArmoníaPlus® System Manager software. Maximum network consumption 220 W. Admissible voltage from 90 V to 264 V.
Bass components:	1 x 12" neodymium, 500 W AES, 8 Ω
Treble components:	1 x 2.84" neodymium, 90 W AES, 16 Ω

DIMENSIONS

Front:	444 x 390 mm
Rear:	321.67 mm
Net weight:	19.5 kg
Connections:	2 x Neutrik® powerCON® TRUE male and female; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



WEDGE SERIES • ME12WX

Multi-purpose passive stage monitor

- Premium European components.
- Maximum SPL: 128 dB peak @ 1 m.
- Passive stage monitor with 1 x 12" + 1 x 2.84" coaxial driver.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- PA/monitor position.
- Excellent performance as monitor.
- Low feedback.
- Light weight (21.3 kg).
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



Armonía+Plus
System Manager





TECHNICAL SPECIFICATIONS

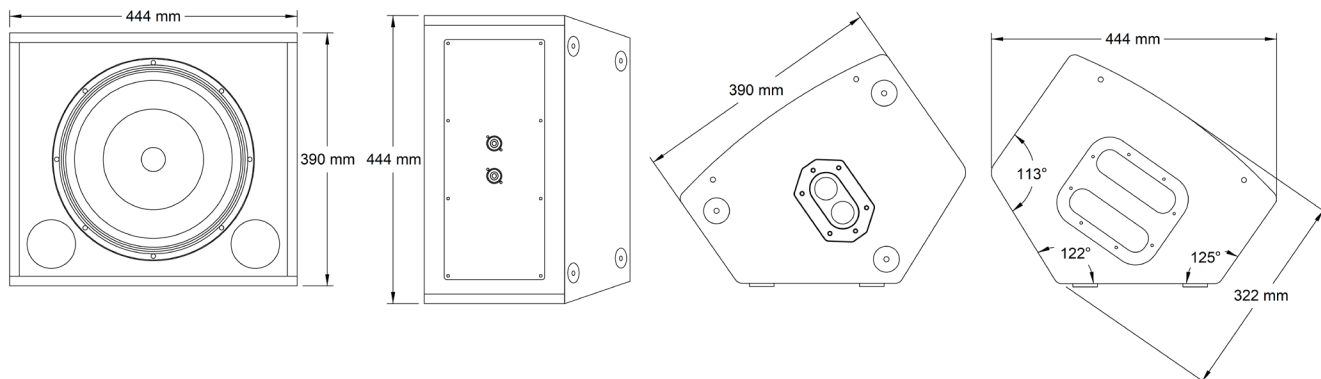
Frequency response:	52 Hz – 20 KHz (+/- 3 dB)
Maximum SPL:	128 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	96 dB
Nominal dispersion angle:	60° conical
Recommended amplification:	600 W to 1000 W
Bass components:	1 x 12" ferrite, 500 W AES, 8 Ω
Treble components:	1 x 2.84" neodymium, 90 W AES, 16 Ω

DIMENSIONS

Front:	444 x 390 mm
Rear:	321.67 mm
Net weight:	21.3 kg
Connections:	2 x Neutrik® speakON®



DIMENSIONS

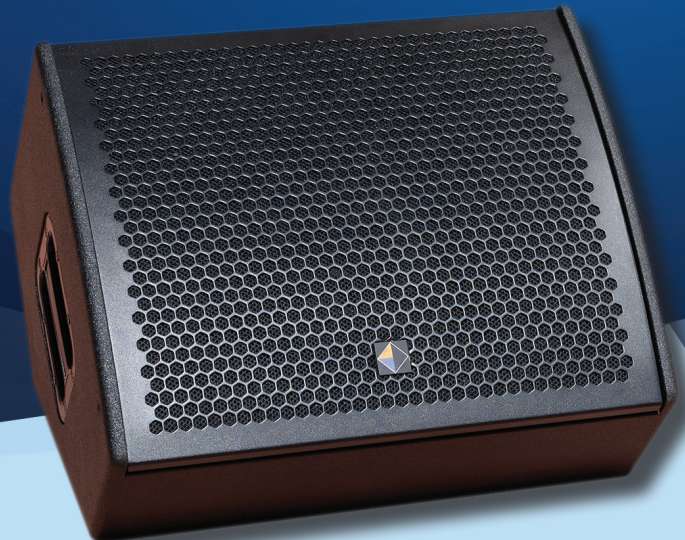


WEDGE SERIES • ME15WAX

High-performance active stage monitor

- Premium European components.
- Maximum SPL: 132 dB peak @ 1 m.
- Powered stage monitor with coaxial driver (1 x 15" + 1 x 2.84").
- Low feedback.
- Excellent performance as monitor.
- Includes 800 W + 200 W Class D amplifier.
- Light weight (23 kg).
- Full internal digital processing (includes 4 user-selectable presets) and Ethernet connection for updates and programming/control with the ArmoníaPlus® System Manager software.
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.

