

**MOOSE**

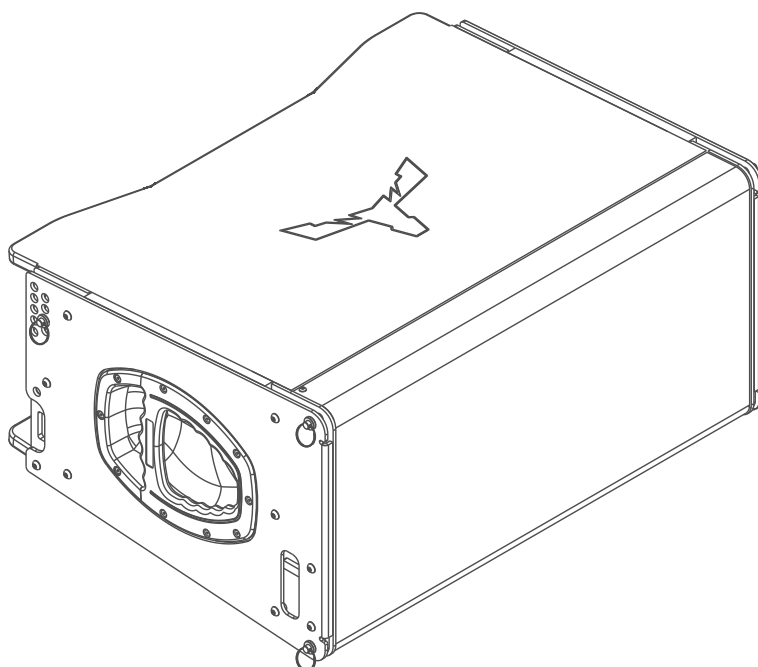
[www.mooseaudio.com](http://www.mooseaudio.com)

PROUDLY DEVELOPED AND  
MANUFACTURED IN PORTUGAL



# LARRAY - LA12

Line array speaker



## USER'S MANUAL

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## Introduction

Dear customer,

Thank for choosing MOOSE branded products!

MOOSE is a brand of professional audio & lighting products, proudly developed and manufactured in PORTUGAL.

In order to operate this product in a safe and reliable manner, please follow the instructions in this booklet and before operating the equipment read the instructions carefully and please note the technical information.

Our products undergo very rigorous testing under strict conditions and they are monitored continuously during the manufacturing process. In order to guarantee the product function and safety, the original parts of the manufacturer's design must be used. If any parts other than those of the manufacturer are used, or the product is modified in any way, the user forfeits all warranty rights to claim.

## Caution

1. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment.
2. If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
3. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
4. Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service company.
5. Do not open or modify this equipment.
6. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
7. Do not turn on the Amplifier ON before checking that all volumes to zero .

**IMPORTANT:** Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.

### CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

To prevent electrical shock do not remove the cover. No user serviceable parts inside. Refer service to qualified personnel only.

The amplifier is marked with this instruction so please proceed accordingly in order to avoid any hazard.

## Manufacturers Declaration

### PROPER DISPOSAL OF THIS PRODUCT

(Valid in the European Union and other European countries with waste separation)



This symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity.

Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

### ENVIRONMENTAL PROTECTION AND ENERGY CONSERVATION

Energy conservation is an active contribution to environmental protection. Please turn off all unneeded electrical devices. To prevent unneeded devices from consuming power in standby mode, disconnect the mains plug.

### EC DECLARATION OF CONFORMITY

The equipment marketed by MOOSE complies (where applicable) with the essential requirements and other relevant specifications of Directives 1999/5/EC (R&TTE), 2004/108/EC (EMC) und 2006/95/EC (LVD). Additional information can be requested to [info@profactor.pt](mailto:info@profactor.pt).

