

MAGA
ENGINEERING
LINE ARRAY CONFIGURATIONS



**MADE AND
DESIGNED
IN SPAIN**

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Line array configurations
Revision June 2026**

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ME16V LINE ARRAY CONFIGURATIONS

INTRODUCTION

This annex aims to illustrate the versatility of the **Maga Engineering**[®] **ME16V** 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 **ME16V** cabinet (138 dB peak @ 1 m) and the **ME218LEX** subwoofer (141 dB peak @ 1 m).

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 **ME16V** 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



ME16V.1 LINE ARRAY SYSTEM



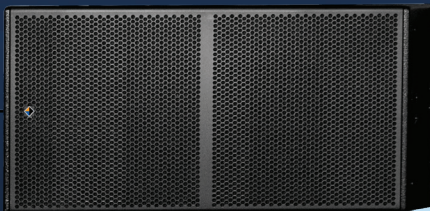
3 x ME16V



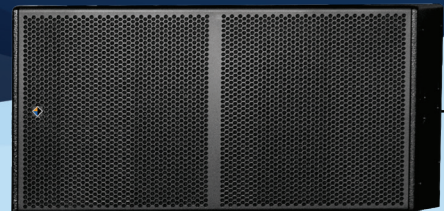
3 x ME16V



Maga Engineering® ME 20K



2 x ME218LEX



ME16V.1 LINE ARRAY SYSTEM

System Setup: Flown

Power: 10 500 W AES

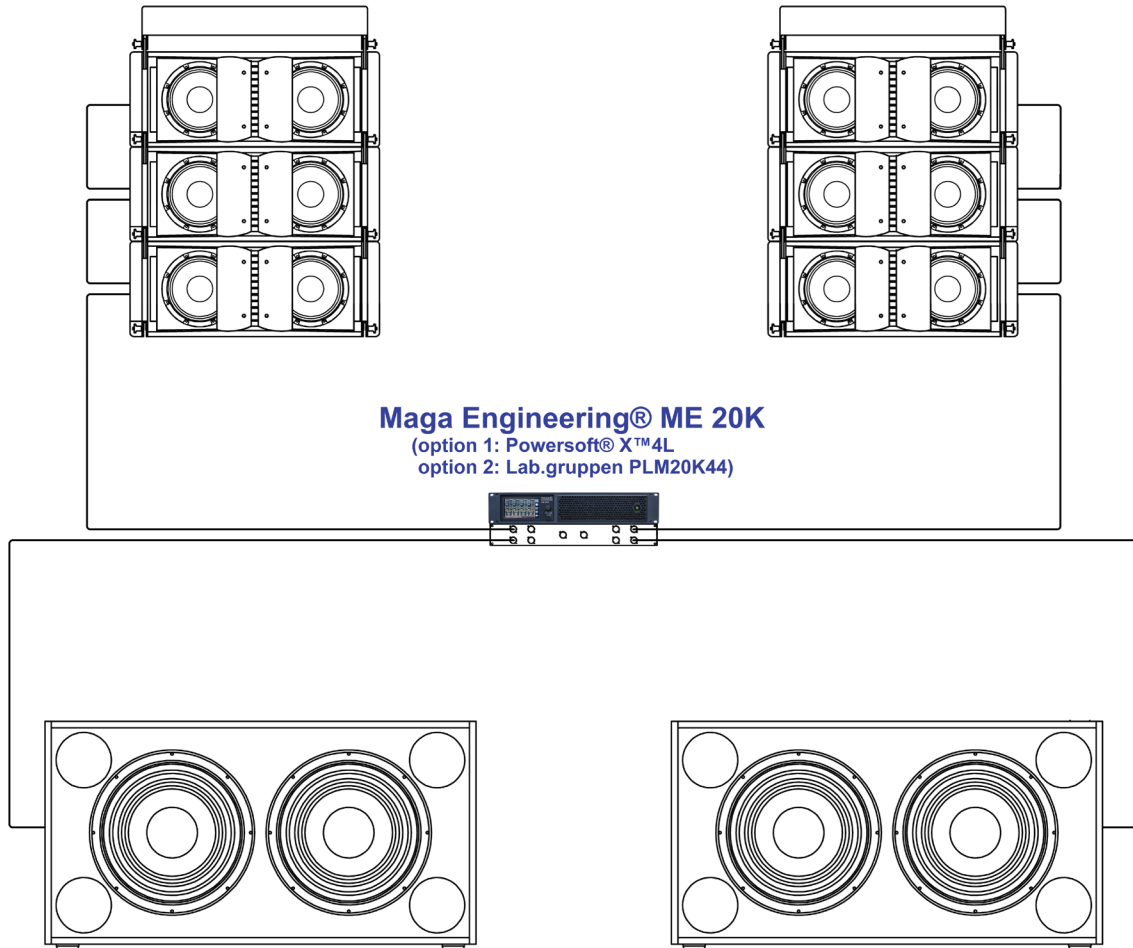
Amplification: 1 Maga Engineering® ME 20K amplifier