ArmoníaPlus
System Manager





TECHNICAL SPECIFICATIONS

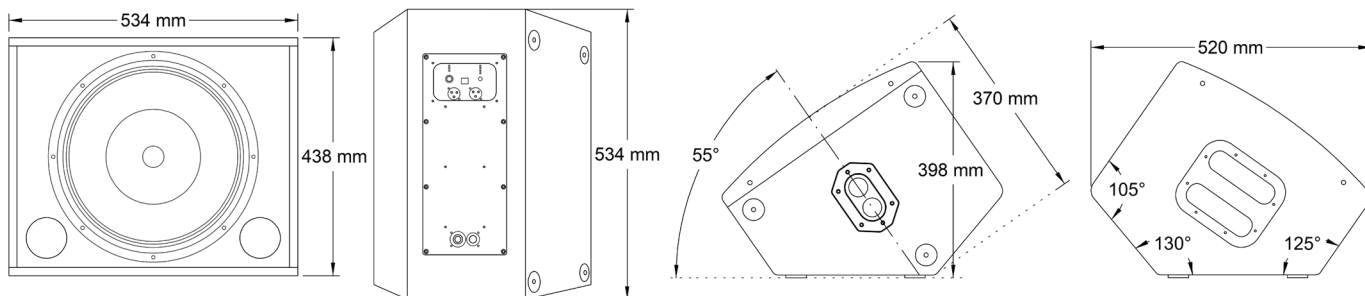
Frequency response:	45 Hz – 20 KHz (+/- 2 dB in preset 4)
Maximum SPL:	132 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: full-range Preset 2: floor monitor Preset 3: 100 Hz cut for use with subwoofer Preset 4: flat
Nominal dispersion angle:	60° conical
Amplification:	800 W Class D amplifier at 4 Ω (15" speaker) + 200 W at 16 Ω (2.84" driver) with full digital processing and control via Ethernet with the ArmoníaPlus® System Manager software. Maximum network consumption 220 W. Admissible voltage from 90 V to 264 V.
Bass components:	1 x 15" neodymium, 500 W AES, 8 Ω
Treble components:	1 x 2.84" neodymium, 90 W AES, 16 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front:	444 x 390 mm
Rear:	370 mm
Net weight:	23 kg
Connections:	2 x Neutrik® powerCON® TRUE male and female; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



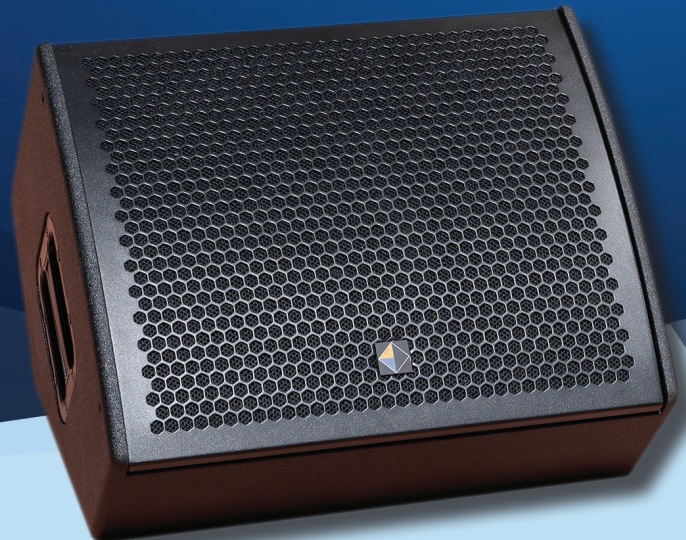
WEDGE SERIES • ME15WX

High-performance passive stage monitor

- Premium European components.
- Maximum SPL: 132 dB peak @ 1 m.
- Passive stage monitor with 1 x 15" + 1 x 2.84" coaxial driver.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- PA/monitor position.
- Excellent performance as monitor.
- Low feedback.
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



Armonía+Plus
System Manager





TECHNICAL SPECIFICATIONS

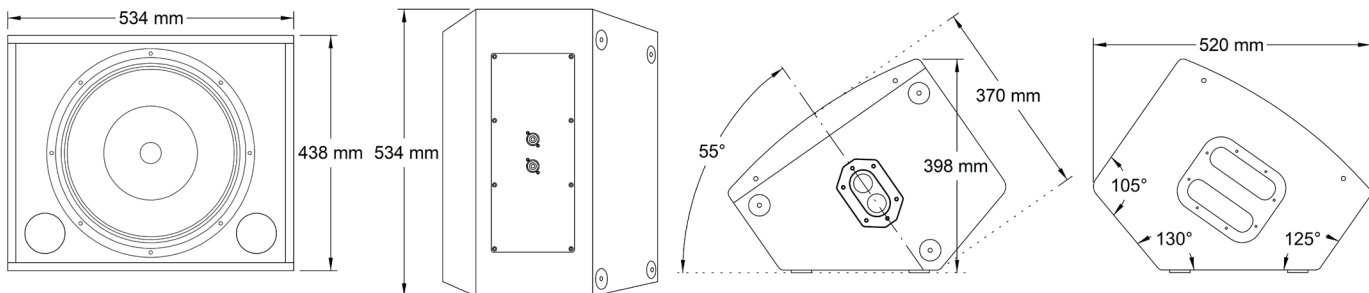
Frequency response:	45 Hz – 20 KHz (+/- 3 dB)
Maximum SPL:	132 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	98 dB
Nominal dispersion angle:	60° conical
Recommended amplification:	600 W to 1000 W
Bass components:	1 x 15" ferrite, 500 W AES, 8 Ω
Treble components:	1 x 2.84" neodymium, 90 W AES, 16 Ω

DIMENSIONS (INCLUDING RUBBER FEET)

Front:	534 x 438 mm
Rear:	370 mm
Net weight:	26.4 kg
Connections:	2 x Neutrik® speakON®



DIMENSIONS



HORIZON SERIES • ME12Z

High-performance passive trapezoidal cabinet for horizontal array

- Premium European components.
- Maximum SPL: 134 dB peak @ 1 m.
- Designed for high-performance PA.
- Nominal dispersion angle of 90° x 60° rotatable (60° x 40° for horizontal array).
- Excellent performance in horizontal arrays of up to 3 cabinets.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- 12 rigging points per M10 nut. Socket for standard tripod.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

