

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

With the data and technical characteristics of our **ME10V**, **ME10V** wide, **ME20V** and **ME24V** Line Array loudspeakers (which are included in the **EASE Focus®** version 3 prediction and rigging program).

SUB Series

Dedicated to our ME115SNDA MKII, ME115SND, ME115SNDX, ME218SNDX, ME218LEX, ME218FHA and ME218FH subwoofers. The ME218LEX subwoofer is included in the EASE Focus® version 3 prediction and rigging program.

WEDGE Series

With the high-performance multipurpose stage monitors **ME12WAX** and **M15WAX**.

HORIZON Series

With the data and technical characteristics of the highperformance **ME12Z** loudspeaker for Horizontal Array.

SPOT Series

Dedicated to the **ME6.5S**, **ME8S** and **ME8SA MKII** point source loudspeakers.

BROADCAST Series

With the **ME10BA** high SPL monitor, designed to become the new standard within the audiovisual mixing and post-production studios.

SLIM Series

With the ultra-compact **ME63SL** and **ME123SL** columns for permanent installation.

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.

All our Line Array loudspeakers (ME10V, ME10V wide, ME20V and ME24V) as well as our ME218LEX subwoofer are included in EASE Focus® version 3 prediction and rigging program. Therefore, in order to guarantee the total compatibility of our systems with those third party products that define a standard of excellence and are "de facto" standard for first level Touring, we are currently working to include our acoustic enclosures in the loudspeaker libraries of the PLM Series™ amplifiers by Lab.gruppen® and X Series™ amplifiers by Powersoft®.

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 that designs and manufactures extremely high quality acoustic enclosures and PA systems in Spain. At the foundation of the company, there was a clearly defined mission: to manufacture the best possible sound reinforcement systems.

All Maga Engineering® acoustic enclosures are designed, from the initial sketch, to deliver the best results that today's technology allows. Only the best drivers and components on the market are used to manufacture them. Performance, sound pressure, quality and timbre are studied thoroughly, with thousands of laboratory tests. Electronics, enclosures and transducers, everything is taken into account to offer the best overall performance, as if it were a perfect gear. Behind the Maga Engineering® systems we find what could be called a "superior DNA".

Maga Engineering® systems offer fidelity levels typical of the High-End world, while being extremely versatile. Two of our hallmarks. All our custom passive filters are manufactured with high-end components.

Our Line Array enclosures of the VERTICAL series (**ME10V**, **ME10V** wide, **ME20V** and **ME24V**) allow multiple Line Array configurations.

The **METOV** Line Array enclosure can be staked or flown with extreme ease and offers rental companies a high degree of amortization, as its great flexibility in the assembly allows multiple events of small/medium size with a single model of Line Array loudspeaker. It includes a 10" LF driver and two 0.8" HF drivers. With an extraordinarily reduced size and weight (24Kg), it offers a high performance that reaches a sound pressure level of 137dB peak to 1 meter. This reduction in weight and space has great advantages in terms of transport and greatly simplifies the rigging and assembly process. It is available in two versions, **METOV** with 90° horizontal dispersion and **METOV** wide with 120° horizontal dispersion.

The **ME20V** Line Array enclosure has been specially designed to cover medium/large events. It includes two 10" LF drivers and a 3.5" +1.75" coaxial HF driver that ensures perfect alignment and phase coherence. With a very tight weight (33Kg) and size, it achieves an impressive sound pressure level of 14odB peak to 1 meter and maintains the seal of quality and timbre that characterizes us, as well as the manageability and versatility of its "little brother".

Finally, the last Line Array model of the VERTICAL series is the **ME24V**, a 3-way "beast" designed for Big Touring events. It includes two 12" LF drivers and a 3.5" + 1.75" coaxial HF driver that ensures perfect alignment and phase coherence. The overwhelming sound pressure level it reaches is 143dB peak to 1 meter.

All our Line Array enclosures are included in the EASE Focus® version 3 prediction and rigging program.

Combining the VERTICAL series enclosures with the **ME218LEX** (2×18 ") SUB series subwoofer, which reach 14odB peak at 1 meter, any Line Array system required can be configured, from the smallest to the largest Big Touring system. We recommend reading the document "**Line Array Configurations**".

The ME218LEX subwoofer is included in the EASE Focus® version 3 prediction and rigging program.

Maga Engineering® offers within the WEDGE series two high performance multipurpose floor monitors (ME12WAX and ME15WAX), as well as speakers for point source PA and monitoring applications within the SPOT series (ME6.5S, ME8S and ME8SA MKII) and a high performance acoustic enclosure for Horizontal Array or point source belonging to the HORIZON series (ME12Z). Special mention should be made of the ME12Z/ME218FH (passive) and ME12Z/ME218FHA (self-powered) high performance sets, ideal for DJ/DISCO applications due to its impressive sound pressure levels (134dB peak in the ME12Z and 139dB peak in

both **ME218FH** and **ME218FHA** subwoofers). Likewise, the SPOT **ME6.5S**, **ME8S** and **ME8SA MKII** series enclosures offer absolutely exceptional performance and quality for their size; combined with the SUB **ME115ND**, **ME115NDX** and **ME115NDA MKII** series subwoofers, they form very interesting mini PA systems due to their enormous performance, sound quality and small size, offering the highest quality solution in many situations where a traditional Line Array system is not required. All this without losing the sound quality and the High-End timbre that characterizes us. We recommend reading the document "**Maga Mini Configurations**".

Finally, the BROADCAST series, with the **ME10BA** monitor designed specifically for mixing and post-production studios, and the SLIM series, with the **ME63SL** and **ME123SL** ultra-compact column speakers designed for permanent installations.

Behind Maga Engineering® is a group of electronic and acoustic engineers who have mastered all the technologies that have historically been employed in the manufacture of acoustic enclosures and PA systems. It is also a group of musicians and music lovers who have always disagreed with the fact that large format audio systems have to sound "hard" or "rough". Convinced that a PA system can offer fidelity levels similar to those of the High-End without sacrificing the highest performance, Maga Engineering® engineers have developed the acoustic enclosures presented in this catalogue, which are the result of countless hours of study, experience and laboratory tests to offer, in each case, the highest quality product. And all this, without ever losing sight of the practical characteristics of handling and operation that facilitate the work of the rental and event production companies that are, in short, the users of our systems.



VERTICAL SERIES • ME10V

Compact Line Array System

- Custom components.
- · L and R models for symmetrical systems mounting.
- 2-way enclosure (1 x 10" LF and 2 x 0.8" HF drivers). Custom passive filter made of High-End components which optimises performance and SPL (137dB peak).
- HEPC® (High-End Phase Coherence) filter technology.
- · Designed to handle low curvature flat waves.
- Enclosure with asymmetrical 90° horizontal dispersion pattern.
- Angulation of the enclosure adjustable in nine steps, from o° to 9°.
- Digital laser inclinometer kit for rigging frame installation

(optional).

- Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program, which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 50Hz - 20KHz Sensitivity (1W@1m): 102dB Power Handling (continuous): AES 500W Recommended Amplification: 6ooW Nominal Impedance: 16Ω Maximum SPL Power: 137dB peak (1m) Horizontal: 90° / Vertical: Defined by Array (min. 20°) Angle of Coverage (-6 dB): Bass Components: 1 x 10" Neodymium, AES 450W Treble Components: 2 x o.8" Neodymium, AES 40W each Enclosure

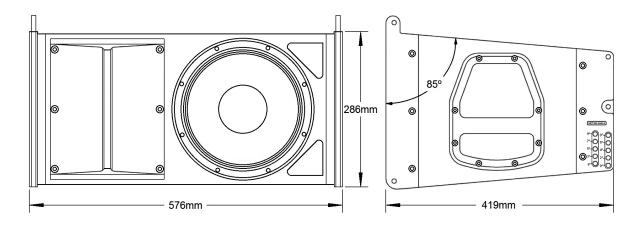
Front: 576 x 286mm

Depth: 419mm

Net Weight: 24Kg

Connectors: 2 x Neutrik Speakon 4 Cont.; +1-1 connection







VERTICAL SERIES • ME10V wide

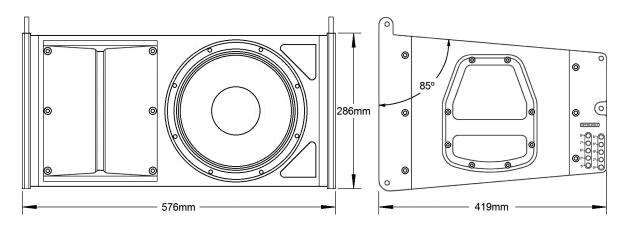
Compact Line Array System 120° Horizontal Dispersion

- Custom components.
- Designed for wide horizontal dispersion configurations, as well as "down-fill" element for configurations formed by ME10V standard elements.
- · L and R models for symmetrical systems mounting.
- 2-way enclosure (1 x 10" LF and 2 x 0.8" HF drivers). Custom passive filter made of High-End components which optimises performance and SPL (137dB peak).
- HEPC® (High-End Phase Coherence) filter technology.
- · Designed to handle low curvature flat waves.
- Enclosure with asymmetrical 120° horizontal dispersion pattern.

- Angulation of the enclosure adjustable in nine steps, from o° to ° $^{\circ}$
- Digital laser inclinometer kit for rigging frame installation (optional).
- Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program, which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.



