

MAGA
ENGINEERING
LINE ARRAY CONFIGURATIONS



 **MADE AND
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IN SPAIN**

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Line array configurations
Revision September 2024

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ME10V LINE ARRAY CONFIGURATIONS

INTRODUCTION

This annex aims to illustrate the versatility of the **Maga Engineering**[®] **ME10V** line array system.

The configurations or systems proposed below are sufficient to cover the vast majority of medium and large-scale events and productions that require a line array system, thanks to the extraordinary performance and high sound pressure level (SPL) of the **ME10V** cabinet (137 dB peak at 1 meter) and the **ME218LEX** subwoofer (140 dB peak at 1 meter).

However, the modularity and versatility of our systems allow for an expanded number of configurations to find the one that best suits the user's needs. Therefore, the systems shown below are just a sample of the many configurations that can be assembled.

The proposed configurations are designed to make optimal use of the power and features of our new amplifiers, the **ME 10K** (10,000 W) and **ME 20K** (20,000 W) models. Specifically designed to power our **ME10V** and **ME20V** line array systems, these new models are 4-channel amplifiers with state-of-the-art technology, integrating silicon carbide (SiC) transistors, a universal power supply, and a powerful DSP processor with high-performance 96 kHz/24-bit AD/DA converters.

As an alternative to our amplification, we suggest using the amplification developed by Lab.gruppen® (PLM™ Series) or Powersoft® (X™ Series).

MAGA ENGINEERING



ME10V.1 LINE ARRAY SYSTEM STACKED

3 x ME10V



ME218LEX

3 x ME10V



ME218LEX

Maga Engineering®
ME 20K



ME10V.1 LINE ARRAY SYSTEM STACKED

System Setup: Stacked on top of dual 18" ME218LEX subwoofers in vertical position

Power: 9600 W AES

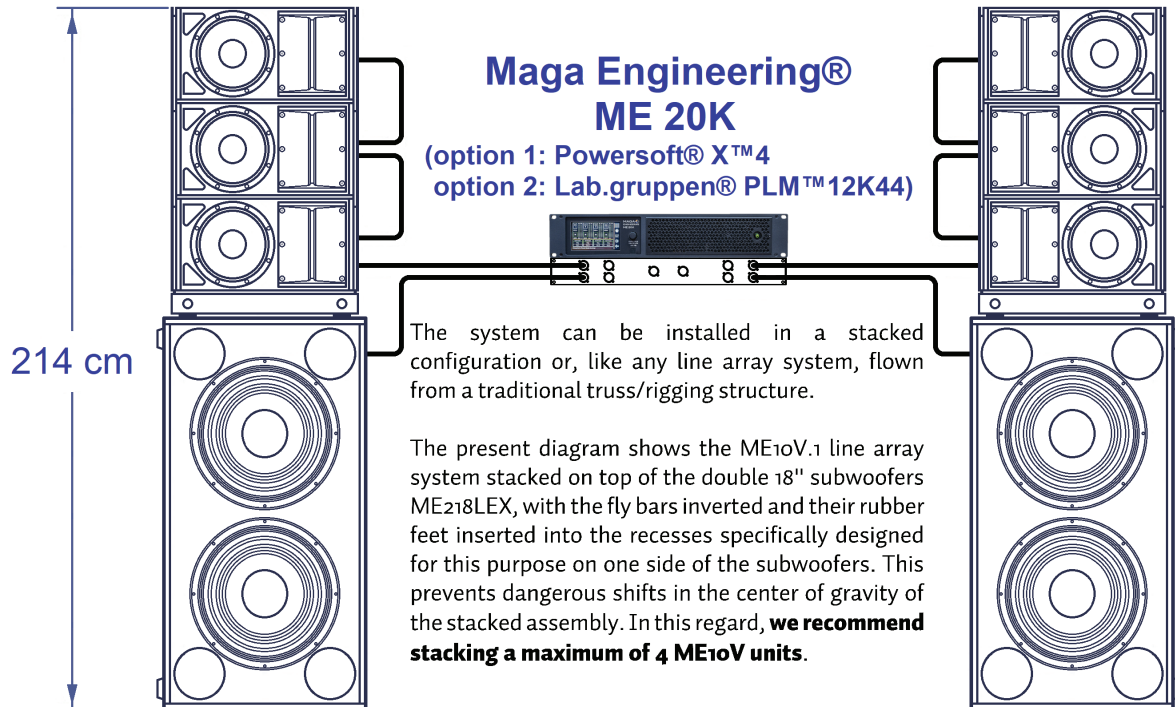
Amplification: 1 Maga Engineering® ME 20K amplifier

(option 1: 1 Powersoft® X™4 amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier)

Configuration: 6 ME10V satellites + 2 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (theaters, auditoriums) and outdoor venues



ME10V.1 LINE ARRAY SYSTEM

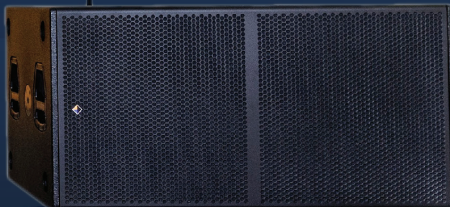
3 x ME10V



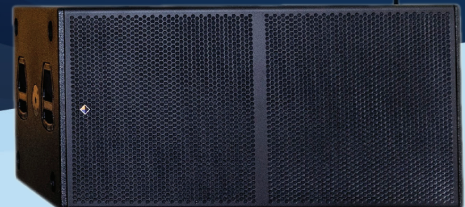
3 x ME10V



Maga Engineering®
ME 20K



ME218LEX



ME218LEX

ME10V.1 LINE ARRAY SYSTEM

System Setup: Flown

Power: 9600 W AES

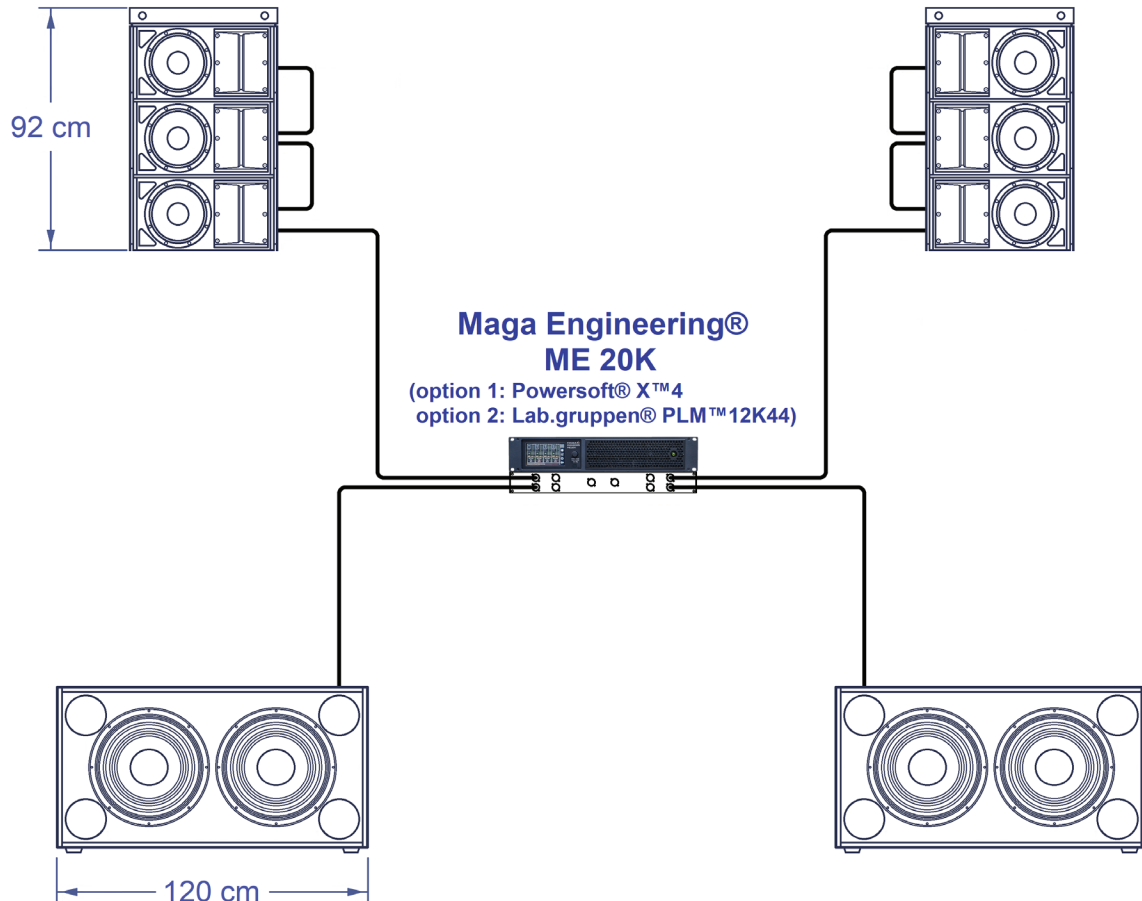
Amplification: 1 Maga Engineering® ME 20K amplifier

