SOFTWARE GUIDE

Latest edition

Proudly designed, engineered and
manufactured in SPAIN

LYNX pro-audio

CULTURE OF SOUND

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.

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.

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.

Rainbow 3D

Rainbow 3D is a new acoustic simulation software in a 3D and dynamic environment. With a sophisticated design, Rainbow 3D stands out for its speed, being able to do a simulation in a few seconds. It has algorithms for beam steering and optimizing the listening area.

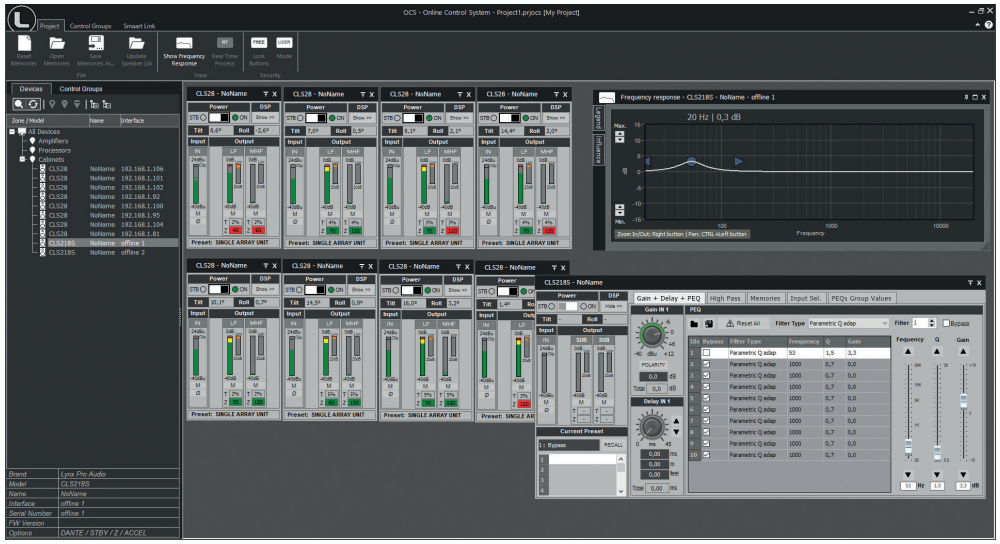
Thanks to this software you will be able to "virtually" determine the acoustical response of one or various cabinets at the same time.

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 Smaart(R) measurement system. T**hrough our Smaart Link we can connect to any of Smaart(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?

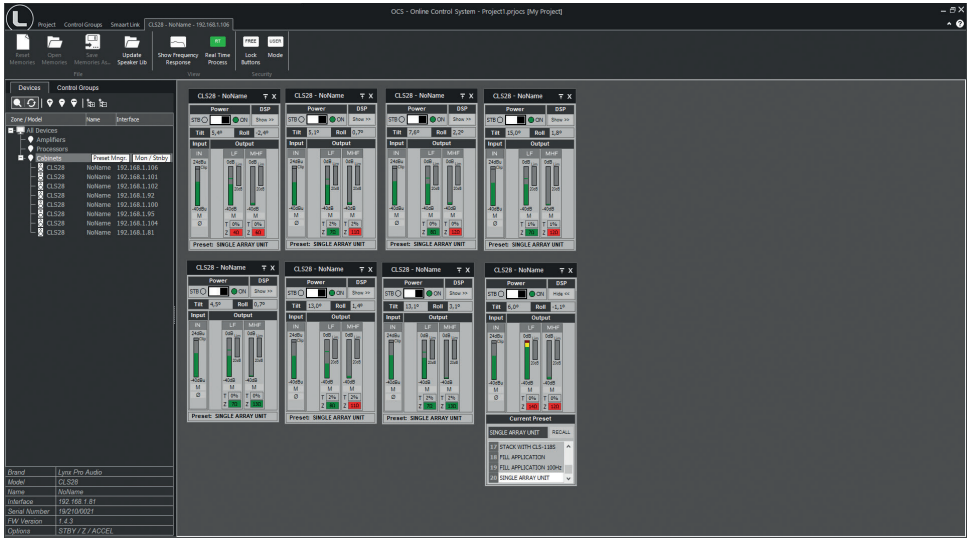
Obtain detailed information of cabinet behaviour and monitor the cabinet/s in real time through the users PC so you can control online a single cabinet or a complete cabinet system from the OCS window. You can apply a Parametric EQ with 6 filters totally configurable, insert a delay up to 90 ms, change 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.



