



CS Series **CATALOGUE**

Latest edition

Proudly designed, engineered and
manufactured in SPAIN



CS Series

The CS series comprises one two-way in-ceiling mount loudspeakers and one in-ceiling subwoofer. This is the first in-ceiling series that Lynx Pro Audio offers, designed and intended for voice and background sound reinforcement.



CS-6T

Components	6" 165 mm polypropylene cone 0.5" polypropylene Tweeter coaxially mounted
Frequency Range	90 – 18.000 Hz
Rated power	40W (8 Ω) 160W Peak
Transformer taps	100V 30 / 15 / 7.5 / 3.75W 70V 30 / 15 / 7.5 / 3.75 / 1.9W Low Impedance 8Ω
Max. SPL	8Ω 105 dB 100V / 70V 104dB
Sensitivity	89dB 1W / 1m @ Zn
Nominal impedance	8 Ω
Nominal coverage	90° Conical Dispersion
Recommended signal processing	90 Hz, at 24 dB per octave high pass filter
Crossover frequency	2500 Hz
Enclosure material	ABS
Grille	Powder coated steel, white finish, paintable
Colour	White
Dimension	139 mm x 239 mm (5,5 in x 9,4 in)
Cut out size	205 mm (8.1 in)
Net weight	2 kg (4.4 lbs)

Technical Data



CS-8SUB

Components	8" 200 mm polypropylene cone
Frequency Range	60-150Hz (-10dB)
Rated power	80W (8 Ω) 220W Peak
Transformer taps	100V 50 / 25W 70V 50 / 25 / 12.5W Low Impedance 8Ω
Max. SPL	8Ω 109 dB 100V / 70V 107dB
Sensitivity	90dB 1W / 1m @ Zn
Nominal impedance	8 Ω
Nominal coverage	180°
Recommended signal processing	40 Hz, at 24 dB per octave high pass filter
Crossover frequency	150 Hz
Enclosure material	ABS
Grille	Powder coated steel, white finish, paintable
Colour	White
Dimension	177 mm x 280 mm (6,9 in x 11 in)
Cut out size	245 mm (9.6 in)
Net weight	4Kg (8.8 lbs)

Software

Prediction, control, DSP updates, management system...all our softwares are designed in-house and are a fundamental part of the Lynx Pro Audio technology. They are designed by and for sound technicians, with a very intuitive interface easy to use.

Masters of DSP technology and one of the few companies in the world that develops its own digital processing systems. This allows us to control all internal processing, from gain to crossover, dynamics, etc.

Online Control System (OCS)



Control and monitoring software for multiple devices (loudspeakers, amplifiers and processors). Allows control via Ethernet / USB for Lynx Pro Audio systems with integrated DSP.

It controls the powered cabinets in real time and obtain detailed information of cabinet behavior.

ARK Software



The ARK software works via USB or Ethernet (cable or wireless) and is the interface to configure all the parameters of the range of processors ARK-70 and ARK-20 series.

The ARK software has been completely designed at the Lynx Pro Audio laboratory by our own engineers. It allows you to configure every one of the parameters in the processor, being in "Real Time" or "Offline", storing them in the processor via the USB interface or ETHERNET.

Cabinet Updater



Connect the cabinet by USB to your PC. The Cabinet Updater software will automatically detects your cabinet hardware and updates the presets to the latest and optimum configuration available.

Rainbow 3D



Rainbow 3D is an electro-acoustical prediction software for loudspeaker systems, boasting comprehensive high-speed simulation in a three-dimensional environment. With a sophisticated design, Rainbow 3D stands out for its speed, being able to do a simulation in a few seconds.