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

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

Configuration: 6 ME16V line array satellites + 2 ME218LEX dual 18" subwoofers

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



Line array configurations

ME16V.2 LINE ARRAY SYSTEM



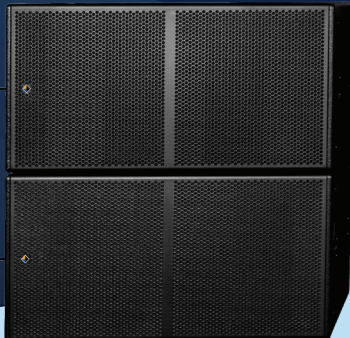
4 x ME16V



4 x ME16V



2 x Maga Engineering® ME 20K



4 x ME218LEX



ME16V.2 LINE ARRAY SYSTEM

System Setup: Flown

Power: 18 200 W AES

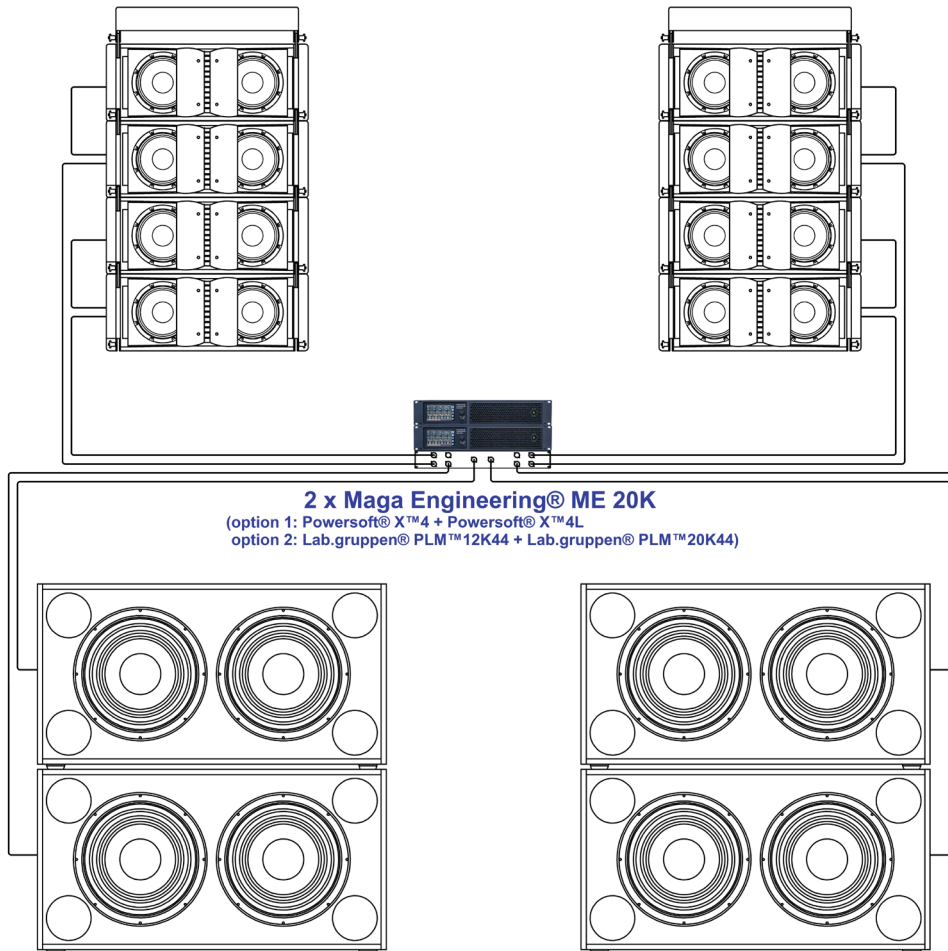
Amplification: 2 Maga Engineering® ME 20K amplifiers

(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 ME16V line array satellites + 4 ME218LEX dual 18" subwoofers

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



ME16V.3 LINE ARRAY SYSTEM



ME16V.3 LINE ARRAY SYSTEM

System Setup: Flown

Power: 20 000 W AES

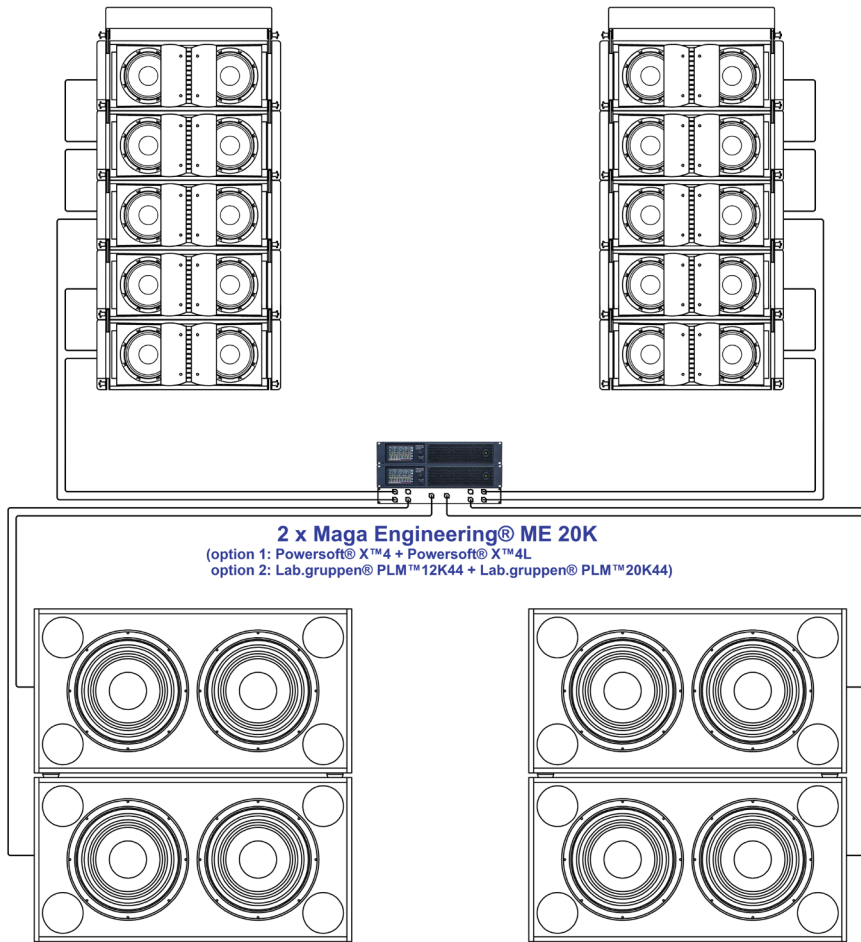
Amplification: 2 Maga Engineering® ME 20K amplifiers

