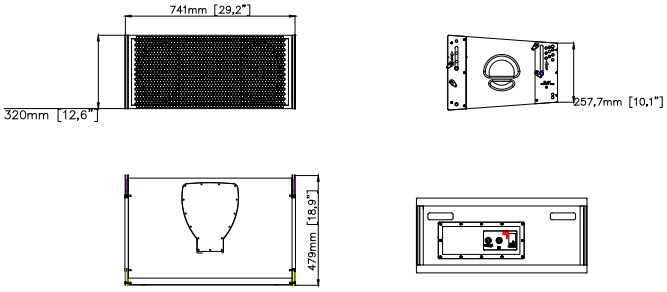
CLa21: Compact Curvilinear Array Loudspeaker



MAIN APPLICATIONS

- Theaters, arenas, Stadiums
- Dance clubs
- Medium size festivals
- Coorporative events and churches
- Fill and integration with LA208

MAIN FEATURES

- Compact two-way cabinet
- 2 x 10"LF 1 x 1.4" exit compression Driver
- Hi peak power
- Easy propietary rigging systems
- 8Ω LF and16Ω HF Nominal Impedance

DESCRIPTION

The Tecnare **CLa21** is a high power, two way, line array module engineered to deliver an incredible output for use in indoor or outdoor all kind spaces.

CLa21 has enough new solutions to make the work of sound engineers easier .

First of all we have established a design criterion in which the size of the cabinet is extremely compact.

The bass and mid section are conformed by two 10-inch dipolar mounted drivers and High frequency is handled by a 1.4" exit compression driver attached to a pattern controlled (75º horizontal x 13º vertical) symmetrical curved waveguide.

The advanced bass-reflex and port arrangement delivers full bandwidth capabilities with an extended LF output. Due to the dipolar arrangement of the LF drivers, a broadband, horizontal directivity control is maintained down to approximately 500 Hz.

The system's shape is trapezoidal , so we can better angle and focus it's elements.

This feature could partially solve front fill applications, if the front fill focused elements could be managed independently a part from the other elements of the array.

Frequency Response	55 Hz - 20 kHz*
Frequency Response: Free Field	60 Hz/80** - 18 kHz ±3 dB
Sensitivitivity (1W/1m)	108 dBspl
Calculated SPL	136 dBspl continuous / 142 dBspl peak
Transducers: Low/High Frequency	2 x 10" LF cone drivers and 1 x 3" voice coil HF driver on waveguide device.
Dispersions (HxV)	75° x 13º (Only one box. Vertical varies with array lenght and configuration)
Recommended Amplifier	PA2100PA3000/PA5000/T20-44/T10-44/T20-48/T10-48
Power (AES)***	720 W
Power (Cont)	1420 W
Rate Impedance	8 Ω LF - 16 Ω HF
Input Connectors	IN: 1xNL4 SpeakON® LINK: 1 X NL4 SpeakON®
NET Weight	35 kg (77,16 lbs)
Dimensions	741 x 465x 320mm *(29.17" x 18.31" x 12.60")*(WxDxH)
Construction	16mm birch plywood. Finished in black semi-matt textured Polyurea weatherized coating.
Protective Grille	Powder coated perforated steel with acoustically transparent reticulated foam

*Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
**Standard/CUT mode
***Based on a 2 hours test applying 6dB crest factor pink noise signal within the range Fs-10Fs (AES2-1984).

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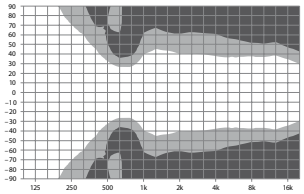
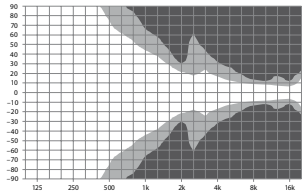
The **CLa21** is a full range line array loudspeaker for use in vertical columns, passive 2-way designs housing 2 x 10" Faital® LF drivers and 1.4" HF B&C® compressions drivers with a curved wavefront with nominal dispersion pattern of 75° x 13° (H xV).

CLa21 can be combined with the SW18VR woofer system in mixed line array setups, as separate woofer column or cardio configuration, or in ground-stacked applications. For extension of bandwidth and headroom ground-stacked SW218EB can be used.



CLa21 horizontal dispersion



CLa21 vertical dispersion

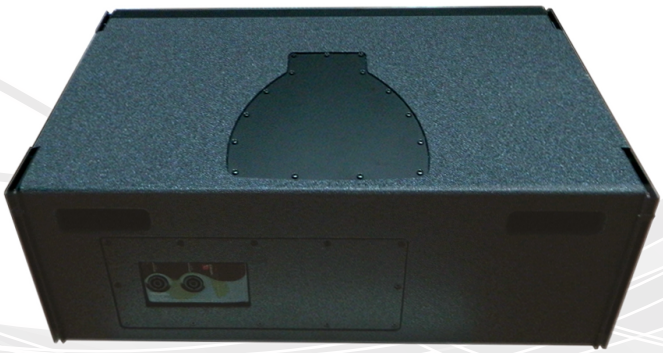
The **CLa21** is suited to a wide variety of applications. Its full range capability (60Hz) at reasonable levels qualifier for applications where sub is not required. Increase vertical coverage (13°) enables to cover theaters, arenas and stadiums with reasonable speakers quantity. Other applications include dance club, medium size festivals, corporate events and churches.

MAIN APPLICATIONS

The **CLa21** has built in proprietary hardware for simple, fast and safe rigging.

The enclosure has been made with the latest techniques assuring a perfect and rigid construction.

Weatherized nish is provided, as the cabinet is coated with rugged Durawound texture finish and protected with specially treated grilles.



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