ARK Software

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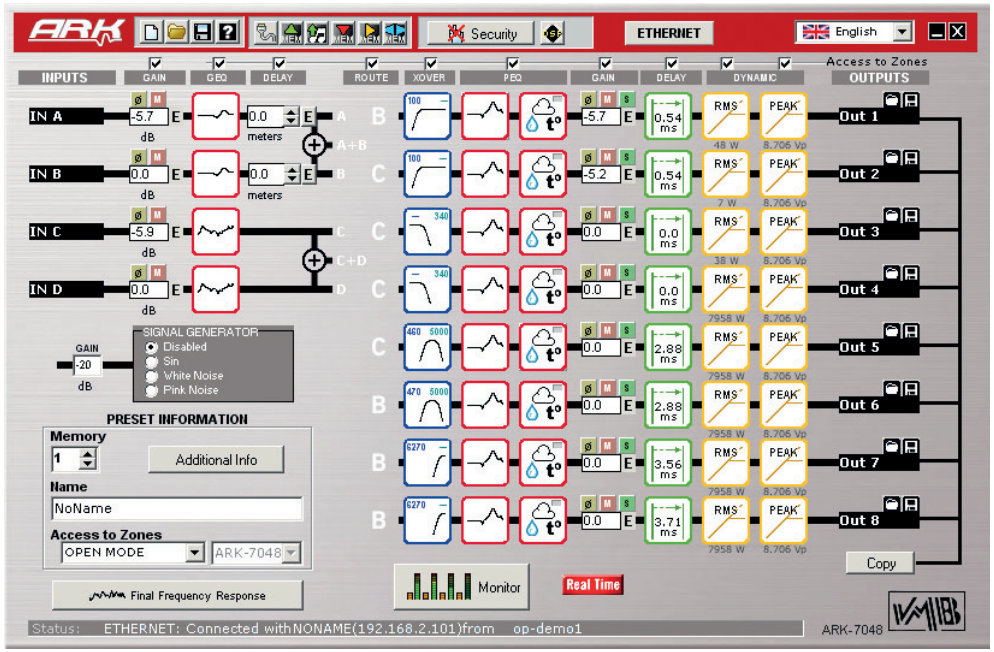
The ARK software has been completely designed at the Lynx Pro Audio laboratory by our own engineers. It allows you to configure every one of the parameters in the processor, being in “Real Time” or “Offline”, storing them in the processor via the USB interface or ETHERNET.

Upon entering in the ARK software, the main screen appears, which represents exactly the internal structure of processing. Here we can see the path that runs the audio signal from the inputs to the outputs in a very easy visual way, showing the different blocks and order of the signal flow. From this main screen you can directly access all settings.



Cabinet Updater

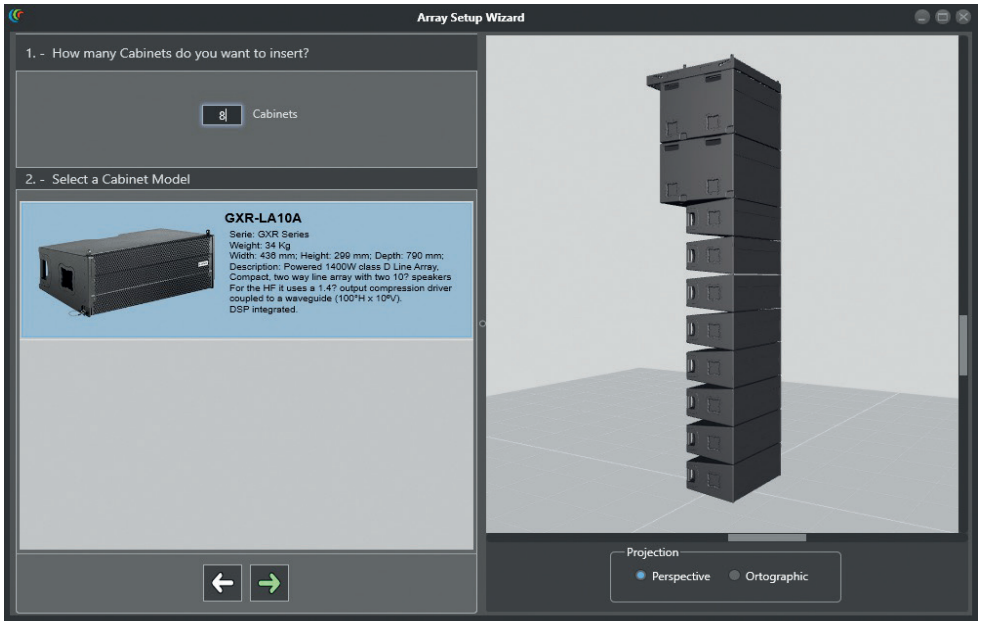
It updates the presets of your powered cabinets. Just connect the cabinet by USB to your PC.