Frecuency Response:	50Hz - 20KHz
Sensitivity (1W@1m):	102dB
Power Handling (continuous):	AES 500W
Recommended Amplification:	6ooW
Nominal Impedance:	16Ω
Maximum SPL Power:	137dB peak (1m)
Angle of Coverage (-6 dB):	Horizontal: 120° / Vertical: Defined by Array (min. 20°)
Bass Components:	1 x 10" Neodymium, AES 450W
Treble Components:	2 x o.8" Neodymium, AES 40W each
Enclosure	
Front:	576 x 286mm
Depth:	419mm
Net Weight:	24Kg
Connectors:	2 x Neutrik Speakon 4 Cont.; +1-1 connection





VERTICAL SERIES • ME20V

High Performance Line Array System

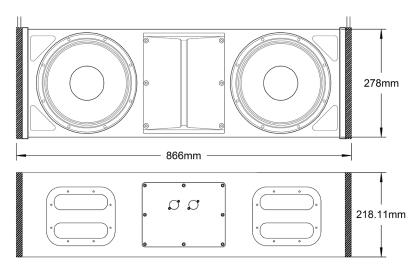
- · Custom components.
- High SPL output (141dB peak).
- Biamp enclosure (2 active ways, 3 real ways), with 2 x 10" LF drivers and 3.5" + 1.75" coaxial HF driver. Custom passive filter made of High-End components.
- HEPC® (High-End Phase Coherence) filter technology.
- · Designed to handle low curvature flat waves.
- Enclosure with 100° horizontal dispersion pattern.
- Angulation of the enclosure adjustable in nine steps, from o° to 9°.
- Digital laser inclinometer kit for rigging frame installation (optional).

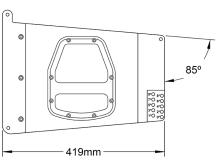
- Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program, which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.





Frecuency Response:	50Hz - 20KHz
Bass-Treble Sensitivity (1W@1m):	100dB - 112dB
Bass-way Power Handling (continuous):	AES 1.400W, 16Ω
Mid/Treble-way Power Handling (continuous):	AES 230W, 16Ω
Recommended Amplification:	1.600W
Nominal Impedance:	16Ω
Maximum SPL Power:	141dB peak (1m)
Angle of Coverage (-6 dB):	Horizontal: 100° / Vertical: Defined by Array (min. 20°)
Bass Components:	2 x 10" Neodymium, AES 700W each
Treble Components:	1 X 3.5" + 1 X 1.75" Neodymium, AES 150W + 80W
Enclosure	
Front:	866 x 278mm
Depth:	419mm
Net Weight:	33 Kg
Connectors:	2 x Neutrik Speakon 4 Cont.; +1-1 Bass / +2-2 Mid-Treble
	connection







VERTICAL SERIES • ME24V

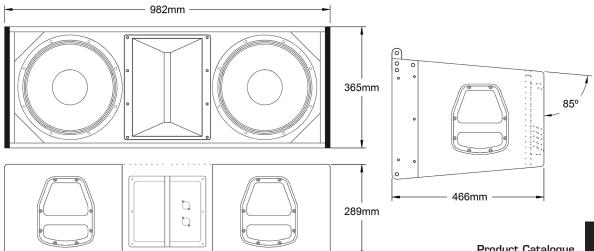
Big Touring Line Array System

- · Custom components.
- High SPL output (143dB peak).
- Biamp enclosure (2 active ways, 3 real ways), with 2 x 12" LF drivers and 3.5" + 1.75" coaxial HF driver. Custom passive filter made of High-End components.
- HEPC® (High-End Phase Coherence) filter technology.
- · Designed to handle low curvature flat waves.
- Enclosure with 100° horizontal dispersion pattern.
- Angulation of the enclosure adjustable in nine steps, from o° to 9°.
- Digital laser inclinometer kit for rigging frame installation (optional).

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC[®] program, which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 50Hz - 22KHz 103dВ Bass Sensitivity (1W@1m): Treble Sensitivity (1W@1m): 112dB Bass-way Power Handling (continuous): AES 1.400W, 16Ω Mid/Treble-way Power Handling (continuous): AES 230W, 16Ω Recommended Amplification: 1.800W Nominal Impedance: 16Ω 143dB peak (1m) Maximum SPL Power: Angle of Coverage (-6 dB): Horizontal: 100° / Vertical: Defined by Array (min. 20°) Bass Components: 2 x 12" Neodymium, AES 700W each Treble Components: 1 x 3.5" + 1 x 1.75" Neodymium, AES 150W + 80W **Enclosure** Front: 982 x 365mm Depth: 466mm Net Weight: 43Kg 2 x Neutrik Speakon 4 Cont.; +1-1 Bass / +2-2 Mid-Treble Connectors: connection





SUB SERIES • ME115SNDA MKII

Multipurpose 15" Active Subwoofer

- Custom components.
- · High SPL output (129dB peak).
- · Single ferrite compact size 15" loudspeaker.
- Multipurpose use. Ideal for portable PA systems in combination with Spot and Wedge series loudspeakers and for permanent installations.
- Include internal 1.200W Class D amplifier with complete digital processing (includes 4 user selectable presets). Ethernet connection for updates and programming/ control with ArmoníaPlus® System Manager.
- Power source with automatic regulation (90 250 V).
- · Special rubber feet to avoid vibrations and displacements.
- Manufactured from 18 layers of Finnish birch.

- Woods used complies with the FSC® program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- · Mounting for extension bar on top side.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING $^{\rm @}$ 5-year limited warranty.



Frecuency Response: 35Hz - 100Hz (+/- 3dB)

Includes four single button user-definable presets: Preset 1: Set to 80Hz

Preset 2: Set to 100Hz

Preset 3: Set to 8oHz with polarity reversal **Preset 4:** Set to 100Hz with polarity reversal

Maximum SPL Power: 129dB peak (1m)

Amplification: 1.200W @ 8Ω class D amplifier with complete digital processing and Ethernet connection for updates and

programming/control with ArmoníaPlus® System Manager

Components: 1 x 15" Ferrite, AES 700W, 8Ω

Enclosure (feet included)

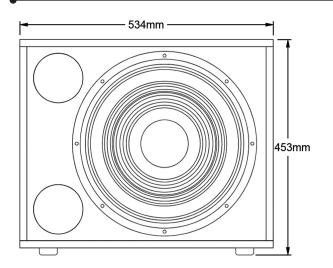
Front: 534 x 453mm

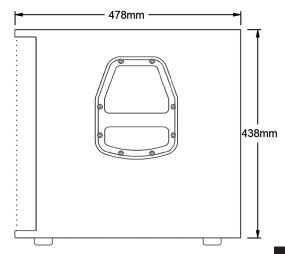
Depth: 478mm

Net Weight: 28Kg

 $\textbf{Connectors:} \hspace{0.5cm} \textbf{2} \textbf{ x} \hspace{0.1cm} \textbf{Neutrik powerCON TRUE male and female; 2} \textbf{ x} \hspace{0.1cm} \textbf{XLR male}$

and female; Ethernet







SUB SERIES • ME115SND

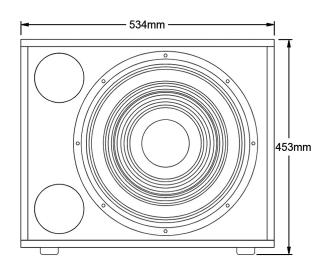
Multipurpose 15" Passive Subwoofer

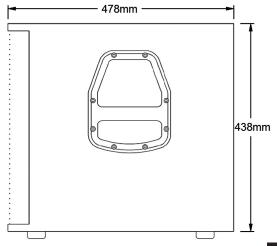
- Custom components.
- High SPL output (128dB peak).
- · Single ferrite compact size 15" loudspeaker.
- Multipurpose use. Ideal for portable PA systems in combination with Spot and Wedge series loudspeakers and for permanent installations.
- Supports a continuous AES 700W.
- · Special rubber feet to avoid vibrations and displacements.
- Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program which guarantees the control of production and reforestation.

- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- · Mounting for extension bar on top side.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response:	35Hz - 200Hz (+/- 3dB)
Sensitivity (ıW@ım):	98dB
Power Handling (continuous):	AES 700W
Recommended Amplification:	400W to 800W
Nominal Impedance:	8Ω
Maximum SPL Power:	128dB peak (1m)
Components:	1 x 15" Ferrite, AES 700W, 8Ω
Enclosure (feet included)	
Front:	534 X 453mm
Depth:	478mm
Net Weight:	25Kg
Connectors:	2 x Neutrik Speakon 4 Cont.; +1-1 connection







SUB SERIES • ME115SNDX

High Performance 15" Passive Subwoofer

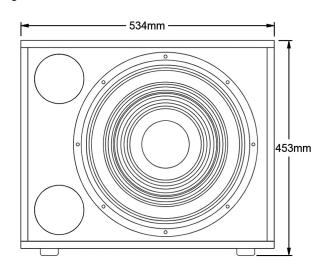
- Custom components.
- · High SPL output (129dB peak).
- Single ferrite compact size 15" loudspeaker.
- Multipurpose use. Ideal for portable PA systems in combination with Spot and Wedge series loudspeakers and for permanent installations.
- Supports a continuous AES 1.000W.
- Special rubber feet to avoid vibrations and displacements.
- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program which guarantees the control of production and reforestation.

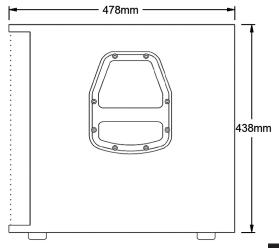
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- · Mounting for extension bar on top side.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response:	35Hz - 200Hz (+/- 3dB)
Sensitivity (1W@1m):	98dB
Power Handling (continuous):	AES 1.000W
Recommended Amplification:	600W to 1.200W
Nominal Impedance:	8Ω
Maximum SPL Power:	129dB peak (1m)
Components:	1 x 15" Ferrite, AES 1.000W, 8 Ω
Enclosure (feet included)	
Front:	534 X 453mm
Depth:	478mm
Net Weight:	25Kg

Connectors: 2 x Neutrik Speakon 4 Cont.; +1-1 connection







SUB SERIES • ME218SNDX

Dual 18" Passive Subwoofer

- Custom components.
- · High SPL output (138dB peak).
- Latest generation 18" Neodymium loudspeakers, with advanced cooling (MALTCROSS® technology) and lower power compression losses that allow the SPL to be maintained at more constant values within a working period.
- Supports a continuous AES 2.000W.
- Special rubber feet to avoid vibrations and displacements.
- · Prepared for horizontal and vertical placement.
- Pre-installation of nuts for four 100mm GUITEL® wheels.
- · Manufactured from 18 layers of Finnish birch.

