



# SRX900

POWERED SOLUTIONS



# SRX900

- New range of entry-level portable speakers
- Includes line array and subwoofer products
- Composite and wooden enclosures
- Three-point rigging
- Built-in amplification and DSP
- Next-gen software support
- Complete solution with a full-range of accessories
- Engineered for best-in-class performance



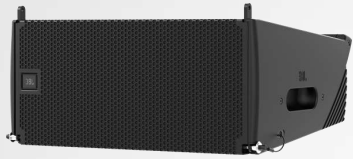
## Why use the SRX name?

- SRX is one of the strongest JBL 'brands'
- It has always been the entry into the PRO product range
- Requires no explanation for market and category positioning
- Eliminates any positioning confusion with VTX products
- Makes it clear that this is not a VRX replacement

## All SRX products developed on the same principles:

- Excellent value for money
- Best in class performance





## SRX906LA

- Dual 6.5-inch line array
- 2-way active
- Powered
- Coverage: 120° x 12°
- LF: (2) 6.5 in woofers
- HF: (1) 3 in compression driver
- 63 Hz – 17 kHz
- 134 dB SPLmax
- 880W
- 16.8 kg (37 lbs)

## SRX910LA

- Dual 10-inch line array
- 2-way active
- Powered
- Coverage: 105° x 12°
- LF: (2) 10 in woofers
- HF: (1) 3 in compression driver
- 53 Hz – 19 kHz
- 135 dB SPLmax
- 880W
- 26.7 kg (59 lbs)

## SRX918S

- Single 18-inch
- Subwoofer
- Powered
- Coverage: omni or cardioid
- SUB: (1) 18 in woofers
- 35 Hz – 90 Hz
- 134 dB SPLmax
- 2500W
- 44.5 kg (98 lbs)

## SRX928S

- Dual 18-inch
- Subwoofer
- Powered
- Coverage: omni or cardioid
- SUB: (2) 18 in woofers
- 31 Hz – 100 Hz
- 140 dB SPLmax
- 2500W
- 70.3 kg (155 lbs)

# SRX900



- Scalable configurations
- Pole mounted, ground stacked, suspended



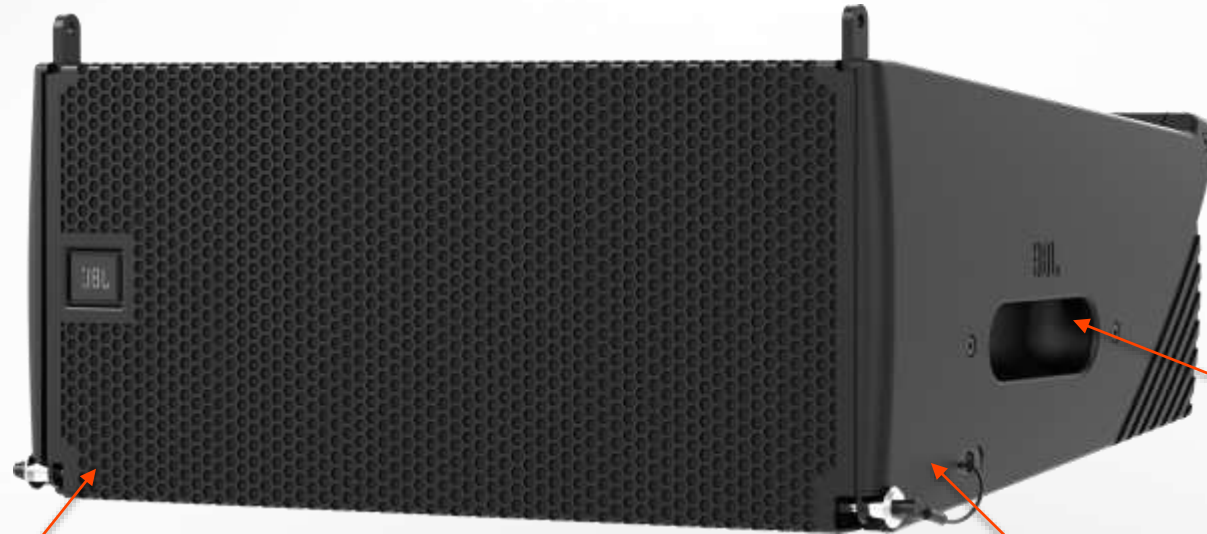


# PRODUCT OVERVIEW

JBL

# SRX900

Product Overview



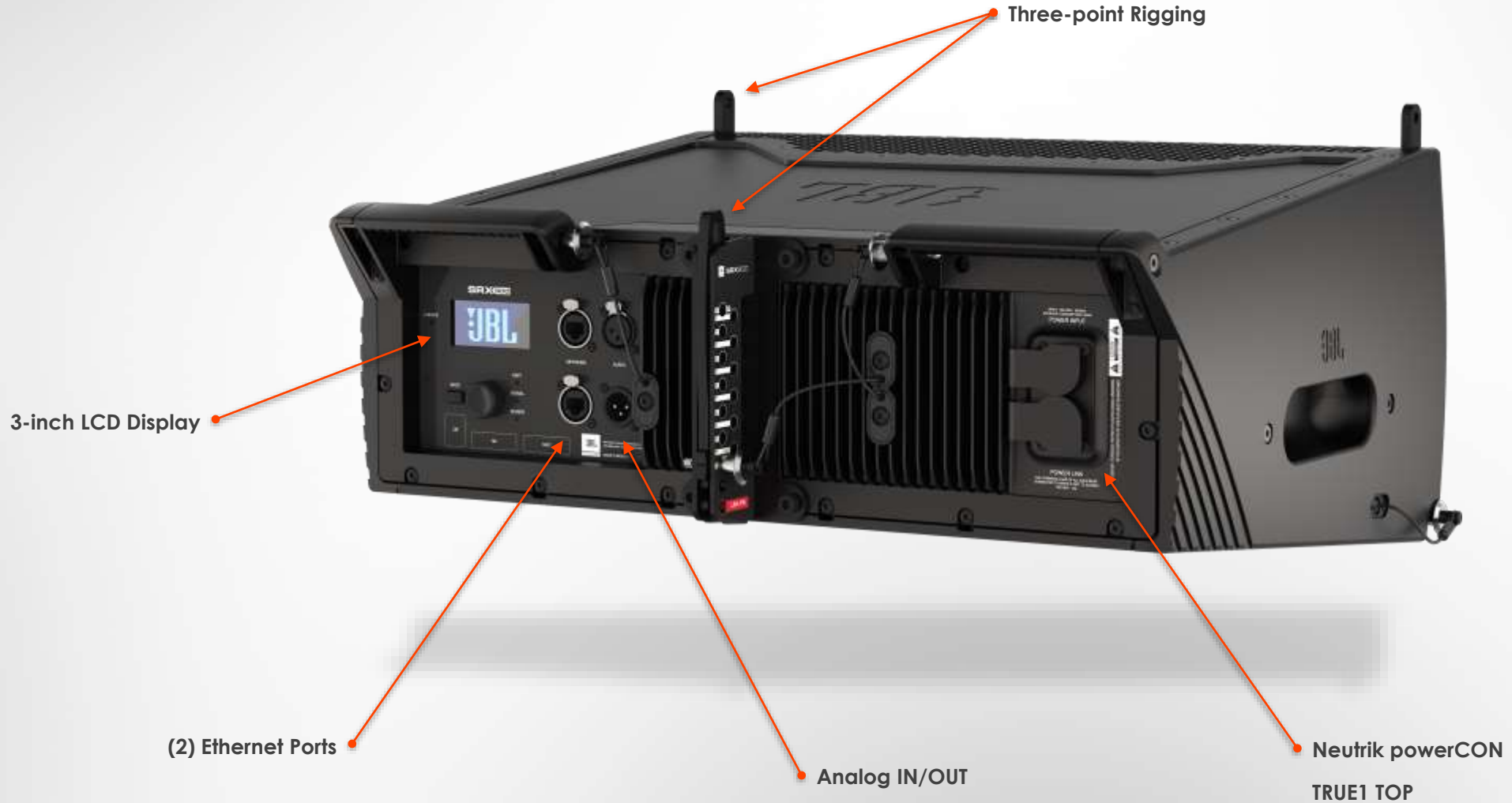
Full-face grill

Integrated handles

Rigging cover panels

# SRX900

Product Overview





# SRX900

Product Overview

## AMPLIFIER

- Class-D design
- Convection cooling
- Real-time transducer monitoring
- Low power modes
- Auto standby functionality
- IP54 rated (with optional Rain Cover)
- Extremely power efficient



# SRX900

Product Overview



## LCD Functionality

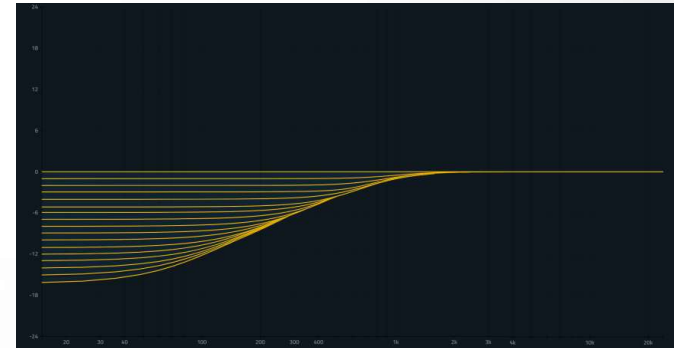
- Gain / delay
- Speaker presets
- Network settings
- Basic DSP options
- Factory reset



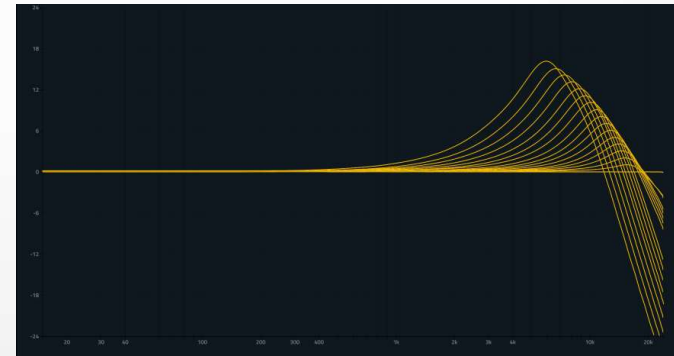
### Digital Signal Processing

- High-end AD/DA converters
- High dynamic range (very low noise floor)
- 2000 ms of delay
- (30) User adjustable IIR filters
- LevelMAX limiters for system protection
- Array Size Compensation filter
- FIR Based distance compensation filters

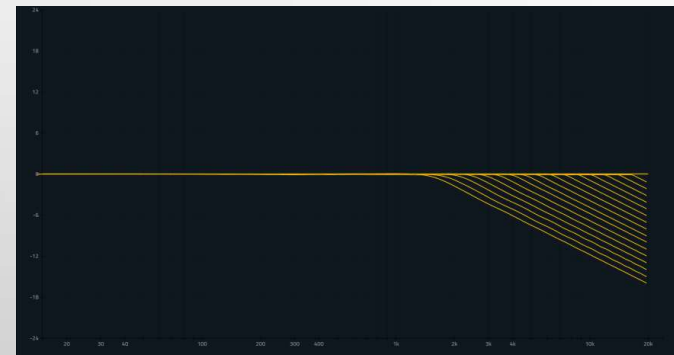
Array Size Compensation Filter



Throw Distance Compensation (FIR)



Proximity Correction (FIR)

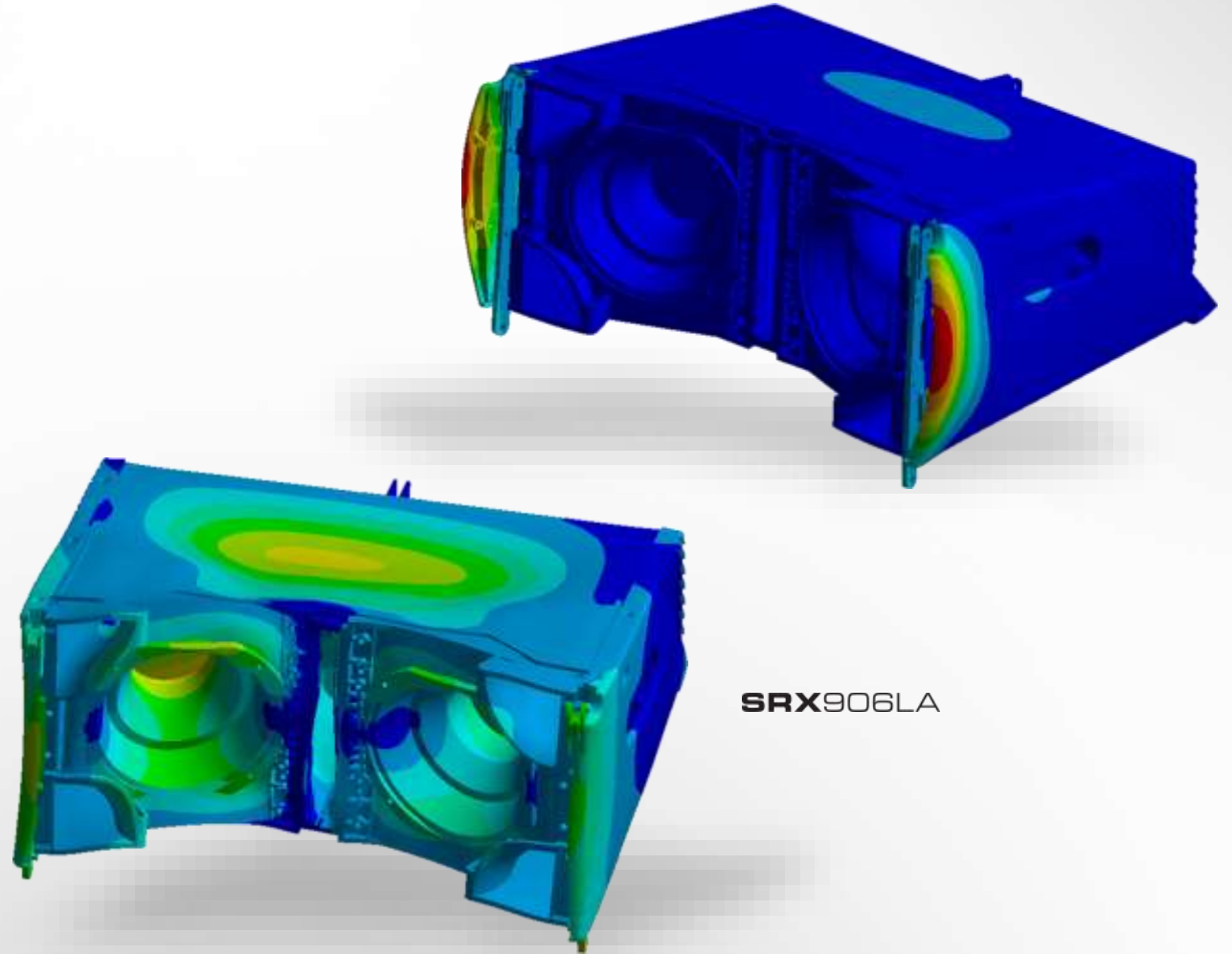




INSIDE THE INNOVATION

## Composite Enclosures

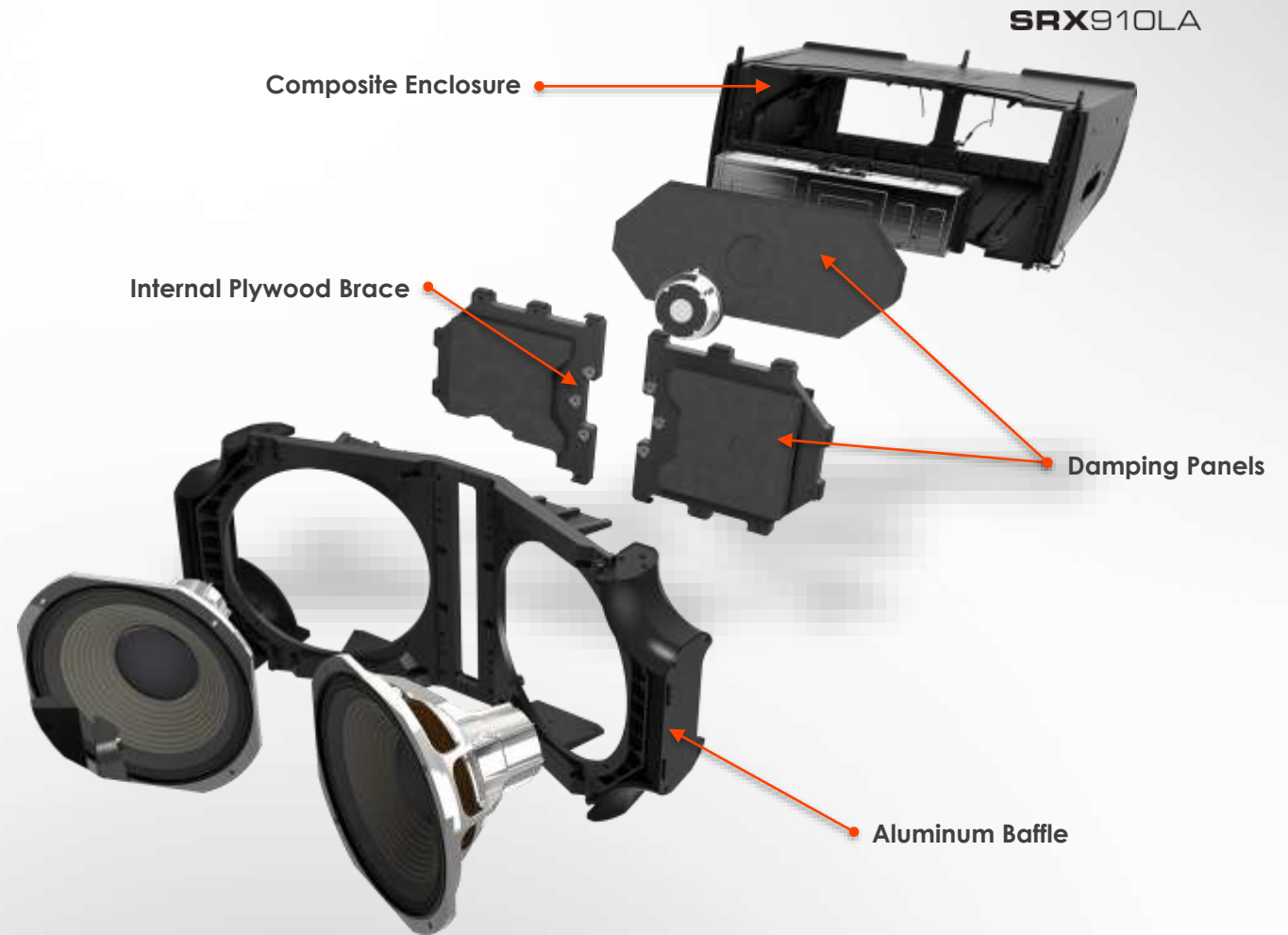
- Light-weight
- Durable
- Cost-effective
- FEA optimized
- Designed for performance



SRX906LA

## Enclosure Composition

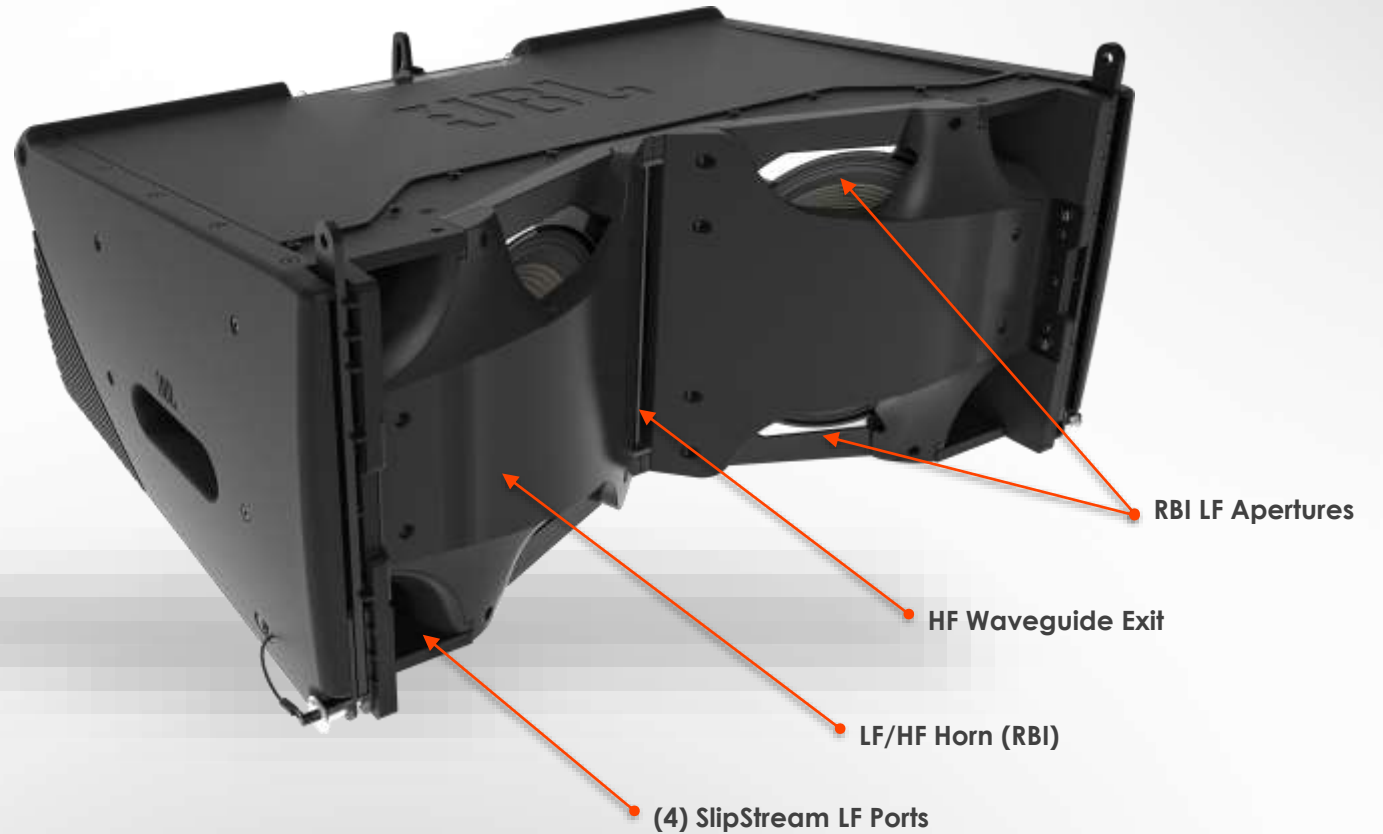
- Internal stiffeners control enclosure flex (SRX906LA)
- Internal plywood braces add rigidity (SRX910LA)
- Front aluminum baffle adds strength (SRX910LA)
- Multiple acoustic sound damping panels