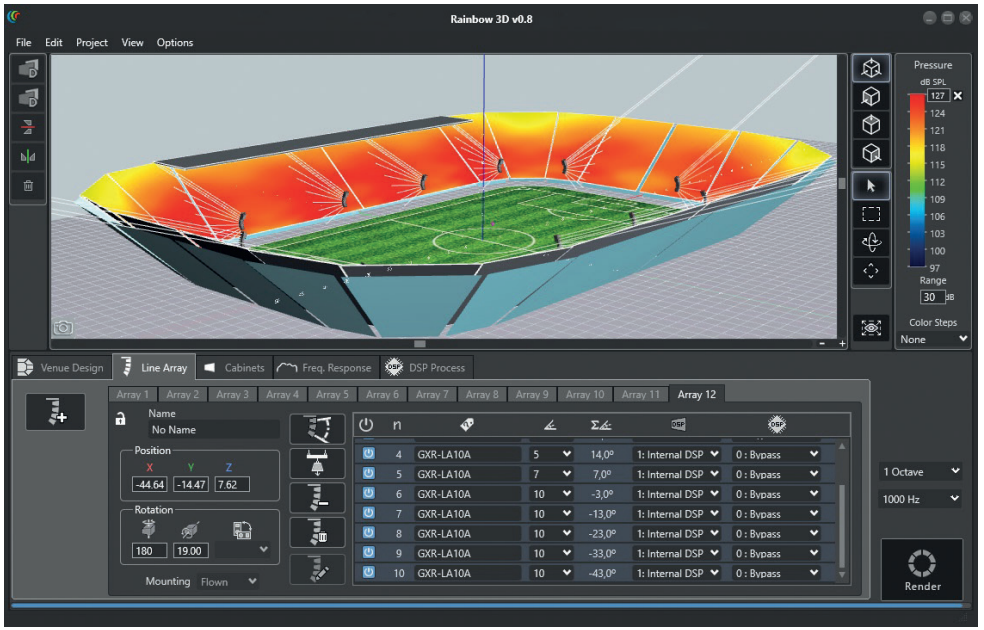
This software will automatically detect your cabinet hardware and update the presets to the latest and optimum configuration available.

Rainbow 3D Acoustical Prediction Software

Lynx Pro Audio's R&D department is working on **Rainbow 3D, a new acoustic simulation software with dynamic 3D features**. With a sophisticated design, Rainbow 3D stands out for its speed, being able to provide a simulation in just a few seconds. It also provides algorithms for beam steering and optimizing the listening area.

Being a technology that has been developed in-house by our own engineers, we are able to adapt to the needs of our clients, make improvements when necessary and develop new tools. Rainbow 3D is a project that is constantly growing and which delivers endless possibilities.





- Designed from scratch by professionals

Rainbow 3D has been programmed from scratch by Lynx Pro Audio engineers, using new programming procedures that achieve an effective simulation with really low calculation time.

The program can simulate all Lynx Pro Audio's acoustic enclosures located in a 3D space, including the classic side, top and front views. It can also **define multiple listening zones and includes an unlimited number of sound sources,** allowing simulation for all systems: subwoofers, arrays, columns and individual boxes.

You can also import blueprint images, textures and png format pictures.

• Multiple listening zones

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.**

• 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 boxes) as you desire.** Also, the line arrays can be placed in stack or flown configuration.

• Beam Steering

Rainbow 3D has the ability to add DSP processing to the simulation and uses algorithms to control the directivity (beam steering) in columns, **without the need to tilt them physically,** being able to divide the column into several beams that point to different zones.