- Woods used complies with the FSC® program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 40 - 200Hz (+/- 3 dB)

Sensitivity (1W@1m): 101dB

Power Handling (continuous): AES 2.000W

Recommended Amplification: 1.400W to 2.800W

Nominal Impedance: 4Ω

Maximum SPL Power: 138dB peak (1m)

Components: 2 x 18" Neodymium, AES 1.000W each

Enclosure (feet included)

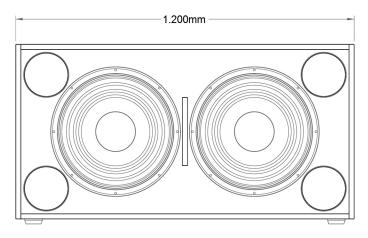
Front: 1.200 x 638 mm

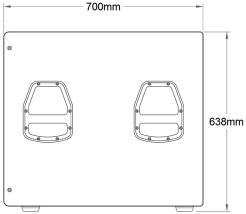
Depth: 700mm

Net Weight: 89Kg

Connectors: 2 x Neutrik Speakon 4 Cont.; +1-1 connection









SUB SERIES • ME218LEX

High Performance Dual 18" Passive Subwoofer

- Custom components.
- High SPL output (140dB peak).
- Latest generation 18" Neodymium loudspeakers, with advanced cooling (MALTCROSS® technology) and lower power compression losses that allow the SPL to be maintained at more constant values within a working period.
- Supports a continuous AES 3.200W.
- Special rubber feet to avoid vibrations and displacements.
- · Prepared for horizontal and vertical placement.
- Pre-installation of nuts for four 100mm GUITEL® wheels.
- · Manufactured from 18 layers of Finnish birch.

- Woods used complies with the FSC® program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 40 - 200Hz (+/- 3 dB)

Sensitivity (1W@1m): 100dB

Power Handling (continuous): AES 3.200W

Recommended Amplification: 2.000W to 4.000W

> Nominal Impedance: 4Ω

Maximum SPL Power: 140dB peak (1m)

> 2 x 18" Neodymium, AES 1.600W each Components:

Enclosure (feet included)

1.200 x 638 mm Front:

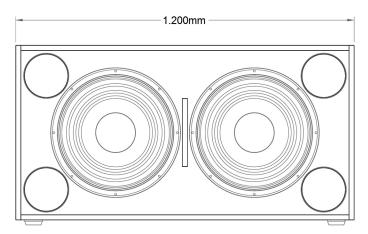
Depth:

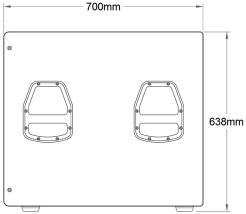
700mm

Net Weight: 93Kg

2 x Neutrik Speakon 4 Cont.; +1-1 connection Connectors:









SUB SERIES • ME218FHA

High Performance Dual 18" Active Subwoofer

- Custom components.
- High SPL output (139dB peak).
- · Latest generation 18" Neodymium loudspeakers .
- Ideal for portable PA systems and DJ systems in combination with HORIZON (ME12Z) and VERTICAL (ME10V) series enclosures.
- Internal 3.000W + 3.000W Class D amplifier with integrated DSP.
- Universal power supply (operating voltage 85V 265V).
- · Special rubber feet to avoid vibrations and displacements.
- Four 100 mm GUITEL® wheels installed on the rear side for easy transport.
- · Mounting for extension bar on top side.
- · Manufactured from 18 layers of Finnish birch.

- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.





Frecuency Response: 35Hz - 200Hz (+/- 3dB)

Includes four single button user-definable presets: Preset 1: Connection of 1 ME12Z unit

Preset 2: Connection of 1 ME46V unit

Preset 3: Connection of a cluster of 2 ME10V units

Preset 4: For operation as external subwoofer

Maximum SPL Power: 139dB peak (1m)

Amplification: 2 class D amplifiers with 3.000W @ 4Ω each, with

complete digital processing

Components: 2 x 18" Neodymium, AES 1.000W each

Enclosure (feet included)

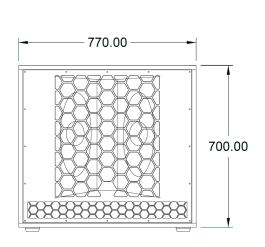
Front: 770 x 718mm

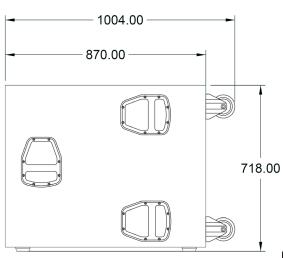
Depth: 870mm (1.004mm, wheels included)

Net Weight: 90Kg

Connectors: XLR Input, XLR Link, powerCON TRUE 1 in-out, USB, 2x

RJ45







SUB SERIES • ME218FH

High Performance Dual 18" Passive Subwoofer

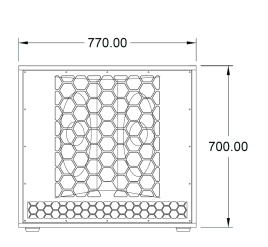
- Custom components.
- High SPL output (139dB peak).
- · Latest generation 18" Neodymium loudspeakers.
- Ideal for portable PA systems and DJ systems in combination with HORIZON (ME12Z) and VERTICAL (ME10V) series enclosures.
- Supports a continuous AES 2.000W.
- · Special rubber feet to avoid vibrations and displacements.
- Four 100 mm GUITEL® wheels installed on the rear side for easy transport.
- · Mounting for extension bar on top side.
- Manufactured from 18 layers of Finnish birch.

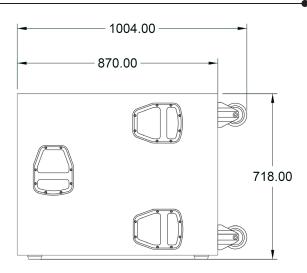
- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.





Everyone Pernance	11.(/ 12)
Frecuency Response:	35 - 200Hz (+/- 3 dB)
Sensitivity (าW@าm):	100dB
Power Handling (continuous):	AES 2.000W
Recommended Amplification:	1.500W to 2.500W
Nominal Impedance:	4Ω
Maximum SPL Power:	139dB peak (1m)
Components:	2 x 18" Neodymium, AES 1.000W each
Enclosure (feet included)	
Front:	770 X 718 mm
Depth:	870mm (1.004mm, wheels included)
Net Weight:	88Kg
Connectors:	2 x Neutrik Speakon 4 Cont.; +1-1 connection







WEDGE SERIES • ME12WAX

Coaxial 12" Active Multipurpose Stage Monitor

- Custom components.
- Self-powered enclosure with 1 x 12" LF and 1 x 2.84" HF coaxial driver.
- Floor monitor/PA position.
- Low feedback level.
- Excellent performance as a floor monitor.
- Includes internal 800W + 200W Class D amplifier.
- · Light weight (19.5Kg).
- Complete internal digital process (includes 4 userselectable presets) and Ethernet connection for updates and programming/control with ArmoníaPlus[®] System Manager
- Plate for standard tripod with two holes for o° and 5° inclination.

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 52Hz - 20KHz (+/- 2dB in preset 4)

Maximum SPL Power: 128dB peak (1m)

Includes four single button user-definable presets: Preset 1: Full range

Preset 2: Floor monitor

Preset 3: Set to 100Hz for use with subwoofer

Preset 4: Flat response

Horn: 60°, conical

Amplification: 800W @ 4Ω (12" LF driver) + 200W @ 16Ω (2.84" HF driver);

amplifier with complete digital process and Ethernet

control with the ArmoníaPlus® System Manager program

Bass Components: 1 x 12" Neodymium, AES 500W, 8Ω

Treble Components: 1 x 2.84" Neodymium, AES 90W, 16Ω

Enclosure (feet included)

Front: 444 x 390 mm

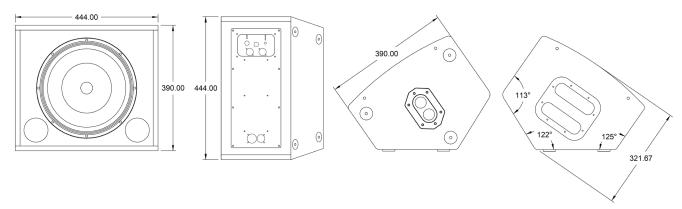
Depth: 321.67 mm

Net Weight: 19.5Kg

Connectors: 2 x Neutrik powerCON TRUE male and female; 2 x XLR male

and female; Ethernet







WEDGE SERIES • ME15WAX

High Performance Coaxial 15" Active Stage Monitor

- Custom components.
- Self-powered enclosure with 1 x 15" LF and 1 x 2.84" HF coaxial driver.
- Floor monitor/PA position.
- Low feedback level.
- Excellent performance as a floor monitor.
- Includes 800W + 200W Class D amplifier.
- · Light weight (23Kg).
- Complete internal digital process (includes 4 userselectable presets) and Ethernet connection for updates and programming/control with ArmoníaPlus[®] System Manager
- Plate for standard tripod with two holes for o° and 5° inclination.