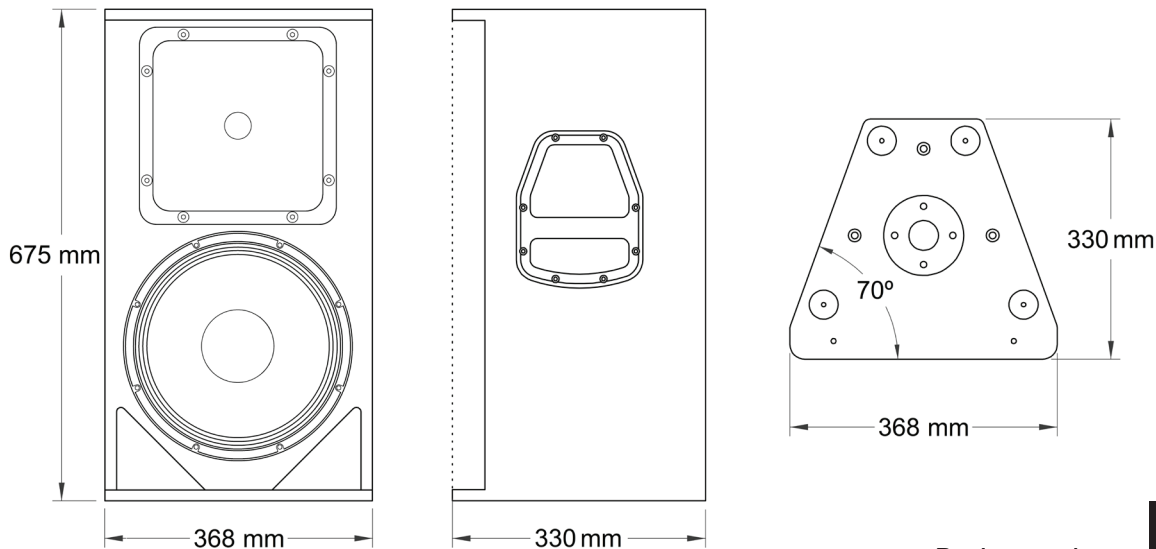
Frequency response:	60 Hz - 19 KHz
Maximum SPL:	134 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	101 dB
Admissible power (continuous):	900 W AES
Recommended amplification:	1200 W
Rated impedance:	8 Ω
Nominal dispersion angle:	90° x 60° rotatable; 60° x 40° for horizontal array
Bass components:	1 x 12" neodymium, 700 W AES, 8 Ω
Treble components:	1 x 1.4" neodymium, 80 W AES, 8 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	368 x 675 mm
Depth:	330 mm
Net weight:	22 kg
Connections:	2 x Neutrik® speakON®



DIMENSIONS



SPOT SERIES • ME5SX

Compact, ultra-high performance passive cabinet

- Premium European components.
- Superlative weight/power ratio (3.75 kg / 114 dB peak @ 1 m).
- Passive cabinet with 1 x 5.5" + 1 x 1.5" coaxial driver.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- Ideal for permanent installations.
- Horizontal/vertical rigging via adjustable yoke.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



HEPC
HIGH-END PHASE COHERENCE





TECHNICAL SPECIFICATIONS

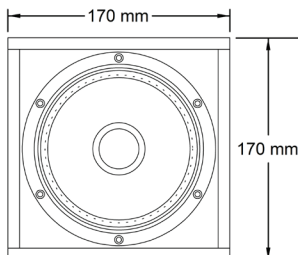
Frequency response:	70 Hz - 20 KHz (+/- 4 dB)
Maximum SPL:	114 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	89 dB
Admissible power (continuous):	100 W
(*) Settings for maximum power operation:	HP cut 80 Hz 24 dB Butt
These settings are already implemented in our amplifiers and in those we recommend from other manufacturers. The 5-year limited warranty DOES NOT apply if the indicated settings and limits are not respected.	maximum voltage: RMS 25 V peak voltage: 50 V
Recommended amplification:	50 W to 250 W
Rated impedance:	8 Ω
Nominal dispersion angle:	80° conical
Bass components:	1 x 5,5" ferrite, 120 W AES, 8 Ω
Treble components:	1 x 1,5" neodymium, 8 Ω

DIMENSIONS (VERTICAL POSITION)

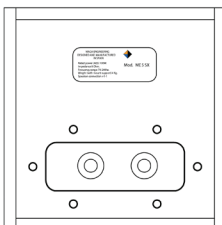
Front (width/height):	170 x 170 mm
Depth:	190 mm
Net weight:	3.75 kg (4 kg including yoke)
Connections:	2 x Neutrik® speakON®



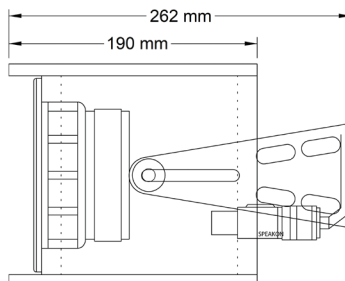
DIMENSIONS



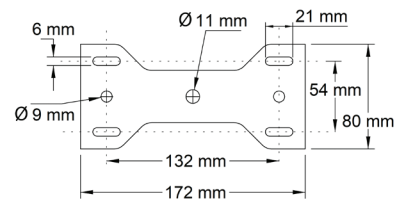
Front view



Rear view



Side view with yoke mount



Base/yoke mount dimensions

SPOT SERIES • ME8SA MKII

Compact, ultra-high performance active trapezoidal cabinet

- Premium European components.
- Superlative weight/power ratio (10.6 kg / 127 dB peak @ 1 m).
- Powered cabinet with 1 x 8" and 1" driver.
- Nominal dispersion angle of 90° x 60° rotatable.
- Ideal for portable PA systems (combined with our SUB Series subwoofers) and permanent installations.
- Includes 2 x 400 W Class D amplifiers.
- Full internal digital processing (includes 4 user-selectable presets) and Ethernet connection for programming, control and updates.
- Horizontal rigging through adjustable yoke.
- Vertical rigging based on gravity at one point with microbumper (inclination can be adjusted between 0° and 6°).
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