• Accurate optimization thanks to FIR filters

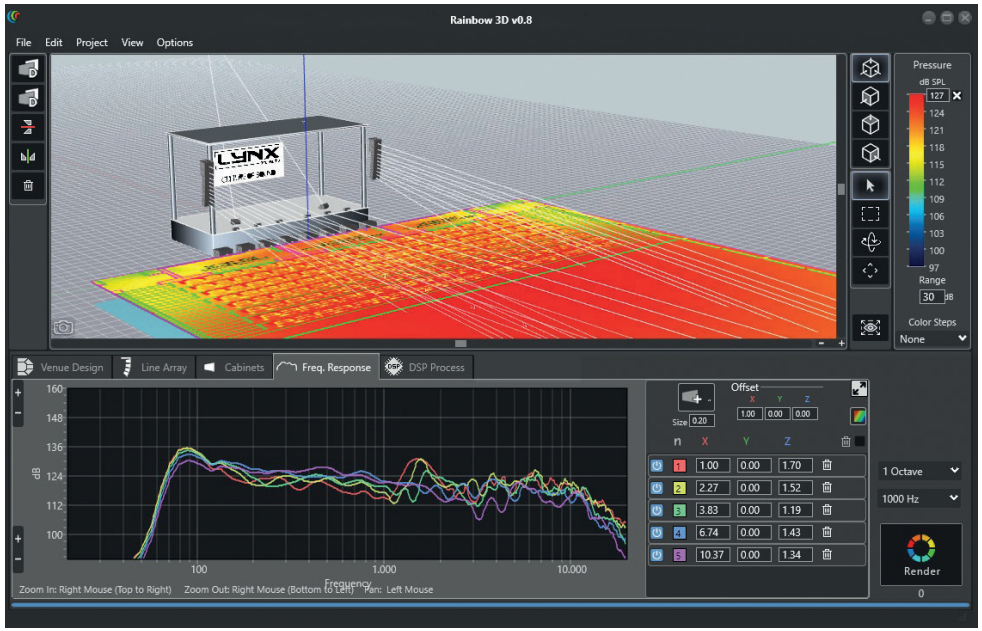
Optimized algorithms are used in the listening area to improve the sound coverage and the frequency response. **This feature can be executed in a matter of seconds.**

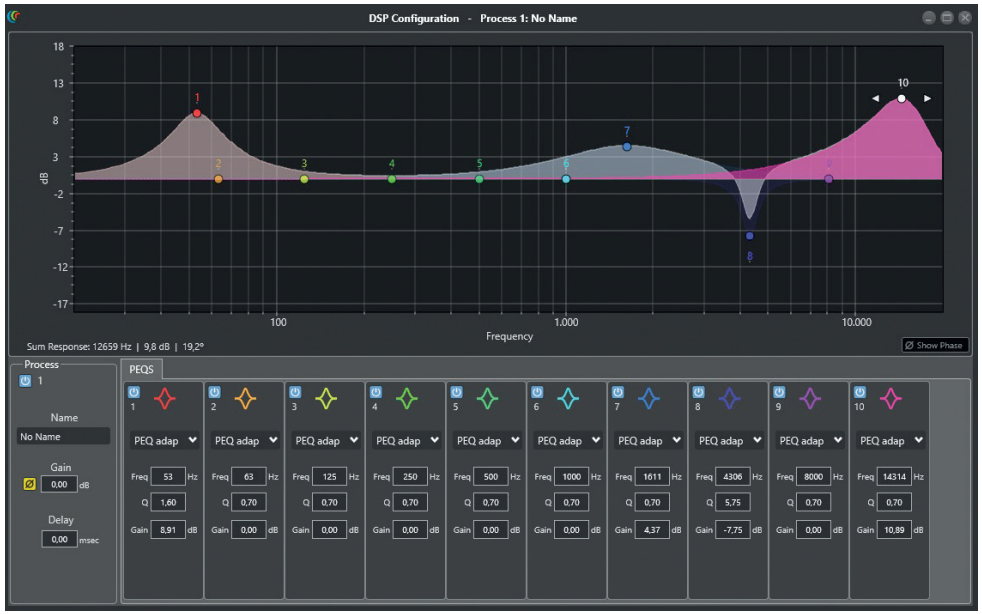
Additionally, the export of FIR coefficients can be performed with the optimization for later loading in the DSP via Ethernet or a USB device. In the near future direct communication with Lynx Pro Audio will be available.