(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: 10 ME16V line array satellites + 4 ME218LEX dual 18" subwoofers

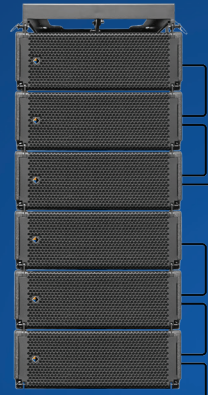
Application: Suitable for both indoor (theaters, auditoriums) and outdoor venues



ME16V.4 LINE ARRAY SYSTEM



6 x ME16V



6 x ME16V



3 x Maga Engineering® ME 20K



6 x ME218LEX

ME16V.4 LINE ARRAY SYSTEM

System Setup: Flown

Power: 27 400 W AES

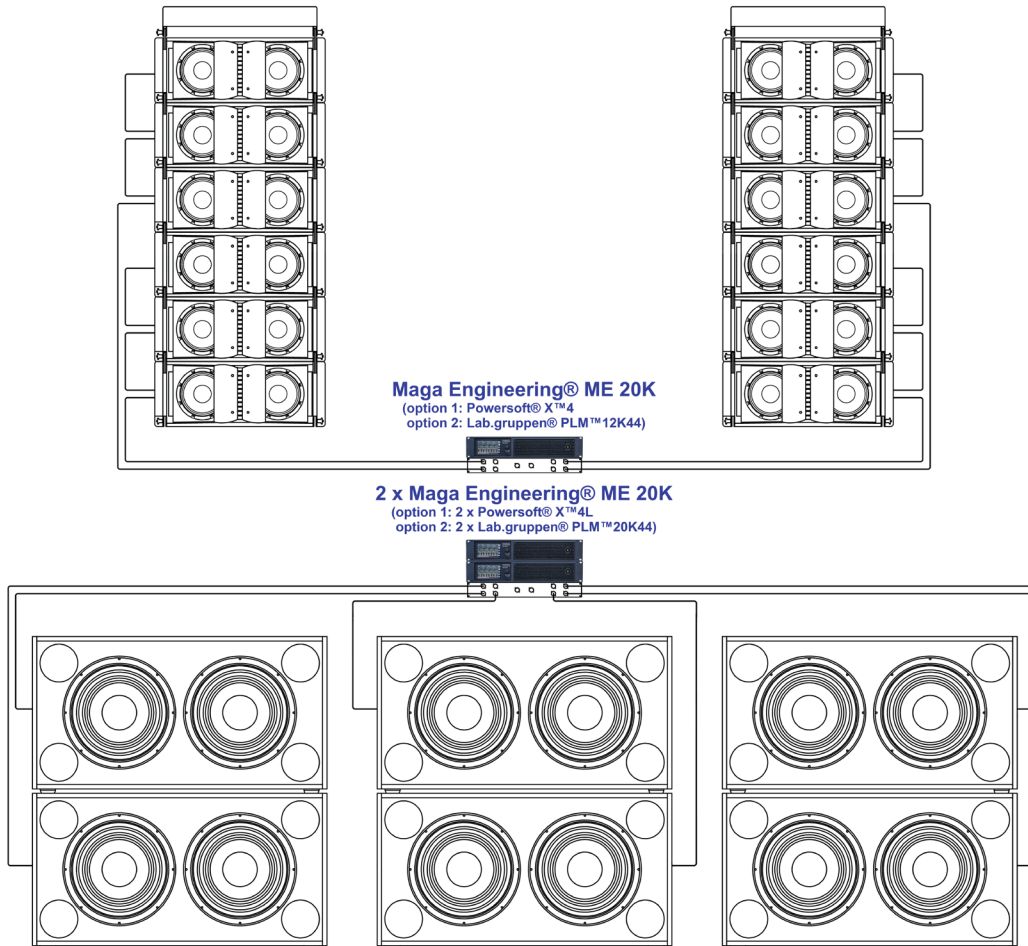
Amplification: 3 Maga Engineering® ME 20K amplifiers

(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 ME16V line array satellites + 6 ME218LEX dual 18" subwoofers

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



ME16V.5 LINE ARRAY SYSTEM



ME16V.5 LINE ARRAY SYSTEM

System Setup: Flown

Power: 36 500 W AES

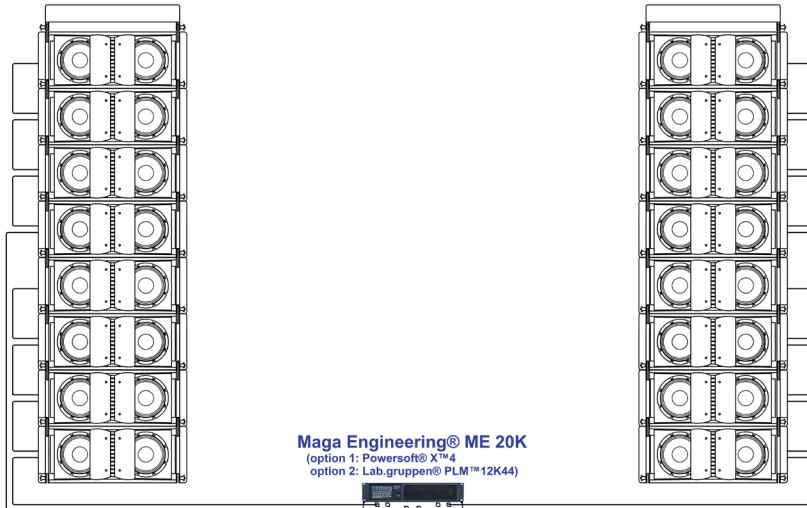
Amplification: 3 Maga Engineering® ME 20K amplifiers