Armonía-Plus
System Manager





TECHNICAL SPECIFICATIONS

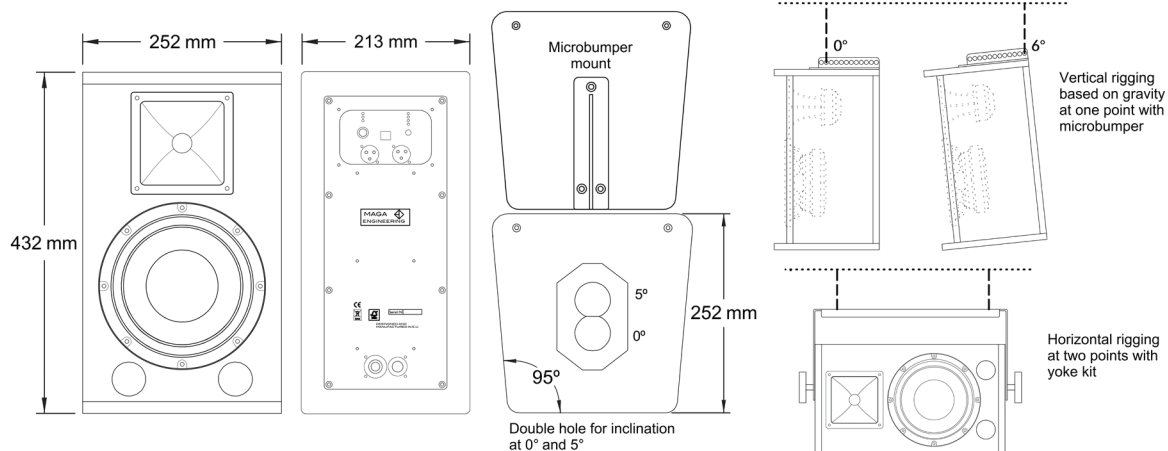
Frequency response:	60 Hz – 19 KHz (+/- 3 dB)
Maximum SPL:	127 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: full-range Preset 2: floor monitor Preset 3: 100 Hz cut for use with subwoofer Preset 4: response for speech purposes
Nominal dispersion angle:	90° x 60° rotatable
Amplification:	2 x 400 W Class D amplifiers at 8 Ω each, with full digital processing and control via Ethernet with the ArmoníaPlus® System Manager software. Maximum network consumption 220 W. Admissible voltage from 90 V to 264 V.
Bass components:	1 x 8" neodymium, 350 W AES, 8 Ω
Treble components:	1 x 1" neodymium, 30 W AES, 16 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	252 x 432 mm
Depth:	252 mm
Net weight:	10.2 kg
Connections:	2 x Neutrik® powerCON® TRUE; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



SPOT SERIES • ME8S

Compact, ultra-high performance passive trapezoidal cabinet

- Premium European components.
- Superlative weight/power ratio (11.2 kg / 127 dB peak @ 1 m).
- Passive cabinet with 1 x 8" and 1" driver.
- Nominal dispersion angle of 90° x 60° rotatable.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- Ideal for portable PA systems (combined with our SUB Series subwoofers) and permanent installations.
- Horizontal rigging through adjustable yoke. Vertical rigging based on gravity at one point with microbumper (inclination can be adjusted between 0° and 6°).
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Loudspeaker model included in EASE® Focus 3 3D acoustic simulation and prediction software.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

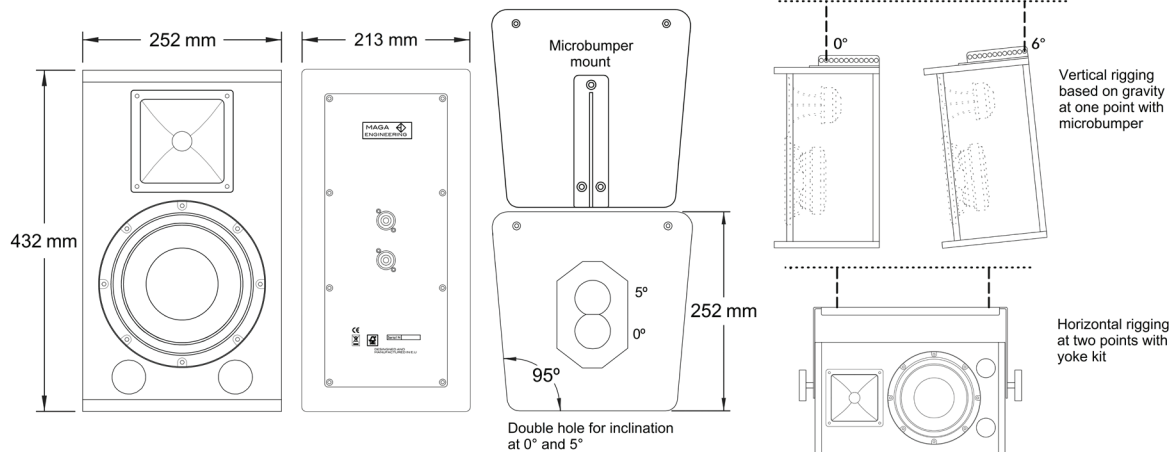
Frequency response:	60 Hz – 19 KHz (+/- 3 dB)
Maximum SPL:	127 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	94 dB
Admissible power (continuous):	400 W AES
Recommended amplification:	200 W to 800 W
Rated impedance:	8 Ω
Nominal dispersion angle:	90° x 60° rotatable
Bass components:	1 x 8" ferrite, 350 W AES, 8 Ω
Treble components:	1 x 1" ferrite, 40 W AES, 16 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	252 x 432 mm
Depth:	252 mm
Net weight:	11.2 kg
Connections:	2 x Neutrik® speakON®



DIMENSIONS



SPOT SERIES • ME12SA

Compact, ultra-high performance active trapezoidal cabinet

- Premium European components.
- Superlative weight/power ratio (19.5 kg / 130 dB peak @ 1 m).
- Powered cabinet with 1 x 12" and 1" driver.
- Nominal dispersion angle of 90° x 40° rotatable.
- Ideal for portable PA systems (combined with our SUB Series subwoofers) and permanent installations.
- Includes 2 Class D amplifiers (700 W at 4 Ω + 200 W at 16 Ω).
- Full internal digital processing (includes 4 user-selectable presets) and Ethernet connection for updates and programming/control with the ArmoníaPlus® System Manager software.
- 8 rigging points per M8 nut.
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.



