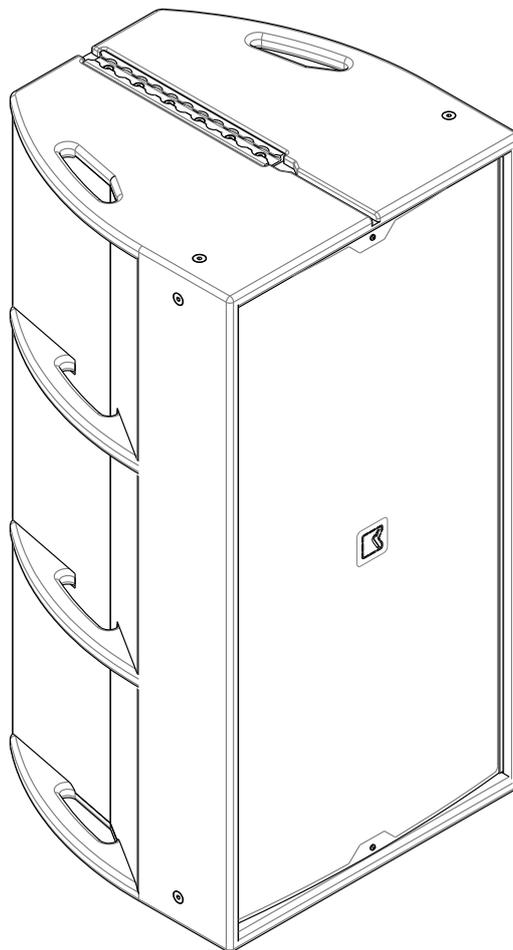


**Outline**

# MONACO 215CX

Full-range portable loudspeaker



**QUICK START**

## 1. SAFETY REGULATIONS

Please read this manual carefully and in its entirety. It contains important information regarding safety issues, including guidelines for general safe use of rigging systems as well as advisories on government regulations and liability laws.

The suspension of large, heavy objects in public places is subject to numerous laws and regulations at the national/federal, state/provincial, and local levels.

The user must assume the responsibility for making sure that the use of any rigging system and its components in any particular circumstance or venue conform to all applicable laws and regulations in force at the time.

### 1.1. GENERAL SAFETY RULES

- Carefully read this manual in all its parts
- Respect the working load limits and maximum configurations of the elements and of any third-party component (such as suspension points, motors, rigging accessories, etc...)
- Do not incorporate any accessory not provided by Outline; all damaged or defective components must be replaced only by equivalent parts approved by Outline
- Ensure personnel health and safety, ensure that no one is standing under the system during the installation, ensure that all personnel involved in the installation are equipped with personal safety devices
- Always double check that the elements are correctly connected before suspending the system.

The rigging elements are easy to use, however the installation shall be carried out only by qualified personnel that are familiar with the rigging techniques, safety recommendations and with the instructions described in this manual.

All mechanical components are subject to wear and tear over prolonged use as well as corrosive agents, impacts or inappropriate use. For this reasons users have the responsibility to adopt and adhere to a schedule of inspections and maintenance. Key components (screws, connecting pins, welded points, rigging bars) must be inspected before every use. Outline strongly recommends to carefully inspect the system components at least once a year, reporting in a written document the date, the name of the inspector, the points checked and any anomalies discovered.

### 1.2. DISPOSAL OF WASTE MATERIALS

 Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2012/19/EU and subsequent amendments. This means that the product must NOT be disposed of with other household-type waste. It is the users'

responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor. For more information about where you can send your equipment for recycling, please contact your local distributor. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

### 1.3. CONFORMITY AND WARRANTY

 All the Outline electro-acoustic and electronic devices are in conformity with the provisions of EC/EU directives (as stated in our CE declaration of conformity).

The CE declaration of conformity is attached to the product warranty certificate and is shipped with the product.