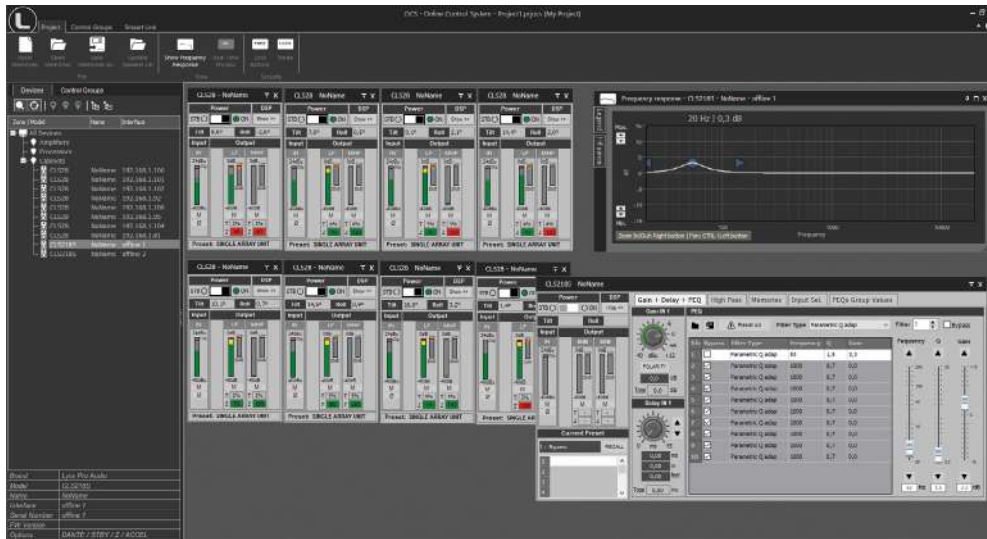
Thanks to this software you will be able to "virtually" determine the acoustical response of one or various cabinets at the same time.

Online Control System (OCS)

OCS is our control software, **working in real time for all our digital processing systems**. It is a user interface enabling the set-up of all digital devices in an installation.

With OCS you can configure / monitor all the parameters of a self-powered Lynx Pro Audio system (input levels, cabinet angles, module temperature, compression levels....), all parameters available in our processors and all settings for our HPX amplifiers, **from the input sensitivity to the digital process for each channel independently**. You can change the preset, gain, mute and polarity, activate the weather compensation and the SOLO mode.

OCS enables configuration from one single software system for all devices connected to an Ethernet network and incorporates direct communication with Smart(R) measurement system. **Through our Smart Link we can connect to any of Smart(R) session connected to the local network**. This allows us to see, in real time, the captured measurement directly in our process window.



Control and monitoring software for multiple devices (loudspeakers, amplifiers and processors). Allows control via Ethernet / USB for Lynx Pro Audio systems with integrated DSP.

• Who is it for?

Users of Self powered DSP incorporated Lynx Pro Audio Cabinets where the user has requested the cabinets to be supplied with the Ethernet Module kit.

• What is it for?

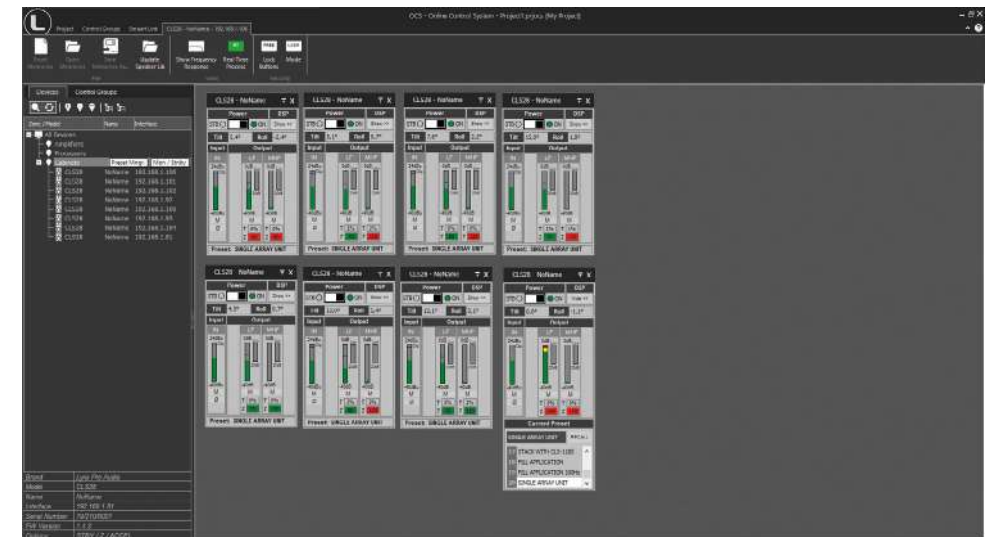
Obtain detailed information of cabinet behaviour and monitor the cabinet/s in real time through the users PC so you can control online a single cabinet or a complete cabinet system from the OCS window. You can apply a Parametric EQ with 6 filters totally configurable, insert a delay up to 90 ms, change the preset, gain, mute, polarity and phase of every cabinet connected. You can also activate the air absorption compensation and select the «SOLO» mode.