(option 1: 1 Powersoft® X™4 amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier)

Configuration: 6 ME10V satellites + 2 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (theaters, auditoriums) and outdoor venues

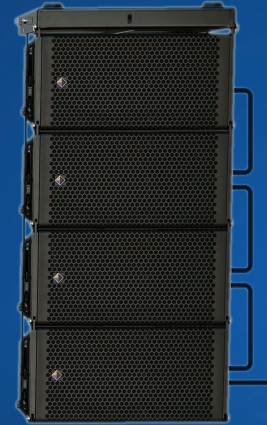


ME10V.2 LINE ARRAY SYSTEM

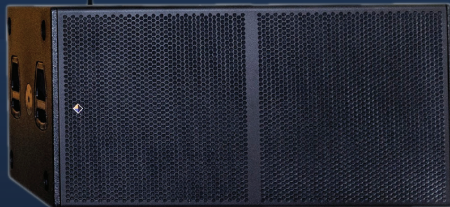
4 x ME10V



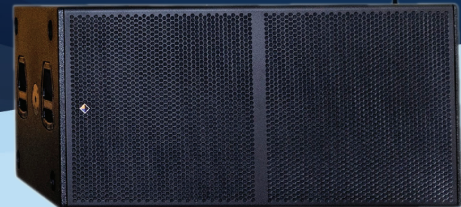
4 x ME10V



Maga Engineering®
ME 20K



ME218LEX



ME218LEX

ME10V.2 LINE ARRAY SYSTEM

System Setup: Stacked or flown

Power: 10 600 W AES

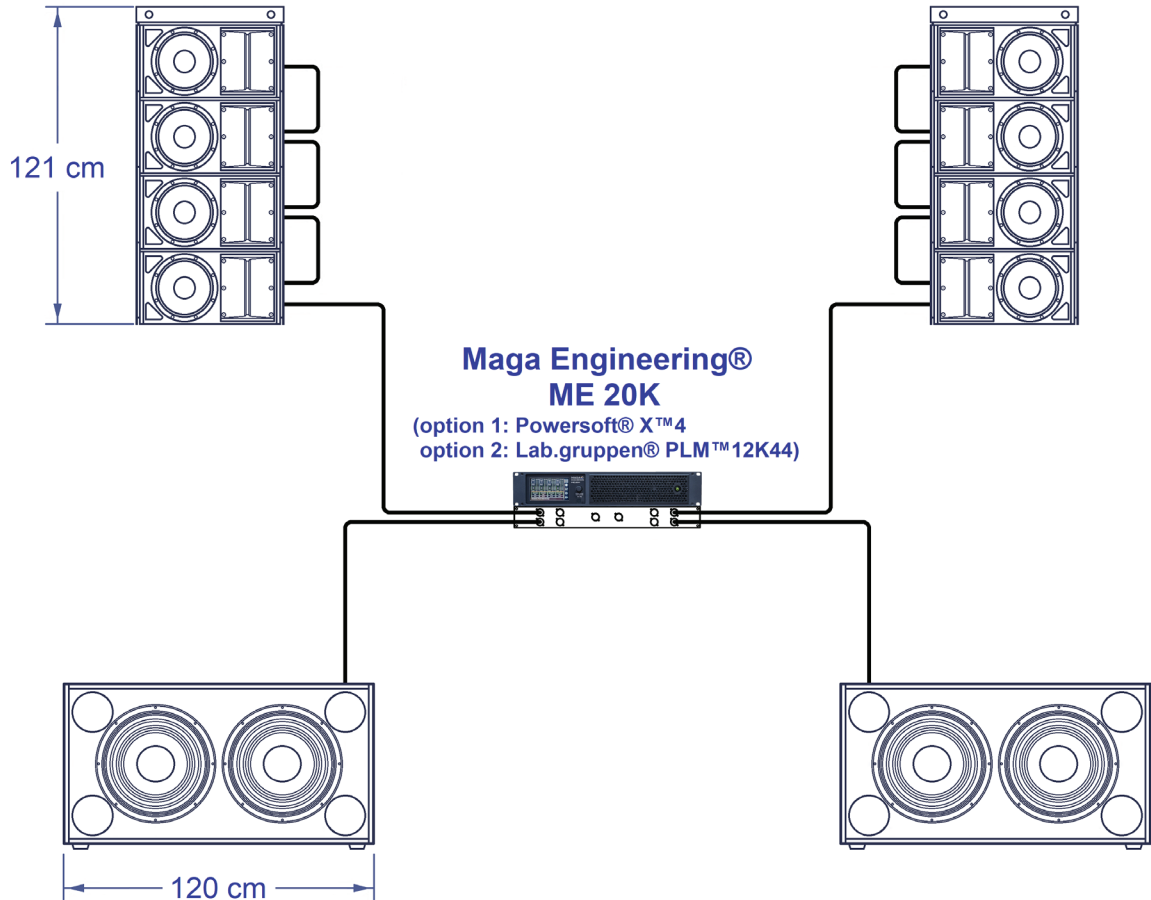
Amplification: 1 Maga Engineering® ME 20K amplifier

(option 1: 1 Powersoft® X™4 amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier)

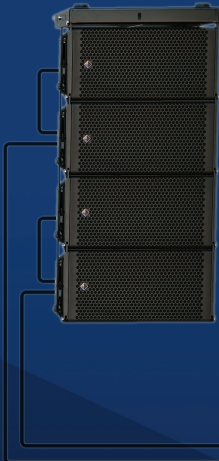
Configuration: 8 ME10V satellites + 2 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (theaters, auditoriums) and outdoor venues