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

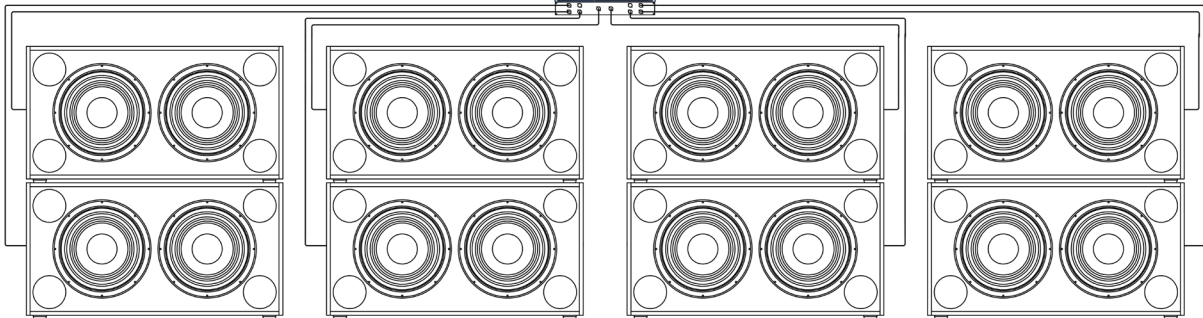
(option 2: 1 Lab.gruppen® PLM™12K44 amplifier + 2 Lab.gruppen® PLM™20K44 amplifiers)

Configuration: 16 ME16V line array satellites + 8 ME218LEX dual 18" 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**[®] **ME16V** 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 @ 1 m) and the **ME218LEX** subwoofer (141 dB peak @ 1 m).

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 **ME16V** 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.

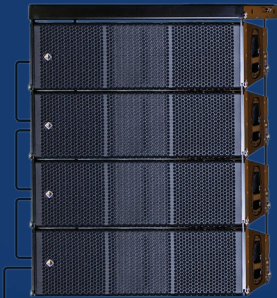
As an alternative to our amplification, we suggest using the amplification developed by Lab.gruppen® (PLM™ Series) or Powersoft® (X™ Series).

MAGA ENGINEERING

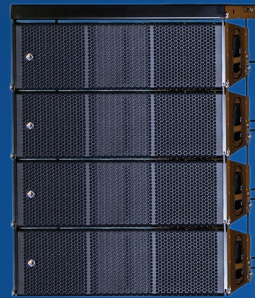


ME20V.1 LINE ARRAY SYSTEM

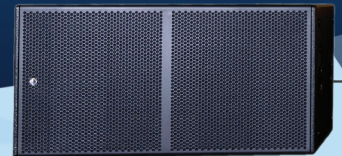
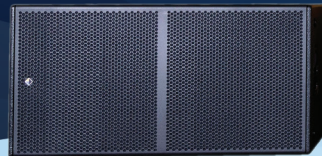
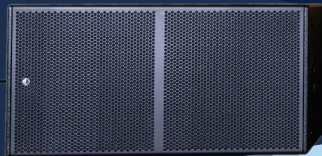
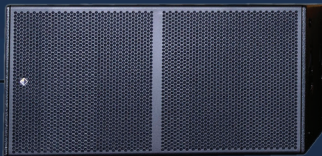
4 x ME20V



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

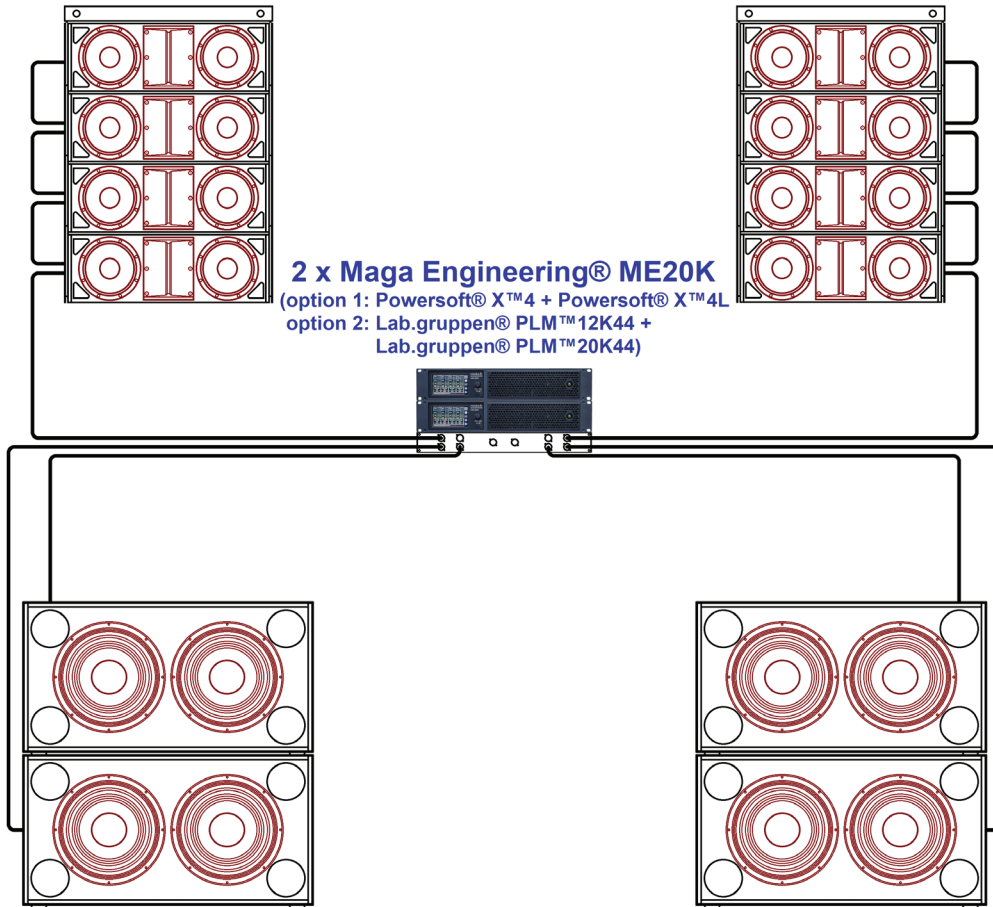
Amplification: 2 Maga Engineering® ME 20K amplifiers