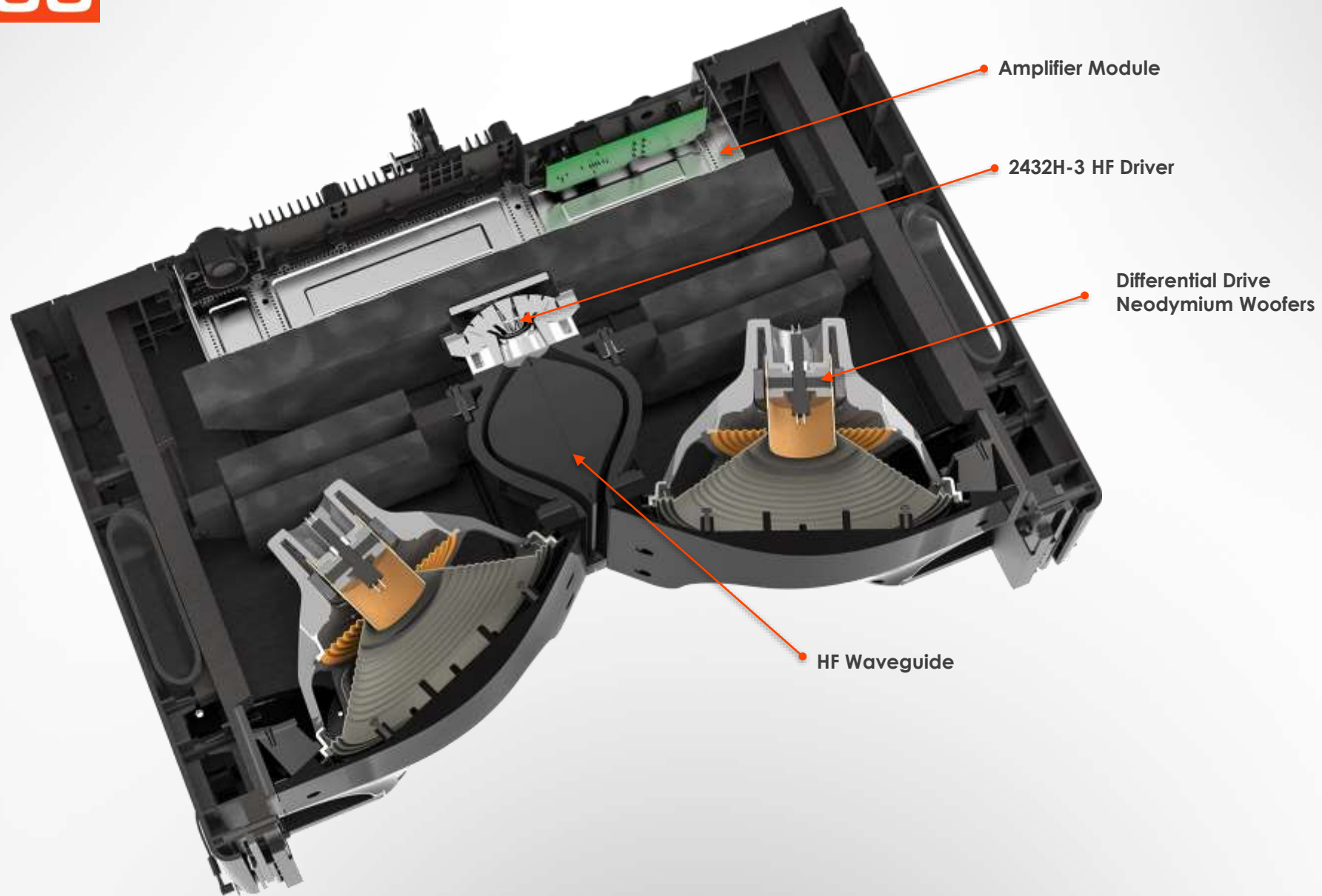
# SRX900

## Acoustic Design

- 2-way, active
- Symmetric transducer layout
- (2) LF woofers + (1) HF driver
- (4) Large SlipStream LF ports
- Radiation Boundary Integrator (RBI)



# SRX 900

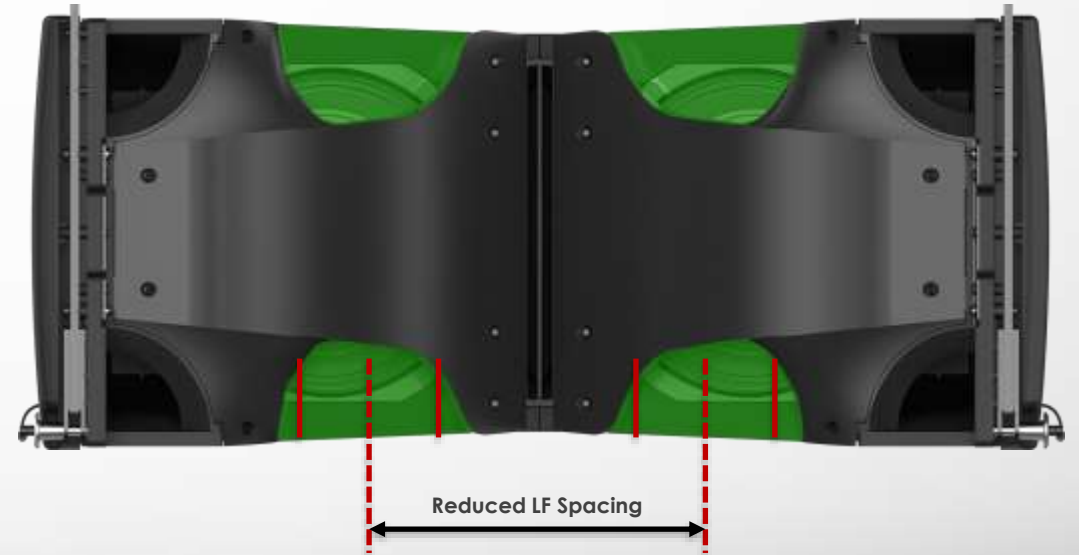


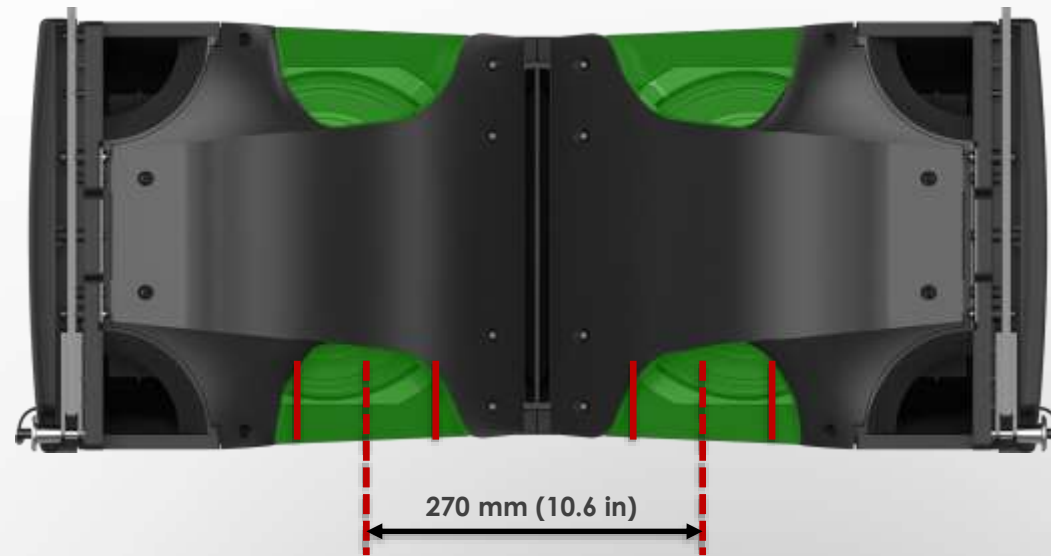
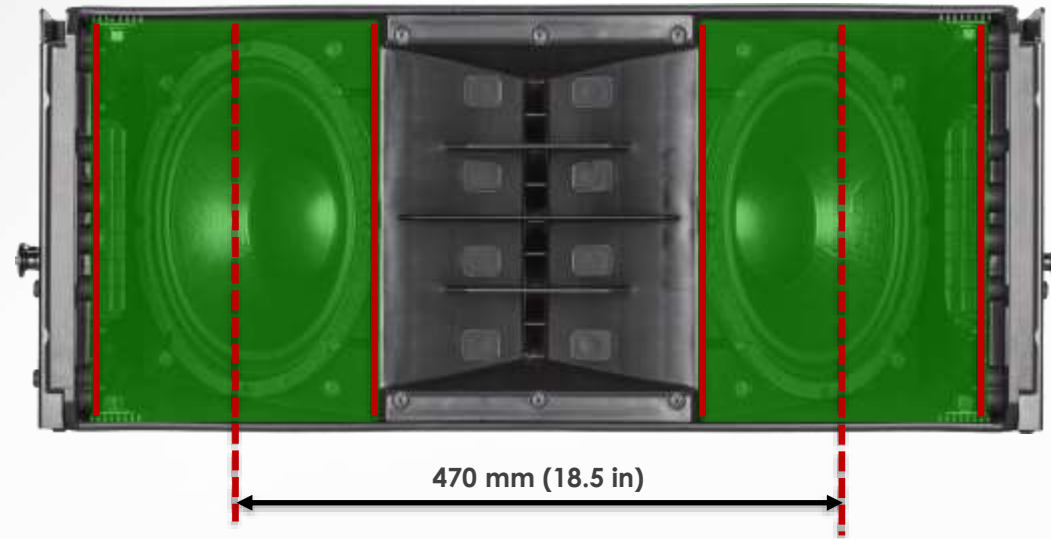


## RBI Technology

- Combines LF and HF drivers onto a single horn
- Improves directivity by controlling woofer spacing
- Reduces overall cabinet size
- Allows for a larger HF horn

## SRX910LA

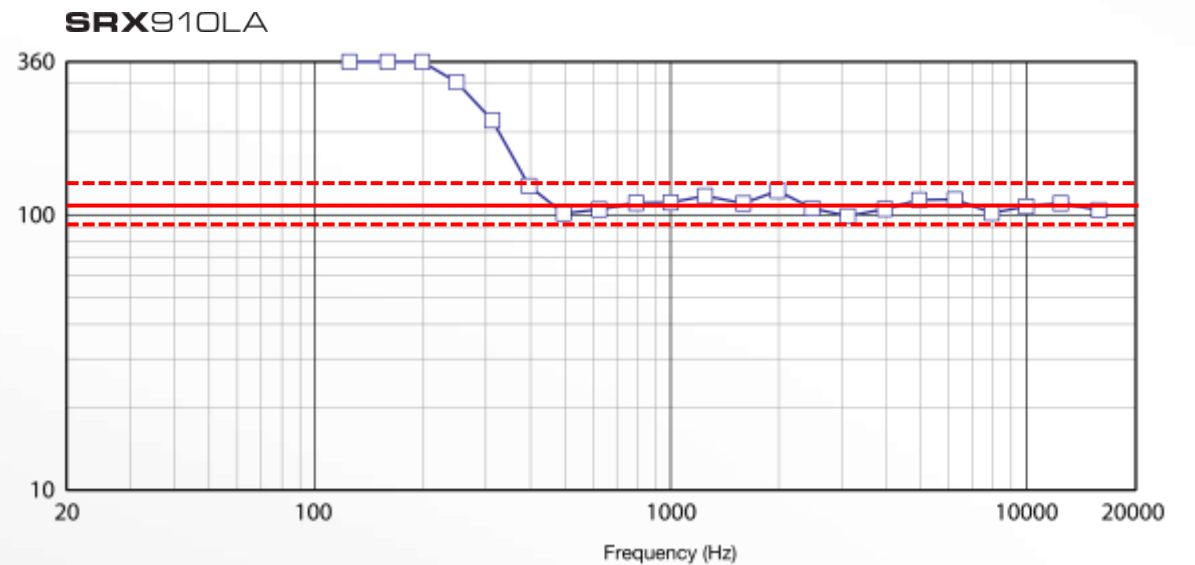
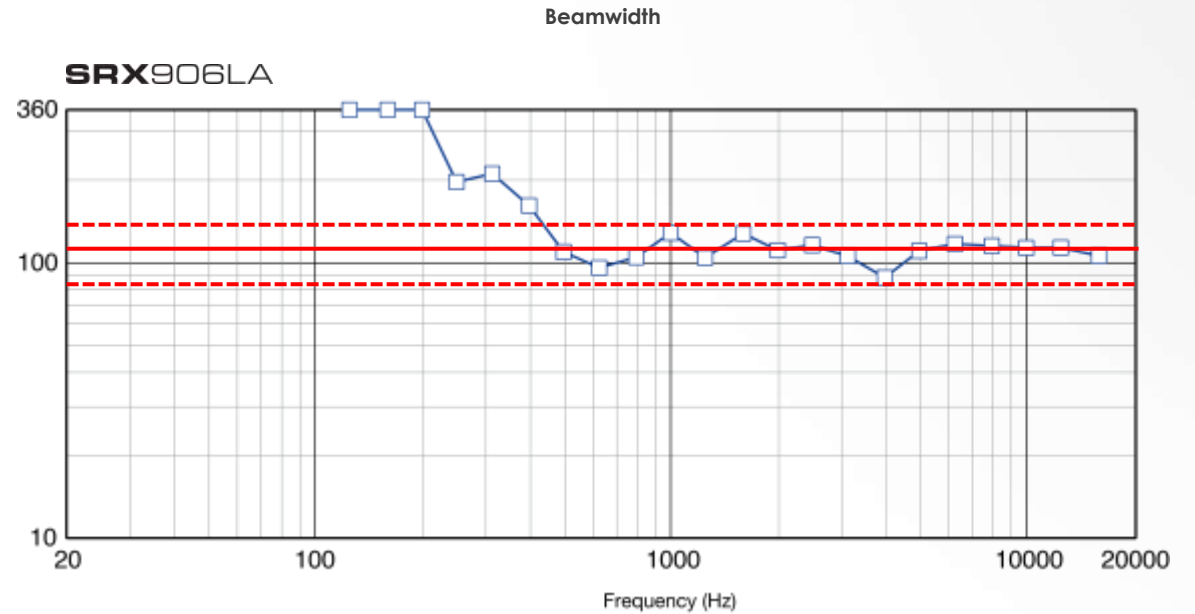




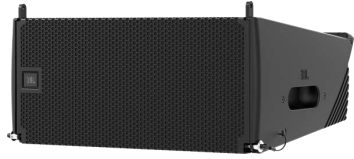
**SRX910LA**

## Acoustic Performance

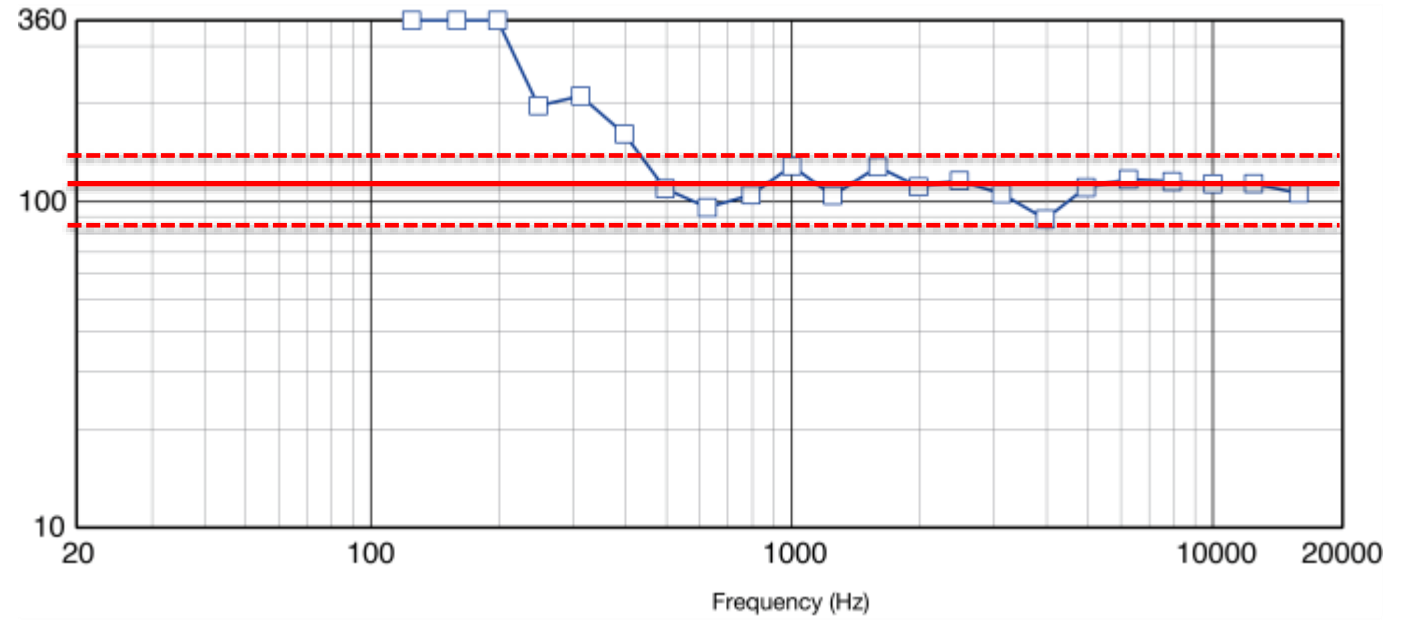
- Excellent horizontal directivity
- Control down to 450 Hz
- Best-in-class SPL
- Superior dynamic range
- Extended frequency response



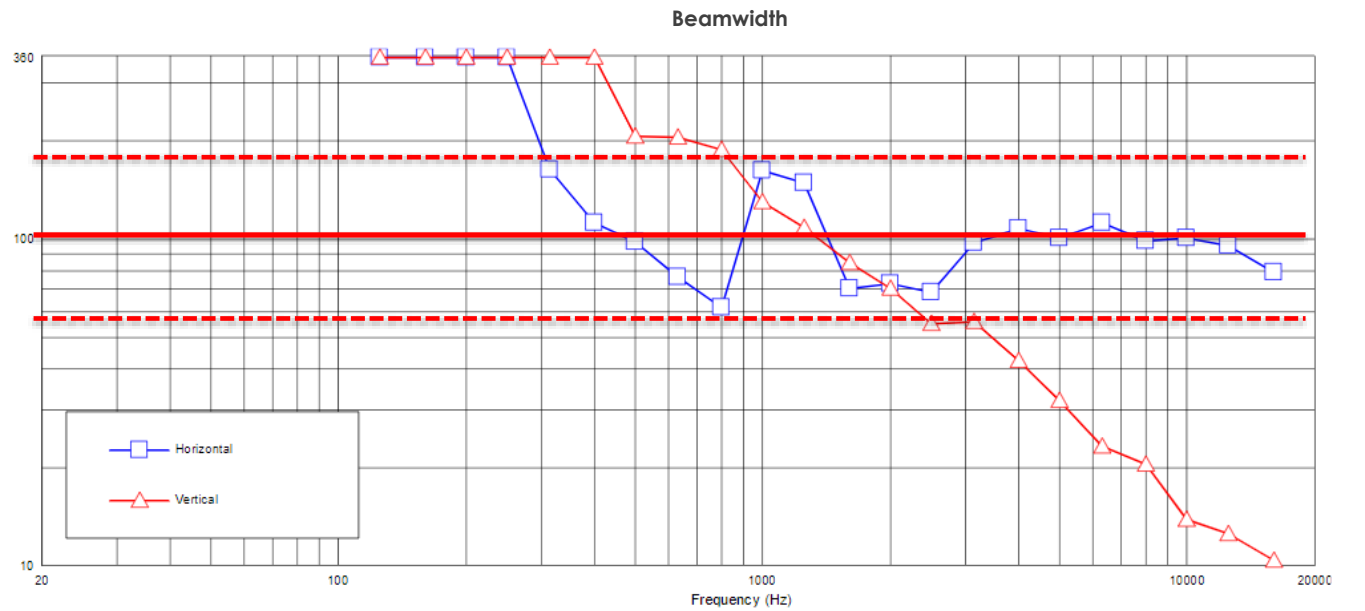
# SRX906LA



Dual 6.5-inch Line Array | Powered | 2-way



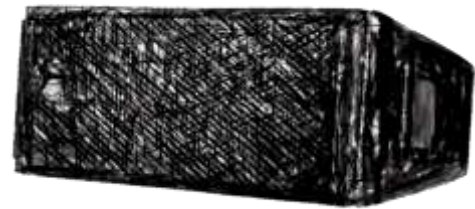
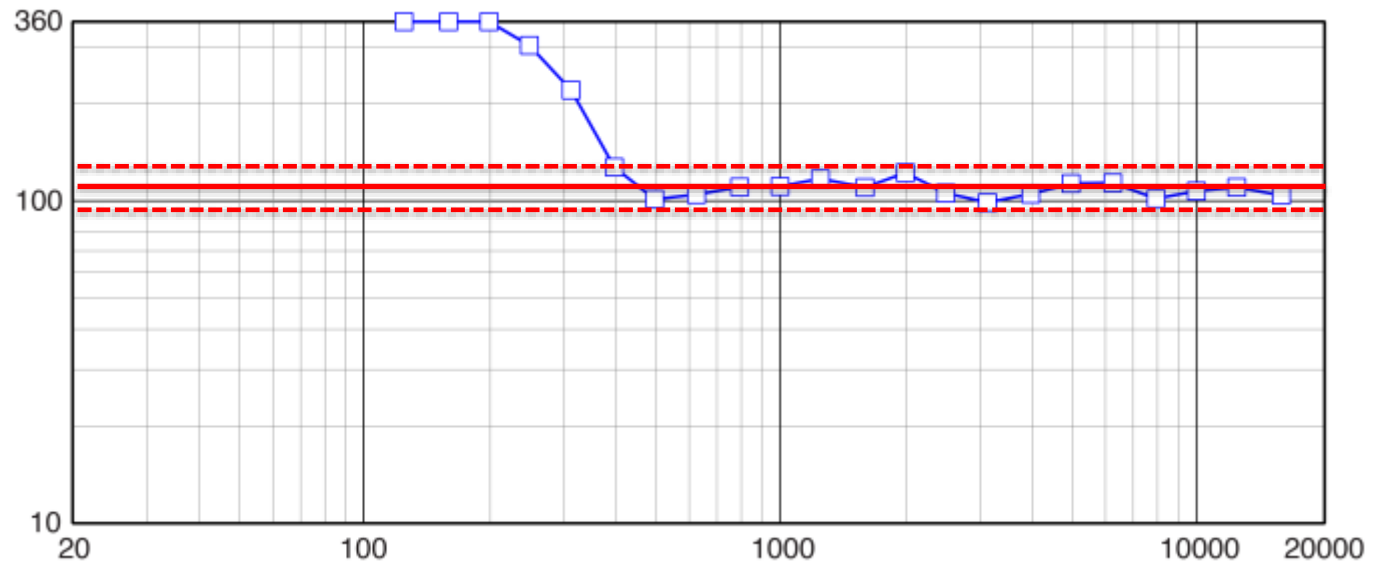
Dual 6.5-inch Line Array | Powered | 2-way