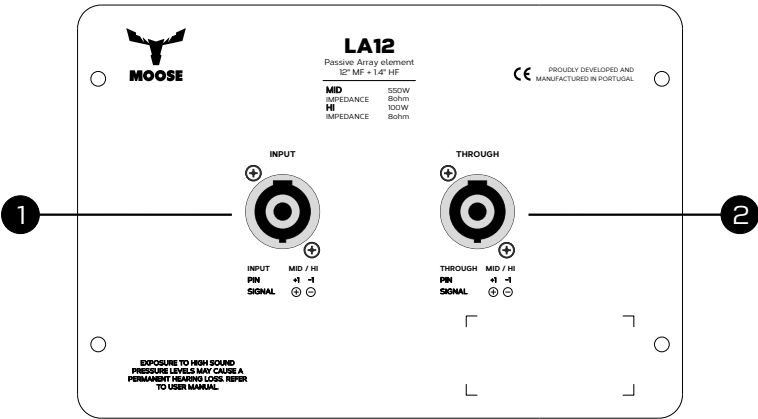


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## Connections and Controls

Please refer to the following scheme and instructions:

**LA12** Backpanel



1. **INPUT:** Speakon NL4 compatible input.
2. **THRU:** Speakon NL4 compatible output (parallel wired with Speakon compatible input 1+/-1-).

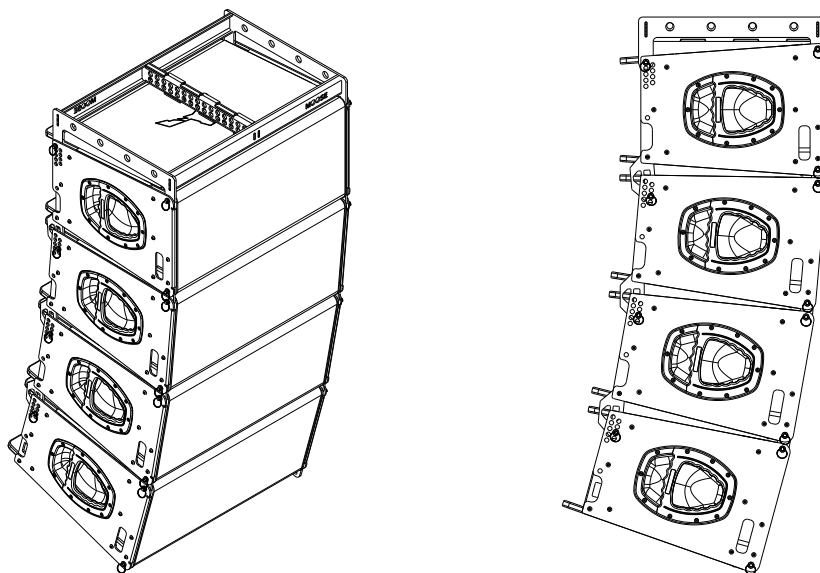
## Technical specifications

MODEL	LA12
TYPE	2-way passive line array element
ENCLOSURE DESIGN	Bass reflex, trapezoidal
POWER OUTPUT (RMS)	650W (AES)
	780W (Program)
	1500W (Peak)
FREQUENCY RANGE	62Hz - 18kHz
NOMINAL IMPEDANCE	80hm
TRANSDUCER TYPE*	12" (3in) MF + 1.4" NEO (2.56in) EU transducers
DISPERSION	Horizontal: 100° , Vertical: 7°
CROSSOVER FREQUENCY	1600Hz
MAX. S.P.L. (PEAK)	132dB @ 1m
CONNECTORS	2x Neutrik®NL4 (parallel)
CONSTRUCTION	15mm birch plywood, black polyurea coating
GRILLE	Custom perforated metal grille w/ acoustic foam
INSTALLATION, RIGGING, FLYING	Integrated rigging system, Ø9.8mm magnetic pins w/ stainless steel lanyard
DIMENSIONS (WxHxD)	660x320x450mm
	25.98x16.34x12.40in
WEIGHT	34Kg
	75.0lb

## Flying system / Rigging frame

Use the FL-LA12 Rigging Frame for flying applications. Up to twelve line array speakers can be simultaneously connected per frame. Adjust the vertical directivity angle according to the installation environment.