## 2. DESCRIPTION OF THE SYSTEM

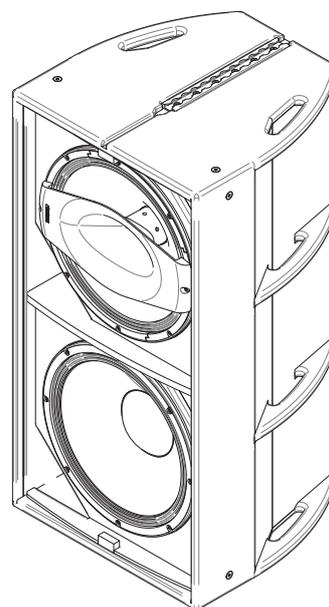
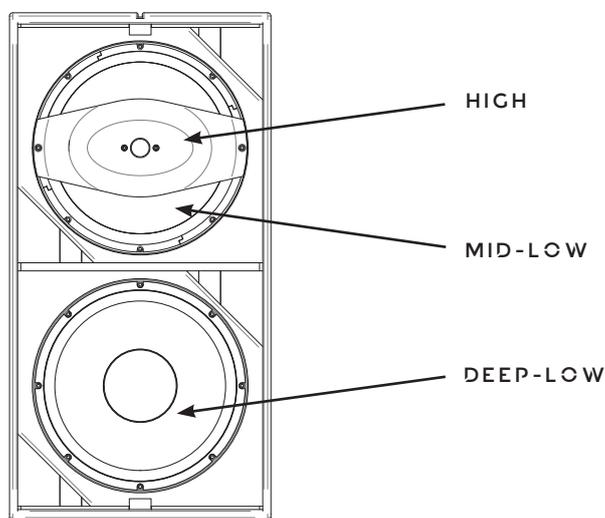
As for all Outline products, every single component of the cabinet, its structure and dimensions are the result of accurate choices made basing on specific studies, starting from an idea of the enclosure's design and its use as a part of a more complex system.

Monaco 215CX is a two-section hybrid system with a passive internal crossover filter. With a nominal dispersion of  $80^\circ \times 60^\circ$  (H x V), the system features a two-and-a-half-way crossover which means a high-pass section for the 3" coaxial waveguide-loaded compression driver, a low-pass section for the mid-low 15" bass-reflex loaded woofer and another low-pass section (tuned at a lower frequency) for the

deep-low bass-reflex loaded 15" woofer.

The cabinet is constructed with Baltic birch plywood and undergoes a precise assembly process: some parts are made with curved wood, whereas other sections are formed from appropriately shaped panels.

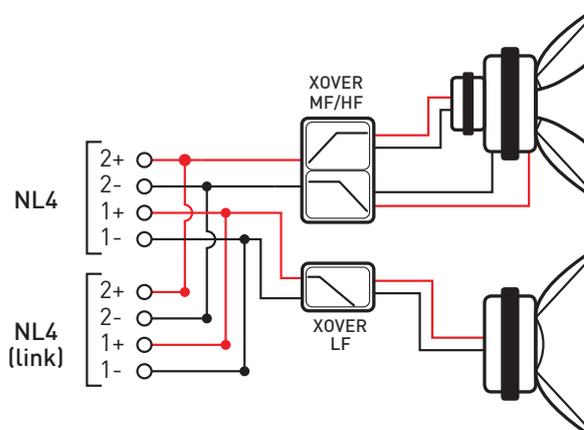
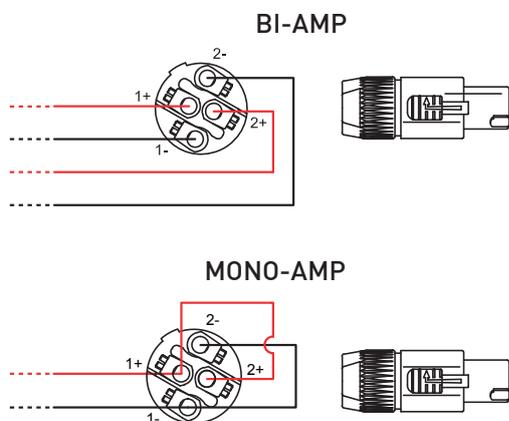
The result is a very rigid cabinet without any internal resonance. Useful external handles facilitate handling and installation to the utmost. This speaker finds its best application as the main element of indoor portable sound reinforcement systems for venues like arenas, theatres, sports halls, live events places, etc.