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Frecuency Response: 42Hz - 20KHz (+/- 2dB in preset 4)

Maximum SPL Power: 132dB peak (1m)

Includes four single button user-definable presets: Preset 1: Full range

Preset 2: Floor monitor

Preset 3: Set to 100Hz for use with subwoofer

Preset 4: Flat response

Horn: 60°, conical

Amplification: 800W @ 4Ω (15" LF driver) + 200W @ 16Ω (2.84" HF driver);

amplifier with complete digital process and Ethernet

control with the ArmoníaPlus® System Manager program

Bass Components: 1 x 15" Neodymium, AES 500W, 8Ω

Treble Components: 1 x 2.84" Neodymium, AES 90W, 16Ω

Enclosure (feet included)

Front: 534 X 438 mm

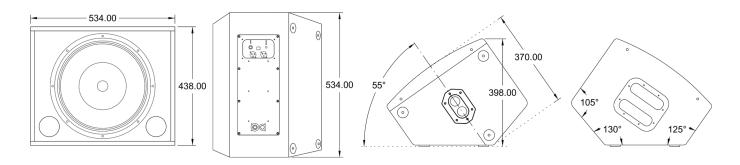
Depth: 370 mm

Net Weight: 23Kg

Connectors: 2 x Neutrik powerCON TRUE male and female; 2 x XLR male

and female; Ethernet







HORIZON SERIES • ME12Z

High Performance 12" Passive Trapezoidal Enclosure for Point Source and Horizontal Array

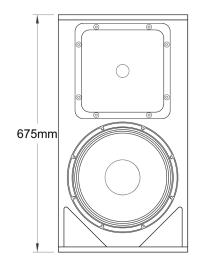
- Custom components.
- High SPL output (134dB peak).
- High performance PA enclosure. Excellent Array performance with up to 3 horizontal stacking enclosures.
- 90° x 60° rotatable horn (optional 60° x 40° for horizontal array).
- Custom passive filter with nultiple protections, made of High-End components
- HEPC® (High-End Phase Coherence) filter technology.
- 12 aerial fixing points for M10 nut. Plate for standard tripod.
- Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.

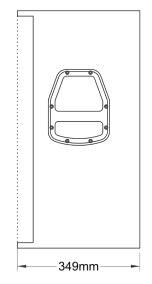


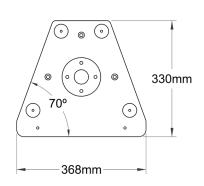




Frecuency Response:	60Hz - 19KHz
Sensitivity (1W@1m):	101dB
Power Handling (continuous):	AES 900W
Recommended Amplification:	1.200W
Nominal Impedance:	8Ω
Maximum SPL Power:	134dB peak (1m)
Horn:	90° x 60° (optional 60° x 40°), rotatable
Bass Components:	1 x 12" Neodymium, AES 700W, 8 Ω
Treble Components:	1 x 1.4" Neodymium, AES 80W, 8 Ω
Enclosure (vertical position)	
Front:	368 x 675mm
Depth:	330mm
Net Weight:	22Kg
Connectors:	2 x Neutrik Speakon









SPOT SERIES • ME6.5S

Ultra High Performance 6.5" Passive Compact Trapezoidal Enclosure

- · Custom components.
- Unbeatable power/weight ratio (120dB peak/8Kg).
- Passive enclosure with 1 x 6.5" LF and 1 x 1" HF drivers. Available in 8Ω and 16Ω versions.
- Custom passive filter made of High-End components.
- HEPC® (High-End Phase Coherence) filter technology.
- Ideal for portable PA systems in combination with SUB series subwoofers and for permanent installations.
- 80° conical horn.
- Available in black and white finishes as standard; wide range of RAL colours on request*.
- 12 aerial fixing points for M6 nut; accept K&M[®] mount model 24180.
- Includes plate with M20 thread on the lower side for standard tripod adapter.

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC® program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

Frecuency Response: 60Hz - 20KHz (+/- 6dB)

Sensitivity (1W@1m): 94dB

Power Handling (continuous): AES 300W

Recommended Amplification: 200W to 600W

Nominal Impedance: 8Ω (available in 16 Ω version)

Maximum SPL Power: 120dB peak (1m)

Horn: 80°, conical

Bass Components: 1×6.5 " Ferrite, AES 200W, 8Ω

Treble Components: 1 X 1" Neodymium, AES 20W, 8Ω

Enclosure (vertical position)

Front: 360 x 202mm

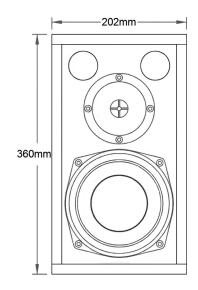
Depth: 197mm

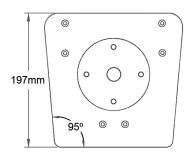
Net Weight: 8Kg

Connectors: 2 x Neutrik Speakon



DIMENSIONS







SPOT SERIES • MESSA MKII

Ultra High Performance 8" Active Compact Trapezoidal Enclosure

- Custom components.
- Unbeatable power/weight ratio (127dB peak/10.2Kg).
- Self-powered enclosure with 1 x 8" LF and 1 x 1" HF drivers. 90° x 60° rotatable horn. Available in 8Ω and 16Ω versions.
- Ideal for portable PA systems in combination with SUB series subwoofers and for permanent installations.
- Includes 2 Class D amplifiers of 400W each.
- Complete internal digital processing (includes 4 user-definable presets and Ethernet connector for programming, control and upgrades).
- Available in black and white finishes as standard; wide range of RAL colours on request*.
- Horizontal rigging by using an adjustable lyre. Vertical gravity rigging to one point by using a microbumper (adjustable inclination between o° and 6°).
- Plate for standard tripod with two holes for o° and 5° inclination.

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- MAGA ENGINEERING® 5-year limited warranty.



Armonía-Plus System Manager

(*) More information on page 66





Frecuency Response: 60Hz - 19KHz (+/- 3dB)

Maximum SPL Power: 127dB peak (1m)

Includes four single button user-definable presets: Preset 1: Full Range

Preset 2: Floor monitor

Preset 3: Set to 100Hz for use with subwoofer

Preset 4: Response for voice use

90° x 60°, rotatable Horn:

2 class D amplifiers with 400W @ 8Ω each, with complete digital Amplification:

processing

Bass Components: 1 x 8" Neodymium, AES 350W, 8Ω

Treble Components: 1 x 1" Neodymium, AES 40W, 16 Ω

Enclosure (vertical position)

252 X 432MM

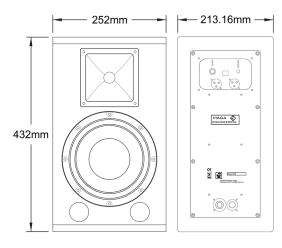
Depth: 252mm

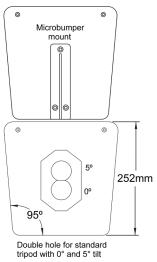
Net Weight: 10.2Kg

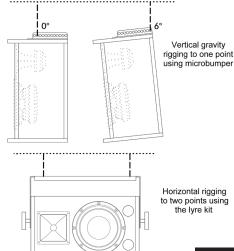
Front:

2 x Neutrik powerCON TRUE; 2 x XLR male and female; Ethernet Connectors:

DIMENSIONS







Horizontal rigging to two points using the lyre kit

Vertical gravity

Product Catalogue



SPOT SERIES • ME8S

Ultra High Performance 8" Passive Compact Trapezoidal Enclosure

- Custom components.
- Unbeatable power/weight ratio (127dB peak/11.2Kg).
- Passive enclosure with 1 x 8" LF and 1 x 1" HF drivers. 90° x 60° rotatable horn. Available in 8Ω and 16Ω versions.
- · Custom passive filter made of High-End components.
- HEPC® (High-End Phase Coherence) filter technology.
- Ideal for portable PA systems in combination with SUB series subwoofers and for permanent installations.
- Available in black and white finishes as standard; wide range of RAL colours on request*.
- Horizontal rigging by using an adjustable lyre. Vertical gravity rigging to one point by using a microbumper (adjustable inclination between o° and 6°).
- Plate for standard tripod with two holes for o° and 5° inclination.

- · Manufactured from 18 layers of Finnish birch.
- Woods used complies with the FSC[®] program which guarantees the control of production and reforestation.
- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- Hexagonal punched front screen and high-strength epoxy finish, with special acoustic coating to protect the loudspeakers against dust and dirt.
- · MAGA ENGINEERING® 5-year limited warranty.





(*) More information on page 66



TECHNICAL SPECIFICATIONS

Frecuency Response: 60Hz - 19KHz (+/- 3dB)

Sensitivity (1W@1m): 94dB

Power Handling (continuous): AES 400W

Recommended Amplification: 200W to 800W

> Nominal Impedance: 8Ω (available in versión 16 Ω)

Maximum SPL Power: 127dB peak (1m)

> Horn: 90° x 60°, rotatable

Bass Components: 1 x 8" Ferrite, AES 350W, 8Ω

Treble Components: 1 x 1" Ferrite, AES 40W, 16 Ω

Enclosure (vertical position)

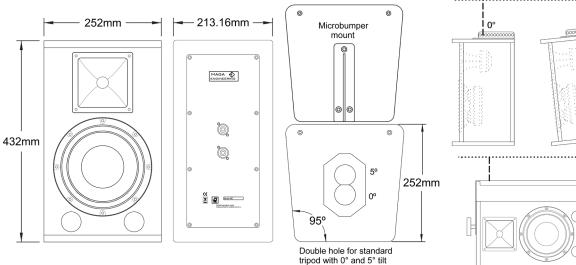
Front: 252 X 432MM

Depth: 252mm

Net Weight: 11.2Kg

Connectors: 2 x Neutrik Speakon

DIMENSIONS



Horizontal rigging to two points using the lyre kit

Vertical gravity rigging to one point using microbumper



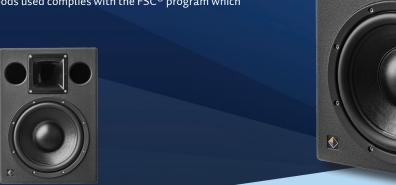
BROADCAST SERIES • ME10BA

High SPL Active Monitor for Mixing and Audiovisual Post-production Studios

- Custom components.
- Self-powered enclosure with 1 x 10" LF and 1 x 1" HF drivers.
- High SPL output (125dB peak).
- Specifically designed for mixing and audiovisual postproduction studios.
- Includes 2 class D 250W amplifiers, with analog (2 x XLR male/female, RCA) and digital (AES, S/PDIF and optical) connections; USB 2.0 configuration interface.
- Optional DANTE® connection.
- Full internal digital processing (includes 3 user selectable presets).
- 16 aerial fixing points for M8 nut, which allow any vertical or horizontal rigging position.
- Manufactured from 18 layers of Finnish birch.
- · Woods used complies with the FSC® program which

guarantees the control of production and reforestation.