ME10V.3 LINE ARRAY SYSTEM

4 x ME10V



4 x ME10V



Maga Engineering® ME 10K
+
Maga Engineering® ME 20K



4 x ME218LEX

ME10V.3 LINE ARRAY SYSTEM

System Setup: Flown

Power: 17 000 W AES

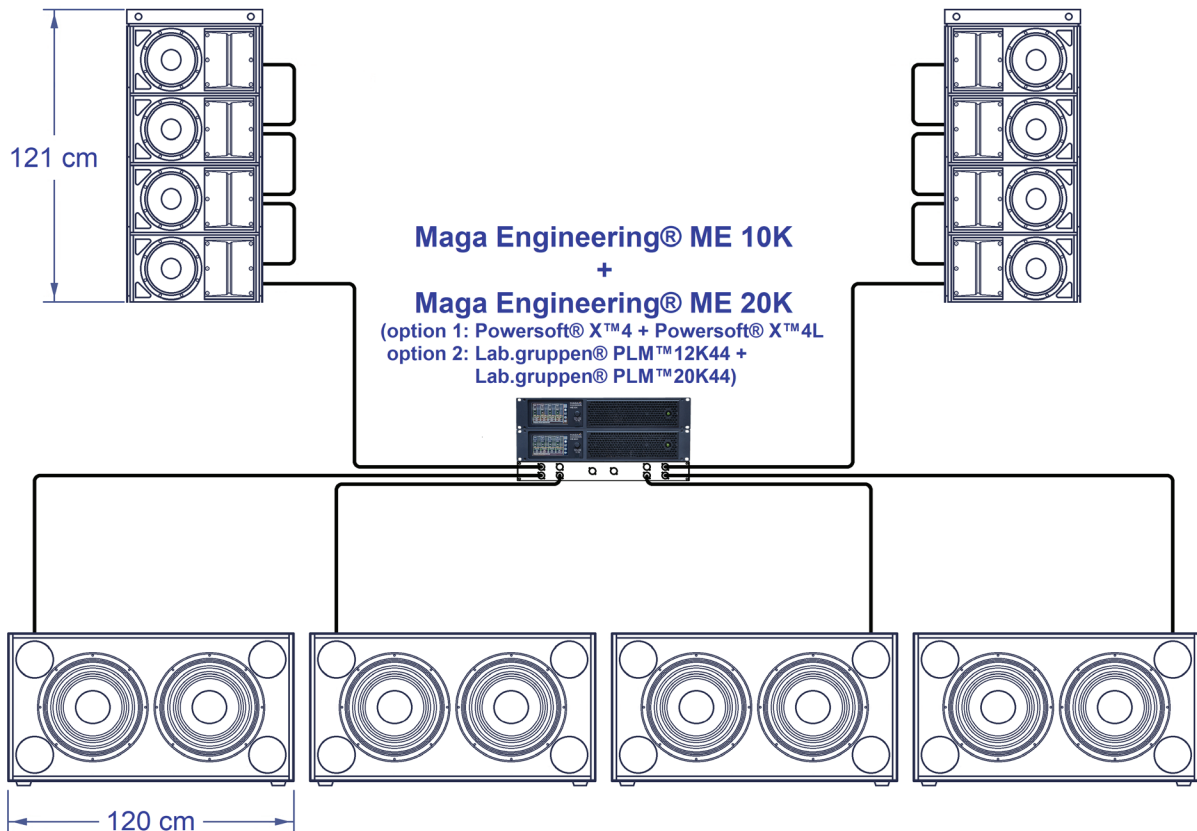
Amplification: 1 Maga Engineering® ME 10K amplifier + 1 Maga Engineering® ME 20K amplifier

(option 1: 1 Powersoft® X™4 amplifier + 1 Powersoft® X™4L amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 1 Lab.gruppen® PLM™20K44 amplifier)

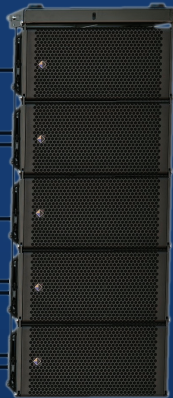
Configuration: 8 ME10V satellites + 4 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (DJ / nightclub) and outdoor venues

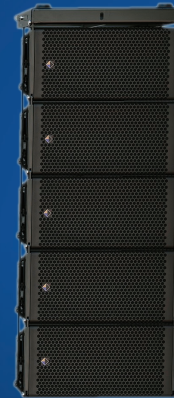


ME10V.4 LINE ARRAY SYSTEM

5 x ME10V



5 x ME10V



Maga Engineering® ME 10K
+
Maga Engineering® ME 20K



4 x ME218LEX

ME10V.4 LINE ARRAY SYSTEM

System Setup: Flown

Power: 18 000 W AES

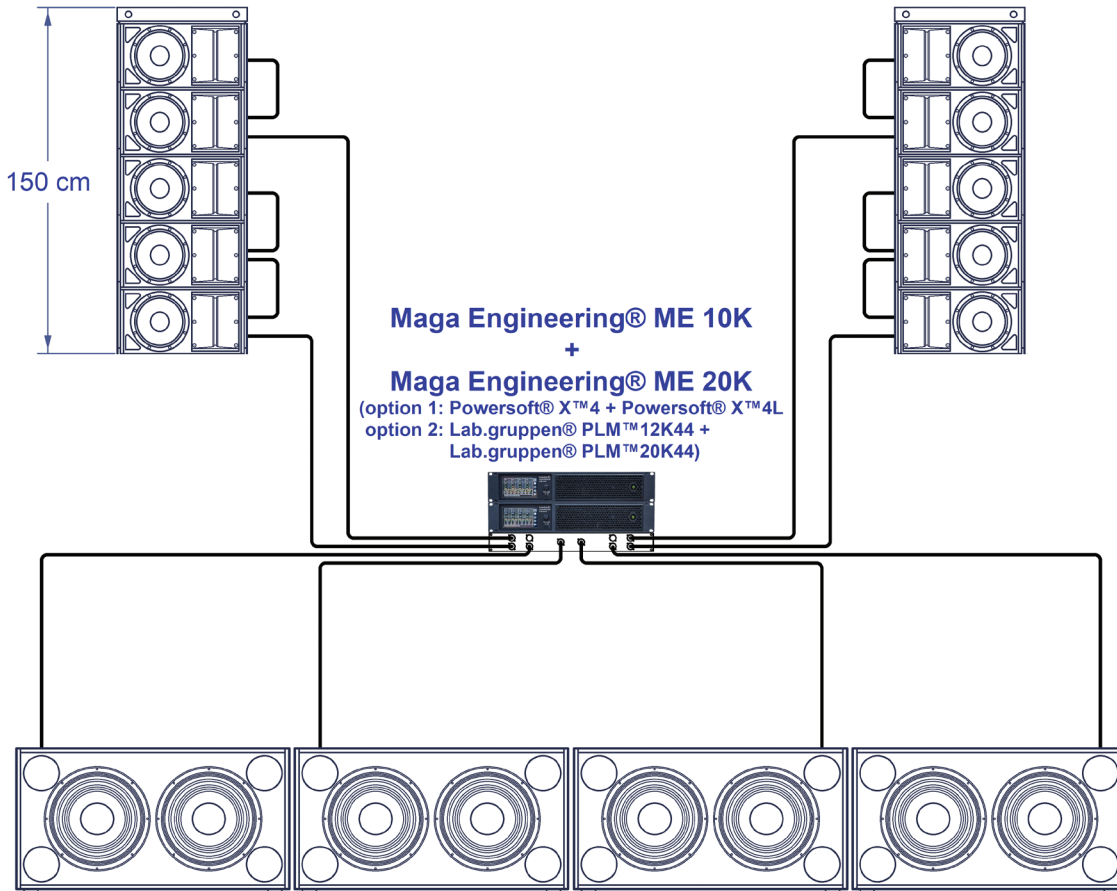
Amplification: 1 Maga Engineering® ME 10K amplifier + 1 Maga Engineering® ME 20K amplifier

(option 1: 1 Powersoft® X™4 amplifier + 1 Powersoft® X™4L amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 1 Lab.gruppen® PLM™20K44 amplifier)