(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)

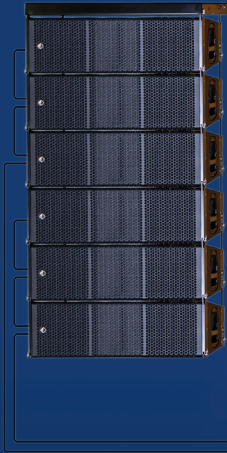
Configuration: 8 ME20V line array satellites + 4 ME218LEX dual 18" subwoofers

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

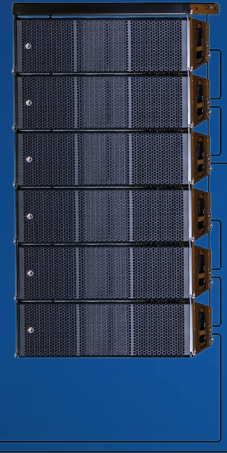


ME20V.2 LINE ARRAY SYSTEM

6 x ME20V



6 x ME20V



2 x Mags Engineering®
ME 20K



2 x Mags Engineering® ME 20K



6 x ME218LEX

ME20V.2 LINE ARRAY SYSTEM

System Setup: Flown

Power: 38 800 W AES

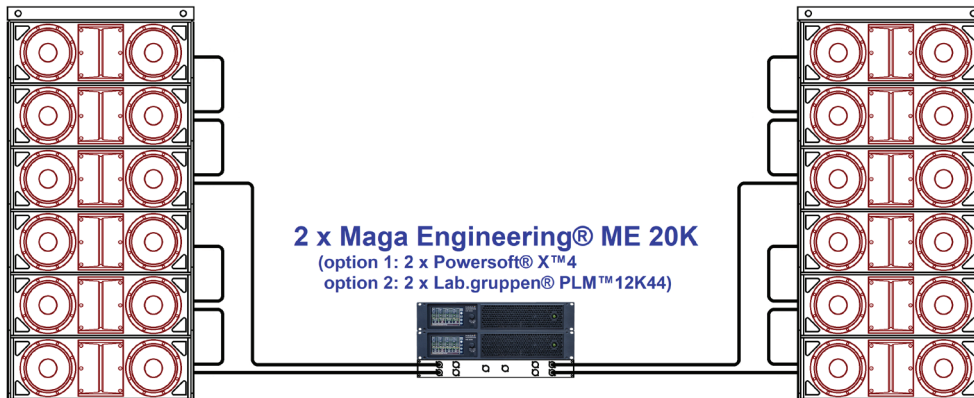
Amplification: 4 Maga Engineering® ME 20K amplifiers

(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 line array satellites + 6 ME218LEX dual 18" subwoofers