• How does it work?

Via Ethernet (cable or wireless). Once installed, the OCS software automatically detects all the cabinets connected to the network and displays them in the OCS window on the users PC.

• What does it show?

As well as displaying the cabinet model and IP address the OCS will be monitoring in real time and the user will be able to view RMS levels, compression and output levels per way, delay, EQ, power module temperature, air absorption compensation and cabinet angulation.



Rainbow 3D Electroacoustical prediction software

Rainbow 3D is an **electro-acoustical prediction software for loudspeaker systems**, boasting comprehensive **high-speed simulation in a three-dimensional environment**. With a sophisticated design, Rainbow 3D stands out for its speed, being able to do a simulation in a few seconds.

Being a technology that has been developed in-house by our engineers, we are able to adapt to the needs of our clients, make improvements when necessary and develop new tools. Rainbow 3D is an ongoing project that will be constantly adding new features.

- **Designed from scratch by professionals**

Despite the existence of the previous Rainbow 2D, this new software has been coded from scratch by our engineers in order to achieve an ultra-fast simulation and to create a visually rich 3D environment. The simulation takes advantage of all cores in the computer using multi-threading techniques for optimised calculation speed.

The program can simulate all Lynx Pro Audio's acoustic enclosures located in a 3D space. New spherical measurements of the loudspeakers have been performed, with up to one degree of accuracy, in the recently built anechoic chamber.

- **Complex-shaped surfaces**

The program can simulate all Lynx Pro Audio's acoustic enclosures located in a 3D space, including the classic side and top views. It can also define multiple listening zones and allows offset positioning and symmetry.

You can create complex-shaped surfaces as listening zones (venues): trapezoidal forms, semicircles, circles, rectangles and other asymmetrical forms. Each corner in a 4-vertex surface is independently definable as straight or round.

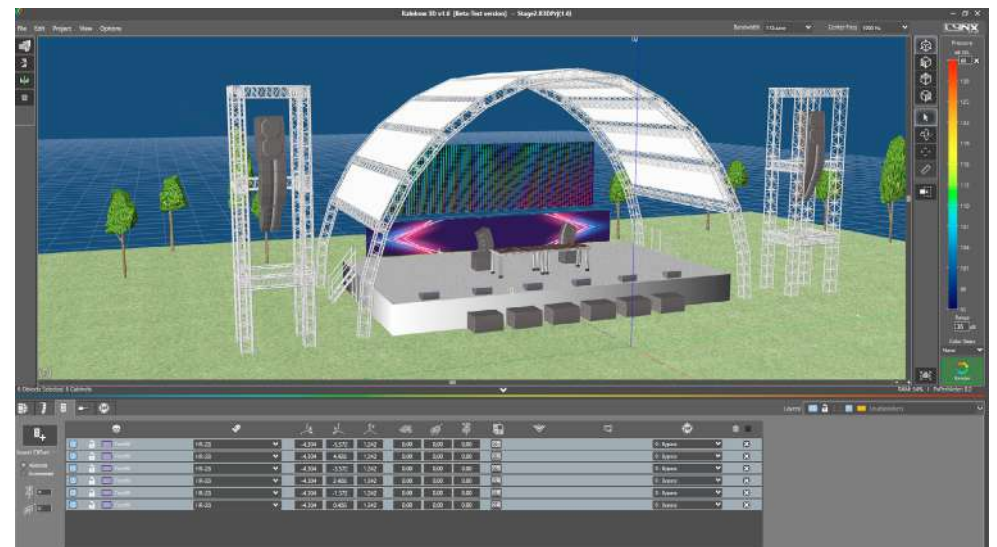
- **Blueprints, textures and ornaments**

Blueprints can be loaded and used as a reference point or template on which reproduce the venue more closely to reality.