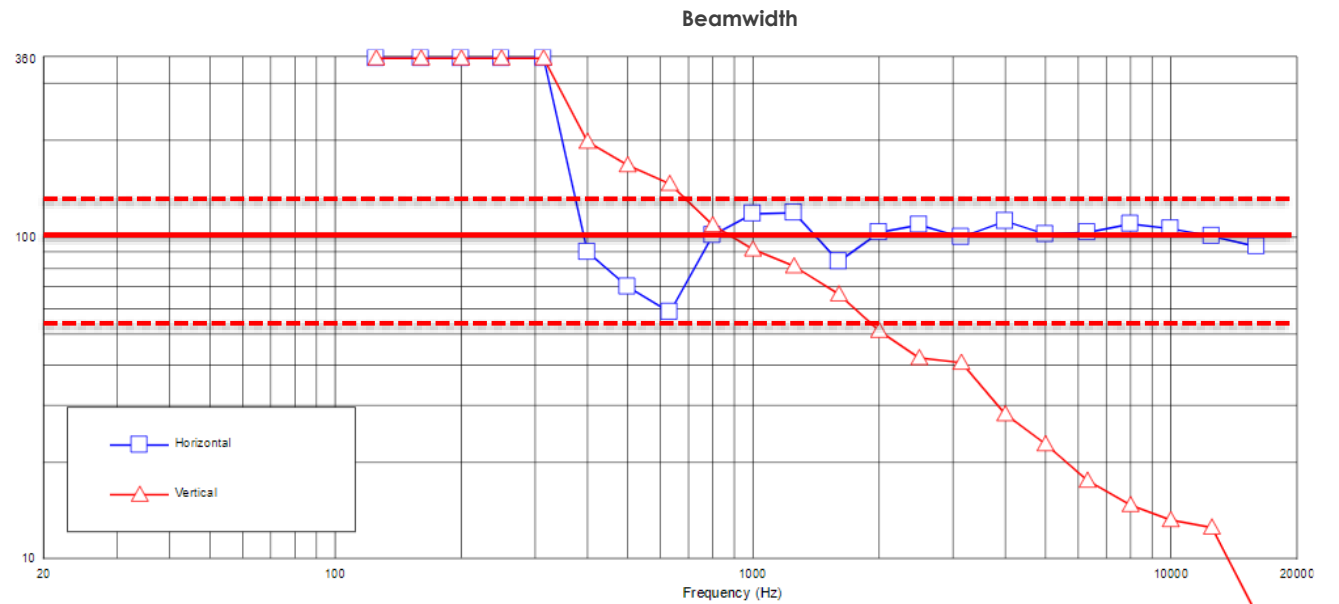
# SRX910LA

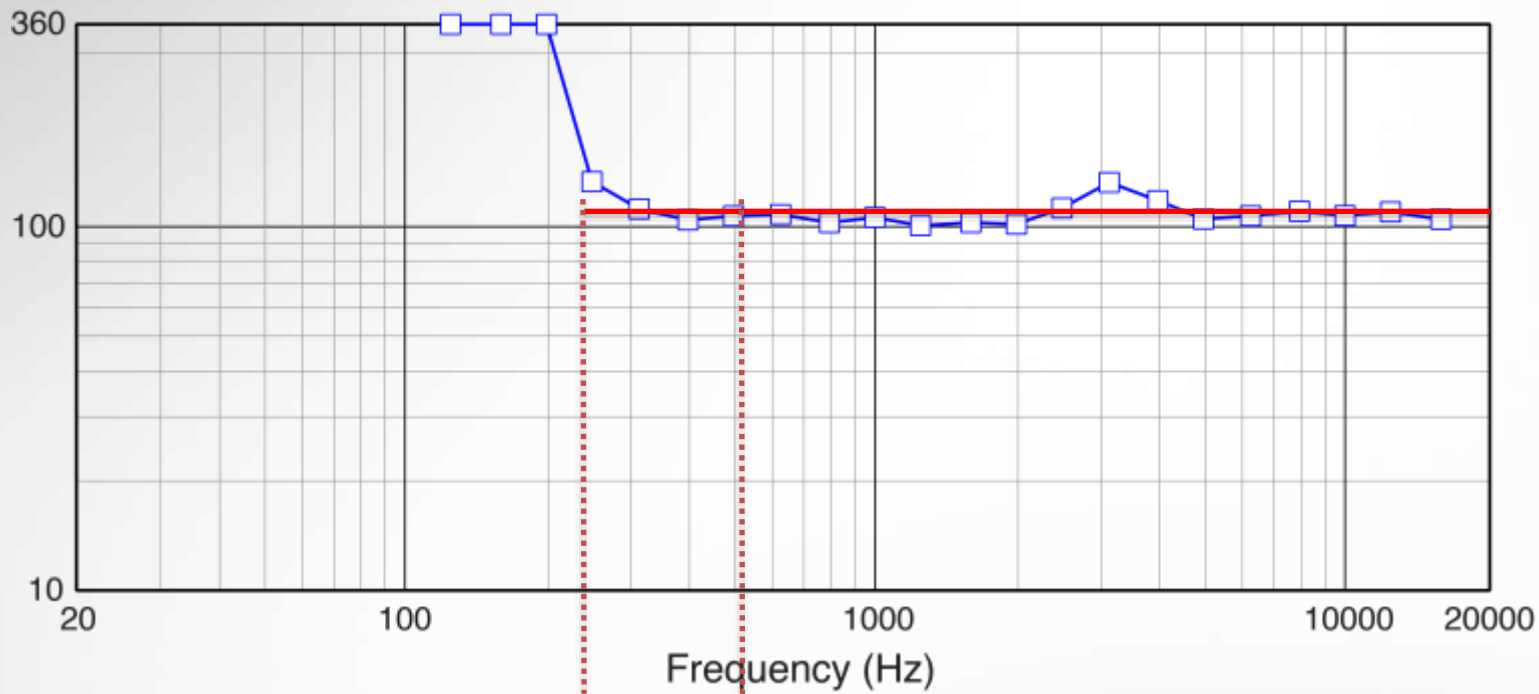


Dual 10-inch Line Array | Powered | 2-way



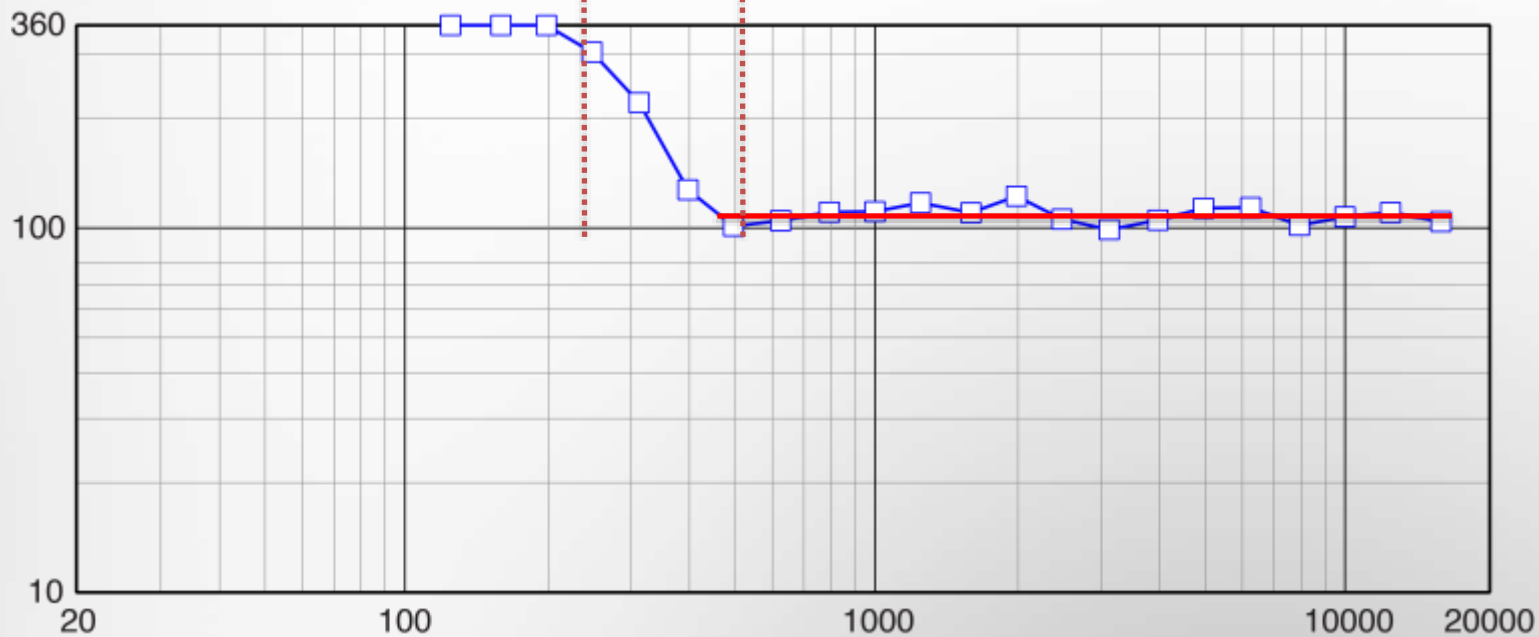
Dual 10-inch Line Array | Powered | 2-way





## **VTX A8**

Dual 8-inch 3-way  
 140dB max SPL  
 Control down to 230 Hz  
 Ultra-low distortion



## **SRX910LA**

Dual 10-inch Line Array | Powered | 2-way  
 135dB max SPL  
 Control down to 500 Hz  
 Class-leading low distortion

## Subwoofers

- Two available sizes, same acoustic design
- 18 mm plywood
- Differential Drive 18-inch woofers
- Support for cardioid configurations
- M20 plate for Ground Stacked arrays
- IP54 rated (with optional Rain Cover)



M10 Caster Kit



## Subwoofer Amplifier

- Similar amplifier design as 900LA
- Same connectivity
- Same DSP
- Higher power than 900LA
- Larger heat-sink design for additional cooling





## Subwoofers

- Large curved edge port designs
- Internally reinforced M20 bracket

## Woofers

- New 18-inch woofer 2279-1
- Differential Drive design
- Dual 3-inch voice-coils
- Ferrite magnet



# SRX800



- Active cooling with “open” amplifier design
- Single Ethernet port
- Single IEC connector for power
- Indoor use only

# SRX900



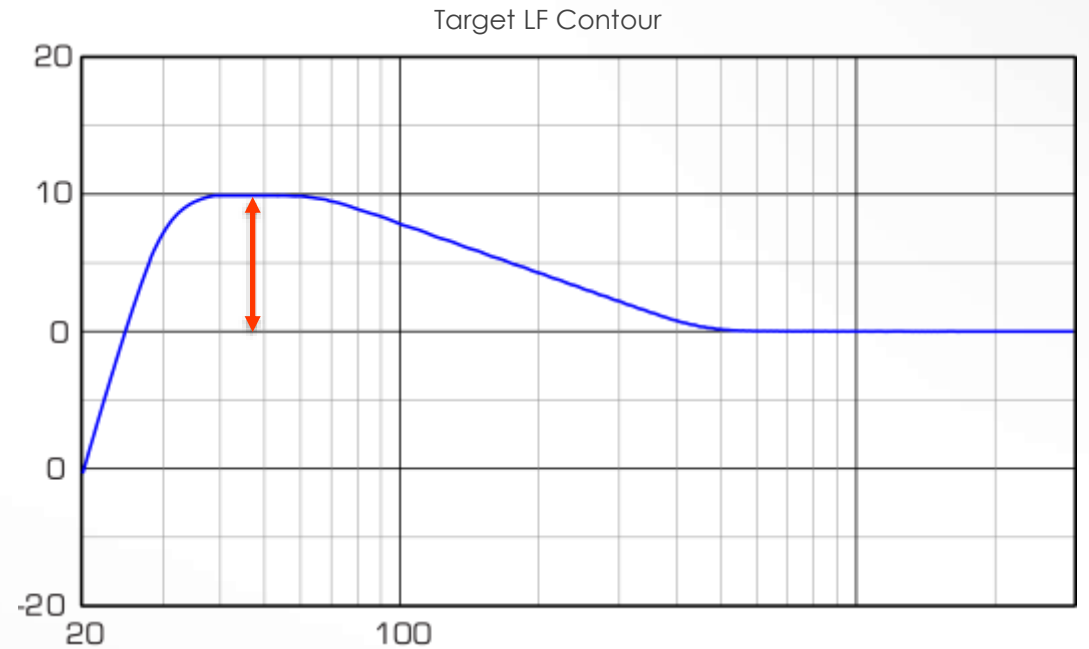
- Passive cooling with sealed electronics
- Dual etherCON ports for networking
- Dual Neutrik TRUE1 TOP powerCON connectors
- Design for outdoor use with SRX900 RC Rain Cover
- M20 mount with Internal steel plate for ground stacking
- Side feet for on-end configurations
- Hcontrol connectivity / Full DHCP support
- Double the DSP power over SRX800
- Improved port design
- NEW 2279-1 18 in woofers for improved performance
- Improved industrial design
- Improved packaging and accessories
- Performance and LAC software support
- Acoustically compatible with SRX900 and VTX products

## ■ Subwoofer Ratios (how many subs do I need?)

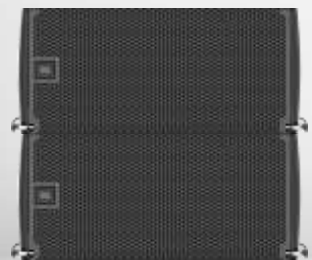
- Depends on the application
- Different styles of music require different ratios
- Budget, space, power

### Target:

- Create 6-10 dB LF contour
- Subwoofers and tops limit at the same time
- Practical system usage

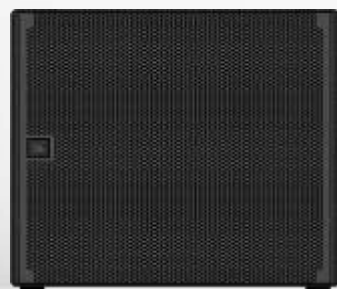
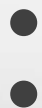


# SRX900



SRX906LA

2



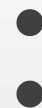
SRX918S

1



SRX906LA

4



SRX928S

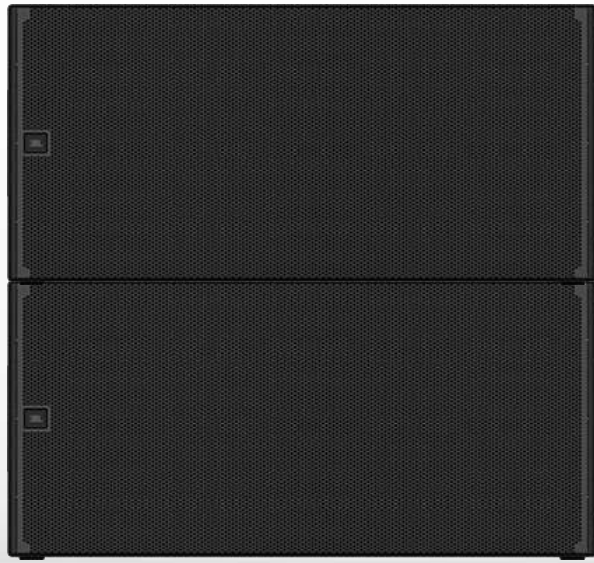
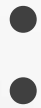
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# SRX900



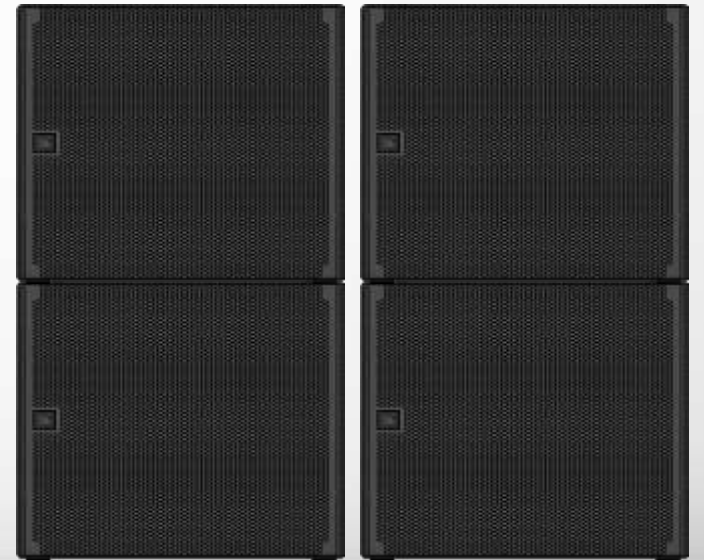
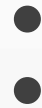
SRX910LA

3



SRX928S

2



SRX918S

4



# RIGGING & ACCESSORIES

# SRX900

Rigging System



## Rigging System

- Unique three-point rigging system
- Support for up to 16 cabinets\*
- Full resolution with 0.5 and 1-degree steps
- Same setup steps as VTX Series
- Angles can be set on the ground

**Angle Options:** 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12



# SRX900

## Accessories Overview



Array Frames



Base Plates



Pull Back



Rain Cover



Transport Carts/Cases



Covers



Caster Kits



Pole Mount



## Array Frames

- Light-weight T-Style frame
- Two-part design
- Support for up to 16 cabinets
- Laser brackets included



