

## Features

- Reference-quality large format system
- Light Weight
- True Full Range Response (35Hz-20KHz)
- Precise, adjustable horizontal and vertical pattern control
- Extremely high output
- Industry-best durability, longevity, and weather resistance
- Seamless integration with CP Series subs and CO-8 Systems

## Applications

- Arena/Stadium Concerts
- Festivals
- Large scale Theater Productions
- Large Corporate or Broadcast events
- Maximum output Sidefill
- Delay Towers

The Cohesion 12™ loudspeaker system represents the next generation of versatile, reference quality concert loudspeakers. Unlike previous-generation loudspeaker systems, the Cohesion 12 combines industry-leading cabinet design and construction with advanced technology transducers, resulting in higher power, lighter weight, and extremely accurate pattern control. The result is a system that delivers incredibly powerful, smooth audio to every seat, while also maximizing operational efficiency.

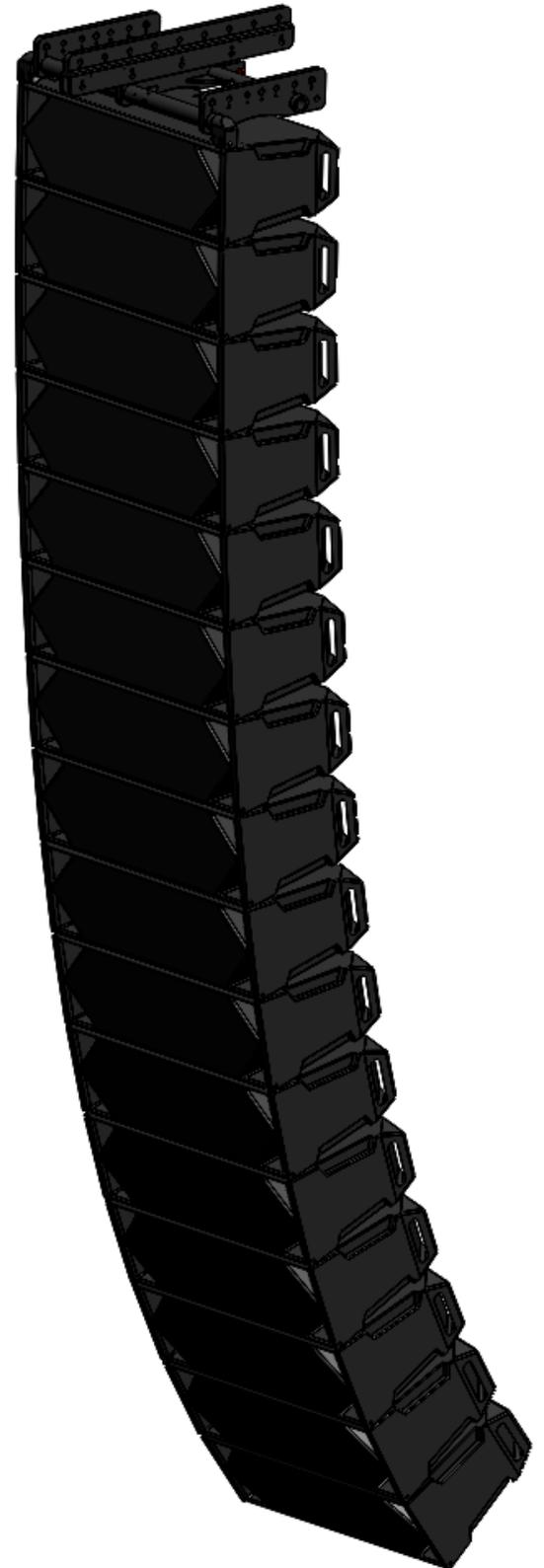
The CO-12 low frequency section contains two high efficiency, long excursion neodymium cone transducers in optimally tuned, vented enclosures. Careful attention has been paid to the enclosure design to eliminate standing waves and unwanted resonances, while minimizing weight and still preserving maximum rigidity. The ports have been specially optimized to reduce port noise and compression. The result is impressive low frequency extension and output capability, which reduces the need for separate sub-bass loudspeakers compared to other systems of this size.

The midrange section features specially designed neodymium, high efficiency midrange transducers coupled to a Boundary-Element-Analysis optimized coaxial horn system. The horn offers extremely precise 80 or 120 degree constant horizontal beamwidth for unmatched pattern control and efficiency over its entire operating range.

The high frequency section's advanced compression drivers are mated to a proprietary waveguide system feeding the same horn as the midrange. Their innovative diaphragm technology virtually eliminates break-up distortion within the audible range, resulting in very smooth extended response without the harshness associated with traditional devices. The high frequency vertical pattern has been mathematically optimized for ideal behavior within the array.

Designed to withstand the rigors of the road, the Cohesion 12 is constructed of the finest marine grade Finland birch plywood. A foam-backed aluminum grille and weather treated components ensure reliability in the harshest environmental conditions, and a multi-step epoxy paint process provides a durable, attractive finish.

As with all Clair loudspeaker products, the Cohesion 12 is designed, engineered, and made with pride in the USA.