Furthermore, you can add textures and ornaments (decorative 3D objects) that you will find in the library to make the project more realistic and visually appealing.

- **Create projects with endless zones**

You can create customized designs using multiple edition and productivity tools: create surfaces, duplicate, apply symmetry on X and Y, show/hide surfaces, change dimensions, change position, change rotation, take screenshots, etc.



- **Unlimited sound sources**

Allows the acoustic simulation for an unlimited number of sound sources and audio systems.

You can place as many systems (subwoofers, line arrays, columns and individual cabinets) as you desire or you can create your own group of customized sound systems.

Line arrays can be placed in stack or flown configuration. Also, you can create clusters from any individual cabinet available in the library.

- **Create your own “Sound Systems”**

You can select different models of cabinets from the library, create a group with the desired configuration and save them as a sound system. In this way, you can create a group of customized sound systems with your own configurations and reuse them in other projects, saving time.

To make this possible, you will need to create a “system” file. This can be integrated upon other projects with the “Load sound system from file” option or you can import it directly into the library to get access whenever you need it with the “Insert sound system” option.

When you create a Sound System, you can add a name, a description and you have the chance to upload a picture.

- **Organisation by layers**

To work in a more organized way you can create multiple layers, with different names and colors to distinguish them. All elements within a layer can be selected and/or moved among them. You can also lock a layer, delete it or disable the speakers for simulation.