Spreader Bar

Extension Bar

# SRX900



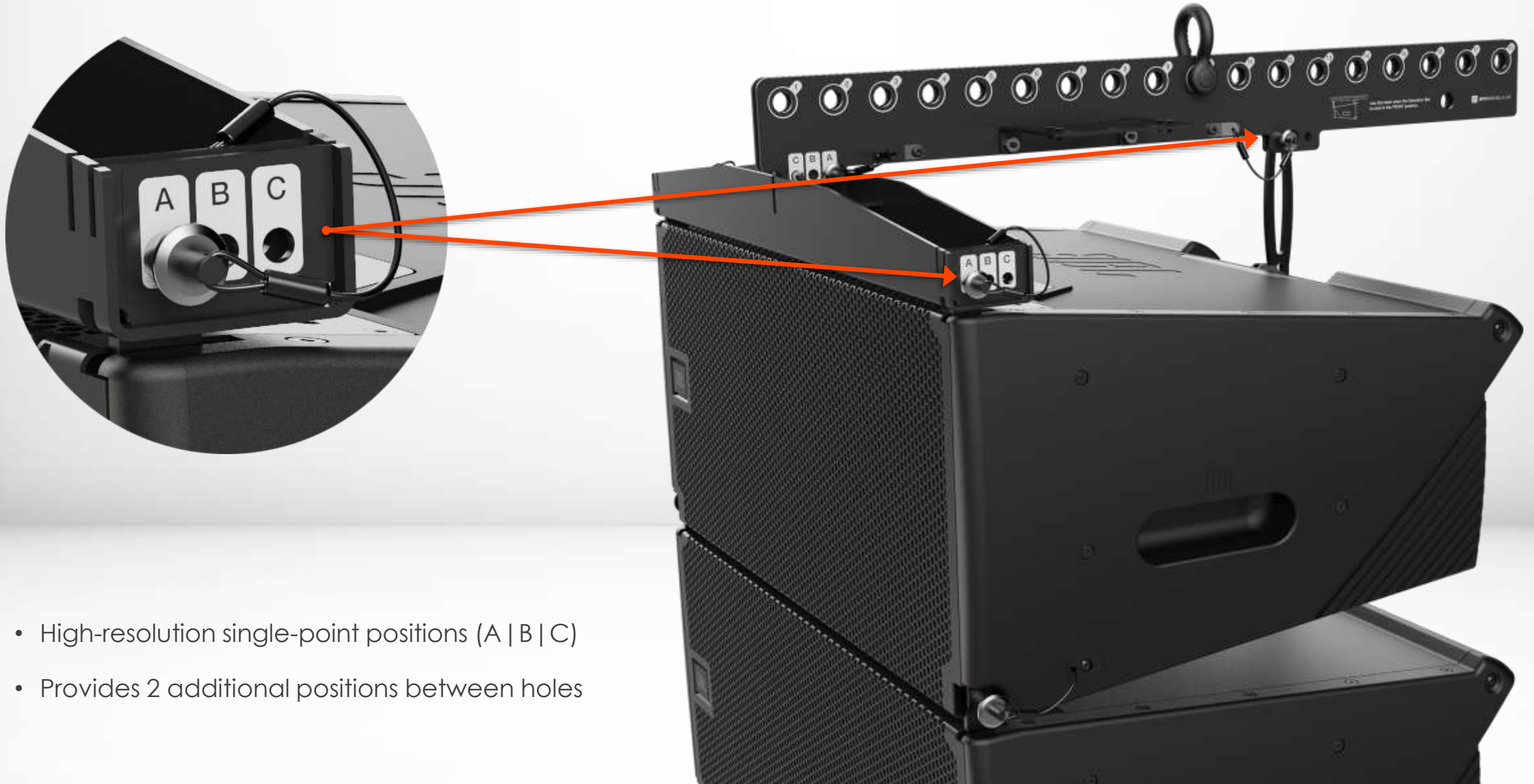
**SINGLE-POINT**



**REVERSED**

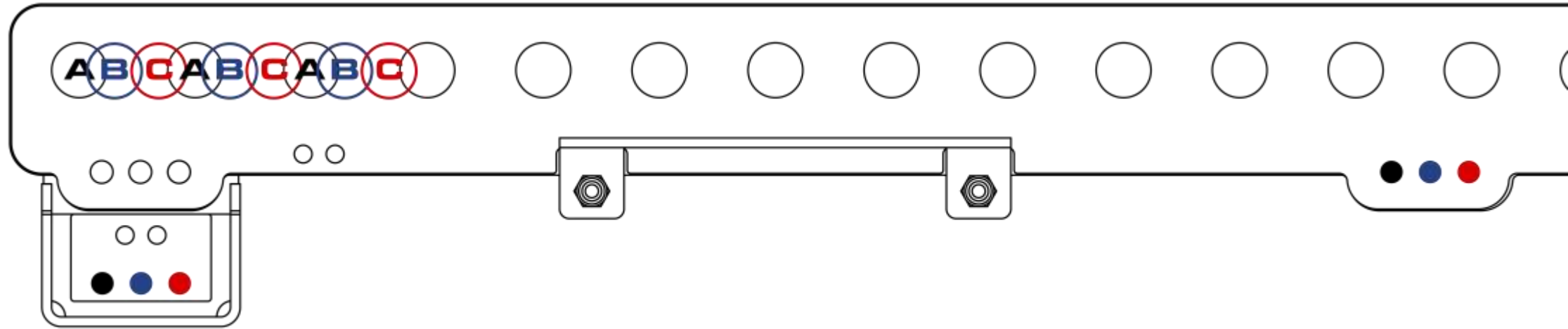
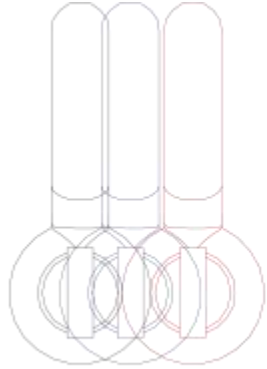


**FRONT-BACK**



- High-resolution single-point positions (A | B | C)
- Provides 2 additional positions between holes

# SRX 900



## 2 - MECHANICAL LIMITS

The SRX900 Series products and accessories comply with the 2006/42/EC Machinery Directive and have been designed following the guidelines of DGUV regulation 17 (BGV-C1) for a minimum safety factor of 4:1. Minimum safety factor requirements for suspended arrays are often set by local regulations. Use JBL Line Array Calculator 3 software to check mechanical limits and ensure compliance with local regulations. ANSI Standard E1.8 (Entertainment Technology Loudspeaker Enclosures Intended for Overhead Suspension), Section 5.3.4, specifies a minimum safety factor of 5:1. If compliance with the ANSI standard is needed, make sure that the array design produces a minimum safety factor of 5:1.

### 2.1 SUSPENDED ARRAY

ACCESSORY	NOTES	SAFE LIMIT	MAXIMUM LIMIT
SRX906LA AF	SRX906LA Array with Array Frame	(14)	(16)
SRX900LA PB	SRX900LA Pull Back accessory used with SRX906LA	(9)	(16)
SRX910LA AF	SRX910LA Array with Array Frame	(13)	(16)
SRX900LA PB	SRX900LA Pull Back accessory used with SRX910LA	(9)	(16)

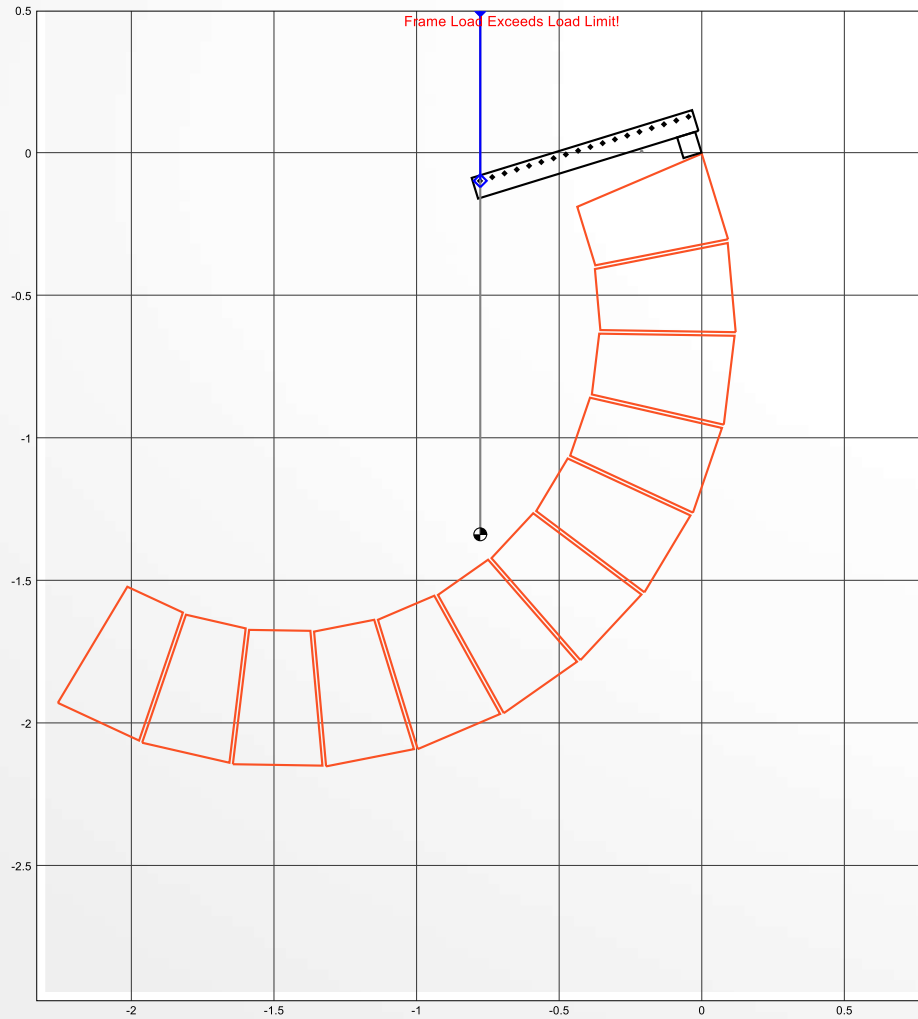
### 2.2 GROUND-STACKED ARRAYS

ACCESSORY	NOTES	SAFE LIMIT	MAXIMUM LIMIT
SRX906LA BP	Base Plate for ground stacking SRX906LA systems	(2)	(6)
SRX910LA BP	Base Plate for ground stacking SRX910LA systems	(2)	(4)

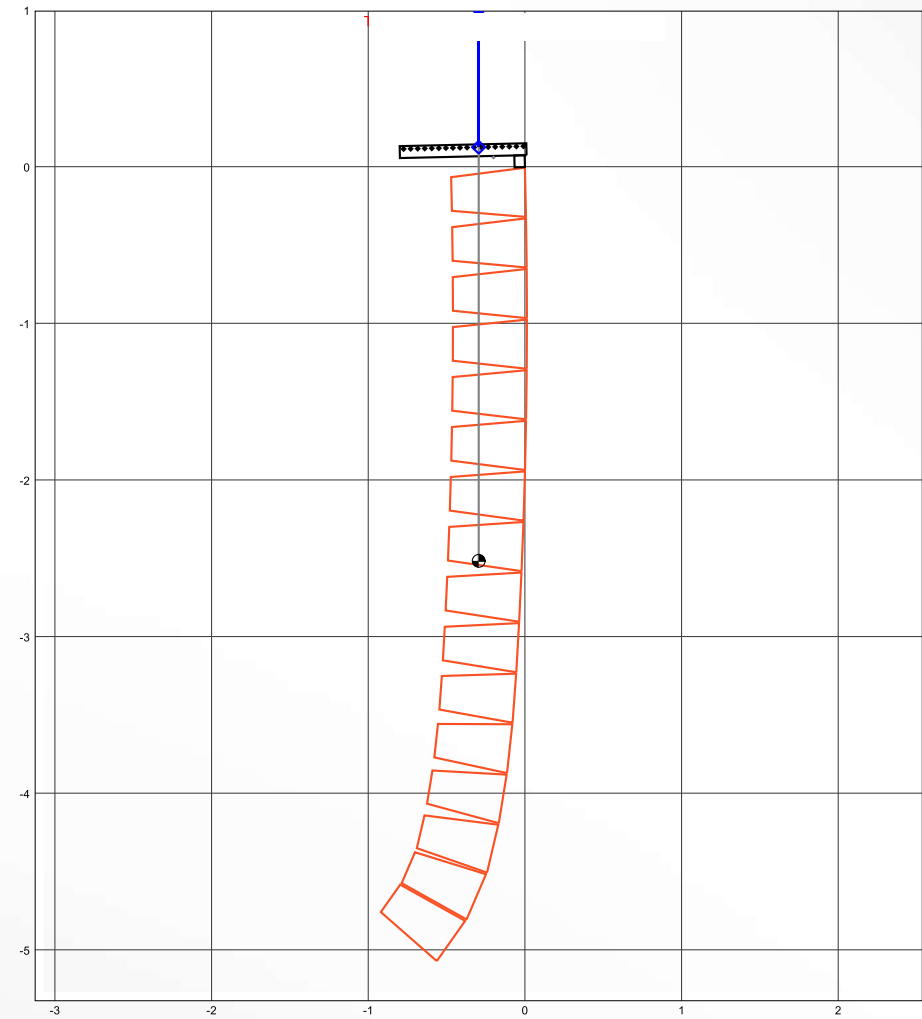
**Safe Limit:** The safe limit provides the number of cabinets that can be used in an array while maintaining a safety factor of 4:1 or higher. The safety factor of an array is determined by the number of cabinets, the array shape, and the overall array angle. An array constructed within the safe limit will always yield a safety factor greater than 4:1 regardless of array parameters and conditions. Ground-stacked arrays within the safe limit are stable under normal conditions. Designs exceeding the safe limit and up to the maximum limit, are possible, but the Line Array Calculator 3™ software should be used to check mechanical safety for the given configuration.

**Maximum Limit:** Arrays larger than the maximum limit are not allowable under any conditions.

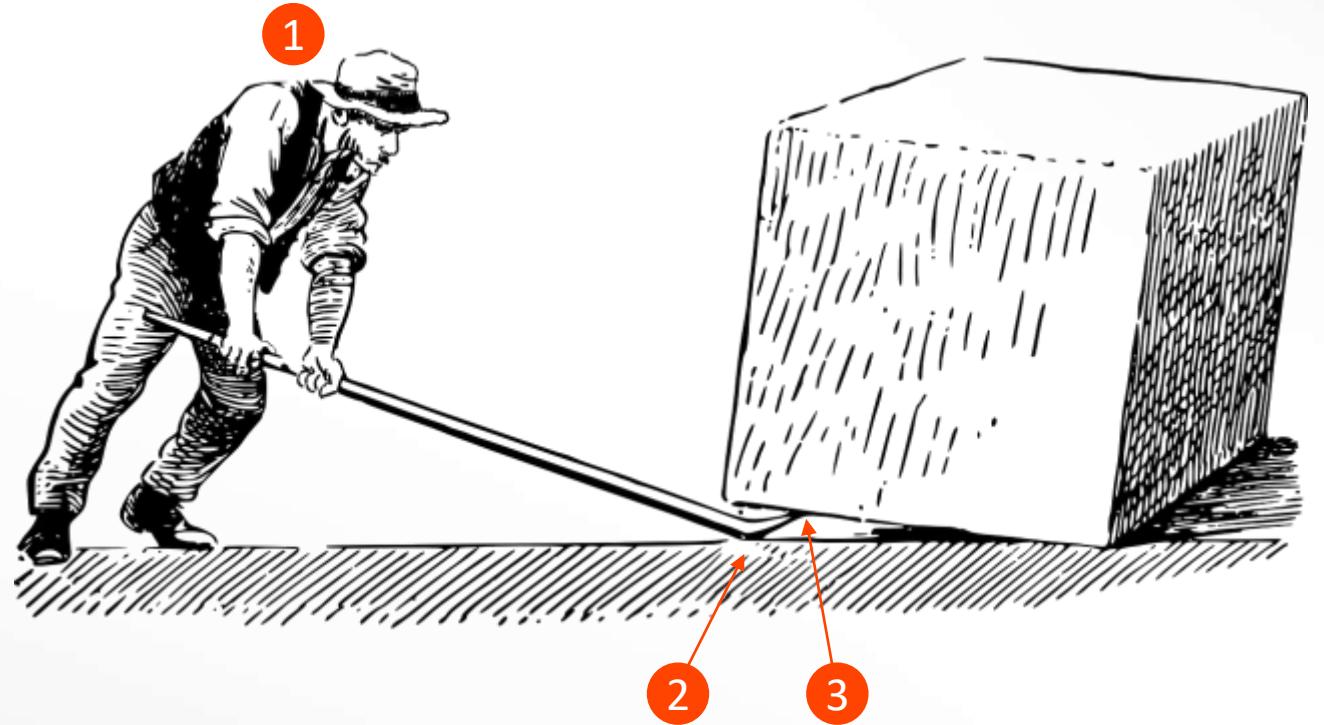
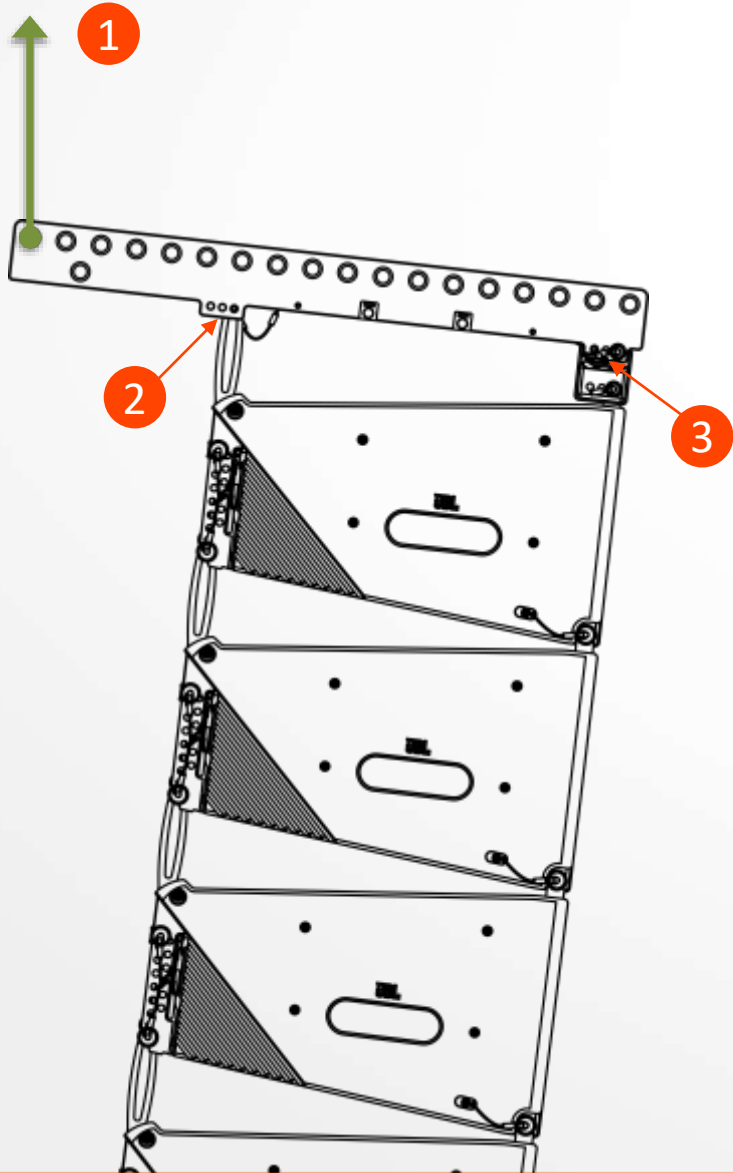
Safe Limit  
(12) SRX906LA



Maximum Limit  
(16) SRX906LA



# SRX 900



# SRX900LA PB

- Pull-back accessory
- Achieves down-angles not otherwise possible with AF alone
- Connects to the last speaker of an array
- Compatible with SRX906LA and SRX910LA
- Lightweight, inexpensive design





- Universal ground stack adapters for SRX900LA
- Connect to the subwoofer's M20 pole brackets
- Support for 4 – 6 cabinets depending on model
- Range: -15° to +5°
- Compatible with the VTX PM (SRX906LA BP)



SRX906LA

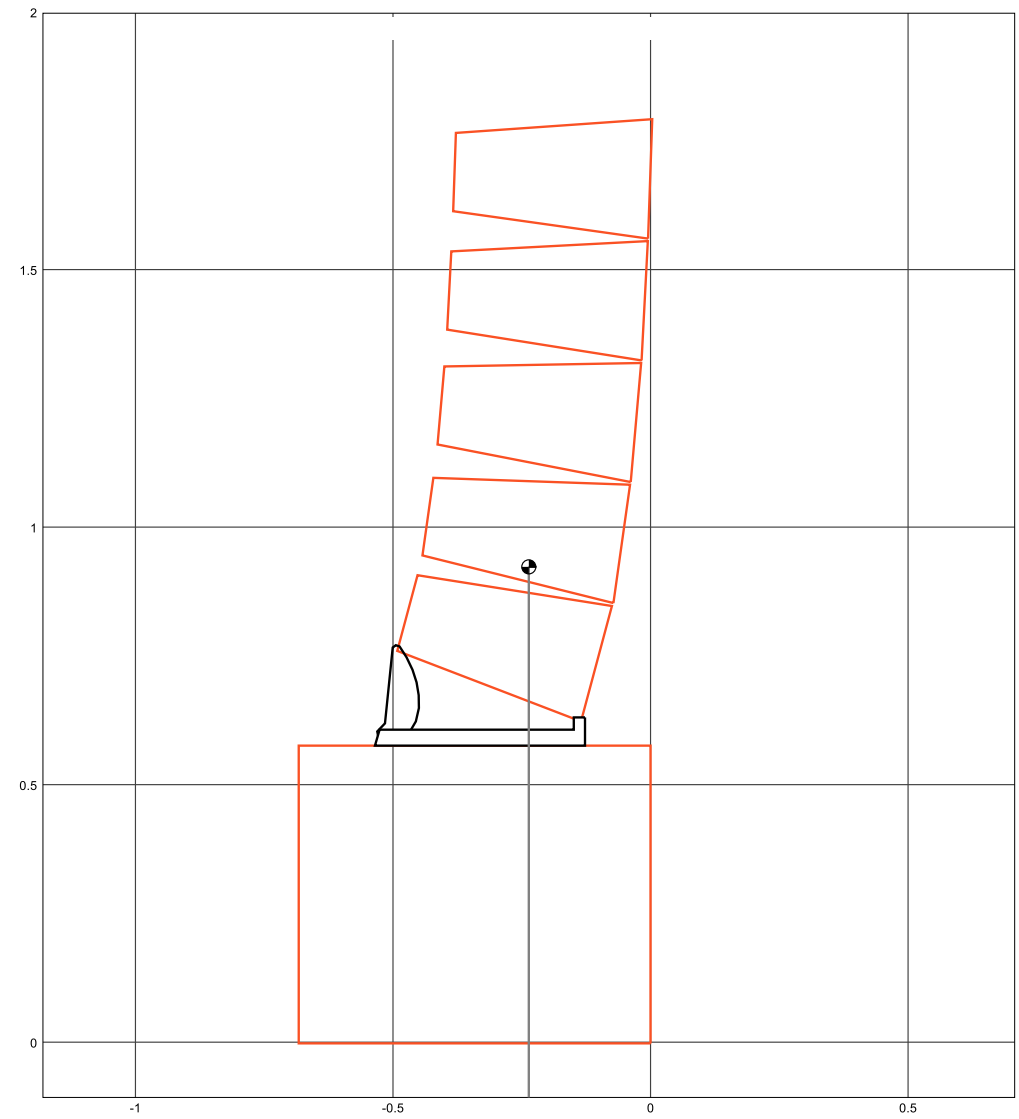
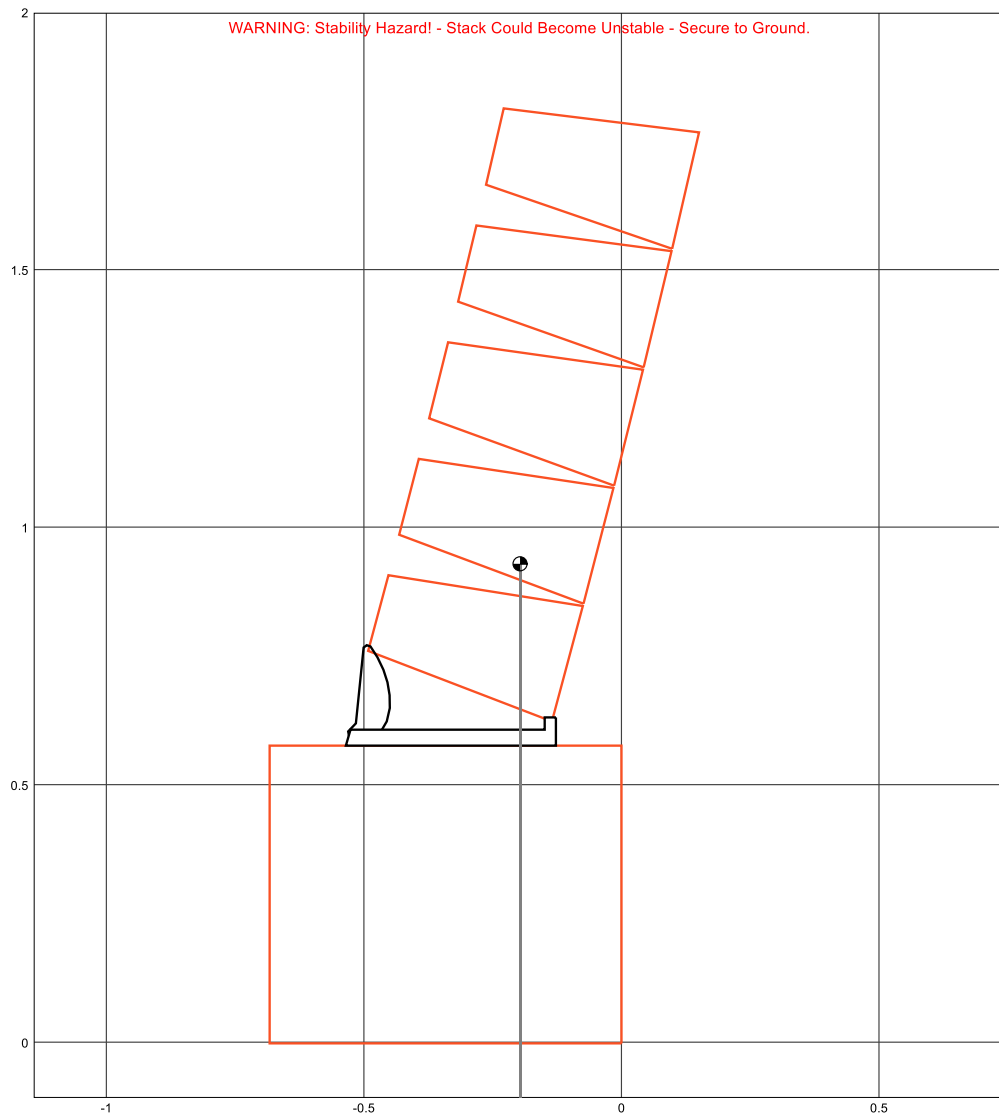