## 3. CABLING

The internal crossover is designed to fully drive this enclosure by either a single channel of amplification or by two channels (mono-amp / bi-amp).

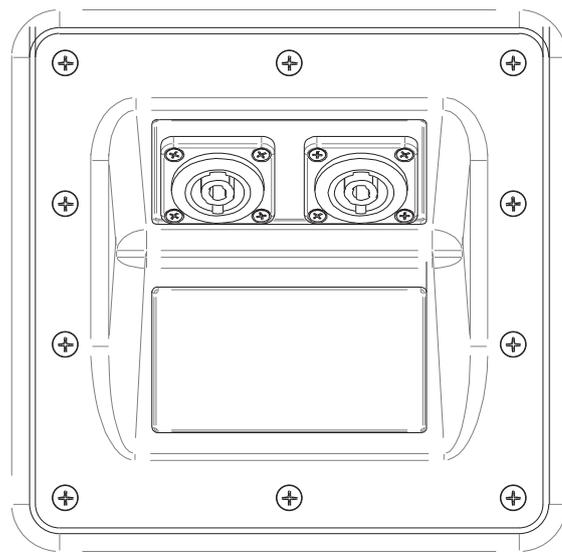
To use the enclosure in bi-amp mode it is enough to use a classic four-wire cable with a NL4 speakon connector.



For single-channel amplification it's necessary to bridge the two poles' pairs (1+ to 2+ and 1- to 2-) of the NL4 speakon.

A proper size amplifier, in addition to an external processing platform, are required to properly operate the loudspeaker system and achieve the best performance while controlling dynamics.

However, thanks to the internal crossover, the amplification alone is sufficient to use this loudspeaker safely.



## 4. RIGGING

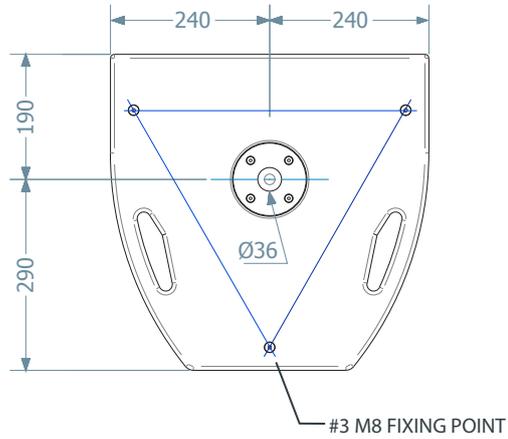
Each Monaco 215CX element requires one or more external rigging structures to support each single element by its rail and the total weight of the cluster if more than one loudspeaker is used. The rigging hardware must be designed according to the local laws and local safety factors and considering the total load of the system, the dynamic factors inducted by vibra-

tions, winds and mounting procedures. The rigging system shall allow also safe mounting and dismounting operations and easy visual control. Outline provides a series of rigging accessories for the Monaco 215CX Smart Fix Rail System, according to the application needs.