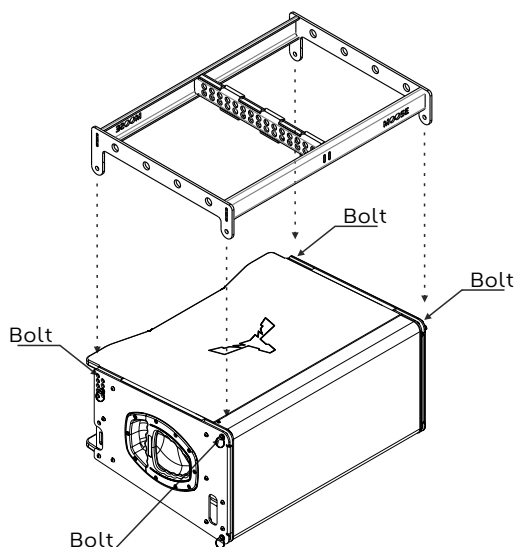
Shown below is a basic flying system.



Connect the rigging frame to the speaker referring to the figures below.

Confirm the positioning of the horn, then correctly mount the rigging frame to the speaker by fixing the supplied magnetic bolts/pins from both left and right sides.

[Speaker system assembly]

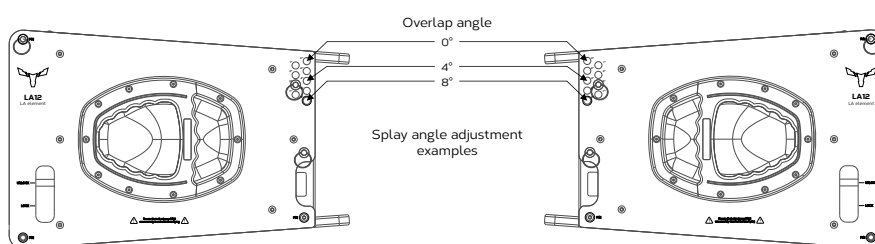


## Flying system / Rigging frame

Inter-connect speaker sections referring to the figures below.

Ensure that both speakers are securely connected by fixing the supplied bolts/pins from both left and right sides.

Since connection holes for setting the overlap angle are provided at the side rigging parts of the speaker, assemble using the connection holes matching the required overlap angle. The overlap angle can be set within the range of 0 to 8 degrees in 1 degree units.

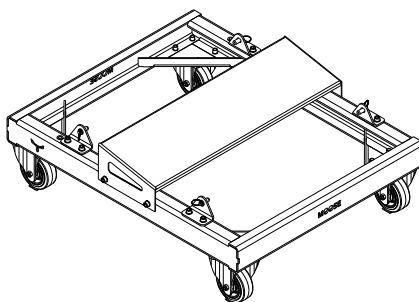


### Cautions:

- Suspension wires and shackles are not supplied with the speaker. Separately prepare and use those which are strong enough to suspend the speaker system. Further, ensure that the ceiling structure from which the speaker system is suspended is also robust and capable of supporting the system's total weight.
- A total of up to 12 line array speakers can be connected per rigging frame. No more than a total of 12 units can be connected.
- Although there is only a suspension point to suspend the system vertically, make sure that there is an additional steel safety cable or chain, with which the suspended system can be secured against falling.
- Use the suspension points that allow the system to be set for a desired downward angle. The downward angle increases as the suspension points are moved rearward.
- Add an anti-swing guy wire as required. However, take care that the speaker system's weight is not applied to the wire.