- Finished with special Polyurea paint, waterproof and resistant to erosion and degradation.
- Rugged construction of panels, assembled with tongue and groove technique and subsequent gluing and pressing.
- MAGA ENGINEERING® 5-year limited warranty.





TECHNICAL SPECIFICATIONS

Frecuency Response: 45Hz - 22KHz (+/- 1dB)

Input Nominal Sensitivity: +4dBU

Maximum SPL Power: 125dB peak (1m)

Includes three single button user-definable presets: Preset 1: Flat

Preset 2: Treble way with -2dB

Preset 3: X-curve

Horn: 90° x 60°, rotatable

Amplification: $2 \times 250 \text{W}$ @ 4Ω class D amplifiers with complete digital

processing

Bass Components: 1 x 10" Ferrite, AES 250W, 4Ω

Treble Components: 1×1 " de Neodymium, AES 30W, 8Ω

Enclosure (vertical position)

Front: 330 x 450mm

Depth: 300mm

Net Weight: 18Kg

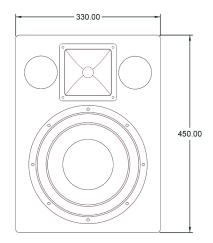
Connectors: Analog (2 x XLR male/female, RCA); Digital (AES, S/PDIF and

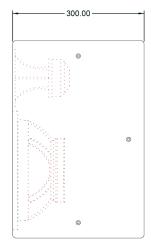
Optical); USB 2.0 configuration interface; optional DANTE®

connecttion



DIMENSIONS







SLIM SERIES • ME63SL

Ultra-compact Passive Column Speaker

- Custom components.
- Ultra-compact passive column speaker with 6 x 3" (0.75" voice coil) neodymium transducers.
- · High SPL output (125dB peak).
- Ideal for portable PA systems in combination with SUB series subwoofers and for permanent installations.
- Made of stainless steel.
- Welded and perfectly sealed structure with polymer coating to form an airtight housing.
- Includes plates integrated in the structure for the connection of several accessories such as wall brackets and adaptor for 35mm bar with inclination system.

- · Finished with special high resistance epoxy paint.
- Robust, heavy-duty front grille with special acoustic coating to protect the loudspeakers from dust and dirt.
- · Wide range of RAL colours on request*.
- · MAGA ENGINEERING® 5-year limited warranty.



TECHNICAL SPECIFICATIONS

Frecuency Response: 180Hz - 20KHz (+/- 3dB)

Sensitivity (1W@1m): 97dB

Power Handling (continuous): AES 150W

Recommended Amplification: 150W to 300W

Nominal Impedance: 32Ω

Maximum SPL Power: 125dB peak (1m)

Angle of Coverage: Horizontal: 100° / Vertical: 15°

Components: 6 x 3" (0.75" voice coil) Neodymium

Enclosure (vertical position)

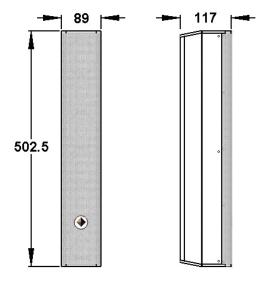
Front: 502.5 x 89mm

Depth: 117mm

Net Weight: 4.4Kg

Connectors: 2 x Neutrik Speakon

DIMENSIONS





SLIM SERIES • ME123SL

Ultra-compact Passive Column Speaker

- · Custom components.
- Ultra-compact passive column speaker with 6 x 3" (0.75" voice coil) neodymium transducers.
- · High SPL output (125dB peak).
- Ideal for portable PA systems in combination with SUB series subwoofers and for permanent installations.
- Made of stainless steel.
- Welded and perfectly sealed structure with polymer coating to form an airtight housing.
- Includes plates integrated in the structure for the connection of several accessories such as wall brackets and adaptor for 35mm bar with inclination system.
- · Finished with special high resistance epoxy paint.
- Robust, heavy-duty front grille with special acoustic coating to protect the loudspeakers from dust and dirt.
- · Wide range of RAL colours on request*.
- MAGA ENGINEERING® 5-year limited warranty.

(*) More information on page 66

TECHNICAL SPECIFICATIONS

Frecuency Response: 180Hz - 20KHz (+/- 3dB)

Sensitivity (1W@1m): 96dB

Power Handling (continuous): AES 300W

Recommended Amplification: 200W to 800W

Nominal Impedance: 8\Omega

Maximum SPL Power: 127dB peak (1m)

Angle of Coverage: Horizontal: 100° / Vertical: 15°

Components: 12 x 3" (0.75" voice coil) Neodymium

Enclosure (vertical position)

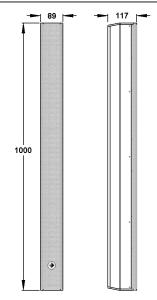
Front: 1.000 x 89mm

Depth: 117mm

Net Weight: 13Kg

Connectors: 2 x Neutrik Speakon

DIMENSIONS





Likewise, all DSP processors integrated in the amplifiers leave the factory programmed with specific presets to the configuration of the chosen system.

LINE ARRAY Systems

Our Line Array systems leave the factory as a turnkey project. To get the highest performance of our systems, we use the following amplifiers and models:

- Lab.gruppen® PLM Series™. PLM™ 12K44 and PLM™ 20K44 models.
- Powersoft® X Series™. X™8, X™4L and X™4 models.

All the amplifiers mentioned above are 4-channel models (except the Powersoft® X^{TM} 8 model, which is an 8-channel amplifier).

MAGA MINI Systems

Our Maga Mini systems can be self-powered or passive. In the case of self-powered Maga Mini systems, the enclosures include **Powersoft**® and **RAM Audio**® **amplifier modules**.

In the case of passive systems, we use **Powersoft® T Series™** amplification. These amplifiers are 4-channel models.

Below, you can find the technical specifications of each of the models mentioned above.

1,1,1,1,1,1



AMPLIFICATION FOR LINE ARRAY SYSTEMS

MAGA ENGINEERING® ME Pi4-10K

- 10.000W amplifier with 4 output channels.
- 4 x 2.500W (2 Ω / 4 Ω), 4 x 1.600W (8 Ω), 4 x 2.500W (Hi-Z 70V / Hi-Z 100V).
- Maximum output voltage 176V peak.
- · Maximum output current 50A peak.
- Amplifier designed with a non-symmetrical class H topology which allows working with very high voltages given incredible headroom and a great punch.
- Powerfull dual-precision 64-bit DSP (4 inputs/4 outputs) at 96 kHz, and high-performance AD/DA converters at 96 kHz/24 bits. Minimum process latency time of 0.85 ms. Custom FIR processes up to 1000 taps.
- Dante[™] Networking (compatible with AES67 and DDM) optional and AES3 digital inputs.
- Two-port Ethernet switch for daisy chain connection.
- USB port for firmware update and DSP control.
- Extra-large 4.3" IPS display, capacitive touch panel user interface.

- QuantaPulse™ SMPS.
- · Similar power per channel in any impedance.
- Advanced PMS™ (Power Management System) that incorporates a set of protection systems both in the power supply and in the audio modules (Soft-start protections, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PMS™ and SSP™) that works in real time continuously, keeping all amplifier variables within safe working thresholds always with the best reliability.
- Exceptional power sharing in asymmetrical loads.
- · Powerful and fast response cooling system.
- Industry standard Neutrik® XLR and Speakon® connectors.
- · 2-Year Warranty Program.
- · Designed and engineered in Spain.







General

Number of amplifier channels: 4

Total burst power all channels: 10.000W

Max. output power

Maximum output power per channel @ 8 Ω : 1.600W

Maximum output power per channel @ 4Ω / 2Ω : 2.500W

Maximum output power @ 8Ω Bridged: 5.000W

Maximum output power @ 4Ω Bridged: 5.000W

Hi-Z 70 V / Hi-Z 100 V: 2.500W

Amplifier output modules

Maximum output voltage: 176V

Maximum output current: 50A

Audio

Voltage Gain: 26dB - 44dB (1dB

step)

Total Harmonic Distortion: < 0.05 %

Intermodulation Distortion (SMPTE): < 0.05 %

Signal-to-Noise Ratio (SNR): 107,5dB

Channel separation (Crosstalk) at 1 kHz: > 70dB

Front Panel Interface

Firmware Update and DSP Control: 1 x USB type B

Rear Panel Interface

Analog, 2-channel 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 connectors: 4 x Neutrik speakON

Ethernet Control Ports (daisy chain): 2 x RJ45

Dante™ Networking* Digital Inputs

(compatible with AES67 and DDM): 2 x RJ45 Neutrik etherCON

Required AC Mains

Operating Voltage (50Hz-60Hz): 170V-265V AC / 90V-140V AC 1/8 Rated Power (@230V, 4 ohms): 16A

Dimensions and Weight

Width: 483 mm

Height: 89 mm

Depth: 320 mm

Weight: 8,5 kg

*: Dante® connection is optional.