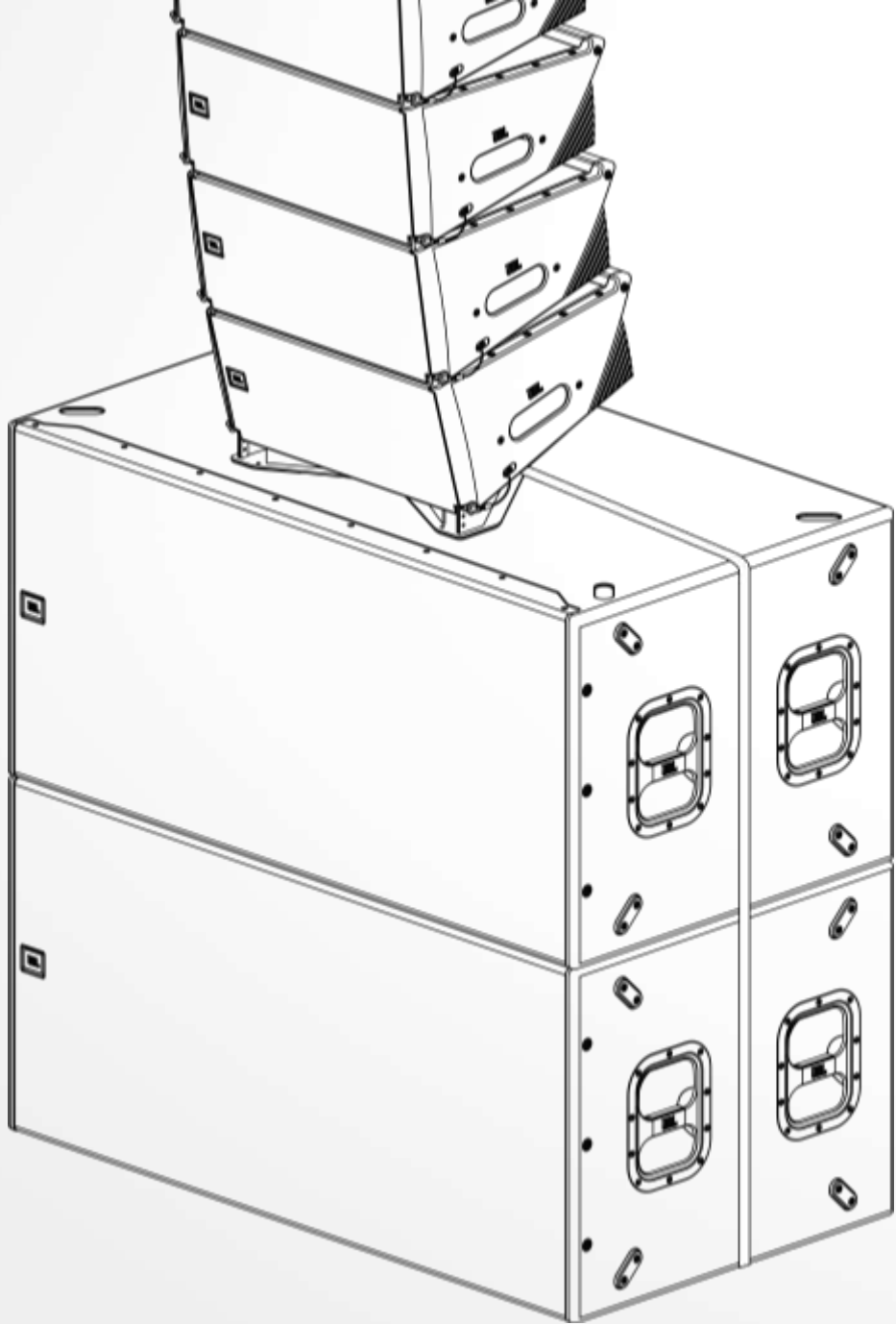
SRX906LA



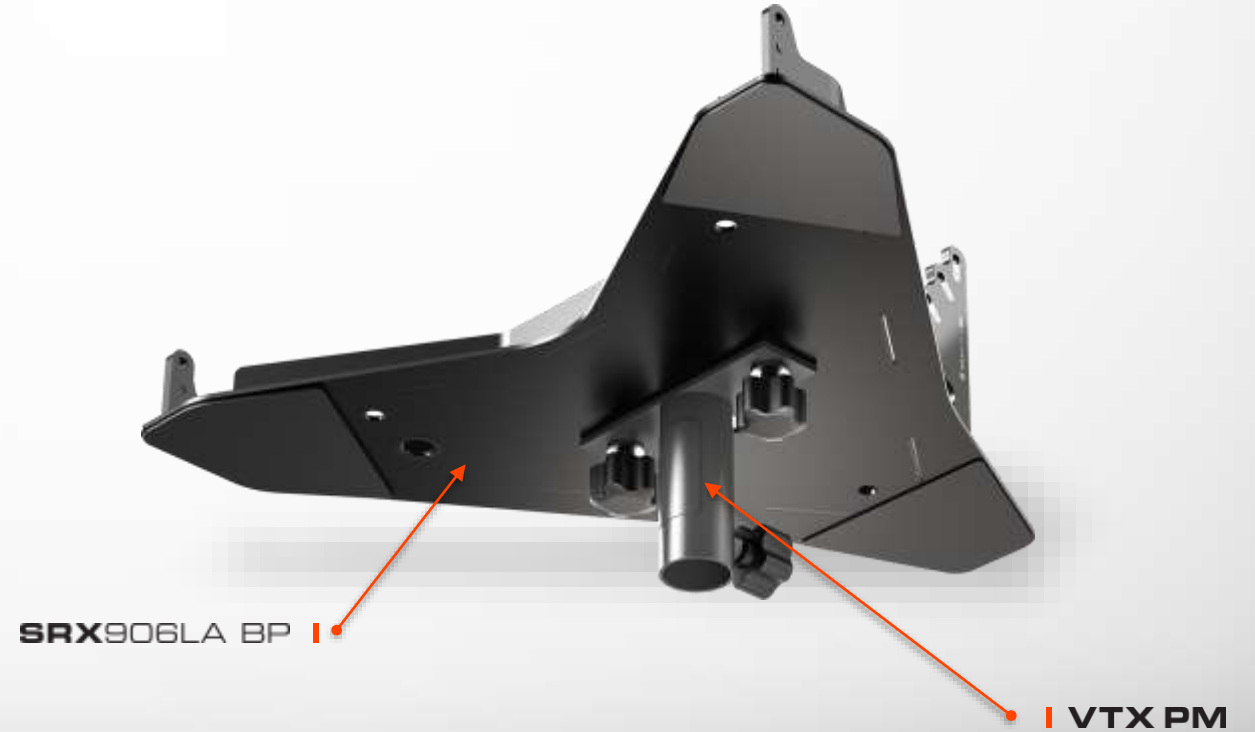
SRX910LA







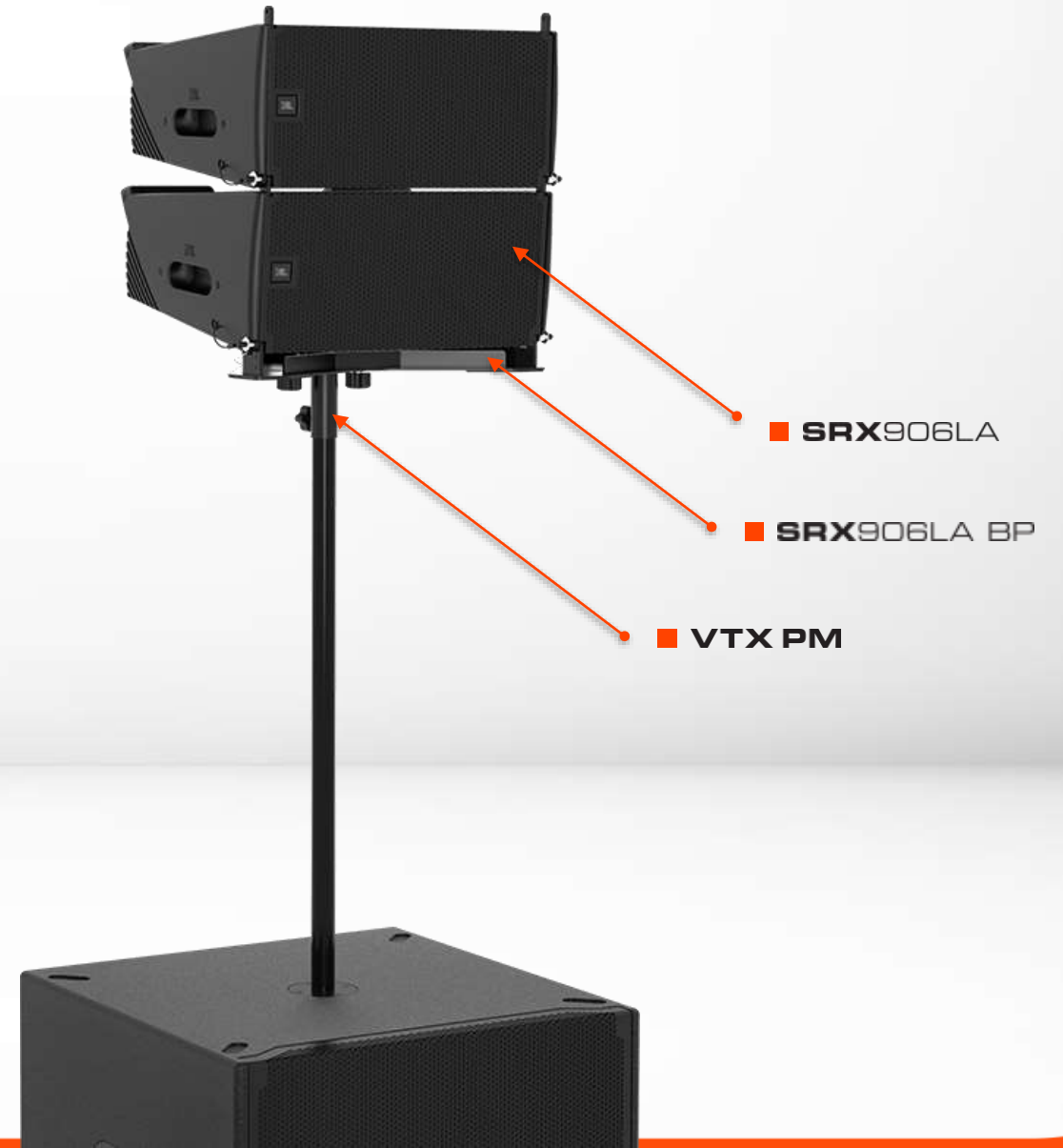
- Universal pole-mount adapter
- Connects to any standard 35 mm pole
- Compatible with VTX A6 BP and **SRX906LA BP**
- Support for up to (2) SRX906LA
- (2) M10 Knobs included



# VTX PM

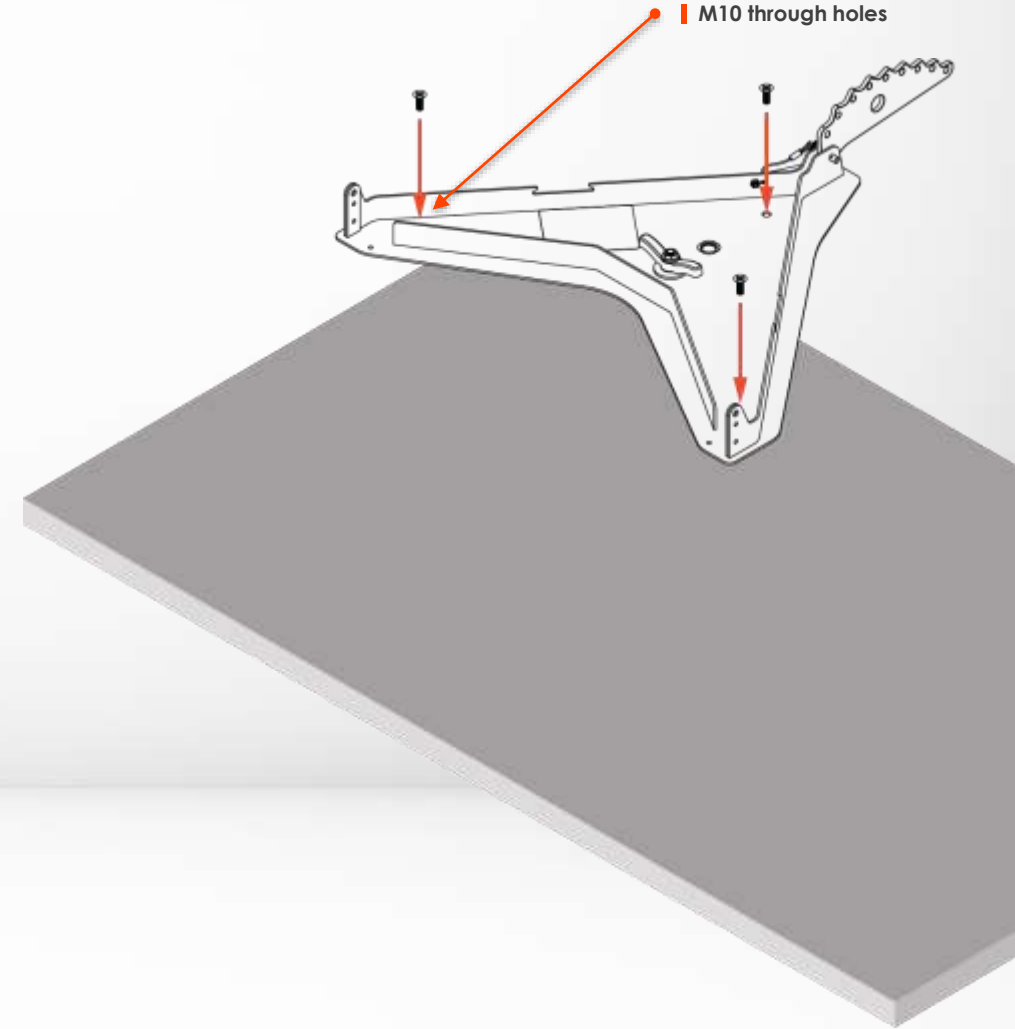


- Universal pole-mount adapter
- Connects to any standard 35 mm pole
- Compatible with VTX A6 BP and **SRX906LA BP**
- Support for up to (2) SRX906LA
- (2) M10 Knobs included



## ■ Applications / Use-cases

- Attachment to structures such as:
  - carts
  - Stages
  - Scaffoldings



# SRX906LA CASE



- Road case for SRX906LA cabinets
- Support for up to (4) cabinets
- Heavy-duty casters
- Stackable design
- Sized for US and international truck sizes
- JBL DuraFlex finish
- Designed and manufactured by JBL





# SRX906LA CASE



Integrated handles for rigging/derigging



Unique low-profile design

Easy access to QRP

# SRX910LA VT



- Vertical Transport cart for (4) SRX910LA
- Truck friendly dimensions
- Includes VT-TOP for efficient packing and stacking
- Heavy-duty casters
- Stackable design
- Optional soft cover available



SRX910LA VT CVR

- Universal **A**ccessory **C**aster **K**it
- Compatible with SRX918S and SRX928S
- Black housing for discreet look
- Black polyurethane wheel
- Anti-rattle features for vibration free operation



# SRX918S CVR | SRX928S CVR



- Heavy duty soft covers
- Handle cutouts for easy transportation
- Includes folding feature for storage
- Internally reinforced for grille protection



# SRX900 RC1



- Rain cover to protect the electronics
- Simple inexpensive solution
- Compatible with all SRX900 products
- Extends the ingress rating to IP54





# PRESETS

## Line Array Preset Options

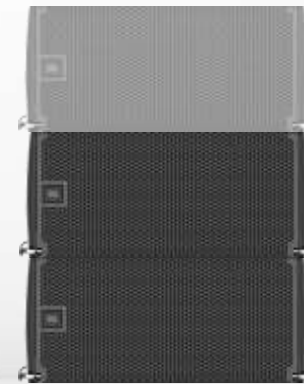
- Preset selection depends on the number of speakers
- Presets shape the response to match the application
- Accessible from the LCD or software
- Presets are part of the firmware, not software

### LF Modes:

- Full Range or 80 Hz



**Fill Preset (FL)**  
Single Cabinet  
Front Fills



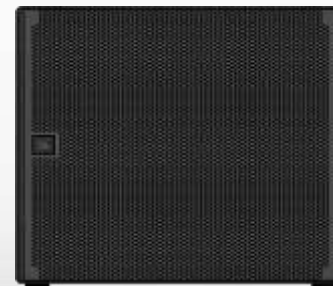
**Small Array (SA)\***  
2 - 3 Cabinets  
Pole Mount Preset



**Array Preset**  
4 - 16 Cabinets  
+ ASC Filter

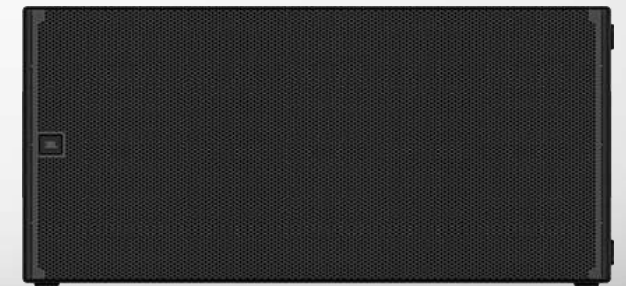
## ■ Subwoofer Preset Options

- Presets adjust crossover points and phase response
- Select REAR for cardioid configurations
- Accessible from the LCD or software
- Presets are part of the firmware, not software