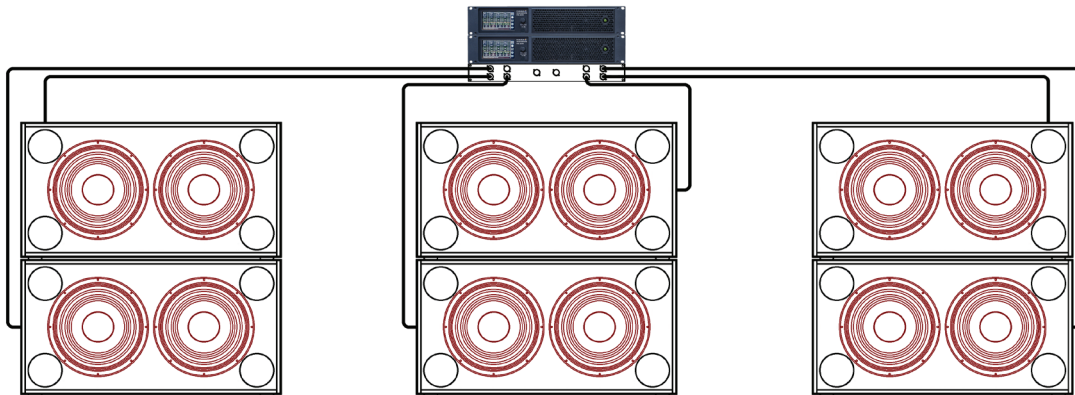
Application: Outdoor venues



2 x Maga Engineering® ME 20K

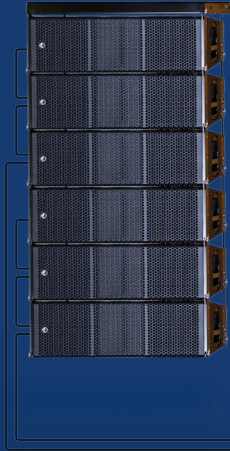
(option 1: 2 x Powersoft® X™ 4L

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

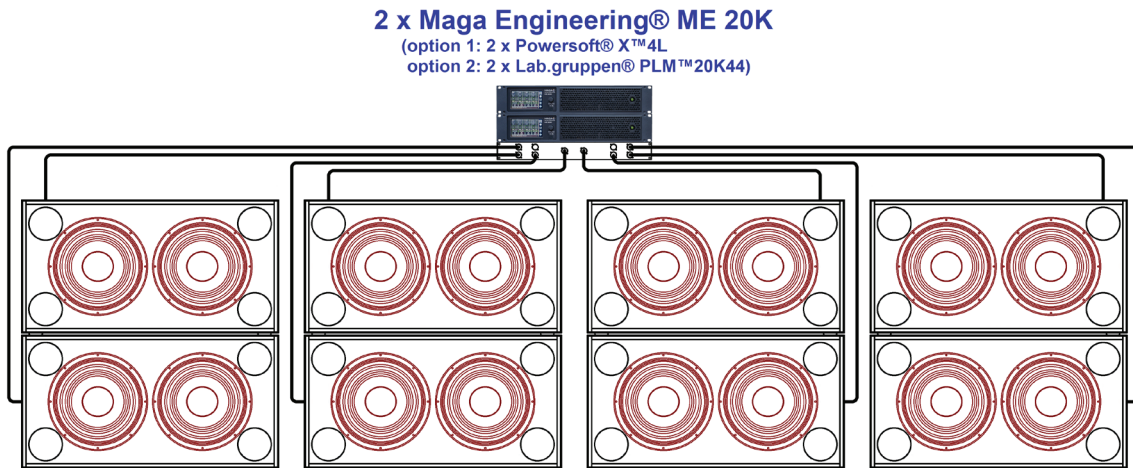
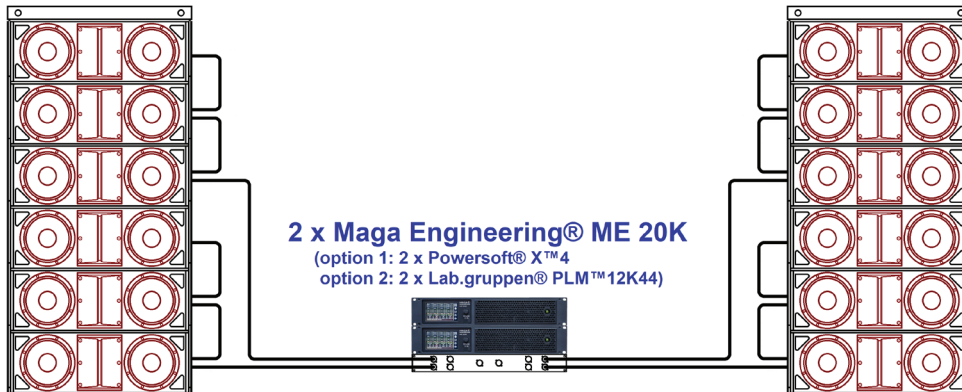
Amplification: 4 Maga Engineering® ME 20K amplifiers

(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)

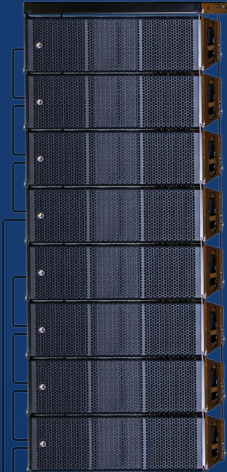
Configuration: 12 ME20V line array satellites + 8 ME218LEX dual 18" subwoofers

Application: Outdoor venues

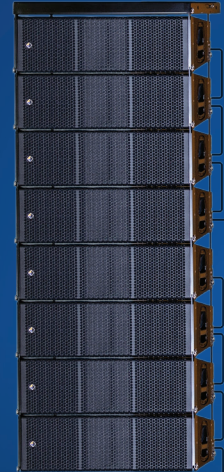


ME20V.4 LINE ARRAY SYSTEM

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

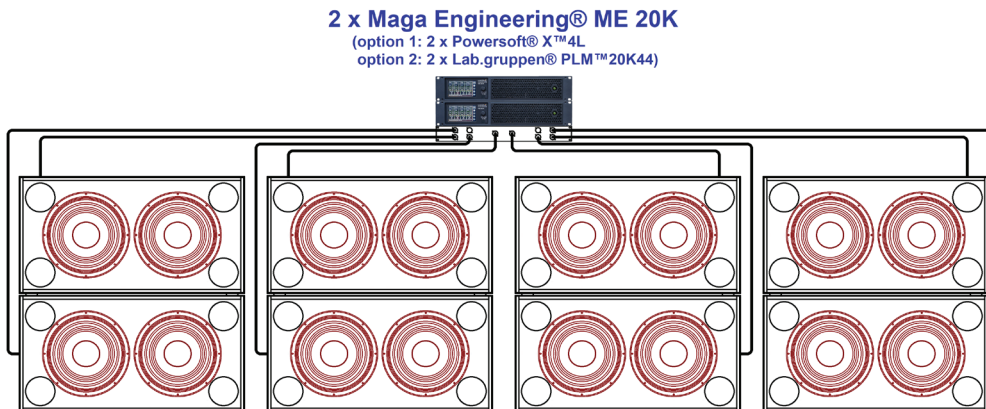
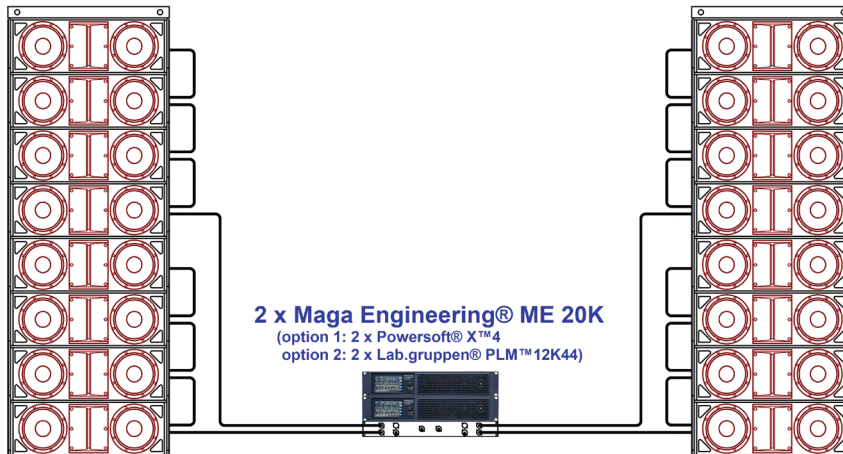
Amplification: 4 Maga Engineering® ME 20K amplifiers