More information on models and specifications can be found at www.magaengineering.com



AMPLIFICATION FOR LINE ARRAY SYSTEMS

LAB.GRUPPEN® PLM™ 12K44 SP

- 12.000W amplifier with 4 flexible output channels and up to 5.900W channel output for touring applications.
- + 4 x 3.000W (2 Ω / 2.67 Ω / 4 Ω), 4 x 1.900W (8 Ω), 4 x 950W (16 Ω), 4 x 3.000W (Hi-Z 70V / Hi-Z 100V).
- Proven and reliable Class-TD output stage with proprietary Intercooler[®] high-efficiency cooling system.
- LAKE™ digital signal processing for unparalleled loudspeaker management and system control.
- Integrated 8x8 channels of dual redundant Dante digital audio networking with AES67 support.
- Rational Power Management (RPM) provides total flexibility to allocate available power across all 4 output channels.
- Best-in-class Power Factor Correction (PFC) with Current Draw Modelling reduces running costs and minimizes environmental impact.
- Under-Voltage Limiting (UVL) for continued operation during severe mains supply voltage drops.
- Universal power supply (70-265V AC).
- · Redundant audio inputs and on-board system

- surveillance for full system security.
- Backlit, white-on-black front panel display and menu navigation buttons.
- 3 front-to-rear airflow fans with temperature control for optimal speed and reduced noise. Removable dust filter grilles for increased air circulation.
- 4 "LAKE Class" analog input channels with Iso-Float ground isolation.
- 4 input channels of AES/EBU (AES3) digital audio supporting all standard sample rates up to 192 kHz with 24-bit resolution.
- 2 Neutrik etherCON RJ-45 ports provide dual redundant Dante™ interfaces and remote configuration via LAKE™ Controller and Dante™ Controller software.
- Balanced analog and AES/EBU audio inputs on Neutrik XLR connectors.
- 1 NLT8 and 2 NLT4 Neutrik speakON output connectors.
- 10-Year Warranty Program.
- · Designed and engineered in Sweden.









General

Processing / Network: Lake/Dante

Number of amplifier channels: 4

Total burst power all channels (share among

channels with RPM): 12.000W

Max. output power (all channels driven)

2Ω / 2,67Ω / 4Ω: 3.000W

8Ω: 1.900W

16Ω: 950W

Hi-Z 70 V / Hi-Z 100 V: 3.000W

Amplifier output modules (all channels)

Peak output voltage: 194V

Max. output current: 67A

Audio Performance (Amplifier platform with

digital input)

THD + N 20 Hz - 20 kHz for 1 W: < 0.05 %

THD + N at 1 kHz and 1 dB below clipping: < 0.04 %

Dynamic range: > 114dB

Channel separation (Crosstalk) at 1 kHz: > 70dB

Frequency response (1 W into 8Ω , 20 Hz - 20 kHz): +/- 0.05dB

Internal Sample Rate / Data path: $48 / 96 \, \text{kHz} / 32 \, \text{bit}$

floating point

Product propagation delay AES 96 kHz / analog

input: 1.61 / 1.68ms

AES Inputs

Inputs: 4 AES inputs

Supported sample rates / resolution: 44.1, 48, 88.2, 96,

176.4, 192 kHz / up to 24 bits

Sample rate conversion THD+N 20 Hz - 20 kHz

unweighted: 0.0000003

Analog Inputs

Inputs: 4

Maximum input / digital reference: +26 dBu / +21 dBu

Sampling rate / Resolution: 96kHz / 24 bit

Input impedance balanced /

unbalanced: 20 / 10 kΩ

THD+N (typical at 1 kHz

unweighted): 0.0000022

THD+N (typical at 20 Hz and 20 kHz

unweighted): 0.0000033

Back panel Interface

Analog, 2-channel I/O (input + link): 4 x 3-pin XLR, electronically

balanced

AES / EBU / I/O (input + link): 2 x 3-pin XLR

Output connectors: Neutrik speakON (1 x NLT8, 2 x

NLT4) or 4 Binding Posts (pairs)

Auto 10/100, Auto Uplink: 2 x RJ45 etherCON

Control and monitoring interface: Via Ethernet for Lake Controller

software, or DLM (the 3rd party

protocol)

Mains Power

Nominal voltage: 100 - 240V AC, 45 - 66Hz

Operating voltage: 70 - 265V AC

Dimensions and Weight

Front: 483 x 88 mm

Depth: 424 mm

Weight: 16.5 kg

More information on models and specifications can be found at www.labgruppen.com





AMPLIFICATION FOR LINE ARRAY SYSTEMS

LAB.GRUPPEN® PLM™ 20K44 SP

- 20.000W amplifier with 4 flexible output channels and up to 5.900W channel output for touring applications.
- 4 x 4.400W (2 Ω / 4 Ω), 4 x 5.000W (2.67 Ω), 4 x 2.300W (8 Ω), 4 x 1.150W (16 Ω), 4 x 3.300W (Hi-Z 70V), 4 x 4.700W (Hi-Z 100V).
- Proven and reliable Class-TD output stage with proprietary Intercooler® high-efficiency cooling system.
- LAKE™ digital signal processing for unparalleled loudspeaker management and system control.
- Integrated 8x8 channels of dual redundant Dante digital audio networking with AES67 support.
- Rational Power Management (RPM) provides total flexibility to allocate available power across all 4 output channels.
- Best-in-class Power Factor Correction (PFC) with Current Draw Modelling reduces running costs and minimizes environmental impact.
- Under-Voltage Limiting (UVL) for continued operation during severe mains supply voltage drops.
- Universal power supply (70-265V AC).

- Redundant audio inputs and on-board system surveillance for full system security.
- Backlit, white-on-black front panel display and menu navigation buttons.
- 3 front-to-rear airflow fans with temperature control for optimal speed and reduced noise. Removable dust filter grilles for increased air circulation.
- 4 "LAKE Class" analog input channels with Iso-Float ground isolation.
- 4 input channels of AES/EBU (AES3) digital audio supporting all standard sample rates up to 192 kHz with 24-bit resolution.
- 2 Neutrik etherCON RJ-45 ports provide dual redundant Dante™ interfaces and remote configuration via LAKE™ Controller and Dante™ Controller software.
- Balanced analog and AES/EBU audio inputs on Neutrik XLR connectors.
- 1 NLT8 and 2 NLT4 Neutrik speakON output connectors.
- 10-Year Warranty Program.
- · Designed and engineered in Sweden.







	3PEU
General	
Processing / Network:	Lake/Dante
Number of amplifier channels:	4
Total burst power all channels (share among	
channels with RPM):	20.000 W
Max. output power (all channels driven)	
2Ω / 4Ω:	4.400 W
2,67Ω:	5.000 W
8Ω:	2.300 W
16Ω:	1.1500 W
Hi-Z 70V / Hi-Z 100V:	3.300W / 4.700W
Amplifier output modules (all channels)	
Peak output voltage:	194V
Max. output current:	67A
udio Performance (Amplifier platform with digital input)	
THD + N 20 Hz - 20 kHz for 1 W:	< 0.05 %
THD + N at 1 kHz and 1 dB below clipping:	< 0.04 %
Dynamic range:	> 114dB
Channel separation (Crosstalk) at 1 kHz:	> 70dB
juency response (1 W into 8 Ω , 20 Hz - 20 kHz):	+/- o.o5dB
Internal Sample Rate / Data path:	48 / 96kHz / 32 bit
	floating point
roduct propagation delay AES 96 kHz / analog	
input:	1.61 / 1.68 ms
AES Inputs	
Inputs:	4 AES inputs
Supported sample rates / resolution:	44.1, 48, 88.2, 96,
	176.4, 192kHz / up
	to 24 bits

Sample rate conversion THD+N 20 Hz - 20 kHz

unweighted: 0.0000003

Analog Inputs	
Inputs:	4
Maximum input / digital reference:	+26 dBu / +21 dBu
Sampling rate / Resolution:	96kHz / 24 bit
Input impedance balanced /	
unbalanced:	20 / 10kΩ
THD+N (typical at 1 kHz	
unweighted):	0.0000022
THD+N (typical at 20 Hz and 20 kHz	
unweighted):	0.0000033
Back panel Interface	
Analog, 2-channel I/O (input + link):	4 x 3-pin XLR, electronically
	balanced
AES / EBU / I/O (input + link):	2 x 3-pin XLR
Output connectors: Neutrik speakON (1 x NLT8, 2 x	
	NLT4) or 4 Binding Posts (pairs)
Auto 10/100, Auto Uplink:	2 x RJ45 etherCON
Control and monitoring interface: Via Ethernet for Lake Controller	
	software, or DLM (the 3rd party

Mains Power

Nominal voltage: 100 - 240V AC, 45 - 66Hz Operating voltage: 70 - 265V AC

protocol)

Dimensions and Weight

Front: 483 x 88 mm

Depth: 424 mm

Weight: 17 kg

More information on models and specifications can be found at www.labgruppen.com





AMPLIFICATION FOR LINE ARRAY SYSTEMS

POWERSOFT® X™4

- 12.000W amplifier with 4 flexible output channels.
- 4 x 5.200W (2 Ω), 4 x 4.000W (2.7 Ω), 4 x 3.000W (4 Ω), 4 x 1.600W (8 Ω).
- Maximum output voltage of 175V peak.
- Maximum output current of 130A peak.
- Top-grade DSP with ArmoníaPlus System Manager™, high dynamic range and extensive feature set, multi-stage signal processing (innovative solutions for modeling speakers behaviour and power handling), input and output equalizers IIR, FIR, IIR+FIR and raised-cosine fiters, complete sets of limiters (peak, RMS voltage, RMS current, and TruePower™) and compensation of the speaker cable losses with Active DampingControl™.
- Power supply suitable for Single-Phase, Bi-Phase or Three-Phase operation, from 85 VAC up to 460 VAC, provides maximum flexibility and versatility in any power distribution design.
- Power Load Balancing with Power Factor Correction enhances effiiency in power distribution.
- Powersoft Green Audio Power[®] technologies improves

- effiiency and minimizes the 'carbon footprint' and the operational costs.
- Flexible routing/mixing provided by the internal 4x4 input/output matrix, allows the user to mix and route analog and digital I/O.
- Easy plug-and-play Dante[®] (optional) networking allows easy routing of the signal from any node within the network to Powersoft X4.
- 4 input channels with physical analog and digital AES3 connectors and 2 redundant Dante[®] (optional) connection provide maximum flexibility.
- Improved reliability thanks to the customizable input backup policy that allows to automatically switch input source in case of signal failure.
- Complete user interface integrated into Armonía Pro Audio Suite™.
- WiFi remote monitoring through smartphone and tablet.
- 4-Year Warranty Program.
- · Designed and engineered in Italy.