### LF Modes:

- 60 Hz
- 60 Hz REAR
- 80 Hz
- 80 Hz REAR



### LF Modes:

- 60 Hz
- 60 Hz REAR
- 80 Hz
- 80 Hz REAR



# SRX900



80 Hz

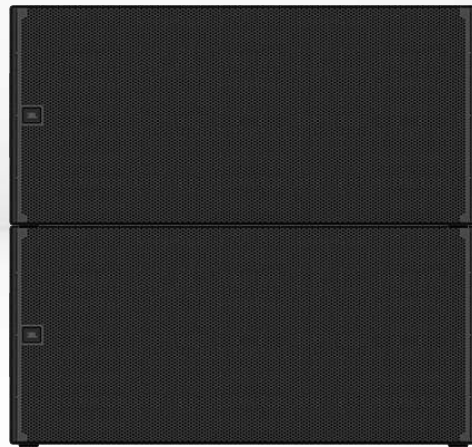
80 Hz REAR

80 Hz



80 Hz

Full Range



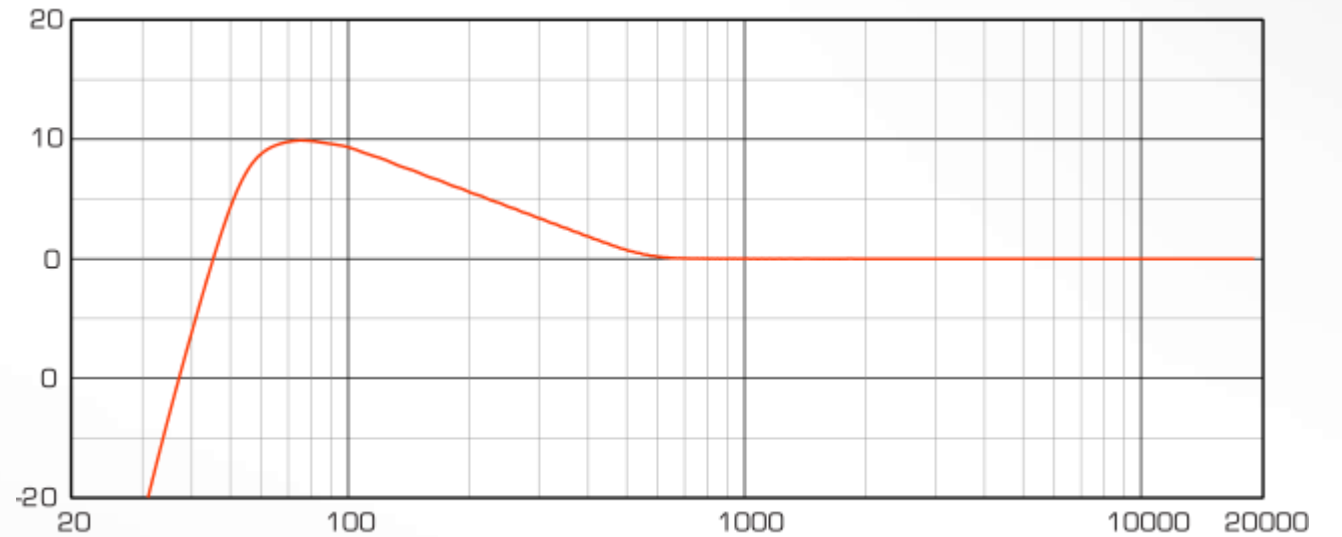
80 Hz

60 Hz

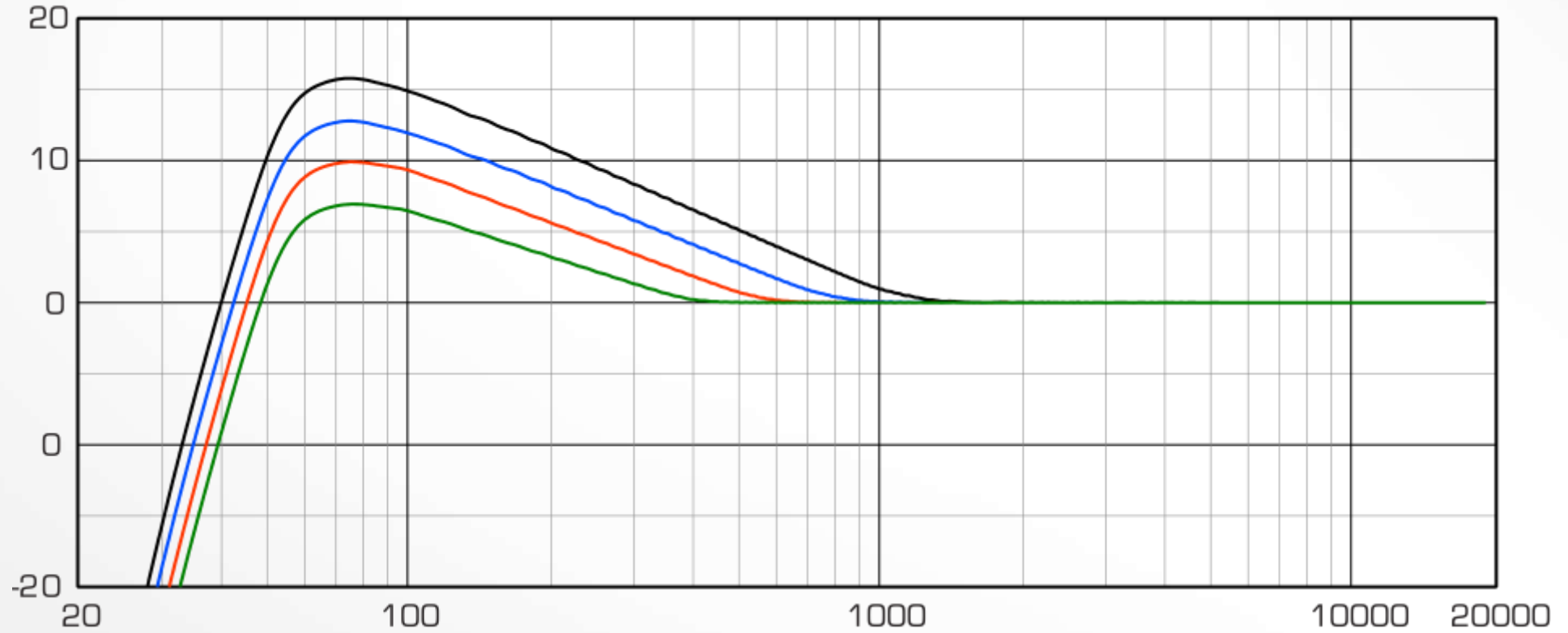
## ■ Array Preset Target

- Ideal for (8) box arrays
- Flat down to 500 – 600 Hz
- Rising LF response
- 8 – 10 dB rise depending on conditions

Frequency Response Target for (8) Box Array



# SRX 900



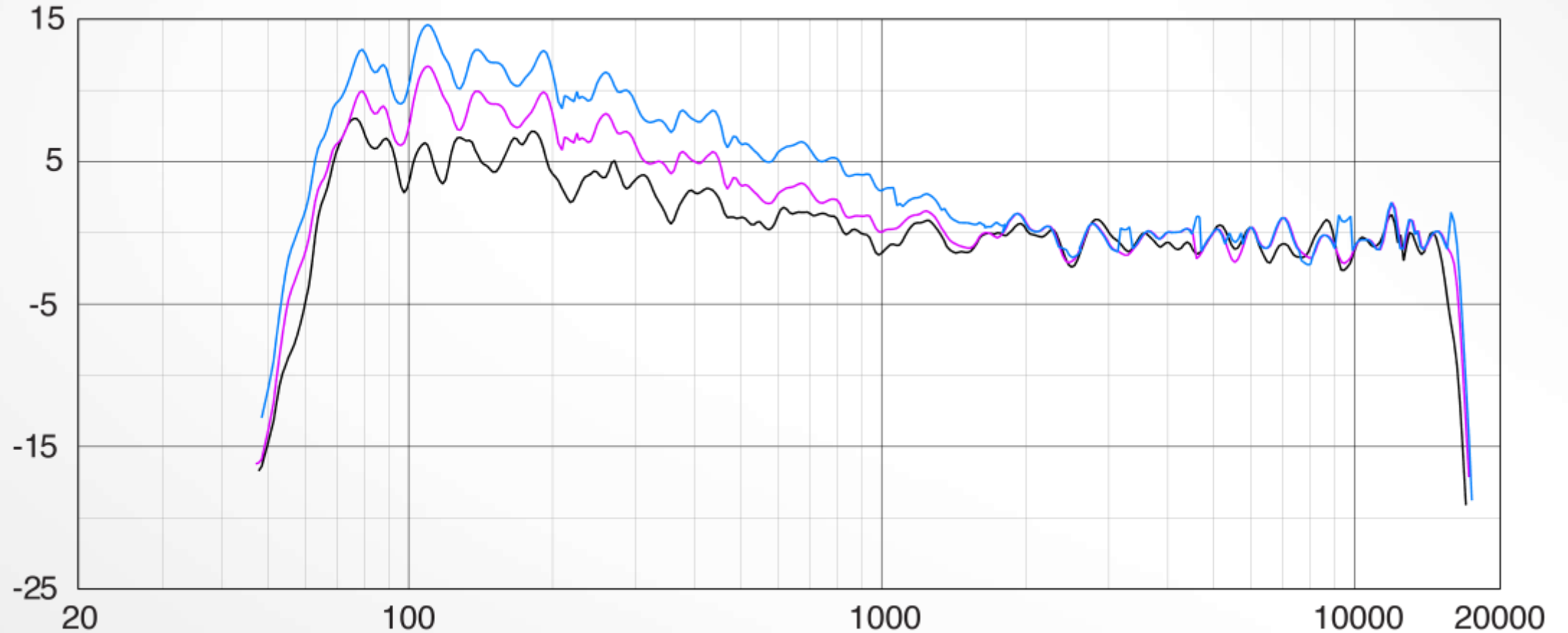
■ (16) BOX

■ (12) BOX

■ (8) BOX

■ (4) BOX

SRX906LA | (8) Mic Average | 8 - 12 - 16 Box Arrays

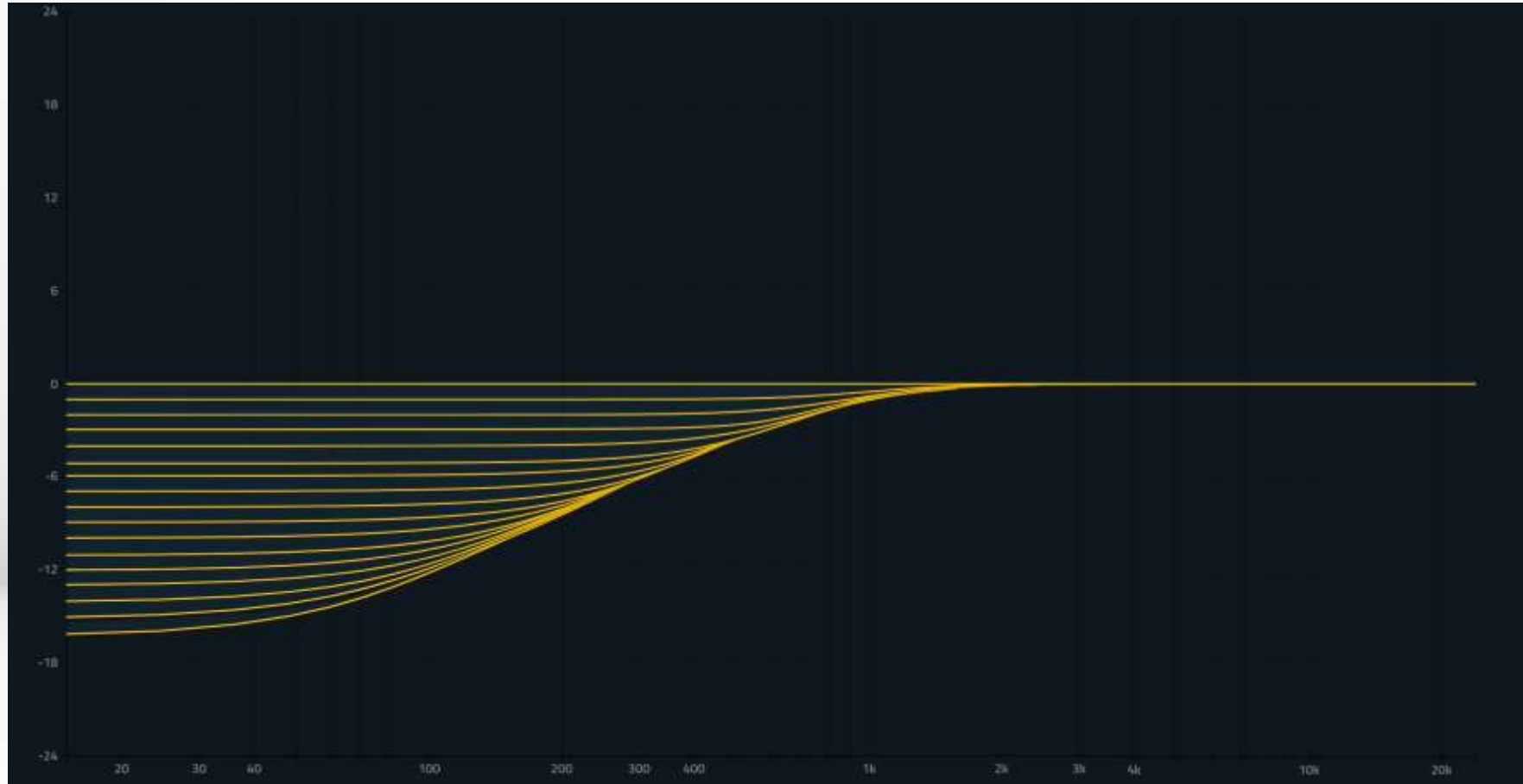


■ (8) BOX

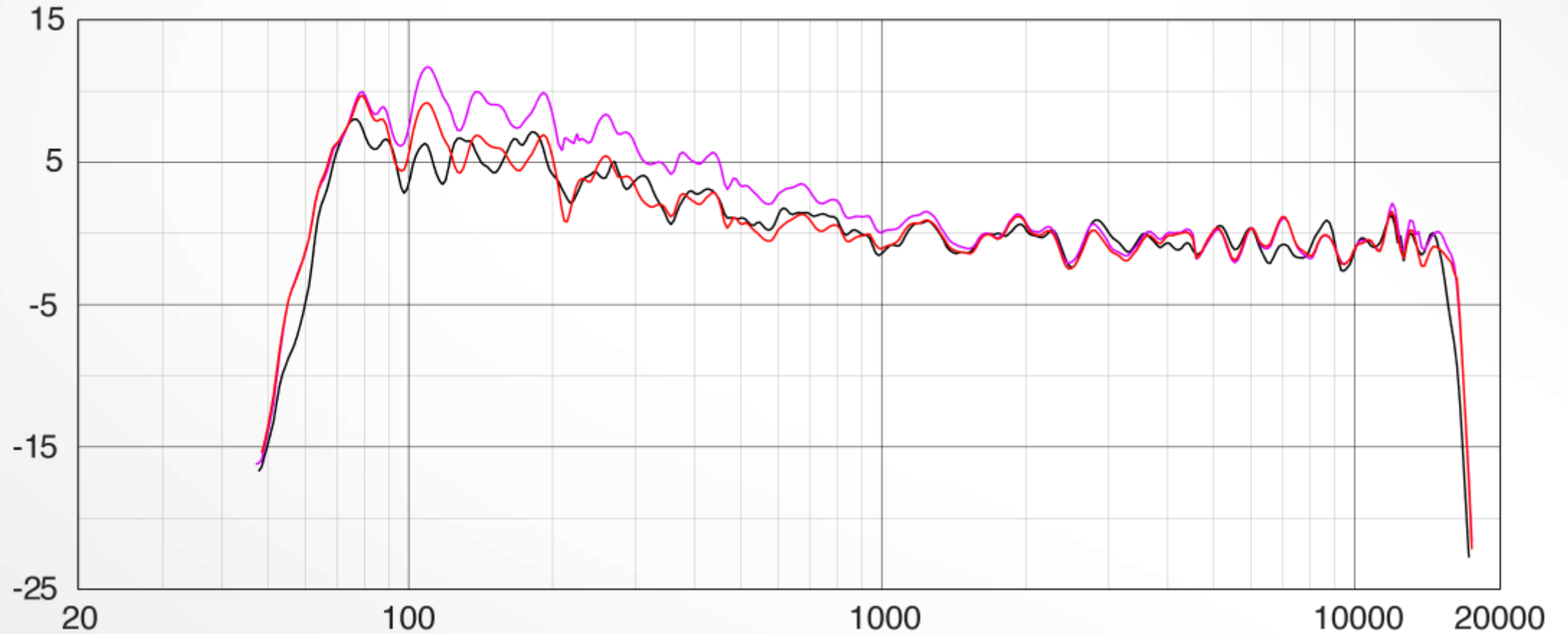
■ (12) BOX

■ (16) BOX

■ Array Size Compensation (ASC)