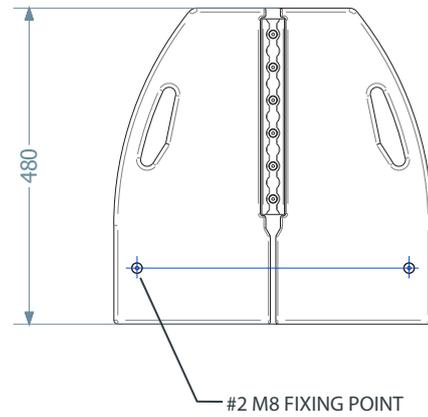


## 5. OVERALL DIMENSIONS

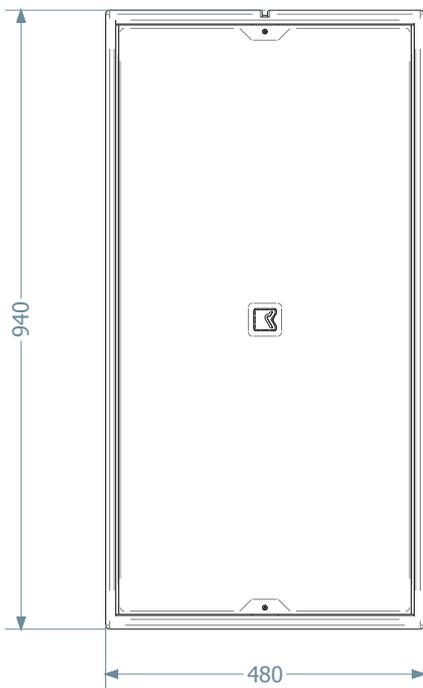
BOTTOM VIEW



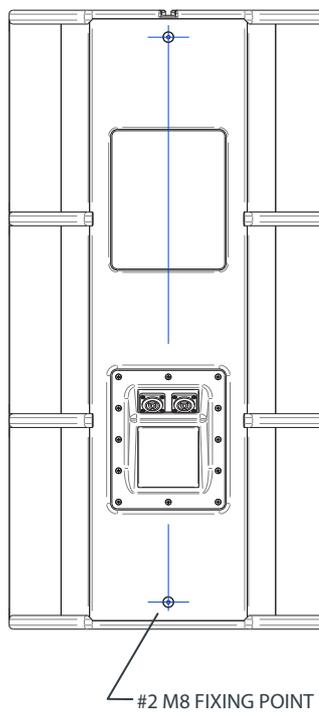
TOP VIEW



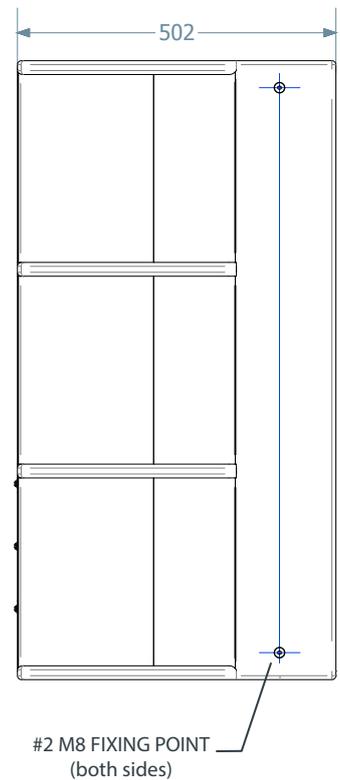
FRONT VIEW



REAR VIEW



SIDE VIEW



## 6. APPENDIX - PERIODIC CONTROLS

All the loudspeakers, before the shipment, are fully tested at the end of the production line, but before the system is installed an overall check shall be performed to ensure that the system has not been dam-

aged during the shipment. Periodic controls shall be performed at regular time intervals. The following table represents an ideal check list and shall be completed with the external rigging elements.

Loudspeaker Serial Number:				Position:				
Date								
Transducers Impedance								
Amplifier								
Loudspeaker cabinet								
Loudspeaker grills								
Grills screws								
Hardware								
Hardware bolts								
Main rigging structure								
Safety devices								
Additional notes								
Signature								

## 7. NOTES



Outline carries out on-going research for product improvement. New materials, manufacturing methods and design upgrades are introduced to existing products without prior notice as a routine result of this philosophy. For this reason, any current Outline product may differ in some aspect from its description, but will always equal or exceed the original design specifications unless otherwise stated.

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