ArmoníaPlus
System Manager





TECHNICAL SPECIFICATIONS

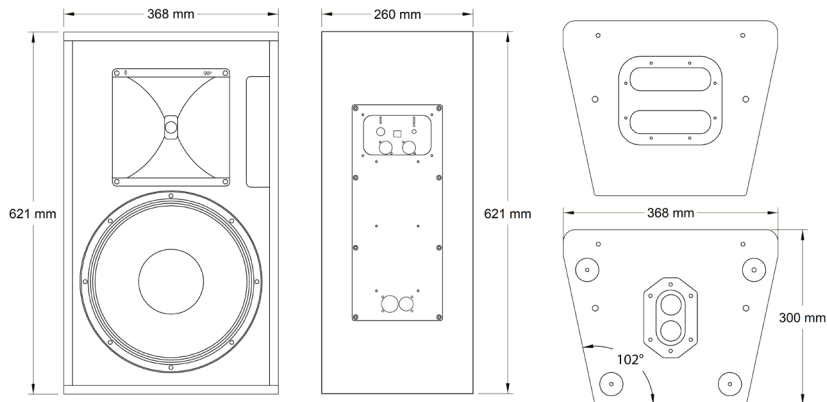
Frequency response:	45 Hz – 19 KHz (+/- 3 dB in preset 4)
Maximum SPL:	130 dB peak @ 1 m (Measured with M-Noise)
Includes 4 user-selectable presets:	Preset 1: full-range Preset 2: wall mount Preset 3: 100 Hz cut for use with subwoofer Preset 4: flat
Nominal dispersion angle:	90° x 40° rotatable
Amplification:	700 W Class D amplifier at 4 Ω (12" speaker) + 200 W at 16 Ω (1" driver) with full digital processing and control via Ethernet with the ArmoníaPlus® System Manager software. Maximum network consumption 220 W. Admissible voltage from 90 V to 264 V..
Bass components:	1 x 12" neodymium, 600 W AES, 4 Ω
Treble components:	1 x 1" ferrite, 40 W AES, 16 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	368 x 621 mm
Depth:	300 mm
Net weight:	19.5 kg
Connections:	2 x Neutrik® powerCON® TRUE; 2 x XLR male and female; 1 x RJ45 Ethernet



DIMENSIONS



SPOT SERIES • ME12S

Compact, ultra-high performance passive trapezoidal cabinet

- Premium European components.
- Superlative weight/power ratio (19 kg / 128 dB peak @ 1m).
- Passive cabinet with 1 x 12" and 1" driver.
- Nominal dispersion angle of 90° x 40° rotatable.
- Custom passive crossover with HEPC® (High-End Phase Coherence) filtering technology for high phase coherence, crafted with premium electronic components.
- Ideal for portable PA systems (combined with our SUB Series subwoofers) and permanent installations.
- 8 rigging points per M8 nut.
- Socket for standard tripod with two mounting positions at 0° and 5°.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Hex-punched steel front grille with high-resistance epoxy finish and internal acoustically transparent fabric to protect drivers from dust and debris.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

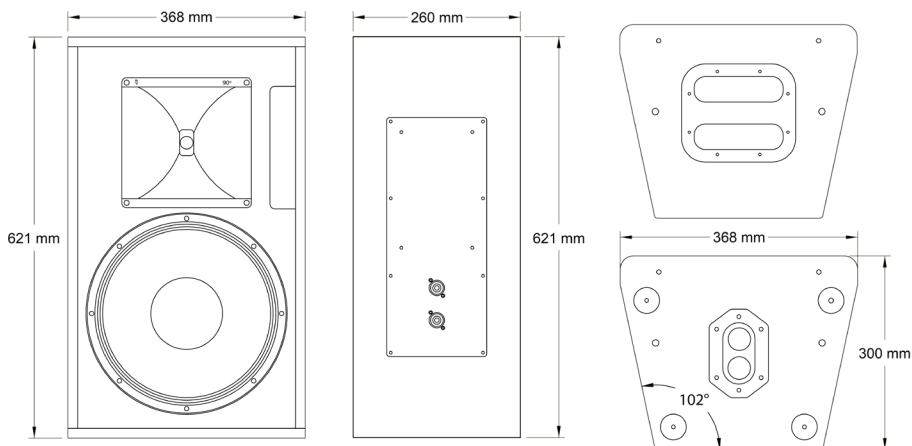
Frequency response:	45 Hz – 19 KHz (+/- 3 dB)
Maximum SPL:	128 dB peak @ 1 m (Measured with M-Noise)
Sensitivity (1 W at 1 metre):	97 dB
Admissible power (continuous):	600 W AES
Recommended amplification:	500 W to 1000 W
Rated impedance:	8 Ω
Nominal dispersion angle:	90° x 40° rotatable
Bass components:	1 x 12" ferrite, 500 W AES, 8 Ω
Treble components:	1" ferrite, 40 W AES, 8 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	368 x 621 mm
Depth:	300 mm
Net weight:	19 kg
Connections:	2 x Neutrik® speakON®



DIMENSIONS



BROADCAST SERIES • ME10BA

High-SPL active monitor for mixing and audiovisual post-production studios

- Premium European components.
- Maximum SPL: 125 dB peak @ 1 m.
- Powered monitor with 1 x 10" and 1" driver.
- Specifically designed for mixing and audiovisual post-production studios.
- Includes 2 x 250 W Class D amplifiers with analog connections (XLR, RCA), digital connections (AES/EBU, coaxial S/PDIF, optical S/PDIF) and USB 2.0 interface for configuration.
- Optional DANTE® connection.
- Full internal digital processing (includes 3 user-selectable presets).
- 16 rigging points per M8 nut for installation in any vertical or horizontal position.
- Enclosure crafted from top-grade Finnish birch plywood (BB/BB).
- FSC® certified wood, ensuring strictly controlled production and sustainable reforestation.
- Finished with specialized waterproof polyurea coating, highly resistant to erosion and degradation.
- Robust construction using tongue-and-groove jointing, glued and pressed for maximum structural integrity.
- Maga Engineering® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