SRX906LA | (8) Mic Average | 8 - 12 Box Arrays

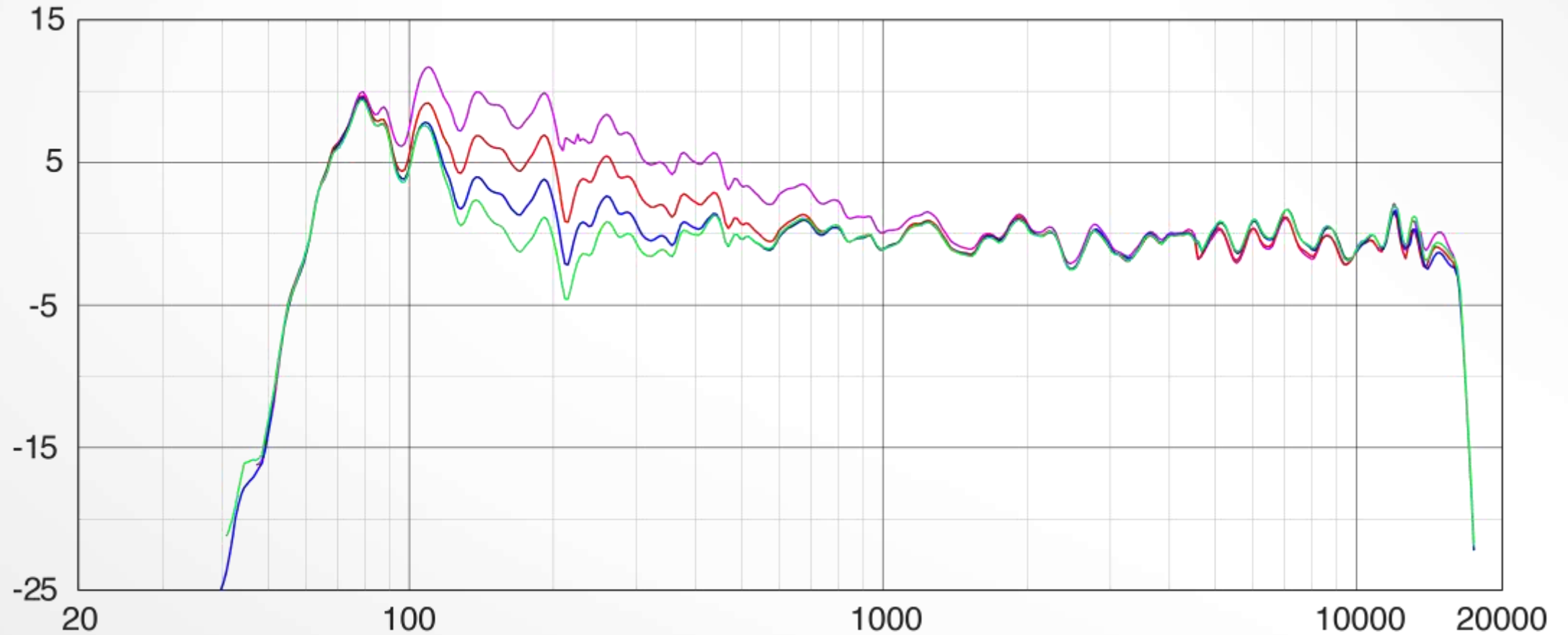


■ (8) BOX

■ (12) BOX

■ (12) BOX -3 dB ASC

SRX906LA | (8) Mic Average | 12 Box Arrays



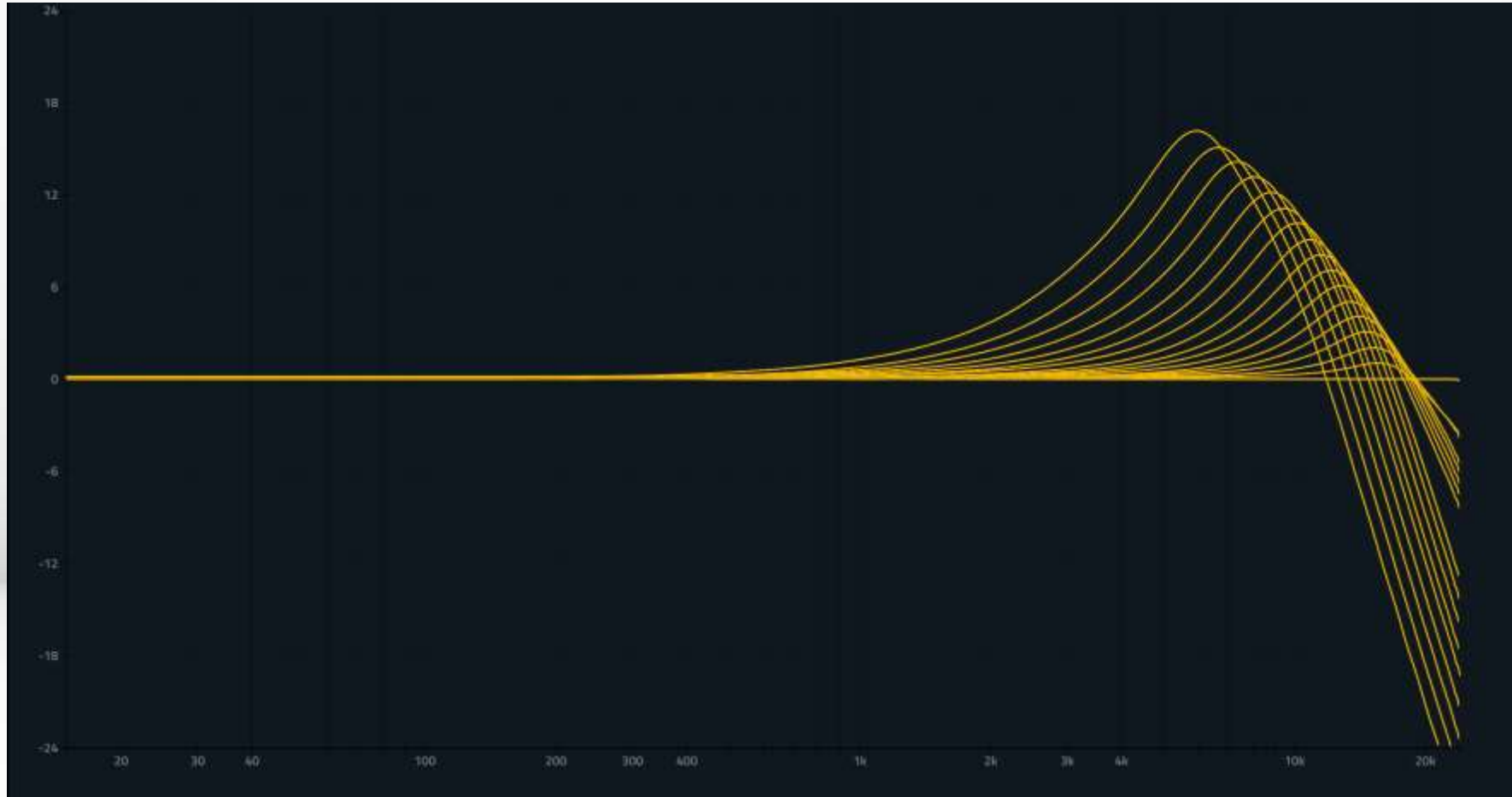
(12) BOX FLAT

(12) BOX -3dB ASC

(12) BOX -6 dB ASC

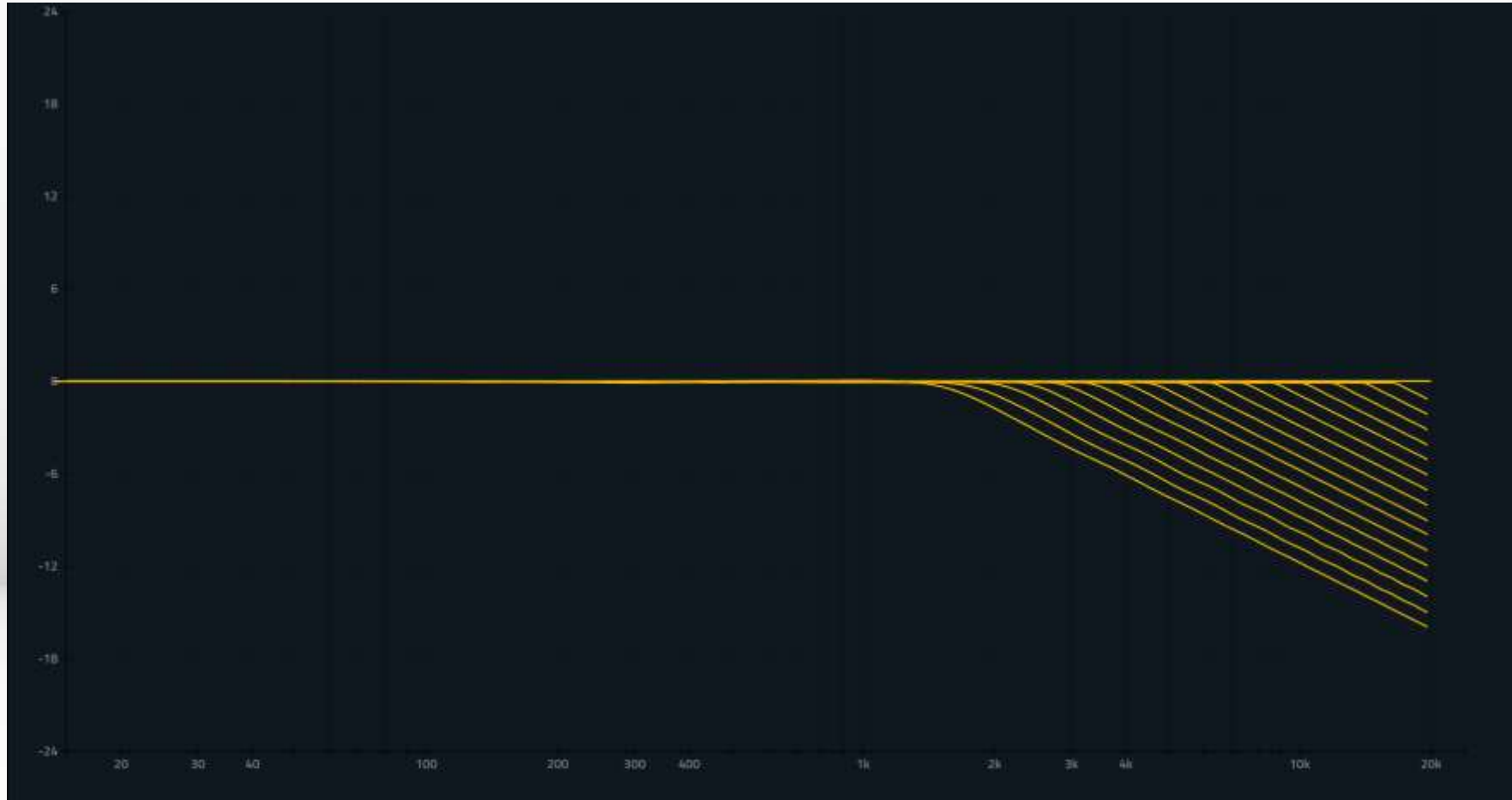
(12) BOX -9 dB ASC

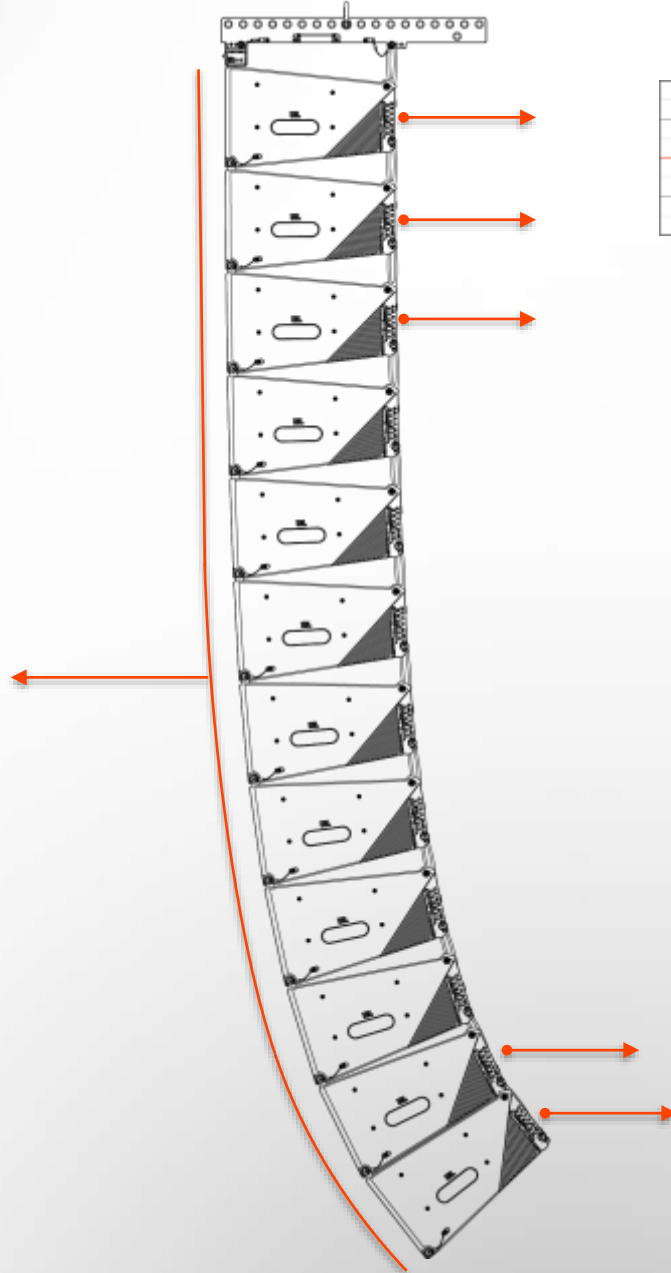
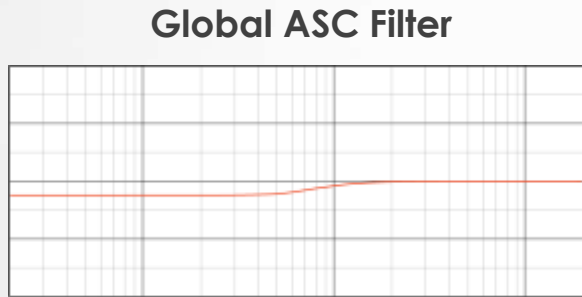
## Throw Distance Compensation (TDC) | Positive Values



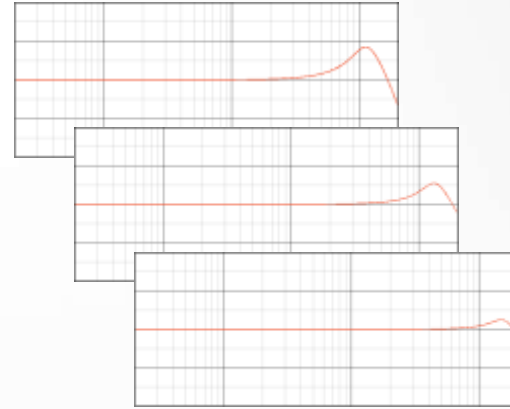


## Throw Distance Compensation (TDC) | Negative Values

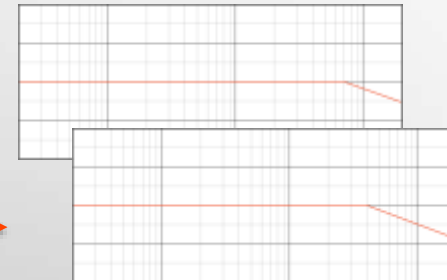


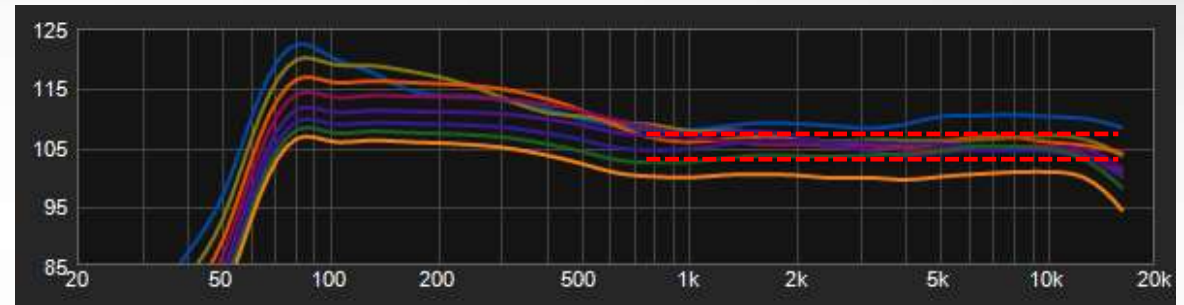
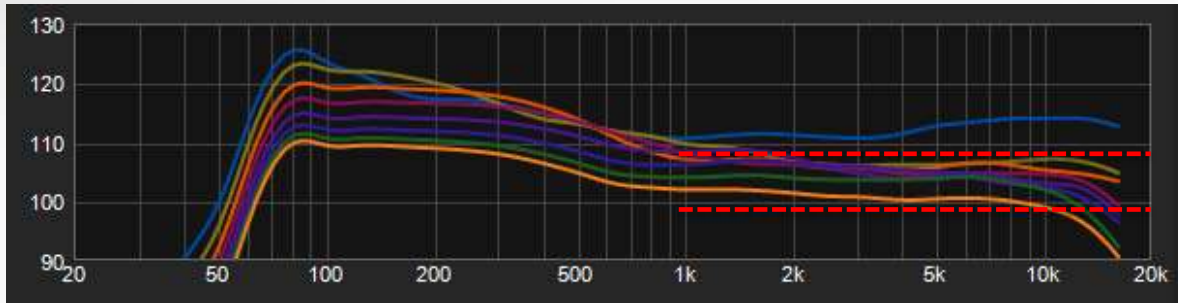
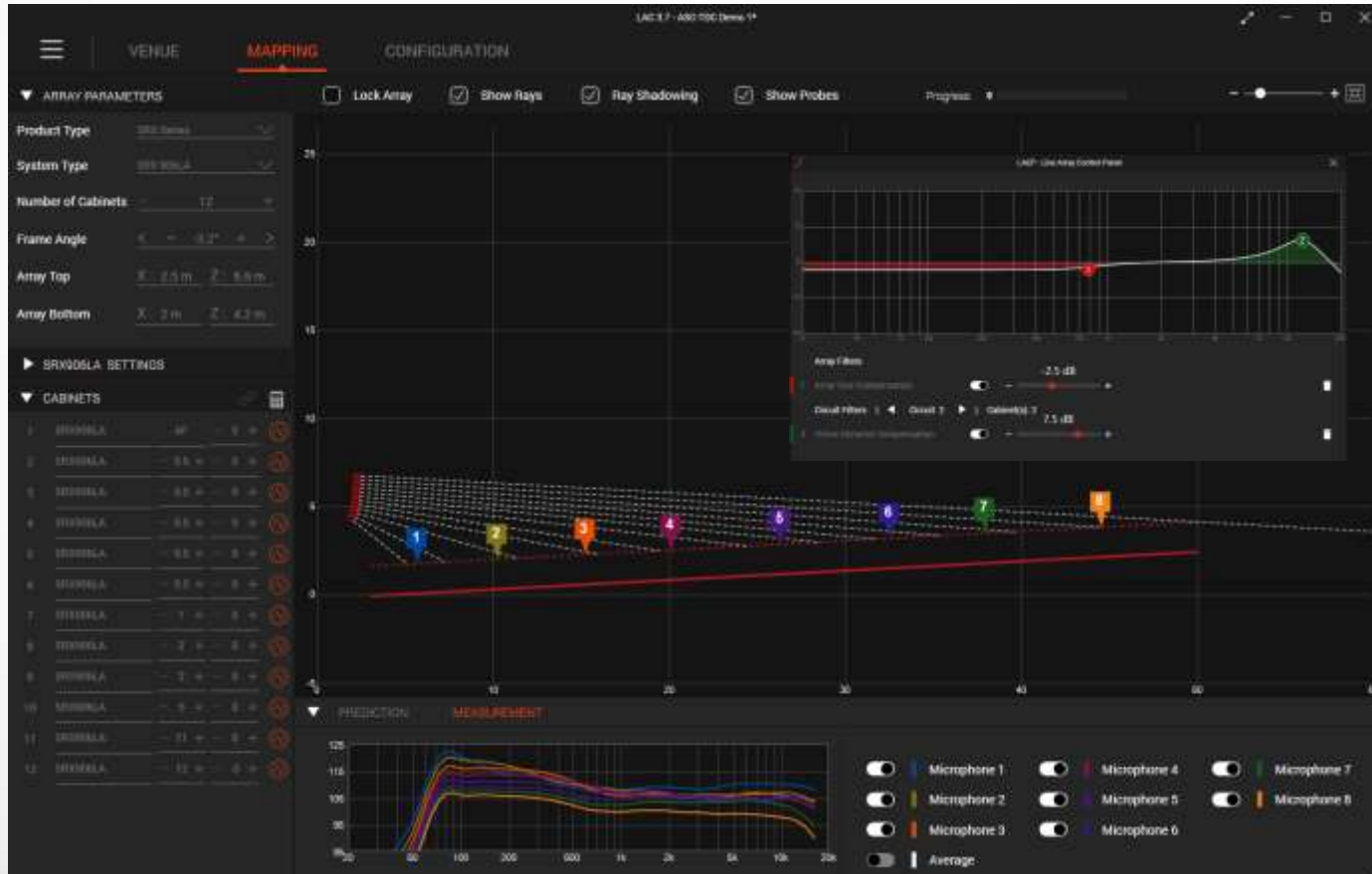


### TDC Filter Increase



### TDC Filter Decrease





A dark, industrial-looking JBL speaker cabinet is shown against a black background. The cabinet features a large, perforated grille on the front. At the top, there is a handle with a chain link. The top edge of the cabinet has a series of circular holes, some of which are numbered 1 through 10. Below these holes, there are small labels 'C', 'B', and 'A'. On the right side, there are more labels 'A', 'B', and 'C'. The JBL logo is visible on the bottom left of the grille.

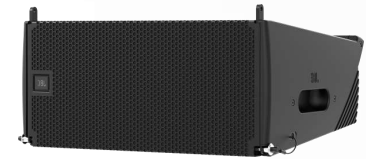
# POWER REQUIREMENTS

JBL

## CURRENT DRAW

	120 V	208 V	240 V
<b>Standby :</b>	0.2 A	0.1 A	0.1 A
<b>Idle :</b>	0.3 A	0.2 A	0.2 A
<b>Continuous<sup>4</sup> :</b>	1.3 A	0.8 A	0.7 A
<b>Maximum Instantaneous Peak<sup>5</sup> :</b>	7.0 A	5.4 A	4.7 A
<b>Peak Inrush<sup>6</sup> :</b>	2.2 A	3.6 A	4.3 A

SRX906LA



### Footnotes:

4: System test using IEC shaped pink noise with 9 dB crest factor. System at maximum output without clipping or limiting. Ambient temperature: 20° C. Duration: 5 sec.

5: Two-tone, all channels driven, IMD test at maximum power and a duration of 200 ms.

6: Measured RMS inrush current for a 50 ms window.

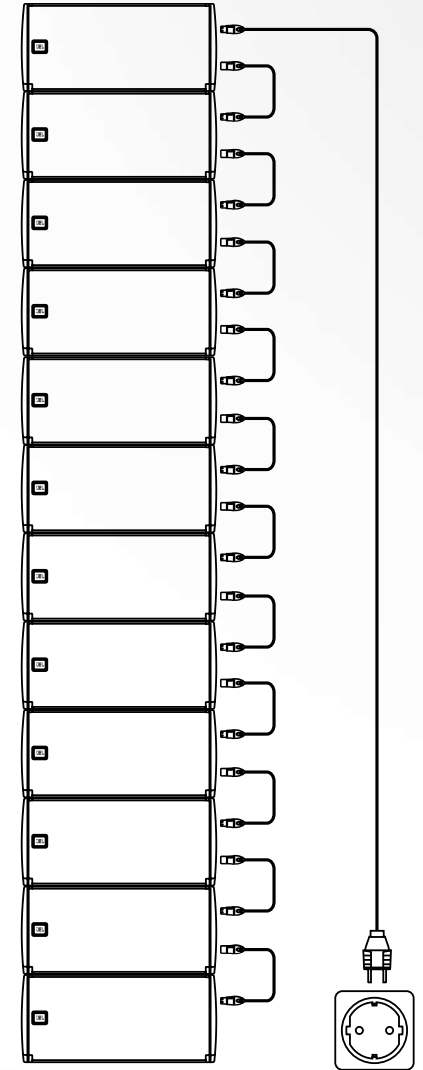
NUMBER OF SPEAKERS PER LINE			
	120 V (15A)	208 V (15A)	240 V (16A)
<b>SRX906LA</b>	(6)	(10)	(12)
<b>SRX910LA:</b>	(4)	(7)	(8)
<b>SRX918S</b>	(2)	(3)	(4)
<b>SRX928S</b>	(1)	(3)	(3)

$$\text{Line Array} = \frac{\text{Breaker Value} - 30\%}{\text{Continuous} + 30\%}$$

$$\text{Line Array} = \frac{15A - 30\%}{1.3A + 30\%}$$

$$6.17 = \frac{10.5A}{1.7A}$$

$$\text{Subwoofer} = \frac{\text{Breaker Value} - 30\%}{\text{Continuous} + 50\%}$$





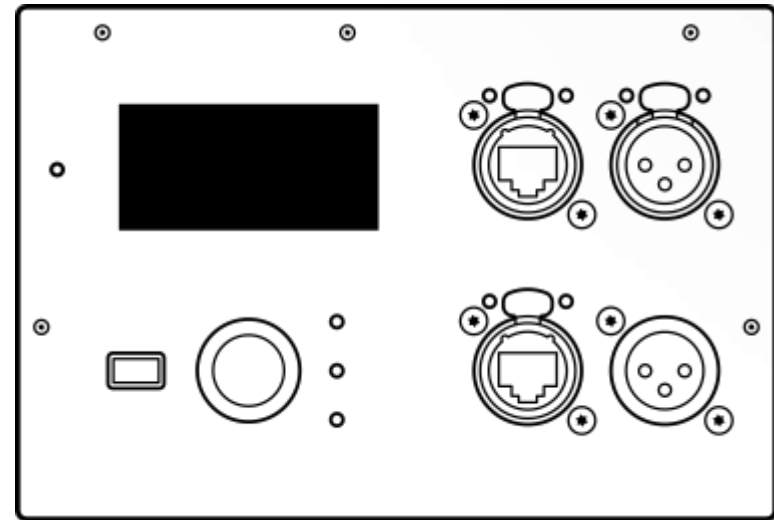
# NETWORKING

JBL

# SRX900

## ■ Hardware

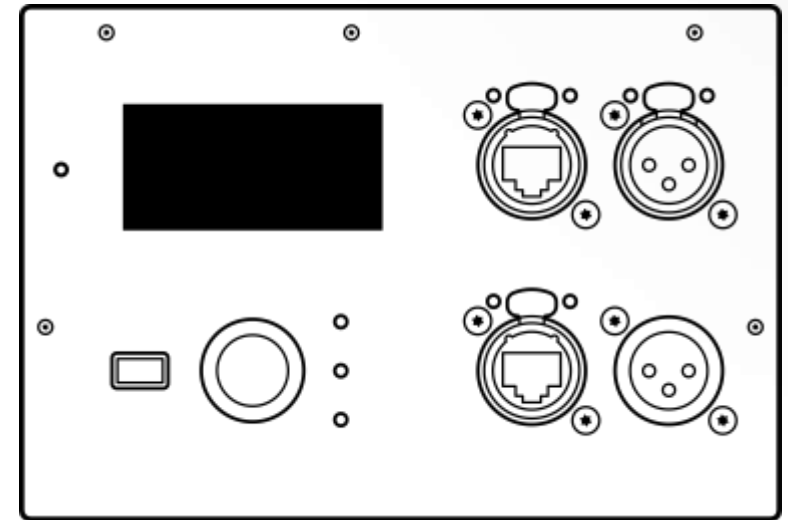
- Dual 100 Mbps Ethernet ports
- Neutrik etherCON connectors
- Ports configured as a “switch” (no IN or OUT)