TECHNICAL **SPECIFICATIONS**

Channel Handling

Number of output channels: 4 mono, bridgeable

per ch. pair

Number of input channels (analog): 4 (4 x XLR)

Number of input channels (AES3): 4 (2 x XLR)

Number of input channels (Dante™ *): 16 (2 x RJ45)

Output Stage

Maximum output power per channel @ 8Ω: 1.600W

Maximum output power per channel @ 4Ω : 3.000W

Maximum output power per channel @ 2.7Ω: 4.000W

Maximum output power per channel @ 2Ω: 5.200W

Maximum output power @ 8Ω Bridged: 6.000W

Maximum output power @ 4Ω Bridged: 10.400W

Peak total output, all channels driven: 20.000W

Maximum unclipped output voltage: 175V peak

Maximum output current: 130A peak

Audio

Gain: 17dB - 47dB (0.1 dB

increments)

Default Gain: 32dB

Output Noise A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: -70.odBV

Dynamic Range A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: 114.3dB

Damping Factor @ 8Ω , 20Hz - 500Hz: > 5.000

Slew Rate (input fiter bypassed): > 50V/µs

Frequency Response (-3 dB, 1W @ 8Ω): 5Hz - 30kHz

Crosstalk (1 kHz): -70dB

THD+N (from 0.1W to Full Power): < 0.5% (typical <

DIM (from 0.1W to Full Power): < 0.5% (typical <

0.01%)

Input Impedance: $20k\Omega$ Balanced

Input Acceptance: +27dBu

AC Mains Power

Single Phase

Nominal Voltage: 100 - 240V @ 50/60Hz

Operating Range: 90 - 264V from DC to 200Hz

Power Factor (1/8 Maximum Output

Power $@4\Omega$): > 0.9

Current Draw (1/8 Maximum Output

Power @ 4Ω): 18A rms @ 100V / 9A rms @ 240V

Suggested circuit breaker: C16

Three Phase

Nominal Voltage: 173Y/100 - 416Y/240 V

3~, 3W+N+PE/3W+PE

Power Factor (1/8 Maximum Output

Power @ 4Ω): > 0.9

Current Draw from Each Single Phase

(1/8 Maximum Output Power @ 4Ω): 6A rms @ 173Y / 3A rms @ 416Y

Suggested circuit breaker (per phase): C10

Idle Consumption (all AC MAINS

cases): < 100 W

Max. consumption (all AC MAINS

cases): < 3.000 W

Thermal

Operating temperature: 0° - 35° C / 32° - 95° F

Cooling: Fan, continuously variable

speed, temperature controlled

Dimensions and Weight

Front: 483 x 44.5 mm

Depth: 495 mm

Weight: 15kg

*: Dante® connection is optional.

More information on models and specifications can be found at www.powersoft.com

Product Catalogue



AMPLIFICATION FOR LINE ARRAY SYSTEMS

POWERSOFT® XTM8

- 24.000W amplifier with 8 flexible output channels.
- 8 x 5.200W (2 Ω), 8 x 4.000W (2.7 Ω), 8 x 3.000W (4 Ω), 8 x 1.600W (8 Ω).
- Maximum output voltage of 175V peak.
- Maximum output current of 130A peak.
- Top-grade DSP with ArmoníaPlus System Manager™, high dynamic range and extensive feature set, multi-stage signal processing (innovative solutions for modeling speakers behaviour and power handling), input and output equalizers IIR, FIR, IIR+FIR and raised-cosine fiters, complete sets of limiters (peak, RMS voltage, RMS current, and TruePower™) and compensation of the speaker cable losses with Active DampingControl™.
- Power supply suitable for Single-Phase, Bi-Phase or Three-Phase operation, from 85 VAC up to 460 VAC, provides maximum flexibility and versatility in any power distribution design.
- Power Load Balancing with Power Factor Correction enhances effiiency in power distribution.
- Powersoft Green Audio Power® technologies improves

- effilency and minimizes the 'carbon footprint' and the operational costs.
- Flexible routing/mixing provided by the internal 8x8 input/output matrix, allows the user to mix and route analog and digital I/O.
- Easy plug-and-play Dante[®] (optional) networking allows easy routing of the signal from any node within the network to Powersoft X8.
- 8 input channels with physical analog and digital AES3 connectors and 2 redundant Dante[®] (optional) connection provide maximum flexibility.
- Improved reliability thanks to the customizable input backup policy that allows to automatically switch input source in case of signal failure.
- Complete user interface integrated into Armonía Pro Audio Suite™.
- WiFi remote monitoring through smartphone and tablet.
- 4-Year Warranty Program.
- Designed and engineered in Italy.





Armonía-Plus System Manager





Channel Handling

Number of output channels: 8 mono, bridgeable

per ch. pair

Number of input channels (analog): 8 (8 x XLR)

Number of input channels (AES3): 8 (4 x XLR)

Number of input channels (Dante™ *): 16 (2 x RJ45)

Output Stage

Maximum output power per channel @ 8Ω: 1.600W

Maximum output power per channel @ 4Ω : 3.000W

Maximum output power per channel @ 2.7Ω: 4.000W

Maximum output power per channel @ 2Ω: 5.200W

Maximum output power @ 8Ω Bridged: 6.000W

Maximum output power @ 4Ω Bridged: 10.400W

Peak total output, all channels driven: 40.000W

Maximum unclipped output voltage: 175V peak

Maximum output current: 130A peak

Audio

Gain: 17dB - 47dB (0.1 dB

increments)

Default Gain: 32dB

Output Noise A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: -70.odBV

Dynamic Range A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: 114.3dB

Damping Factor @ 8Ω , 20Hz - 500Hz: > 5.000

Slew Rate (input fiter bypassed): > 50V/µs

Frequency Response (-3 dB, 1W @ 8Ω): 5Hz - 30kHz

Crosstalk (1 kHz): -70dB

THD+N (from 0.1W to Full Power): < 0.5% (typical <

DIM (from o.1W to Full Power): < 0.5% (typical <

0.01%)

Input Impedance: $20k\Omega$ Balanced

Input Acceptance: +27dBu

AC Mains Power

Single Phase

Nominal Voltage: 100 - 240V @ 50/60Hz

Operating Range: 90 - 264V from DC to 200Hz

Power Factor (1/8 Maximum Output

Power $@4\Omega$): > 0.9

Current Draw (1/8 Maximum Output

Power @ 4Ω): 32A rms @ 100V / 18A rms @ 240V

Suggested circuit breaker: C32

Three Phase

Nominal Voltage: 173Y/100 - 416Y/240 V

3~, 3W+N+PE/3W+PE

Power Factor (1/8 Maximum Output

Power @ 4Ω): > 0.9

Current Drawn from Each Single

Phase (1/8 Max. Output Power @ 4Ω): 12A rms @ 173Y / 6A rms @ 416Y

Suggested circuit breaker (per phase): C16

Idle Consumption (all AC MAINS

cases): < 200 W

Max. consumption (all AC MAINS

cases): < 5.000 W

Thermal

Operating temperature: o° - 35°C / 32° - 95°F

Cooling: Fan, continuously variable speed,

temperature controlled

Dimensions and Weight

Front: 483 x 89 mm

Depth: 495 mm

Weight: 24kg

*: Dante® connection is optional.

More information on models and specifications can be found at www.powersoft.com

Product Catalogue



AMPLIFICATION FOR LINE ARRAY SYSTEMS

POWERSOFT® X™4L

- 27.000W amplifier with 4 flexible output channels.
- 4 x 8.200W (2 Ω), 4 x 7.700W (2.7 Ω), 4 x 6.800W (4 Ω), 4 x 4.800W (8 Ω).
- Maximum output voltage of 300V peak.
- Maximum output current of 140A peak.
- Top-grade DSP with ArmoníaPlus System Manager™, high dynamic range and extensive feature set, multi-stage signal processing (innovative solutions for modeling speakers behaviour and power handling), input and output equalizers IIR, FIR, IIR+FIR and raised-cosine fiters, complete sets of limiters (peak, RMS voltage, RMS current, and TruePower™) and compensation of the speaker cable losses with Active DampingControl™.
- Power supply suitable for Single-Phase, Bi-Phase or Three-Phase operation, from 85 VAC up to 460 VAC, provides maximum flexibility and versatility in any power distribution design.
- Power Load Balancing with Power Factor Correction enhances effiiency in power distribution.
- Powersoft Green Audio Power® technologies improves

- efficency and minimizes the 'carbon footprint' and the operational costs.
- Flexible routing/mixing provided by the internal 4x4 input/output matrix, allows the user to mix and route analog and digital I/O.
- Easy plug-and-play Dante[®] (optional) networking allows easy routing of the signal from any node within the network to Powersoft X4.
- 4 input channels with physical analog and digital AES3 connectors and 2 redundant Dante[®] (optional) connection provide maximum flexibility.
- Improved reliability thanks to the customizable input backup policy that allows to automatically switch input source in case of signal failure.
- Complete user interface integrated into Armonía Pro Audio Suite™.
- WiFi remote monitoring through smartphone and tablet.
- 4-Year Warranty Program.
- Designed and engineered in Italy.