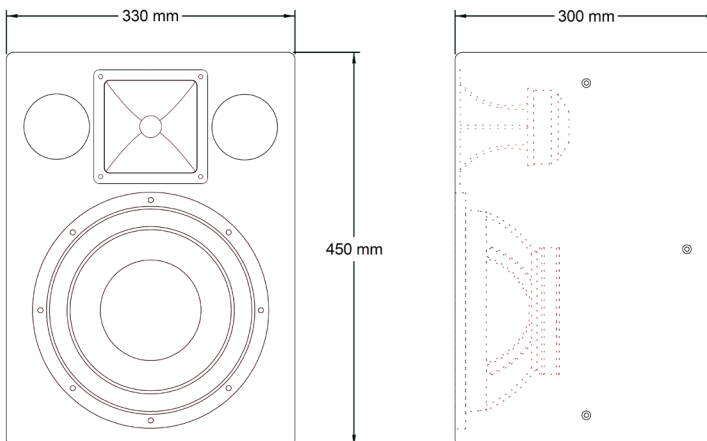
Frequency response:	45 Hz – 22 KHz (+/- 1 dB)
Maximum SPL:	125 dB peak @ 1 m (Measured with M-Noise)
Rated input sensitivity:	+4 dBU
Includes 3 user-selectable presets:	Preset 1: flat Preset 2: treble -2 dB Preset 3: X-curve
Nominal dispersion angle:	90° x 60° rotatable
Amplification:	2 x 250 Wrms Class D amplifiers at 4 Ω each; bi-amplified with full digital processing
Bass components:	1 x 10" ferrite, 250 W AES, 4 Ω
Treble components:	1 x 1" neodymium, 30 W AES, 8 Ω

DIMENSIONS (VERTICAL POSITION)

Front (width/height):	330 x 450 mm
Depth:	300 mm
Net weight:	18 kg
Connections:	analog (2 x XLR male/female, RCA); digital (AES, coaxial S/PDIF, optical S/PDIF); USB 2.0 interface for configuration; optional DANTE® connection



DIMENSIONS



AMPLIFICATION

At **Maga Engineering** we use our own amplification. Our new **ME 5K** (5000 W), **ME 10K** (10 000 W) and **ME 20K** (20 000 W) are 4-channel amplifiers with state-of-the-art technologies that integrate silicon carbide (SiC) transistors, universal power supply and a potent DSP processor with high-performance AD/DA converters at 96 KHz/24 bits. These units have been specifically designed to amplify our **LINE ARRAY SYSTEMS** and **MAGA MINI SYSTEMS**. They offer exceptional performance, reliability and sound quality with unbeatable value for money, and are covered by a **2-year limited warranty** programme.

As alternative options to our amplifiers, we recommend a range of products developed by Lab.gruppen® and Powersoft®.

All these amplifiers are based on cutting-edge, industry-standard technologies that have been consistently time-proven in terms of quality, reliability and performance. They also provide DSP functions with a comprehensive management system, and offer Ethernet, AES/EBU and Dante® connectivity.

In order to minimise the risk of connection errors and make it easier for the user to handle and install our systems, all amplifiers are distributed in their own flight-case properly machined and labelled, and come with a fully wired

connection panel. Moreover, all DSP processors built into the amplifiers are programmed with factory presets specifically designed for the system configuration chosen by the user.

LINE ARRAY Systems – Recommended amplifiers

Our line-array systems are delivered to the client as a turnkey project. To maximise their performance, we recommend using the **Maga Engineering**[®] amplifiers **ME 10K** (for **ME16V** line-array cabinets) and **ME 20K** (for **ME20V** line-array cabinet and **ME218LEX** subwoofers).

As an alternative to our own amplifiers, we suggest units from the Lab.gruppen[®] PLM Series™ (PLM 12K44 and PLM 20K44 models) or the Powersoft[®] X Series™ (X8, X4L and X4 models). For more information on features and specifications, please visit www.labgruppen.com and www.powersoft.com.

MAGA MINI Systems – Recommended amplifiers

Our Maga Mini systems can be either powered or passive. In the powered Maga Mini systems, the acoustic cabinets include amplification modules developed by Powersoft[®] and RAM Audio[®]. These advanced solutions include high-performance DSP processors programmed with factory presets specially tailored for the corresponding Maga Mini system configuration.

For passive Maga Mini systems, we recommend our Maga Engineering[®] **ME 5K** and **ME 10K** amplifiers.

Alternatively to our own amplification, we suggest using Powersoft[®] T Series™ units. For more details about models and specifications, please visit www.powersoft.com.

ACOUSTIC SIMULATION AND PREDICTION SOFTWARE

All our VERTICAL Series line array enclosures (**ME10V**, **ME10V Wide**, **ME16V**, **ME20V** and **ME46V MKII**), as well as the **ME121LEX** (single 21”) and **ME218LEX** (dual 18”) subwoofers from the SUB Series, and the **ME5SX** and **ME8S** from the SPOT Series, are fully supported by **EASE**[®] **Focus 3** 3D acoustic simulation and prediction software.

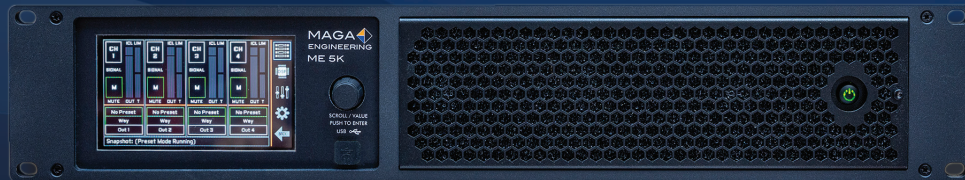
Below you can see the technical specifications of our **ME 5K**, **ME 10K** and **ME 20K** amplifiers.