Configuration: 10 ME10V satellites + 4 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (theaters, auditoriums) and outdoor venues



ME10V.5 LINE ARRAY SYSTEM

6 x ME10V



6 x ME10V



Maga Engineering® ME 10K
+
2 x Maga Engineering® ME 20K



6 x ME218LEX

ME10V.5 LINE ARRAY SYSTEM

System Setup: Flown

Power: 25 600 W AES

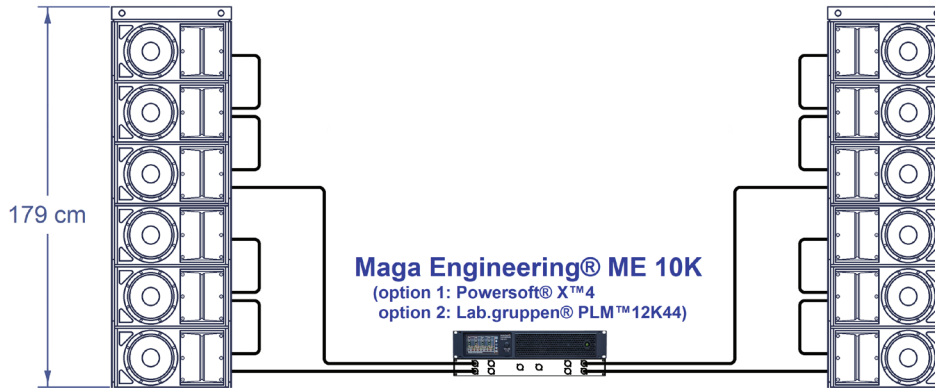
Amplification: 1 Maga Engineering® ME 10K amplifier + 2 Maga Engineering® ME 20K amplifiers

(option 1: 1 Powersoft® X™4 amplifier + 2 Powersoft® X™4L amplifiers)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 2 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 12 ME10V satellites + 6 dual 18" ME218LEX subwoofers

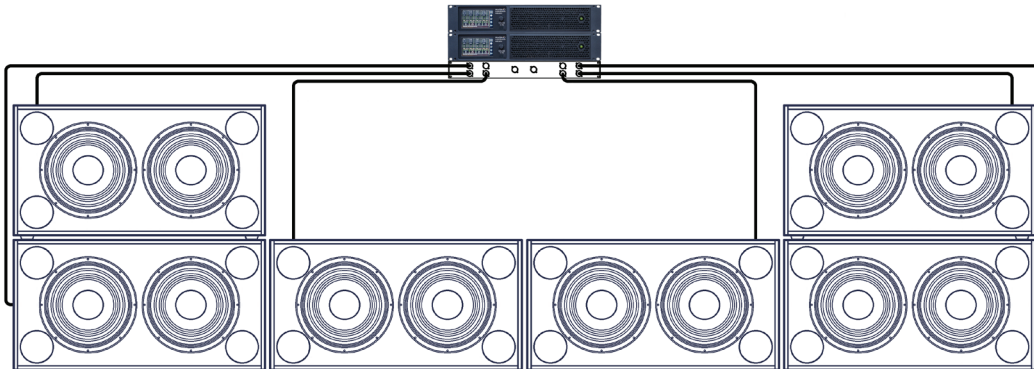
Application: Outdoor venues



2 x Maga Engineering® ME 20K

(option 1: 2 x Powersoft® X™4L

option 2: 2 x Lab.gruppen® PLM™20K44)



ME10V.6 LINE ARRAY SYSTEM



ME10V.6 LINE ARRAY SYSTEM

System Setup: Flown

Power: 34 000 W AES

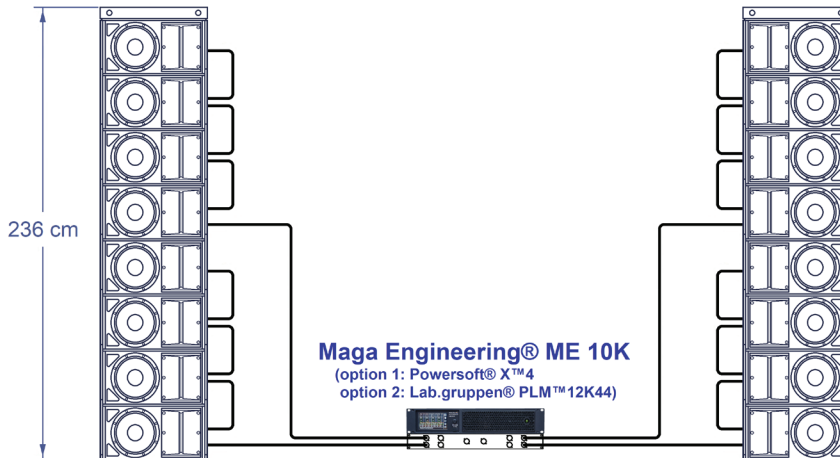
Amplification: 1 Maga Engineering® ME 10K amplifier + 2 Maga Engineering® ME 20K amplifiers

(option 1: 1 Powersoft® X™4 amplifier + 2 Powersoft® X™4L amplifiers);

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 2 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 16 ME10V satellites + 8 dual 18" ME218LEX subwoofers

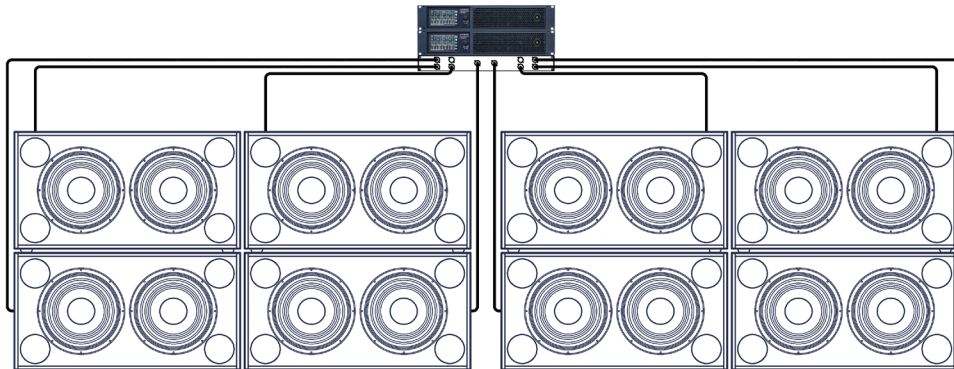
Application: Outdoor venues



2 x Maga Engineering® ME 20K

(option 1: 2 x Powersoft® X™4L

option 2: 2 x Lab.gruppen® PLM™20K44)





ME20V LINE ARRAY CONFIGURATIONS

INTRODUCTION

This annex aims to illustrate the versatility of the **Maga Engineering**[®] **ME10V** line array system.

The configurations or systems proposed below are sufficient to cover the vast majority of medium and large-scale events and productions that require a line array system, thanks to the extraordinary performance and high sound pressure level (SPL) of the **ME20V** cabinet (141 dB peak at 1 meter) and the **ME218LEX** subwoofer (140 dB peak at 1 meter).

However, the modularity and versatility of our systems allow for an expanded number of configurations to find the one that best suits the user's needs. Therefore, the systems shown below are just a sample of the many configurations that can be assembled.

The proposed configurations are designed to make optimal use of the power and features of our new amplifiers, the **ME 10K** (10,000 W) and **ME 20K** (20,000 W) models. Specifically designed to power our **ME10V** and **ME20V** line array systems, these new models are 4-channel amplifiers with state-of-the-art technology, integrating silicon carbide (SiC) transistors, a universal power supply, and a powerful DSP processor with high-performance 96 kHz/24-bit AD/DA converters.