- **DSP process over sound sources**

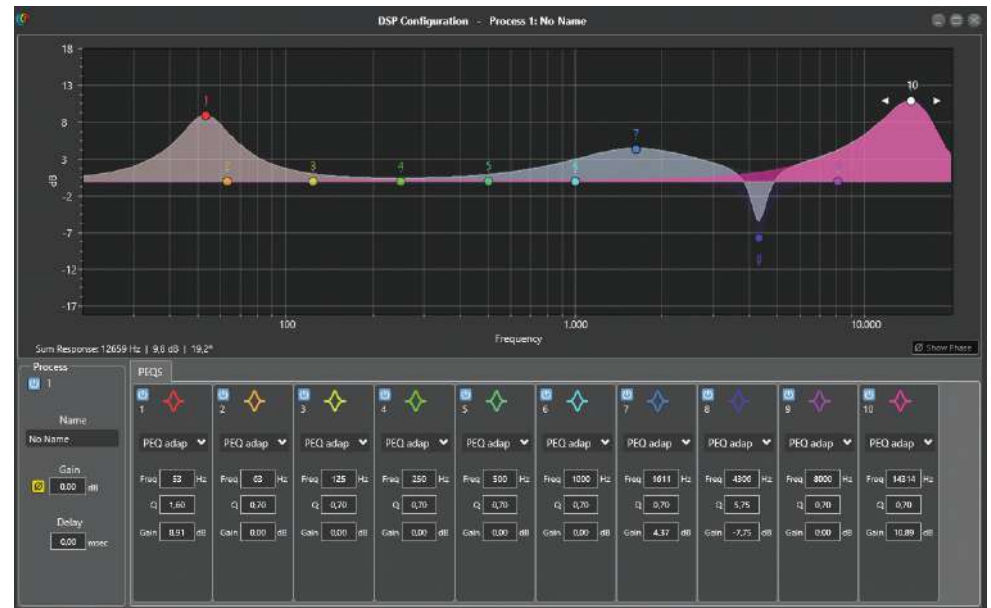
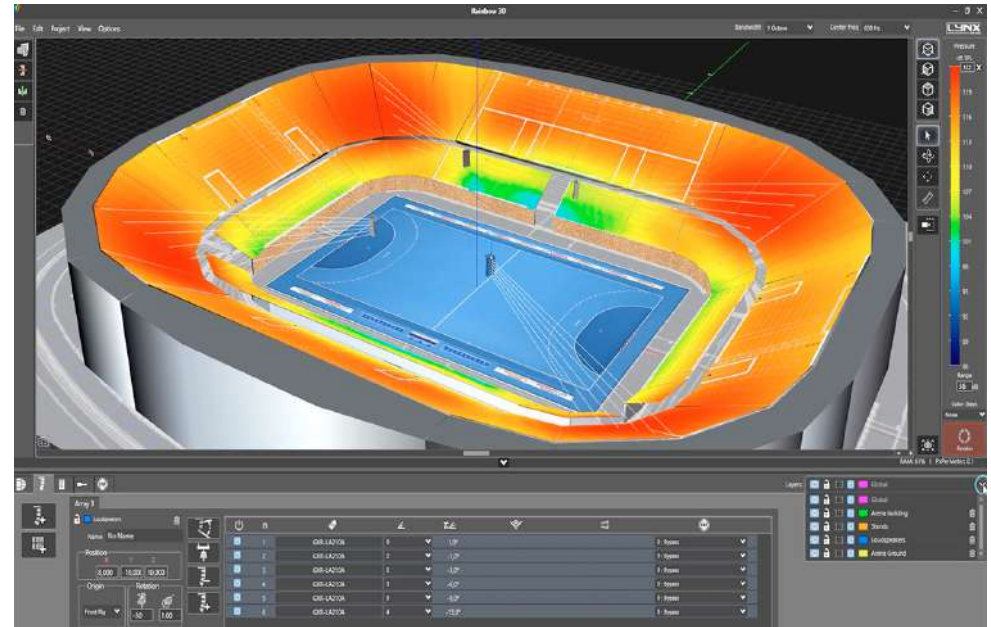
Adding DSP process to sound sources to make corrections and optimize sound, using EQ filters, delay, gain and polarity inversion. In the near future, direct communication with Lynx Pro Audio’s cabinets will be available.