(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)

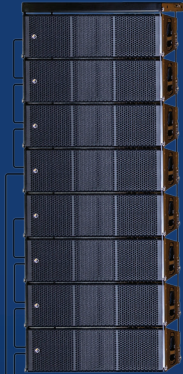
Configuration: 16 ME20V line array satellites + 8 ME218LEX dual 18" subwoofers

Application: Outdoor venues

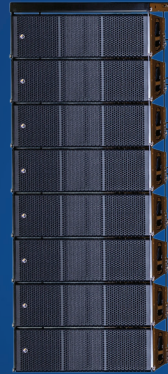


ME20V.5 LINE ARRAY SYSTEM

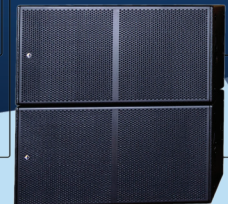
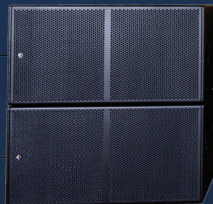
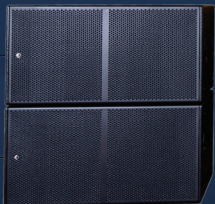
8 x ME20V



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

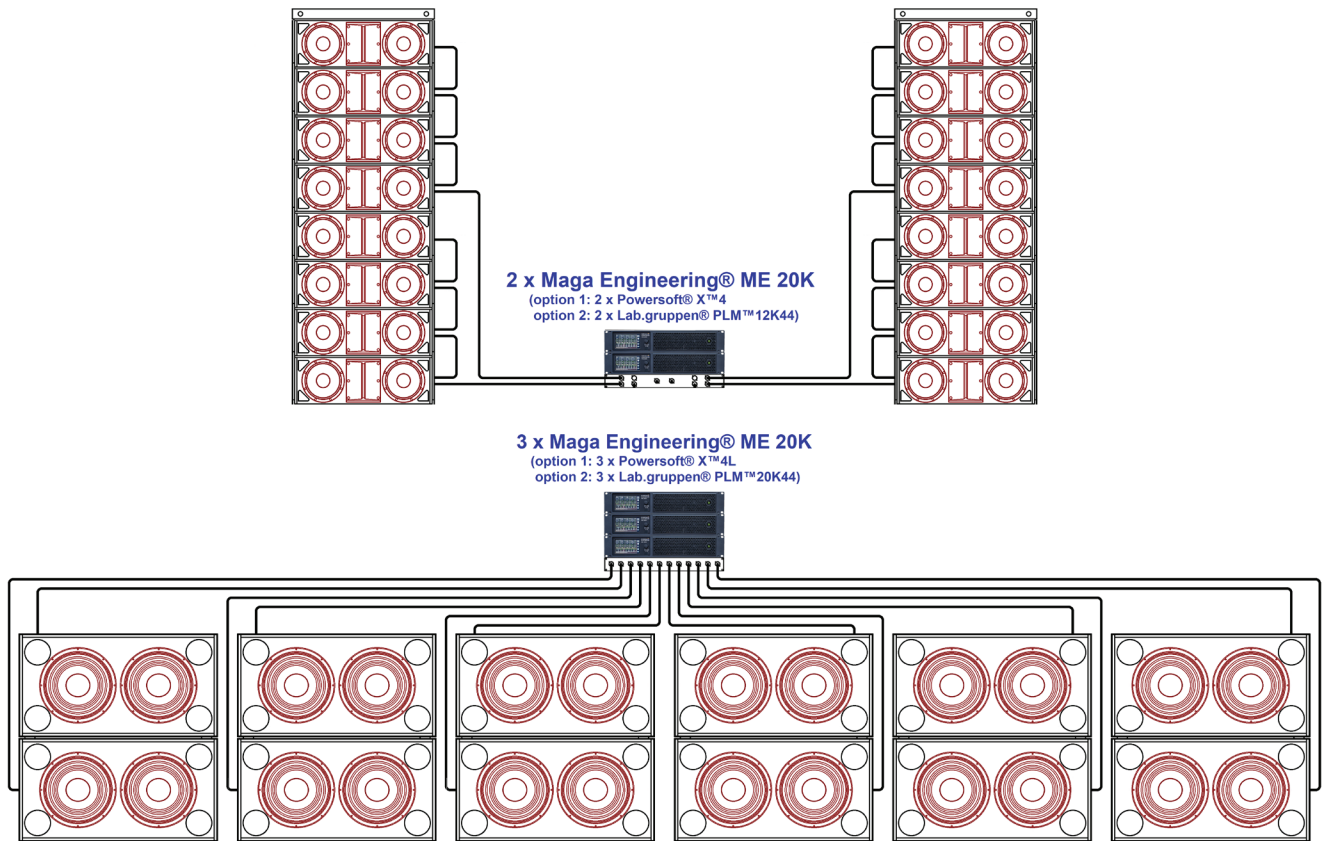
Amplification: 5 Maga Engineering® ME 20k amplifiers

(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 line array satellites + 12 ME218LEX dual 18" 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