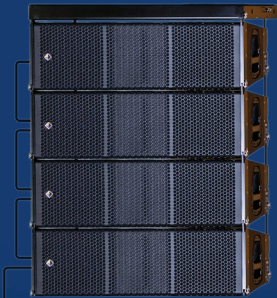
As an alternative to our amplification, we suggest using the amplification developed by Lab.gruppen® (PLM™ Series) or Powersoft® (X™ Series).

MAGA ENGINEERING

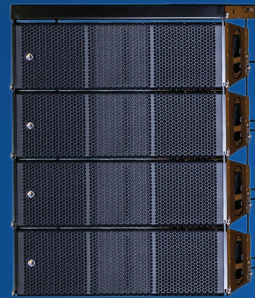


ME20V.1 LINE ARRAY SYSTEM

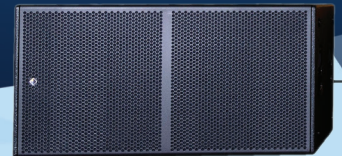
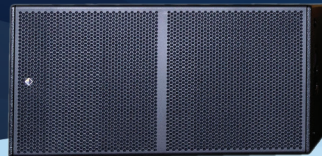
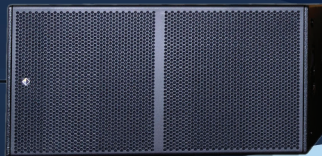
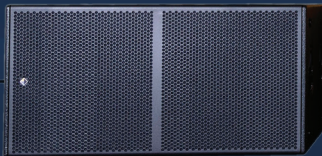
4 x ME20V



4 x ME20V



2 x Maga Engineering® ME 20K



4 x ME218LEX

ME20V.1 LINE ARRAY SYSTEM

System Setup: Flown

Power: 26 000 W AES

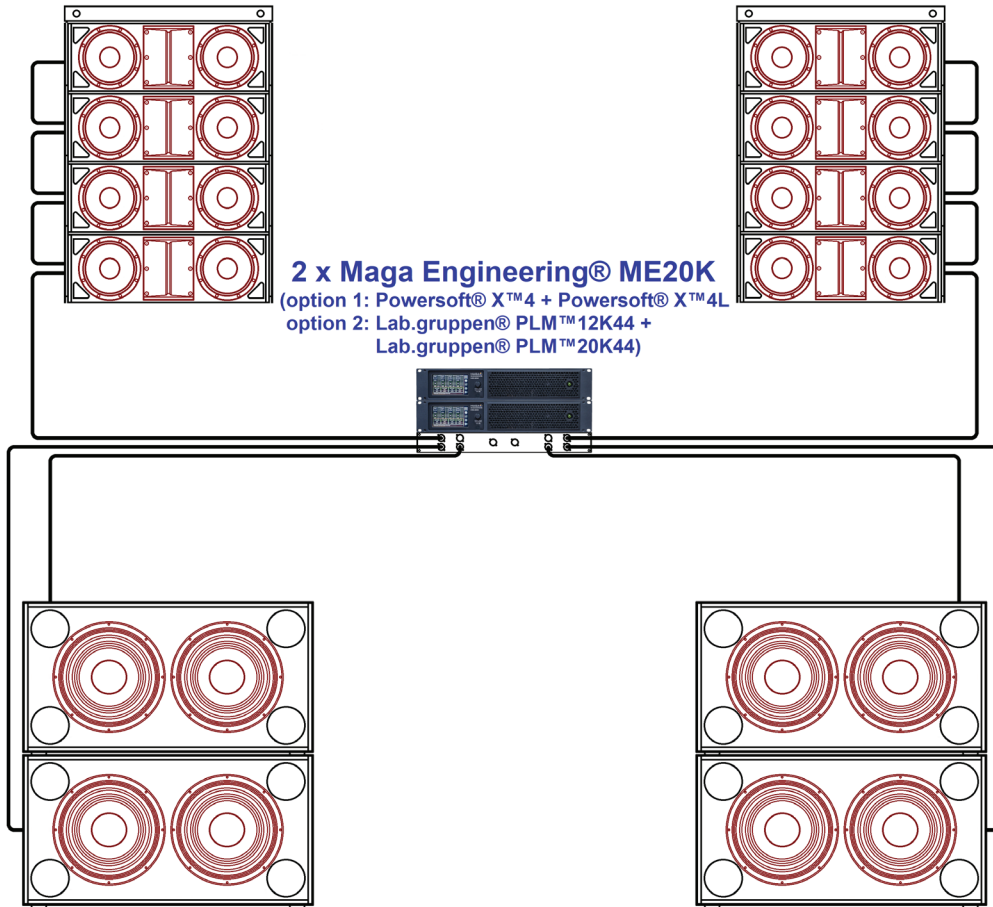
Amplification: 2 Maga Engineering® ME 20K amplifiers

(option 1: 1 Powersoft® X™4 amplifier + 1 Powersoft® X™4L amplifier)

(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 1 Lab.gruppen® PLM™20K44 amplifier)

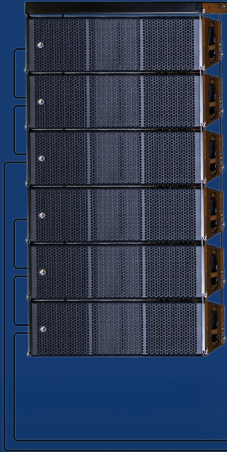
Configuration: 8 ME20V satellites + 4 dual 18" ME218LEX subwoofers

Application: Suitable for both indoor (theaters, auditoriums, DJ / nightclub) and outdoor venues

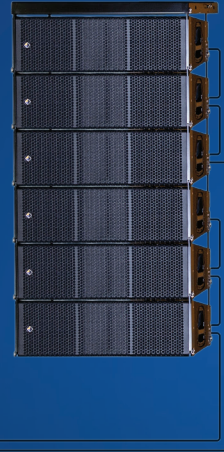


ME20V.2 LINE ARRAY SYSTEM

6 x ME20V



6 x ME20V



2 x Maga Engineering®
ME 20K



2 x Maga Engineering® ME 20K



6 x ME218LEX

ME20V.2 LINE ARRAY SYSTEM

System Setup: Flown

Power: 38 800 W AES

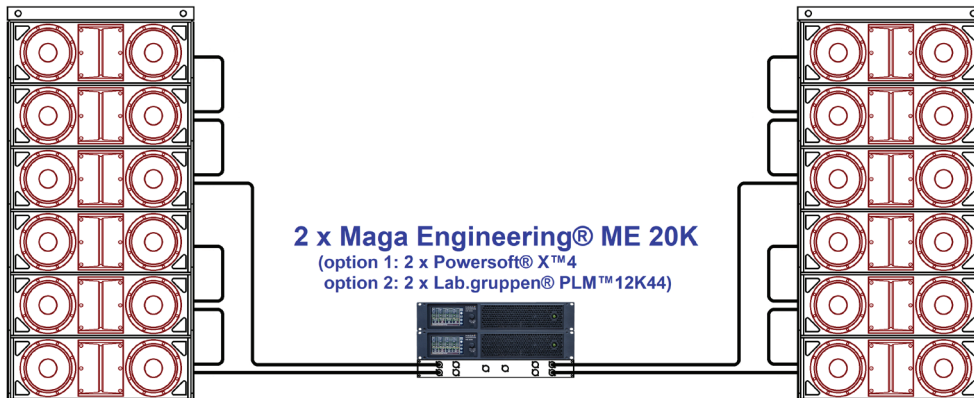
Amplification: 4 Maga Engineering® ME 20K amplifiers