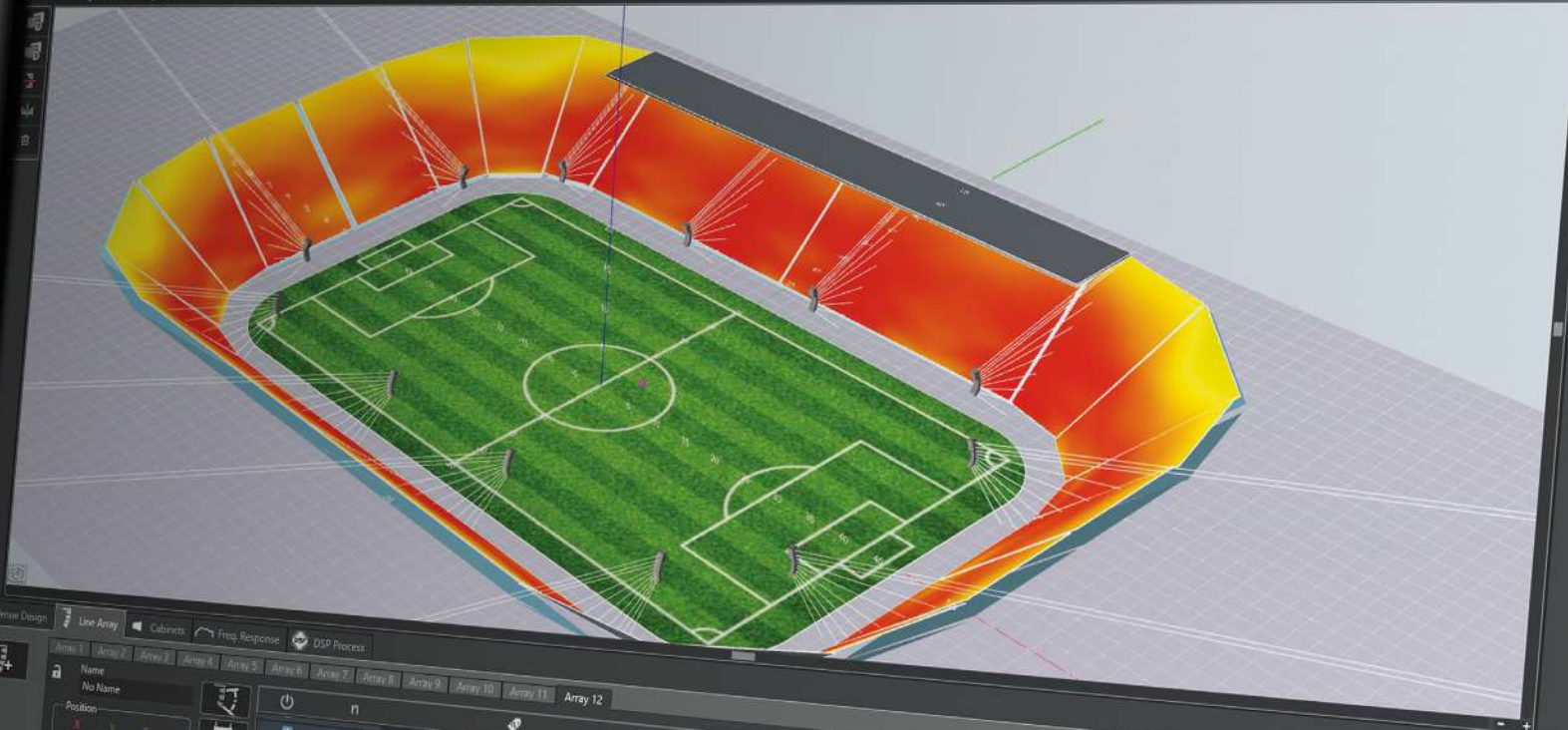
- **Multiple measures and tools**

Likewise, the R&D department is developing multiple measurements and analysis tools for the calculated data. For example, adding virtual microphones that show the frequency response in the points of location indicated.

Among other tools you will find a wizard to set up different line array arrangements, a tool for line array autoplay and a ruler to take measurements (meters) in the 3D scene.

A PDF report can be generated with extensive information that includes 3D views of the project as well as a list of surfaces and loudspeakers with set-up data and EQ.



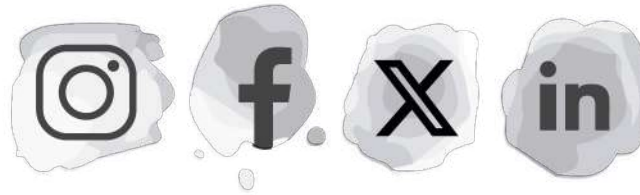


Line Array Cabinets Freq. Response DSP Process

Array	Name	Position (X, Y, Z)	Rotation (Pitch, Yaw)	Mounting	Flows	n	Angle	Internal DSP	Bypass
Array 1	No Name	-44.64, -14.47, 7.62	180, 19.00			4		1: Internal DSP	0: Bypass
Array 2						5	14.0°	1: Internal DSP	0: Bypass
Array 3						6	7.0°	1: Internal DSP	0: Bypass
Array 4						7	-3.0°	1: Internal DSP	0: Bypass
Array 5						8	-13.0°	1: Internal DSP	0: Bypass
Array 6						9	-23.0°	1: Internal DSP	0: Bypass
Array 7						10	-33.0°	1: Internal DSP	0: Bypass
Array 8						10	-43.0°	1: Internal DSP	0: Bypass

1 Octave
1000 Hz
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www.lynxproaudio.com

Lynx Pro Audio S.L

Calle 1. Pol. Ind. Picassent
Picassent, Valencia
46220 SPAIN

Tel: +34 961 109 601
Mail: info@lynxproaudio.com
Web: www.lynxproaudio.com