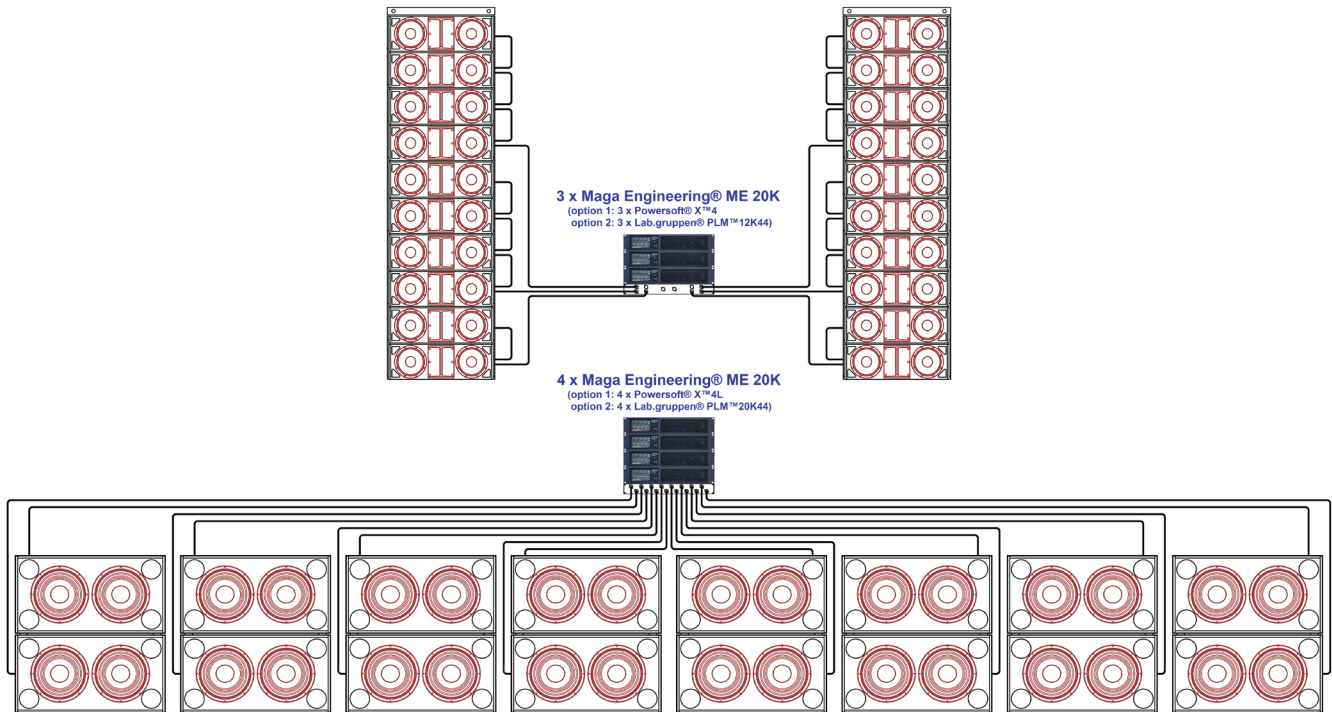
Amplification: 7 Maga Engineering® ME 20K amplifiers

(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 line array satellites + 16 ME218LEX dual 18" 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

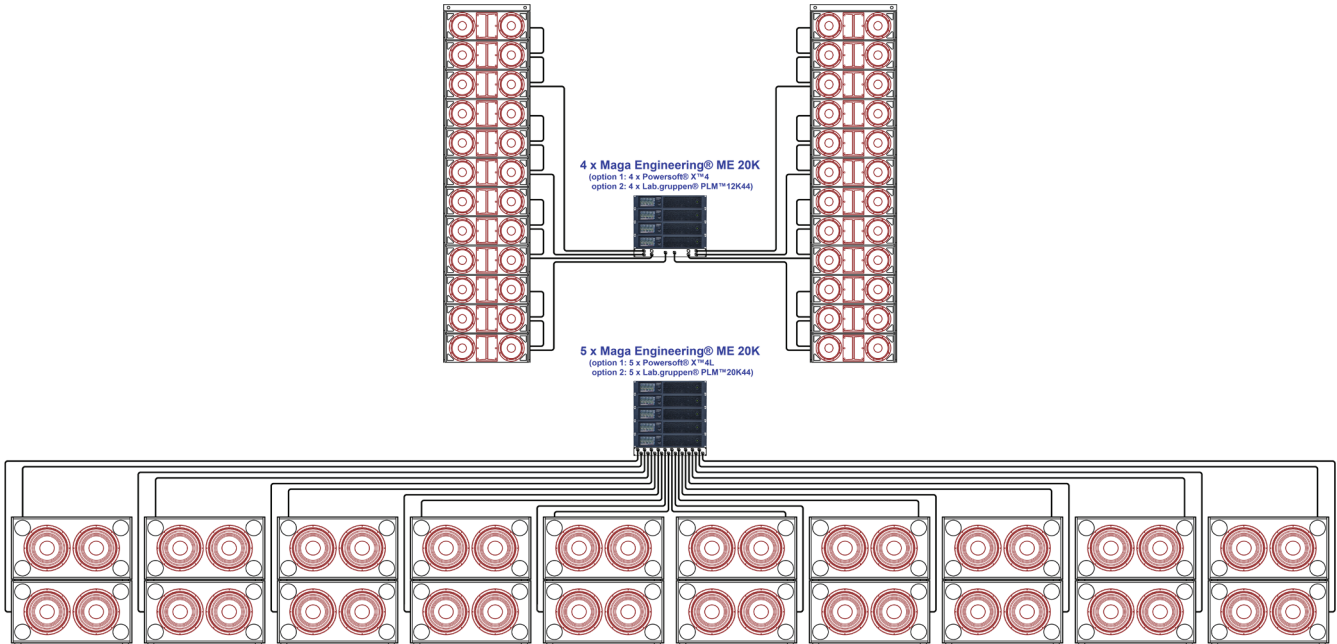
Amplification: 9 Maga Engineering® ME 20K amplifiers

(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 line array satellites + 20 ME218LEX dual 18" subwoofers

Application: Outdoor venues





NOTES



NOTES

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INVEST IN SOUND



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DESIGNED
IN SPAIN

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