(option 1: 2 Powersoft® X™ 4 amplifiers + 2 Powersoft® X™ 4L amplifiers)

(option 2: 2 Lab.gruppen® PLM™ 12K44 amplifiers + 2 Lab.gruppen® PLM™ 20K44 amplifiers)

Configuration: 12 ME20V satellites + 6 dual 18" ME218LEX subwoofers

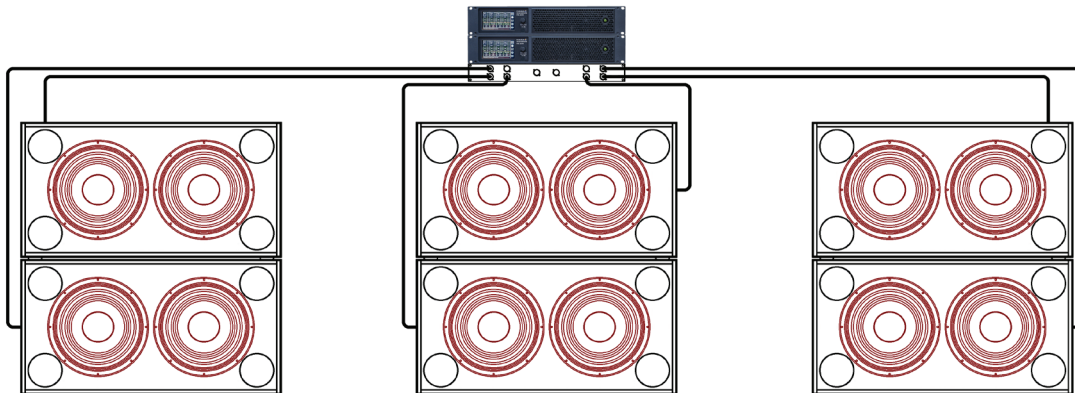
Application: Outdoor venues



2 x Maga Engineering® ME 20K

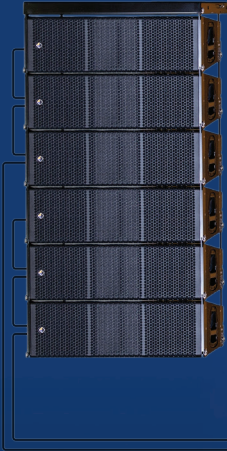
(option 1: 2 x Powersoft® X™ 4L

option 2: 2 x Lab.gruppen® PLM™ 20K44)

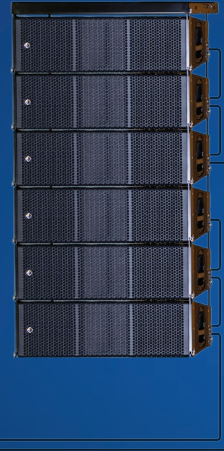


ME20V.3 LINE ARRAY SYSTEM

6 x ME20V



6 x ME20V



2 x Maga Engineering®
ME 20K



2 x Maga Engineering® ME 20K



8 x ME218LEX

ME20V.3 LINE ARRAY SYSTEM

System Setup: Flown

Power: 45 200 W AES

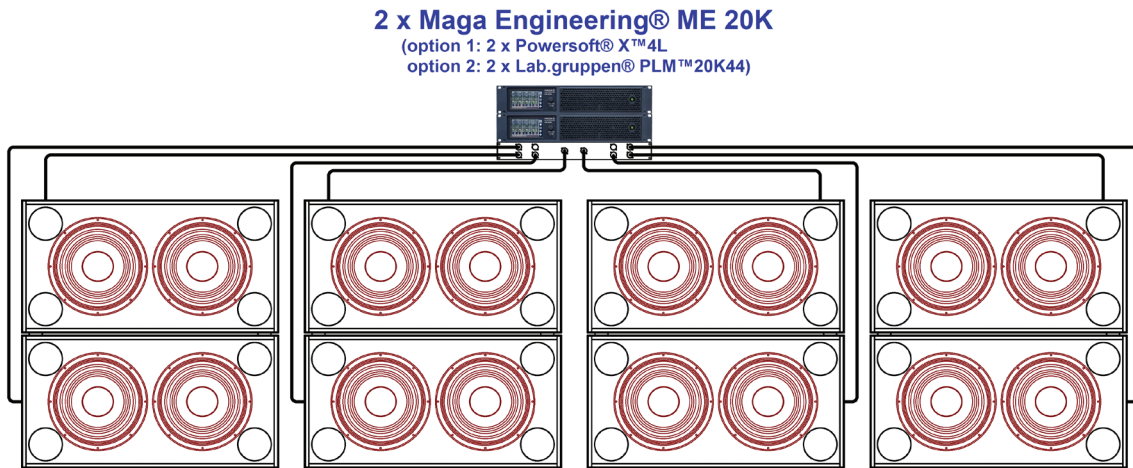
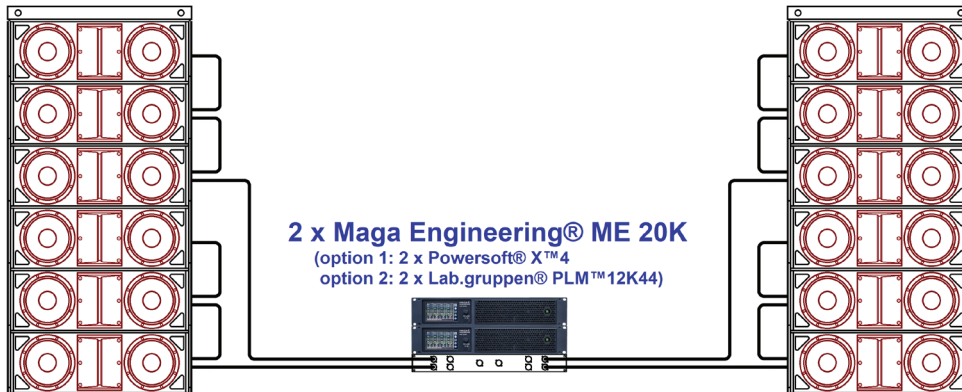
Amplification: 4 Maga Engineering® ME 20k amplifiers

(option 1: 2 Powersoft® X™ 4 amplifiers + 2 Powersoft® X™ 4L amplifiers)

(option 2: 2 Lab.gruppen® PLM™12K44 amplifiers + 2 Lab.gruppen® PLM™20K44 amplifiers)

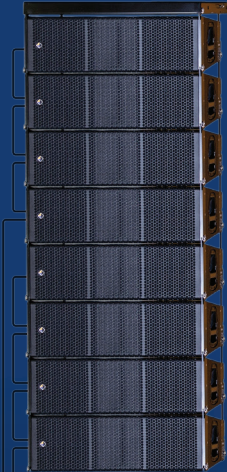
Configuration: 12 ME20V satellites + 8 dual 18" ME218LEX subwoofers