AMPLIFICATION

MAGA ENGINEERING® ME 5K

- 5000 W amplifier with 4 output channels.
- 4 x 1250 W (2 Ω / 4 Ω / 8 Ω / Hi-Z 70 V / Hi-Z 100 V), 2 x 2500 W (4 Ω bridged / 8 Ω bridged).
- Maximum output tension: 150 V peak.
- Maximum output current: 36 A peak.
- High-performance, light weight Class D output stage. Integrates state-of-the-art silicon carbide (SiC) transistors allowing to work at very high tension levels with incredible dynamics, outstanding sonic punch and exceptional reliability.
- Upside-down design prevents accumulation of dust on electronic components.
- Powerful double-precision 64-bit DSP (4 inputs/4 outputs) at 96 KHz, with high-performance AD/DA converters at 96 KHz/24 bits. Minimum process latency: 0.85 ms. Tailored FIR processes up to 1000 taps.
- Dante™ Networking (compatible with AES67 and DDM) and AES3 digital inputs; optional.
- 2 x Ethernet ports and USB 2.0 port for DSP control, daisy-chain connection and firmware update.
- Extra-large 4.3" IPS display with user interface via capacitive touch panel.
- Universal power supply with PFC.
- PCM™ (Power Control Management) system for DSP-enabled distribution of the amplifier total power over channels according to the needs.
- Protection systems in both the power supply and the audio modules (Soft-start, Turn-on Turn-off transients, Muting at turn-on, Overheating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™ and PCM™). These systems work continuously in real time and with the highest reliability to keep all amplifier parameters always within safe working thresholds.
- Fast and powerful cooling system with front-to-back ventilation.
- Neutrik® XLR and speakON® input and output connections.
- Neutrik® powerCON® network connection.
- 2-year warranty program.
- Designed and developed in Spain.





TECHNICAL SPECIFICATIONS

General

Number of amplification channels: 4
Total power (all channels load): 5000 W

Maximum output power

8 Ω / 4 Ω / 2.67 Ω / 2 Ω : 4 x 1250 W
8 Ω bridged / 4 Ω bridged: 2 x 2500 W
Hi-Z 70 V / Hi-Z 100 V: 4 x 1250 W

Amplifier output module

Maximum output tension: 150 V peak
Maximum output current: 36 A peak

Audio

Gain: 26 dB – 44 dB (in 1 dB steps)
Total harmonic distortion: < 0.05 %
Signal to noise ratio (SNR): 111 dBA
Channel separation (crosstalk 20 Hz – 1 KHz): > 70 dB

Front panel – Interface

DSP control and firmware update: 1 x USB 2.0 Type B

Rear panel – Interface

2-channel analog I/O (input + link): 4 x Neutrik® 3-pin XLR, electronically balanced
AES / EBU / I/O (input+ link): 2 x Neutrik® 3-pin XLR
Output connections: 4 x Neutrik® speakON®
Ethernet control ports (daisy-chain): 2 x RJ45 Neutrik® etherCON®
Dante™ Networking* digital inputs
(compatible with AES67 and DDM): 2 x RJ45 Neutrik® etherCON®

Mains power and consumption

Rated tension: 100 V – 240 V AC, 50 Hz – 60 Hz
Operational tension: 90 V – 265 V AC
1/8 Rated power (@230 V, 4 Ω): 3.7 A – 817 W
1/8 Rated power (@120 V, 4 Ω): 7.2 A – 817 W

Dimensions and weight

Width: 483 mm
Height: 89 mm
Depth: 355 mm
Weight: 7 kg

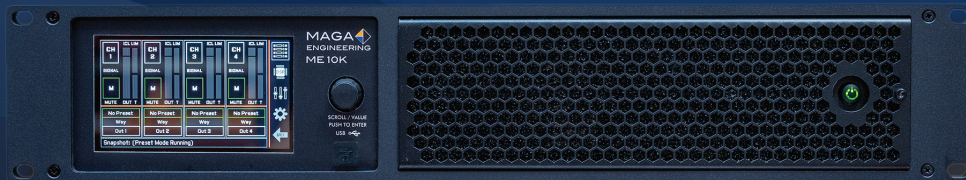
*: The Dante™ connection is optional.

More information at <https://magaengineering.com/>

AMPLIFICATION

MAGA ENGINEERING® ME 10K

- 10 000 W amplifier with 4 output channels.
- 4 x 2500 W ($2 \Omega / 4 \Omega$), 4 x 1250 W (8Ω), 4 x 2500 W (Hi-Z 70 V / Hi-Z 100 V), 2 x 5000 W (4Ω bridged / 8Ω bridged).
- Maximum output tension: 150 V peak.
- Maximum output current: 50 A peak.
- High-performance, light weight Class D output stage. Integrates state-of-the-art silicon carbide (SiC) transistors allowing to work at very high tension levels with incredible dynamics, outstanding sonic punch and exceptional reliability.
- Upside-down design prevents accumulation of dust on electronic components.
- Powerful double-precision 64-bit DSP (4 inputs/4 outputs) at 96 KHz, with high-performance AD/DA converters at 96 KHz/24 bits. Minimum process latency: 0.85 ms. Tailored FIR processes up to 1000 taps.
- Dante™ Networking (compatible with AES67 and DDM) and AES3 digital inputs; optional.
- 2 x Ethernet ports and USB 2.0 port for DSP control, daisy-chain connection and firmware update.
- Extra-large 4.3" IPS display with user interface via capacitive touch panel.
- Universal power supply with PFC.
- PCM™ (Power Control Management) system for DSP-enabled distribution of the amplifier total power over channels according to the needs.
- Protection systems in both the power supply and the audio modules (Soft-start, Turn-on Turn-off transients, Muting at turn-on, Overheating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™ and PCM™). These systems work continuously in real time and with the highest reliability to keep all amplifier parameters always within safe working thresholds.
- Fast and powerful cooling system with front-to-back ventilation.
- Neutrik® XLR and speakON® input and output connections.
- Neutrik® powerCON® network connection.
- 2-year warranty program.
- Designed and developed in Spain.