Armonía-Plus System Manager





Channel Handling

Number of output channels: 4 mono
Number of input channels (analog): 4 (4 x XLR)
Number of input channels (AES3): 4 (2 x XLR)

Number of input channels (Dante™ *): 16 (2 x RJ45)

Output Stage (Symmetrical / Asymmetrical)

Maximum output power per channel @ 8Ω : 4.800W / 5.000WMaximum output power per channel @ 4Ω : 6.800W / 8.400WMaximum output power per channel @ 2.7Ω : 7.700W / 9.600WMaximum output power per channel @ 2Ω : 8.200W / 10.000WPeak total output, all channels driven: 32.800W / 25.000WMaximum unclipped output voltage: 300V peak
Maximum output current: 140A peak
(Symmetrical: Measured by driving and loading symmetrically all the channels / Asymmetrical: Measured by driving all channels, but with

every second channel at -6dB)

Audio

Gain: 17dB - 47dB (0.1 dB increments)

Default Gain: 32dB

Output Noise A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: <-67dBV / <-67.5dBV

Dynamic Range A-Weighted @ 8Ω - Analog to

Analog / Digital to Analog: 113.5dB / 114dB

Damping Factor @ 8Ω , 20Hz - 500Hz: > 5.000

Slew Rate (input fiter bypassed): $> 50V/\mu s$

Frequency Response (-3 dB, 1W @ 8Ω): 5Hz - 22.5kHz

Crosstalk (1 kHz): -70dB

THD+N (from 0.1W to Full Power): < 0.5% (typical <

0.01%)

DIM (from 0.1W to Full Power): < 0.5% (typical <

0.01%)

Input Impedance: $20k\Omega$ Balanced

Input Acceptance: +27dBu

AC Mains Power

Single Phase

Nominal Voltage: 100 - 240V @ 50/60Hz

Operating Range: 90 - 264V from DC to 200Hz

Current Draw (1/8 Maximum Output

Power @ 4Ω): 26A rms @ 115V / 13A rms @ 230V

Suggested circuit breaker: C32 - C32/C16

Three Phase

Nominal Voltage: 173Y/100 - 416Y/240 V

3, 3W+N+PE/3W+PE

Current Draw from Each Single Phase

(1/8 Maximum Output Power @ 4Ω): 9A rms @ 199V Y three phase

115V / 5A rms @ 400V Y three

phase 230V

Suggested circuit breaker (per phase): C16

Idle Consumption (all AC MAINS

cases): < 230W

Max. consumption (all AC MAINS

cases): < 5.000W

Thermal

Operating temperature: o° - 35°C / 32° - 95°F

Cooling: Fan, continuously variable

speed, temperature controlled

Dimensions and Weight

Front: 483 x 88mm

Depth: 495 mm

Weight: 24kg

*: Dante® connection is optional.

More information on models and specifications can be found at www.powersoft.com



AMPLIFICATION FOR MAGA MINI SYSTEMS

POWERSOFT® T™304

- 3.000W amplifier with 4 flexible output channels.
- 4 x 750W (2 Ω / 4 Ω / 8 Ω).
- Maximum output voltage of 145V peak.
- Maximum output current of 50A peak.
- Top-grade DSP with ArmoníaPlus System Manager™, high dynamic range and extensive feature set, multi-stage signal processing (innovative solutions for modeling speakers behaviour and power handling), input and output equalizers IIR, FIR, IIR+FIR and raised-cosine fiters, complete sets of limiters (peak, RMS voltage, RMS current, and TruePower™) and compensation of the speaker cable losses with Active DampingControl™.
- Universal power supply, from 90 VAC up to 264 VAC
- Easy plug-and-play Dante[®] networking allows easy routing of the signal from any node within the network to Powersoft T304.
- 4 analog input channels with physical XLR connectors.
- 1 digital AES₃ input channel and 1 Dante[®] input provide maximum flexibility.
- Complete user interface integrated into Armonía Pro Audio Suite™.
- · WiFi remote monitoring through smartphone and tablet.
- · 4-Year Warranty Program.
- · Designed and engineered in Italy.





TECHNICAL SPECIFICATIONS

Channel Handling

Number of output channels: 4 mono, bridgeable

per ch. pair

Number of input channels (analog): $4(4 \times XLR)$

Number of input channels (AES₃): 1 (1 x XLR)

Number of input channels (Dante™): 1 (1 x XLR)

Output Stage (Symmetrical / Asymmetrical)

Maximum output power per channel @ 8Ω : 750W / 1.200W

Maximum output power per channel @ 4Ω : 750W / 1.200W

Maximum output power per channel @ 2Ω : 750W / 1.200W

Maximum unclipped output voltage: 145V peak

Maximum output current: 50A peak

(Symmetrical: Measured by driving and loading symmetrically all the

channels / Asymmetrical: Measured by driving all channels, but with

every second channel at -6dB)

Audio

Gain: 32dB

Input sensitivity @ 8Ω : 2.57V rms

S/N (20 Hz - 20 kHz @ 8Ω): >110dB

Max input level: 24dBu

Frequency Response: 20Hz - 20kHz +/-

o.5dB

Crosstalk (1 kHz): <-70dB

Input impedance: $20k\Omega$ Balanced

CMRR: >65dB

THD+N (from 0.1 W to Half Power): < 0.1% (typical <

0.05%)

SMPTE IMD (from 0.1 W to Half Power): < 0.1% (typical <

0.05%)

Output impedance at 100 Hz: $26m\Omega$

AC Mains Power

Nominal Voltage (+/- 10%): 100 - 240 V @ 50/60 Hz

Operating Range: 90 - 264V @ 50/60Hz

@ 120V

Standby Power: 15W

Idle Power: 32W

Power (1/8 of maximum output power

(a) 4Ω): 532W

Current Draw (1/8 of maximum output

power @ 4Ω): 4.7A rms

Thermal Loss (1/8 of maximum output

power @ 4Ω): 537BTU/h

@ 230V

Standby Power: 16W

Idle Power: 32W

Power (1/8 of maximum output power

(a) 4Ω): 525W

Current Draw (1/8 of maximum output

power @ 4Ω): 2.7A rms

Thermal Loss (1/8 of maximum output

power @ 4Ω): 512BTU/h

Dimensions and Weight

Front: 484 x 44.5 mm

Depth: 405 mm

Weight: 7.1kg

More information on models and specifications can be found at www.powersoft.com





AMPLIFICATION FOR MAGA MINI SYSTEMS

POWERSOFT® T™604

- 6.000W amplifier with 4 flexible output channels.
- 4 x 1.500W (2 Ω / 4 Ω), 4 x 1.250W (8 Ω).
- Maximum output voltage of 145V peak.
- Maximum output current of 50A peak.
- Top-grade DSP with ArmoníaPlus System Manager™, high dynamic range and extensive feature set, multi-stage signal processing (innovative solutions for modeling speakers behaviour and power handling), input and output equalizers IIR, FIR, IIR+FIR and raised-cosine fiters, complete sets of limiters (peak, RMS voltage, RMS current, and TruePower™) and compensation of the speaker cable losses with Active DampingControl™.
- · Universal power supply, from 90 VAC up to 264 VAC
- Easy plug-and-play Dante[®] networking allows easy routing of the signal from any node within the network to Powersoft T604.
- 4 analog input channels with physical XLR connectors.
- 1 digital AES3 input channel and 1 Dante[®] input provide maximum flexibility.
- Complete user interface integrated into Armonía Pro Audio Suite™.
- · WiFi remote monitoring through smartphone and tablet.
- 4-Year Warranty Program.
- Designed and engineered in Italy.





Channel Handling

Number of output channels: 4 mono, bridgeable

per ch. pair

Number of input channels (analog): 4 (4 x XLR)

Number of input channels (AES₃): $1(1 \times XLR)$

Number of input channels (DanteTM): $1(1 \times XLR)$

Output Stage (Symmetrical / Asymmetrical)

Maximum output power per channel @ 8 Ω : 1.250W / 1.250W

Maximum output power per channel @ 4Ω : 1.500W / 2.100W

Maximum output power per channel @ 2Ω : 1.500W / 1.600W

Maximum unclipped output voltage: 145V peak

Maximum output current: 50A peak

(Symmetrical: Measured by driving and loading symmetrically all the

channels / Asymmetrical: Measured by driving all channels, but with

every second channel at -6dB)

Audio

Gain:: 32dB

Input sensitivity @ 8Ω: 2.57V rms

S/N (20 Hz - 20 kHz @ 8Ω): >110dB

Max input level: 24dBu

Frequency Response: 20Hz - 20kHz +/-

o.5dB

Crosstalk (1 kHz): <-70dB

Input impedance: $20k\Omega$ Balanced

CMRR: >65dB

THD+N (from 0.1 W to Half Power): < 0.1% (typical <

0.05%)

SMPTE IMD (from 0.1 W to Half Power): < 0.1% (typical <

0.05%)

Output impedance at 100 Hz: $26m\Omega$

AC Mains Power

Nominal Voltage (+/- 10%): 100 - 240V @ 50/60Hz

Operating Range: 90 - 264V @ 50/60Hz

@ 120V

Standby Power: 15W

Idle Power: 32W

Power (1/8 of maximum output power

(a) 4Ω): 1.054W

Current Draw (1/8 of maximum output

power @ 4Ω): 9.5A rms

Thermal Loss (1/8 of maximum output

power @ 4Ω): 1.039BTU/h

@ 230V

Standby Power: 16W

Idle Power: 32W

Power (1/8 of maximum output power

@4Ω): 1.027W

Current Draw (1/8 of maximum output

power @ 4Ω): 5.2A rms

Thermal Loss (1/8 of maximum output

power @ 4Ω): 944BTU/h

Dimensions and Weight

Front: 484 x 44.5 mm

Depth: 405 mm

Weight: 7.5kg

More information on models and specifications can be found at www.powersoft.com



NOTES



The ME10V, ME10V wide, ME20V, ME24V, ME12W, ME15WX, ME12Z, ME6.5S and ME8S systems are equipped with HEPC® (High-End Phase Coherence) filtering technology, which guarantees a perfect sum and powerful, clear and highly intelligible coverage. In the case of the ME10V Line Array system, a perfect sum and a powerful, clear and highly intelligible coverage is guaranteed at distances of up to 70 meters (*). This is a real milestone for a compact, lightweight line array system (24 kilograms per element).

(*) For Line Arrays of eight (8) or more elements. This feature is truly unique, taking into account the extremely reduced dimensions and weight of each Maga Engineering® ME10V Line Array element. In general, each configuration must be dimensioned for the needs of the event, as well as the characteristics of the site and the audience. Maga Engineering® is not responsible for pressure and/or intelligibility losses caused by cross-wind or other external factors.



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State of the Art Sound Systems



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