Application: Outdoor venues

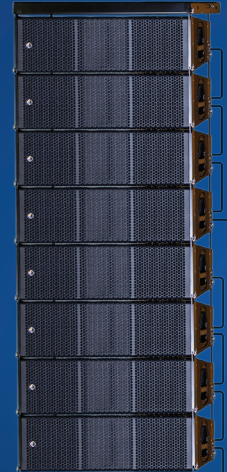


ME20V.4 LINE ARRAY SYSTEM

8 x ME20V



8 x ME20V



2 x Maga Engineering®
ME 20K



2 x Maga Engineering® ME 20K



8 x ME218LEX

ME20V.4 LINE ARRAY SYSTEM

System Setup: Flown

Power: 51 700 W AES

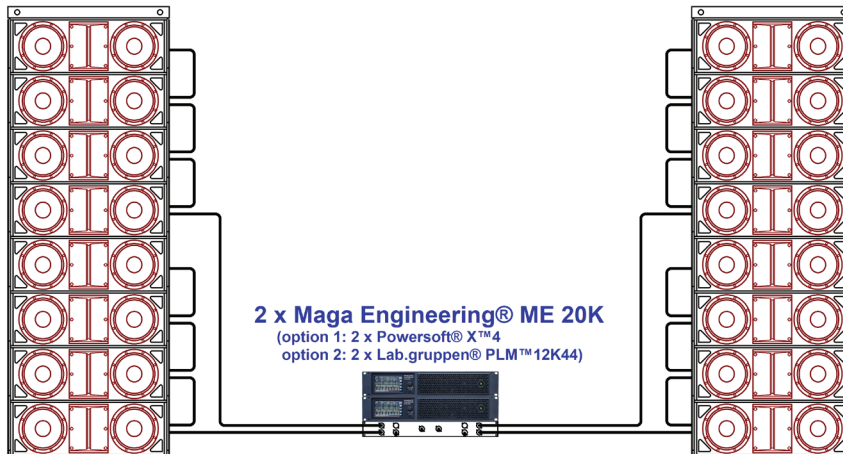
Amplification: 4 Maga Engineering® ME 20K amplifiers

(option 1: 2 Powersoft® X™ 4 amplifiers + 2 Powersoft® X™ 4L amplifiers)

(option 2: 2 Lab.gruppen® PLM™12K44 amplifiers + 2 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 16 ME20V satellites + 8 dual 18" ME218LEX subwoofers

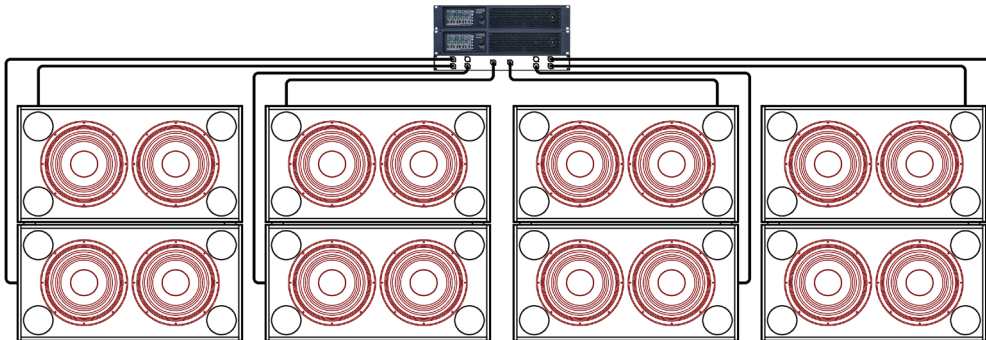
Application: Outdoor venues



2 x Maga Engineering® ME 20K

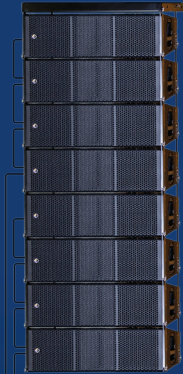
(option 1: 2 x Powersoft® X™ 4L

option 2: 2 x Lab.gruppen® PLM™20K44)

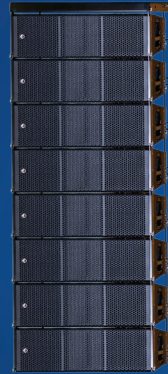


ME20V.5 LINE ARRAY SYSTEM

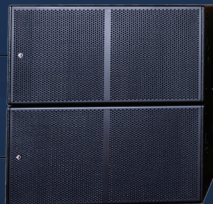
8 x ME20V



8 x ME20V



5 x Maga
Engineering®
ME 20K



12 x ME218LEX

ME20V.5 LINE ARRAY SYSTEM

System Setup: Flown

Power: 64 500 W AES

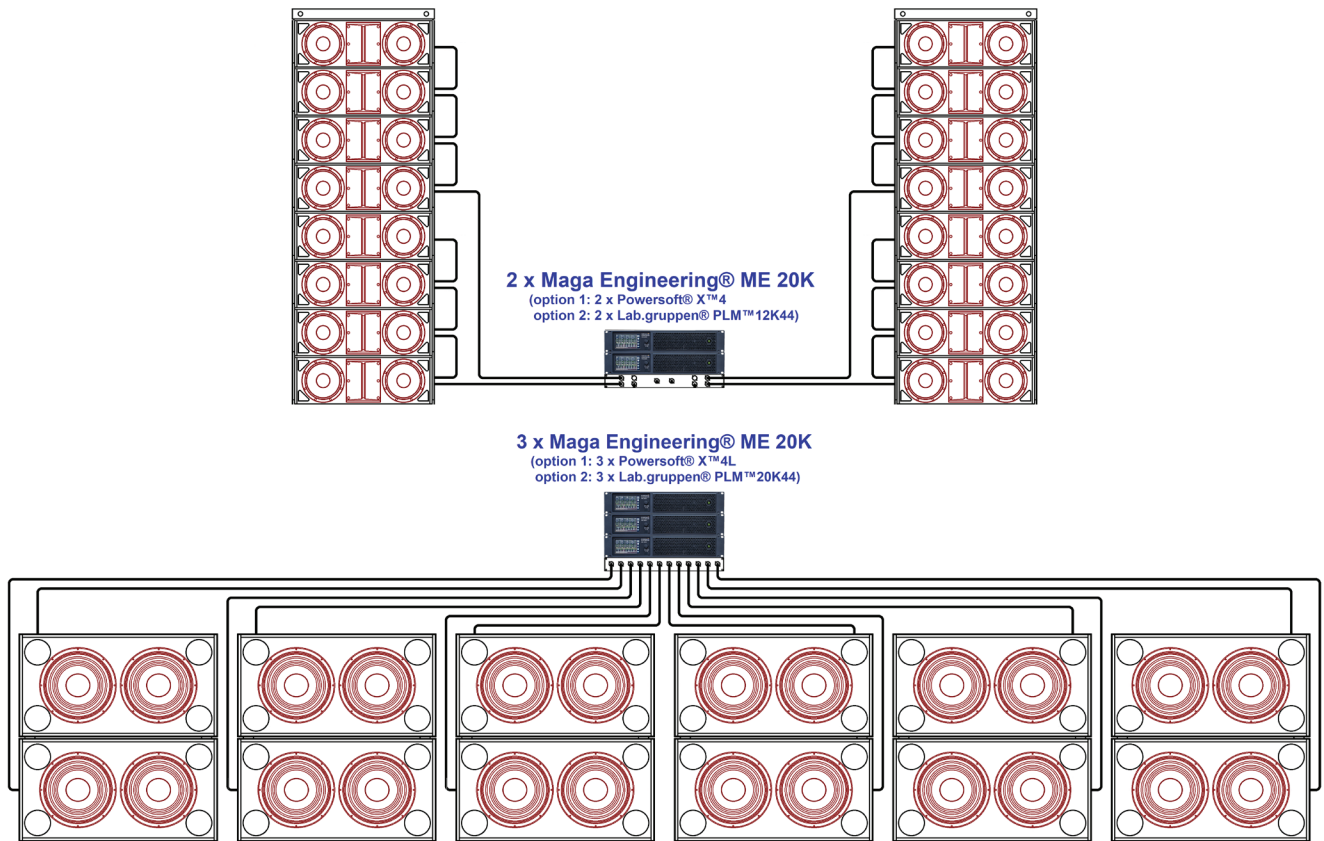
Amplification: 5 Maga Engineering® ME 20K amplifiers