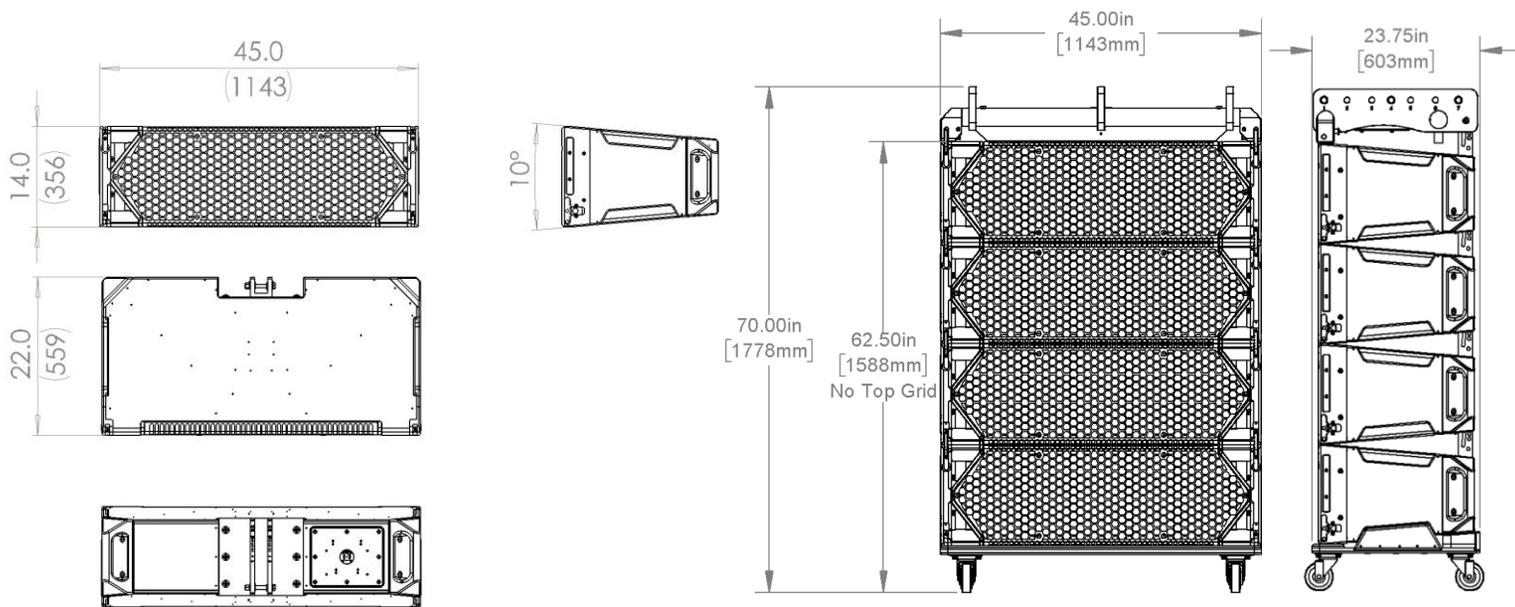
*Clair Cohesion 12™ 16-enclosure array  
Shown with Top Grid and optional Top Grid Slider*

# Cohesion CO-12

## Specifications, Dimensions, & Accessories

Type	Full Range Vertical Array Loudspeaker	Frequency Response (-10dB)	35Hz-20KHz
Applications	Concert Sound, Stadiums, Arenas, Amphitheaters, Theaters	Coverage Pattern	H: 80° (Standard), 120° (Optional) V: Configuration Dependent
Rigging Hardware	Proprietary Clair 3-Point Rigging 0-10 Degree Vertical	Construction	Premium multi-ply Finland marine plywood with proprietary multi-step epoxy paint process
Maximum Array Size	Up to 20 CO-12 enclosures in any single column	Connectors	(1) EP-8 Male
Compatible Subs	Clair COHESION CP-218 Clair COHESION CP-118	Weight, CO-12/80°	132 lb (59.9 Kg)
Amplification	Clair StakRak™ or PakRak™	Weight, CO-12/120°	135 lb (61.2 Kg)
Processing	Proprietary Clair/LAKE®	Weight, Top Grid	100 lb (45.5 Kg)
Software	Clair/AFMG Ease Focus™ Array Configuration/Optimization Software	Weight, Dolly Tray	43 lb (19.6 Kg)
	Clair Lake Control® System Controller	Dimensions	14.00"(h) x 45.0"(w) x 22.0"(d) 356 x 1145 x 559mm
		Transporation	Removable heavy duty dolly tray for up to four CO12 enclosures Optional padded transport cover

### Dimensional Data



### Accessories

#465600	Top Grid for rigging up to 20 CO-12 Loudspeakers	#455027	COHESION EP-8 Fanout for Clair Hi-D Cabling System
#465601	Top Grid Extension/Slider for #465600 Grid	#465605	Transport Dolly for up to 4 CO-12 Loudspeakers
#432140	SmartGrid Laser/Inclinometer Module for #465600 Grid	#465606	Padded Transport Cover for 4 CO-12 Loudspeakers
#465720	Rigging Delta Plate	#465607	120 Degree Horn Insert for CO-12
#465602	CO-12 Bottom Pullback Bar Assembly	#381289	Spares Kit, CO-12