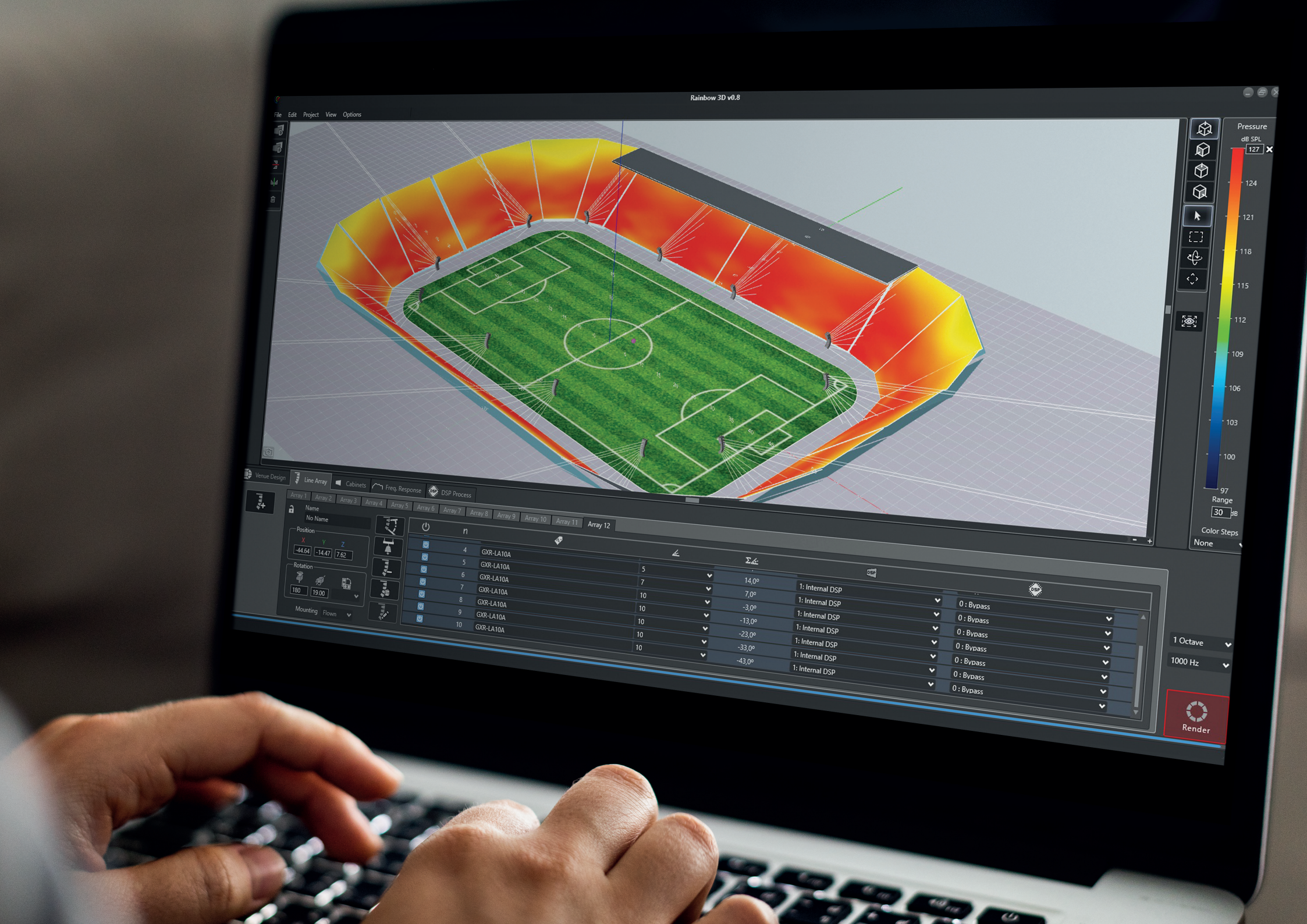
• Multiple measures and tools

Likewise, the R&D department is developing multiple measurement and analysis tools for the calculated data. For example, the **sound pressure curves (SPL) in the listening areas** and the capture of virtual measurements that show the frequency response in the points of location indicated and added.

Among other tools you will find autosplay and a wizard to set up different subwoofer arragements.






Rainbow 3D v0.8
File Edit Project View Options
Pressure
dB SPL
127
124
121
118
115
112
109
106
103
100
97
Range
30
dB
Color Steps
None
Venue Design
Line Array
Cabinets
Freq. Response
DSP Process
Array 1 Array 2 Array 3 Array 4 Array 5 Array 6 Array 7 Array 8 Array 9 Array 10 Array 11 Array 12
Name
No Name
Position
X Y Z
-44.64 -14.47 7.62
Rotation
180 19.00
Mounting Flown
4 GXR-LA10A
5 GXR-LA10A 5 14,0° 1: Internal DSP
6 GXR-LA10A 7 7,0° 1: Internal DSP 0 : Bypass
7 GXR-LA10A 10 -3,0° 1: Internal DSP 0 : Bypass
8 GXR-LA10A 10 -13,0° 1: Internal DSP 0 : Bypass
9 GXR-LA10A 10 -23,0° 1: Internal DSP 0 : Bypass
10 GXR-LA10A 10 -33,0° 1: Internal DSP 0 : Bypass
-43,0° 1: Internal DSP 0 : Bypass
1 Octave
1000 Hz
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