(option 1: 2 Powersoft® X™4 amplifiers + 3 Powersoft® X™4L amplifiers)

(option 2: 2 Lab.gruppen® PLM™12K44 amplifiers + 3 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 16 ME20V satellites + 12 dual 18" ME218LEX subwoofers

Application: Outdoor venues



ME20V.6 LINE ARRAY SYSTEM

10 x ME20V



10 x ME20V



7 x Maga Engineering® ME 20K



16 x ME218LEX

ME20V.6 LINE ARRAY SYSTEM

System Setup: Flown

Power: 83 800 W AES

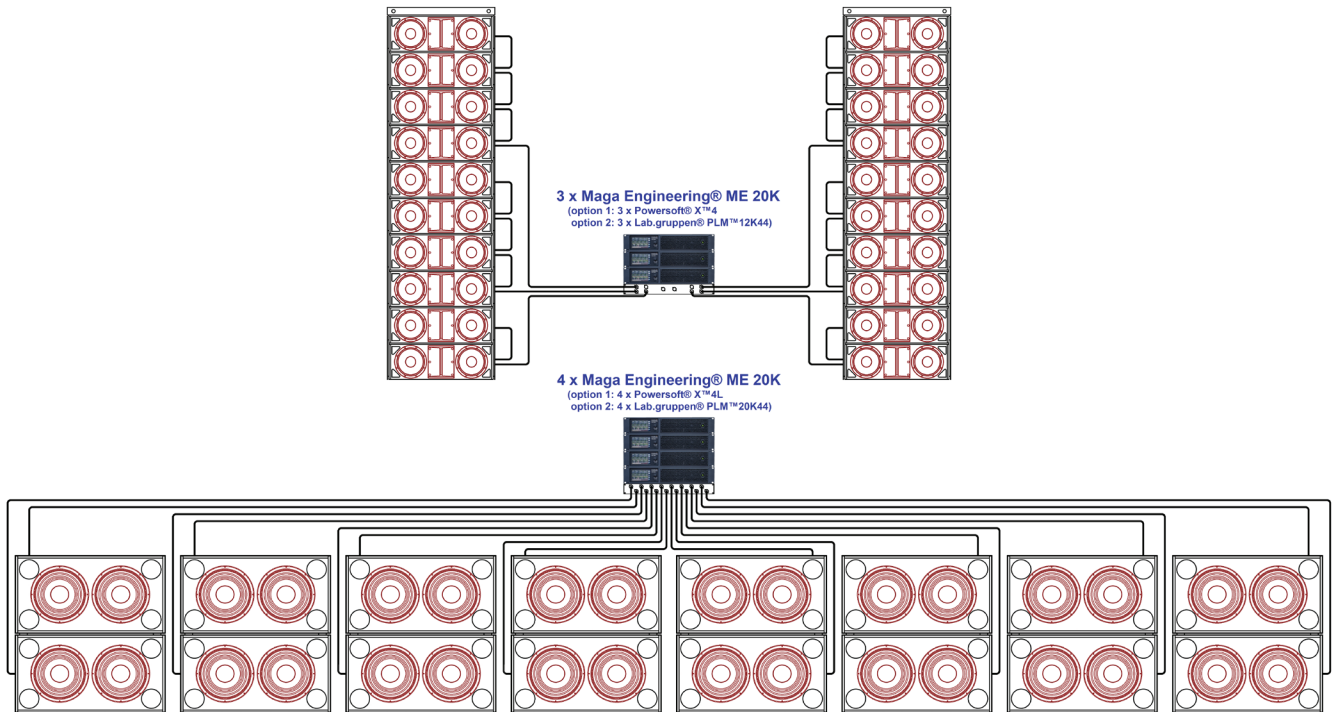
Amplification: 7 Maga Engineering® ME 20K amplifiers

(option 1: 3 Powersoft® X™ 4 amplifiers + 4 Powersoft® X™ 4L amplifiers)

(option 2: 3 Lab.gruppen® PLM™ 12K44 amplifiers + 4 Lab.gruppen® PLM™ 20K44 amplifiers)

Configuration: 20 ME20V satellites + 16 dual 18" ME218LEX subwoofers

Application: Outdoor venues



ME20V.7 LINE ARRAY SYSTEM

12 x ME20V

12 x ME20V

9 x Maga Engineering® ME 20K



20 x ME218LEX

ME20V.7 LINE ARRAY SYSTEM

System Setup: Flown

Power: 103 100 W AES

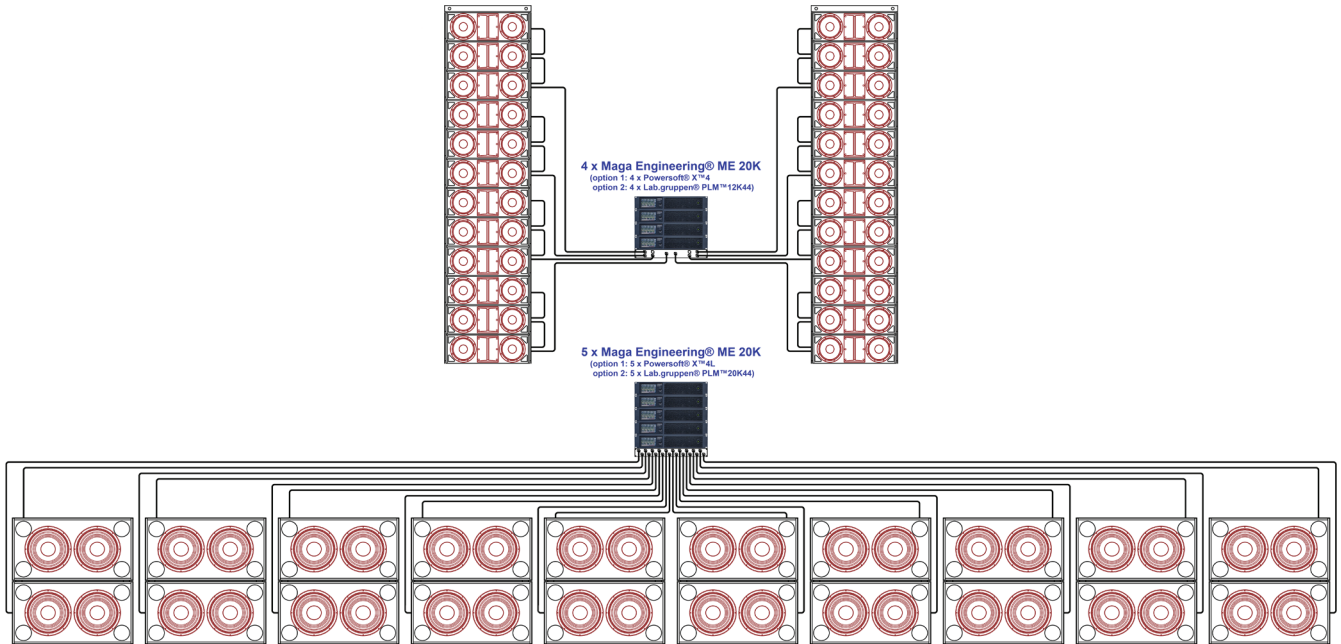
Amplification: 9 Maga Engineering® ME 20K amplifiers

(option 1: 4 Powersoft® X™ 4 amplifiers + 5 Powersoft® X™ 4L amplifiers)

(option 2: 4 Lab.gruppen® PLM™12K44 amplifiers + 5 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 24 ME20V satellites + 20 dual 18" ME218LEX subwoofers

Application: Outdoor venues





NOTES



NOTES

INVEST IN SOUND

 **MADE AND
DESIGNED
IN SPAIN**

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