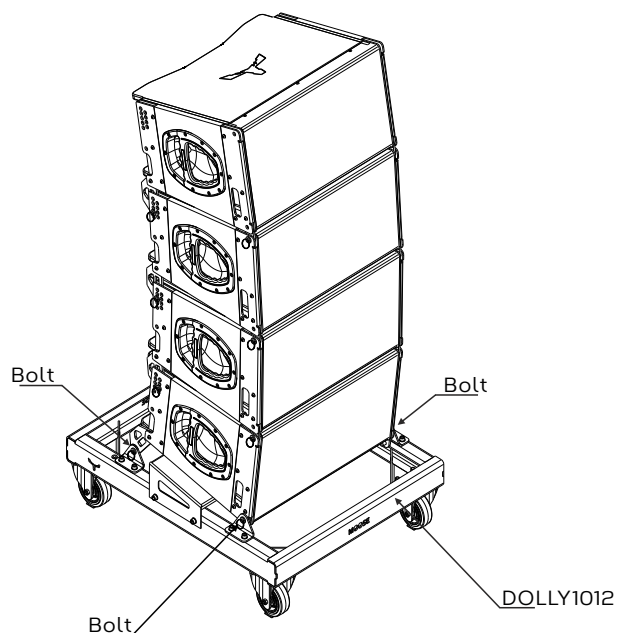
## Dolly wheel frame

Use the DOLLY-1012 to stack and carry up to four line array speakers simultaneously connected.



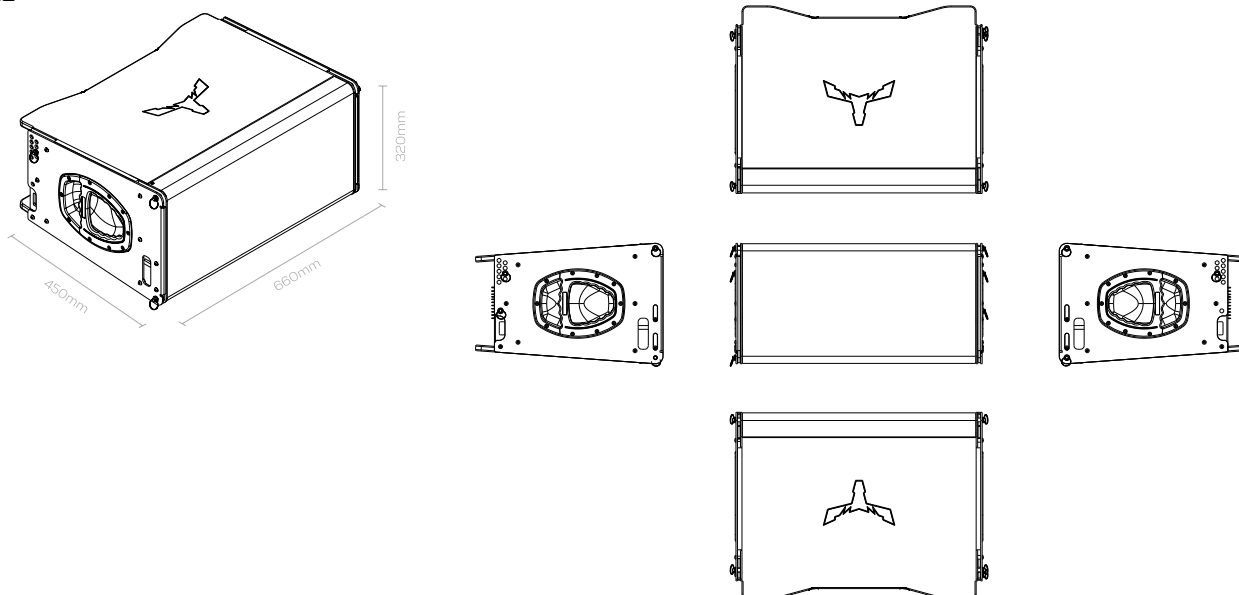
## Dolly wheel frame

Shown next is a basic dolly carrying system.



## Dimensional diagram

LARRAY  
LA12



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