Dante®
AES67



TECHNICAL SPECIFICATIONS

General

Number of amplification channels: 4
Total power (all channels load): 10 000 W

Maximum output power

8 Ω : 4 x 1250 W
4 Ω / 2.67 Ω / 2 Ω : 4 x 2500 W
8 Ω bridged / 4 Ω bridged: 2 x 5000 W
Hi-Z 70 V / Hi-Z 100 V: 4 x 2500 W

Amplifier output module

Maximum output tension: 150 V peak
Maximum output current: 50 A peak

Audio

Gain: 26 dB – 44 dB (in 1 dB steps)
Total harmonic distortion: < 0.05 %
Signal to noise ratio (SNR): 111 dBA
Channel separation (crosstalk 20 Hz – 1 KHz): > 70 dB

Front panel – Interface

DSP control and firmware update: 1 x USB 2.0 Type B

Rear panel – Interface

2-channel analog I/O (input + link): 4 x Neutrik[®] 3-pin XLR, electronically balanced
AES / EBU / I/O (input+ link): 2 x Neutrik[®] 3-pin XLR
Output connections: 4 x Neutrik[®] speakON[®]
Ethernet control ports (daisy-chain): 2 x RJ45 Neutrik[®] etherCON[®]
Dante™ Networking* digital inputs
(compatible with AES67 and DDM): 2 x RJ45 Neutrik[®] etherCON[®]

Mains power and consumption

Rated tension: 100 V – 240 V AC, 50 Hz – 60 Hz
Operational tension: 90 V – 265 V AC
1/8 Rated power (@230 V, 4 Ω): 7.3 A – 1634 W
1/8 Rated power (@120 V, 4 Ω): 14 A – 1634 W

Dimensions and weight

Width: 483 mm
Height: 89 mm
Depth: 355 mm
Weight: 7 kg

*: The Dante™ connection is optional.

More information at <https://magaengineering.com/>

AMPLIFICATION

MAGA ENGINEERING® ME 20K

- 20 000 W amplifier with 4 output channels.
- 4 x 5000 W (2 Ω / 4 Ω), 4 x 2500 W (8 Ω), 4 x 3500 W (Hi-Z 70 V), 4 x 5000 W (Hi-Z 100 V), 2 x 10 000 W (4 Ω bridged / 8 Ω bridged).
- Maximum output tension: 235 V peak.
- Maximum output current: 71 A peak.
- High-performance, light weight Class D output stage. Integrates state-of-the-art silicon carbide (SiC) transistors allowing to work at very high tension levels with incredible dynamics, outstanding sonic punch and exceptional reliability.
- Upside-down design prevents accumulation of dust on electronic components.
- Powerful double-precision 64-bit DSP (4 inputs/4 outputs) at 96 KHz, with high-performance AD/DA converters at 96 KHz/24 bits. Minimum process latency: 0.85 ms. Tailored FIR processes up to 1000 taps.
- Dante™ Networking (compatible with AES67 and DDM) and AES3 digital inputs; optional.
- 2 x Ethernet ports and USB 2.0 port for DSP control, daisy-chain connection and firmware update.
- Extra-large 4.3" IPS display with user interface via capacitive touch panel.
- Universal power supply with PFC.
- PCM™ (Power Control Management) system for DSP-enabled distribution of the amplifier total power over channels according to the needs.
- Protection systems in both the power supply and the audio modules (Soft-start, Turn-on Turn-off transients, Muting at turn-on, Overheating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™ and PCM™). These systems work continuously in real time and with the highest reliability to keep all amplifier parameters always within safe working thresholds.
- Fast and powerful cooling system with front-to-back ventilation.
- Neutrik® XLR and speakON® input and output connections.
- Neutrik® powerCON® network connection (32 A version).
- 2-year warranty program.
- Designed and developed in Spain.



Dante®
AES67



TECHNICAL SPECIFICATIONS

General

Number of amplification channels: 4
Total power (all channels load): 20 000 W

Maximum output power

8 Ω : 4 x 2500 W
4 Ω / 2.67 Ω / 2 Ω : 4 x 5000 W
8 Ω bridged / 4 Ω bridged: 2 x 10 000 W
Hi-Z 70 V: 4 x 3500 W
Hi-Z 100 V: 4 x 5000 W

Amplifier output module

Maximum output tension: 235 V peak
Maximum output current: 71 A peak

Audio

Gain: 26 dB – 44 dB (in 1 dB steps)
Total harmonic distortion: < 0.05 %
Signal to noise ratio (SNR): 115 dBA
Channel separation (crosstalk 20 Hz – 1 KHz): > 70 dB

Front panel – Interface

DSP control and firmware update: 1 x USB 2.0 Type B

Rear panel – Interface

2-channel analog I/O (input + link): 4 x Neutrik® 3-pin XLR, electronically balanced
AES / EBU / I/O (input+ link): 2 x Neutrik® 3-pin XLR
Output connections: 4 x Neutrik® speakON®
Ethernet control ports (daisy-chain): 2 x RJ45 Neutrik® etherCON®
Dante™ Networking* digital inputs
(compatible with AES67 and DDM): 2 x RJ45 Neutrik® etherCON®

Mains power and consumption

Rated tension: 100 V – 240 V AC, 50 Hz – 60 Hz
Operational tension: 90 V – 265 V AC
1/8 Rated power (@230 V, 4 Ω): 14 A – 3268 W
1/8 Rated power (@120 V, 4 Ω): 26.8 A – 3268 W

Dimensions and weight

Width: 483 mm
Height: 89 mm
Depth: 355 mm
Weight: 9 kg

*: The Dante™ connection is optional.

More information at <https://magaengineering.com/>

NOTES



The ME10V, ME10V Wide, ME16V, ME20V, ME46V MKII, ME12WX, ME15WX, ME12Z, ME5SX, ME8S and ME12S passive systems feature the HEPC® (High-End Phase Coherence) filtering technology, which guarantees perfect audio summing and powerful, clear and extremely intelligible coverage.



FINISH

As a standard, our products are finished in black colour with a special waterproof polyurea coating resistant to erosion and degradation, plus stainless steel screws.

However, our acoustic cabinets can be delivered upon request in a wide range of RAL colours and/or with all hardware finished in stainless steel, which is essential to ensure durability in settings and environments with very high salinity (beach clubs, cruise ships, etcetera).

These special finishes come with a surcharge which varies depending on the number of requested units.

Lab.gruppen® is a registered trademark of Lab.gruppen AB. PLM™ (Powered Loudspeaker Management) is a trademark of Lab.gruppen AB.

Powersoft® is a registered trademark of Powersoft S.p.A.

NOTES

SINCE 2010

INVEST IN SOUND



MADE AND
DESIGNED
IN SPAIN

MAGA ENGINEERING

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