## ■ IP Addressing

- Devices are optimized for Auto IP (DHCP/APIP)
- Fixed IP addresses are not required
- IP addresses are rarely relevant to the user
- Networking parameters accessible via LCD and software
- System uses Hcontrol IDs for device matching

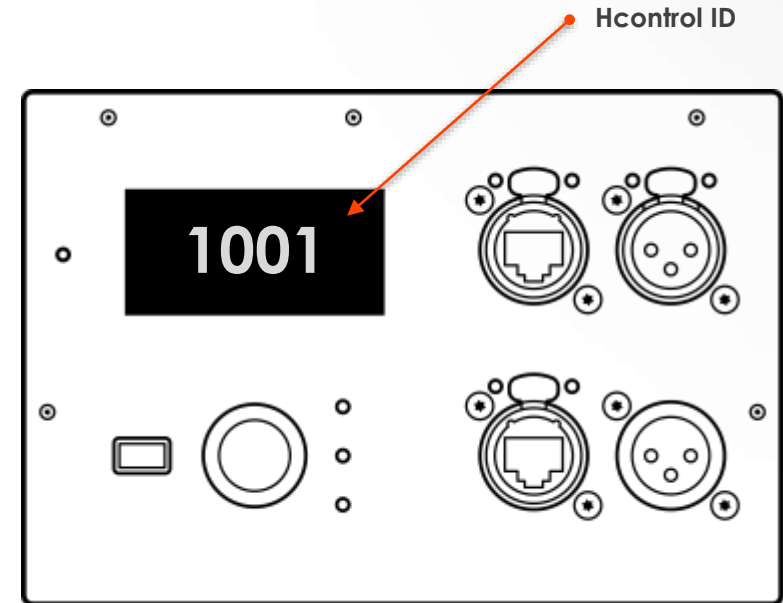


## ■ Hcontrol

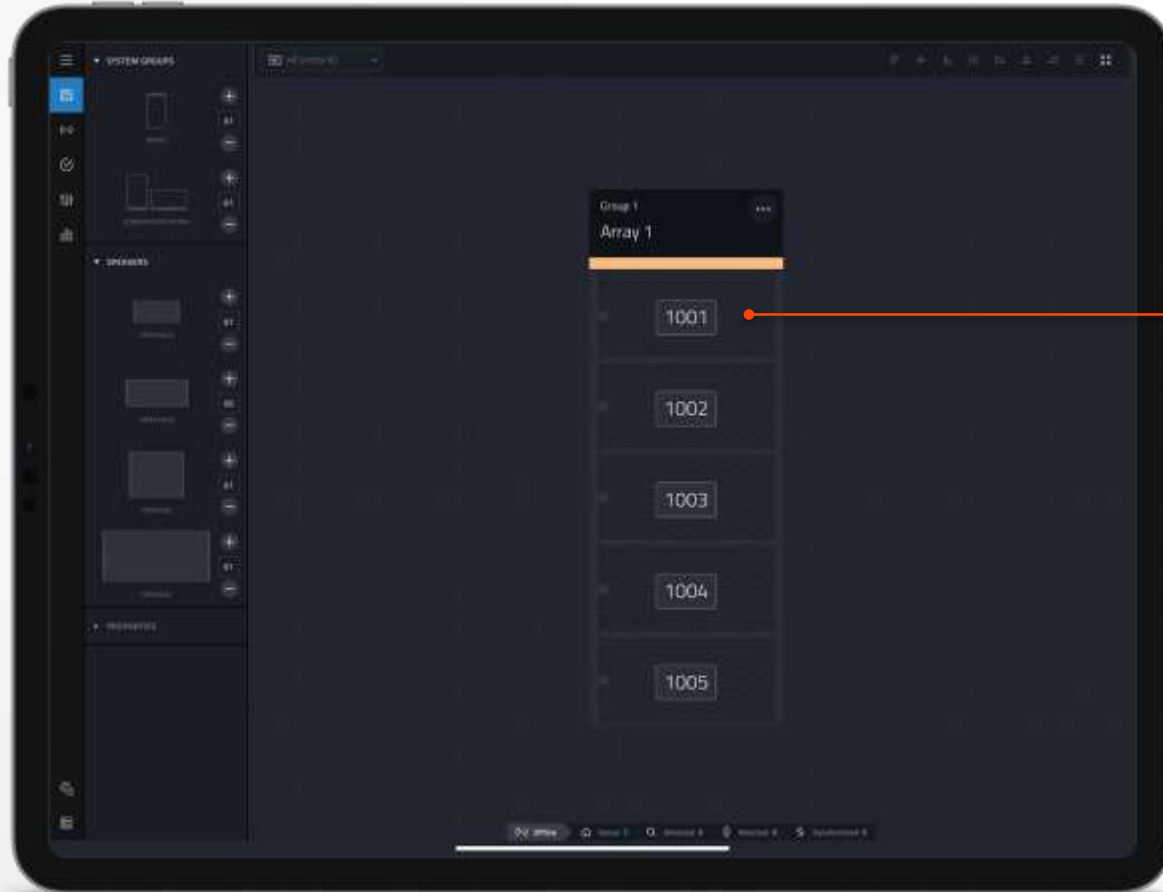
- Proprietary Harman communication protocol
- Replacement for HiQnet
- Optimized for Wi-Fi
- Confirmation based protocol
- Easy and fast device discovery
- Based on the latest networking standards

## ■ Uses numeric Hcontrol IDs for device matching

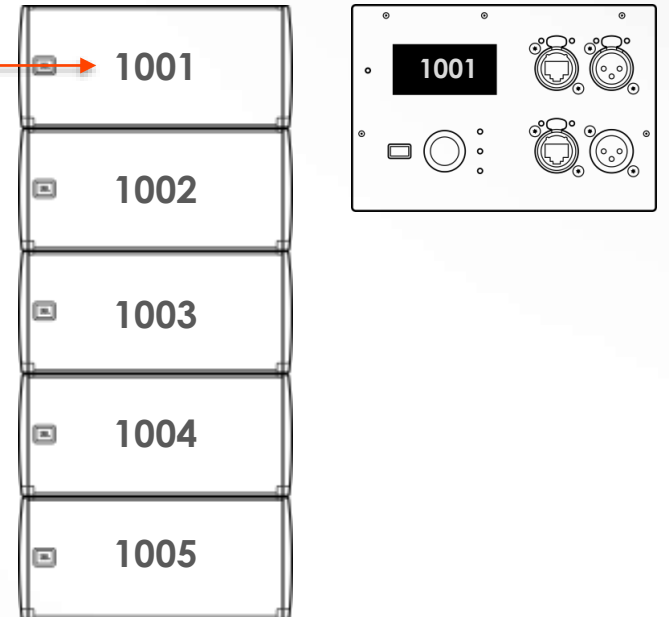
- Set via LCD or software
- Option to “lock” Hcontrol ID



## Software

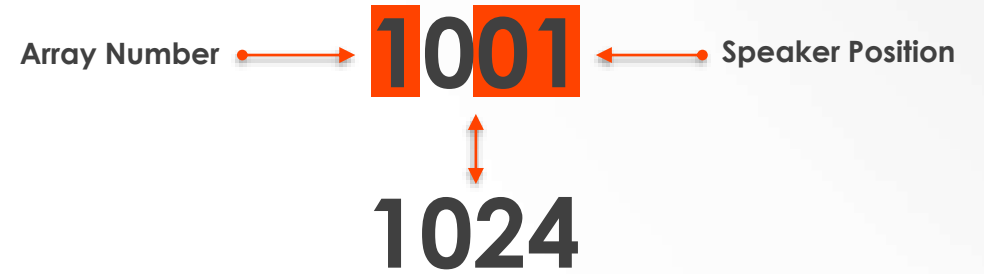


## Hardware

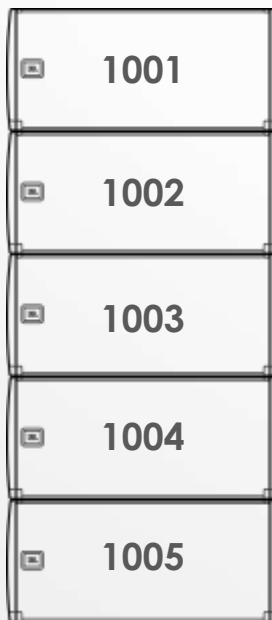


- Hcontrol IDs can be up to six digits long (999999)
- Choose logical IDs to make matching easy

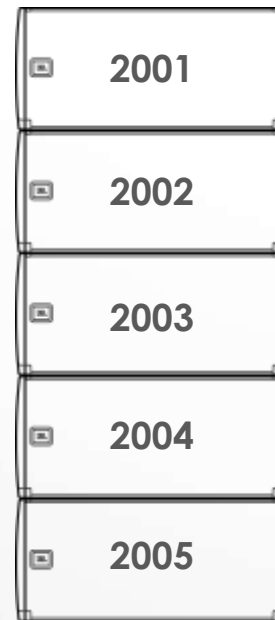
Example



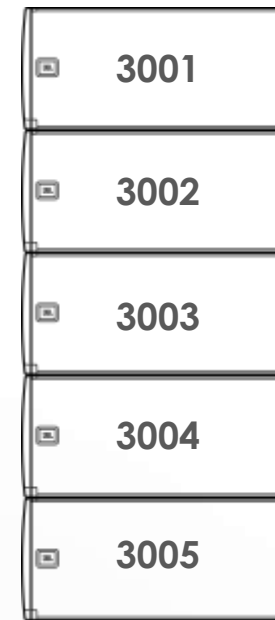
LEFT



CENTER



RIGHT



## ■ Daisy Chain (bus) Topology

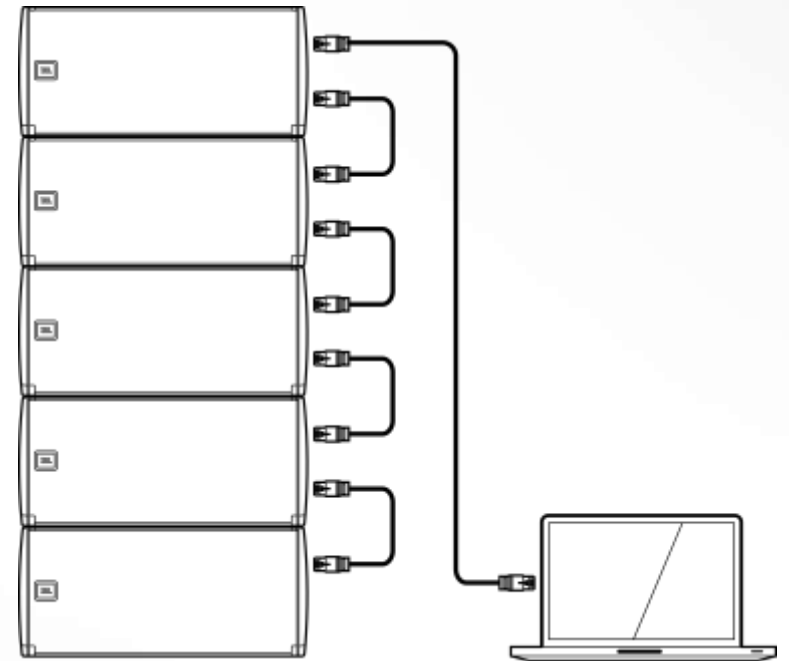
- All devices are connected using the internal speaker switch
- PC or access point is connected to the first or last device
- Recommended maximum number of devices: **24**

## ■ Pros

- Simple and easy
- Ideal for smaller systems
- Minimal wiring requirements
- No external networking products required

## ■ Cons

- Depending on system size, wiring can be cumbersome
- Can be unreliable, no redundancy
- **Can be problematic during firmware updates**



# SRX900

## ■ Star Topology

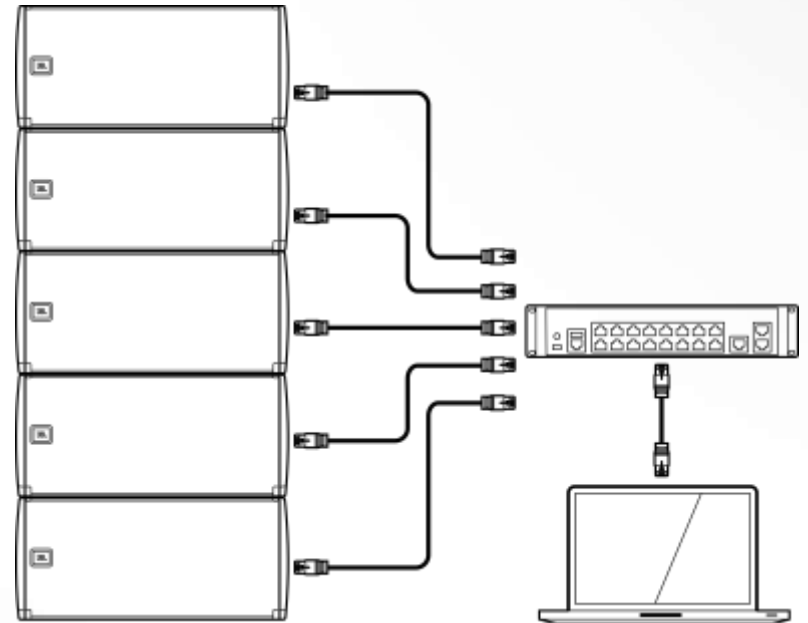
- Each device is individually connected to a switch port
- The internal Ethernet switch is not used

## ■ Pros

- Fast and reliable
- Ideal for large installation where IT is involved
- Perfect for firmware updates

## ■ Cons

- Complex and expensive wiring
- Requires external Ethernet equipment
- **Not recommended for portable applications**



# SRX900

## Hybrid

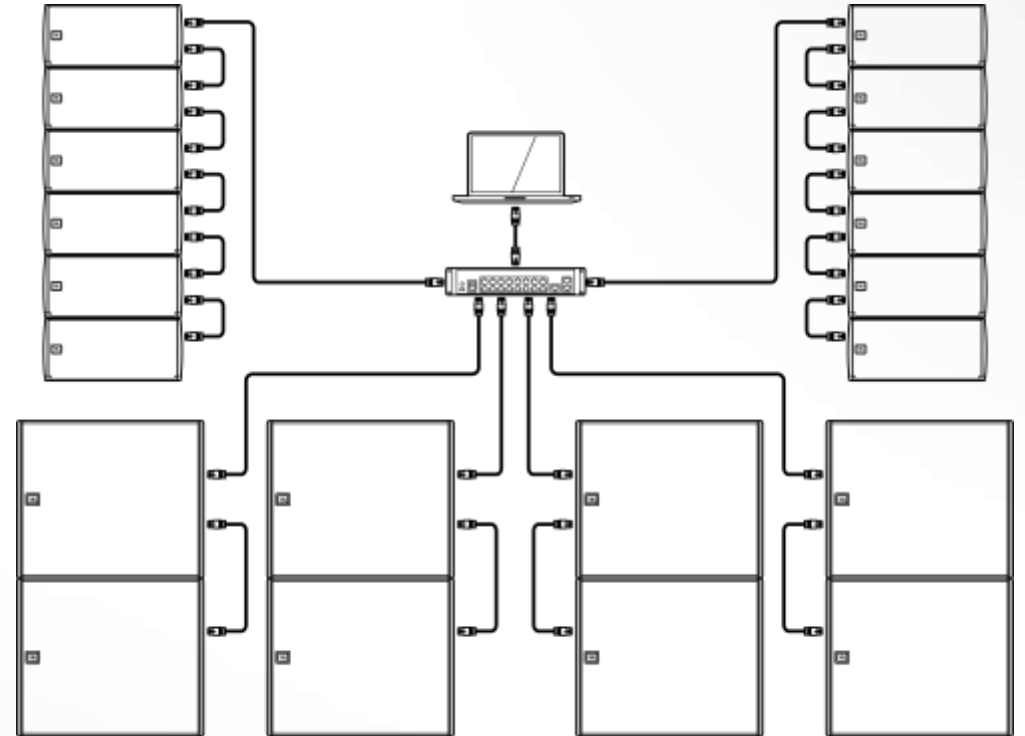
- Devices within an array are connected together
- Each array/stack connects to a centralized switch

## Pros

- Simple, easy and reliable
- Ideal for any size system
- Minimal wiring requirements
- Ideal for portable applications and installations

## Cons

- Can be problematic during firmware updates

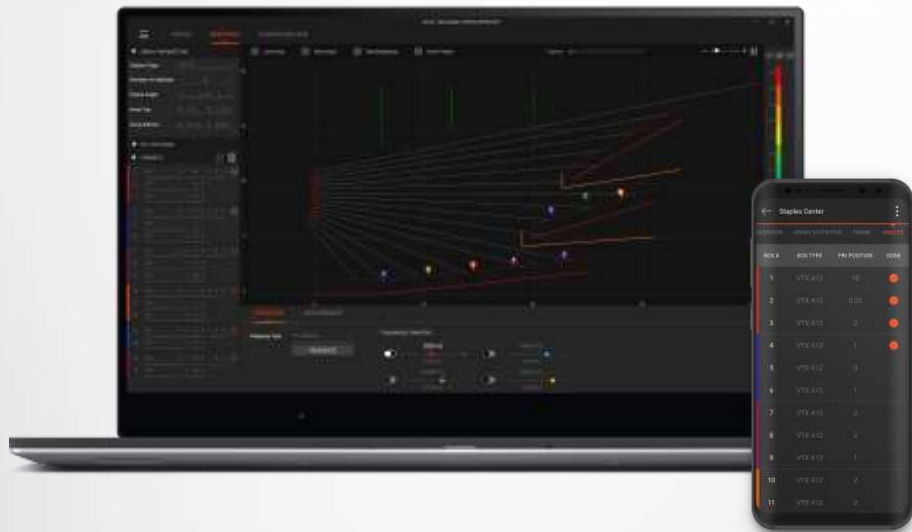




# SOFTWARE



## DESIGN

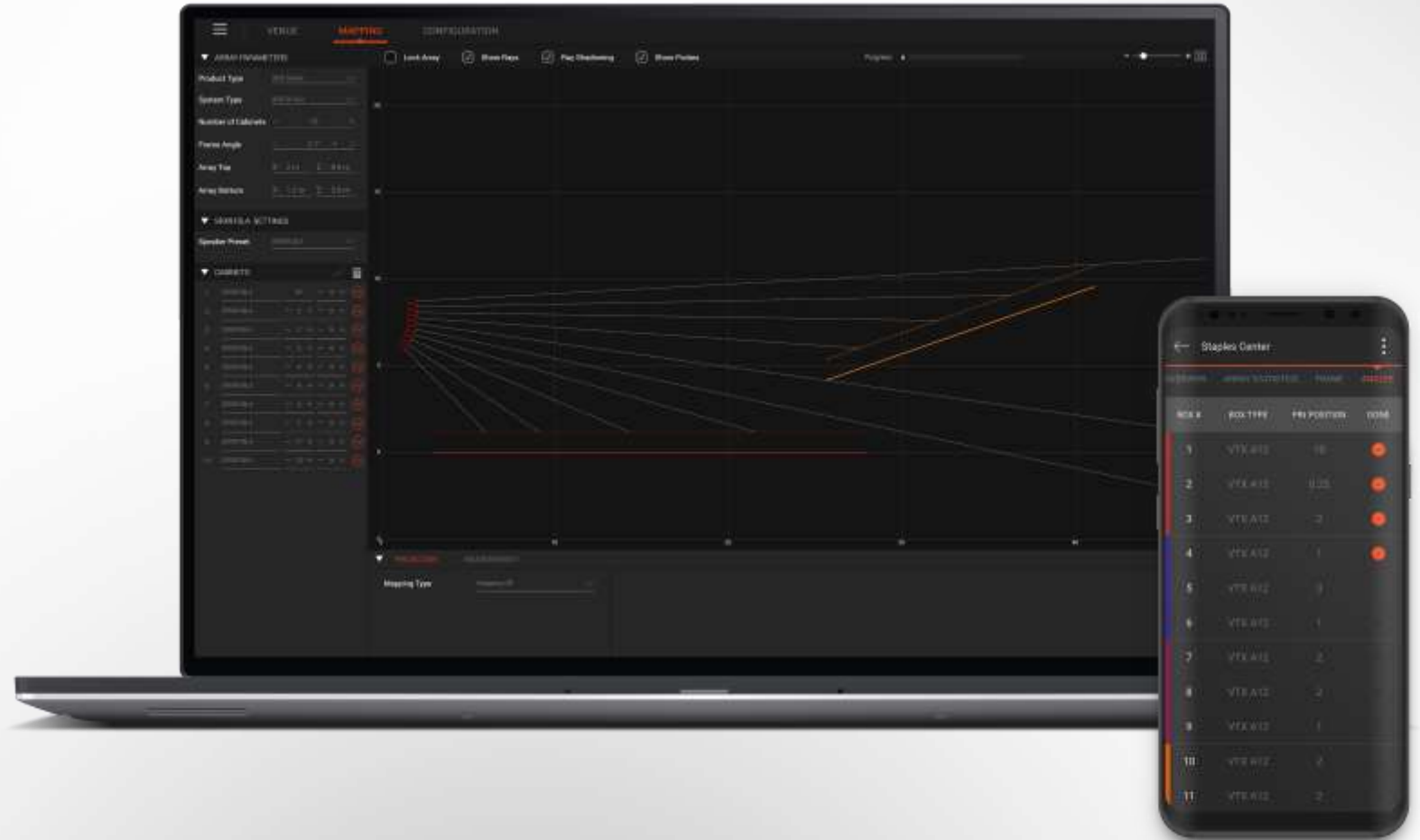


## CONTROL



## SYSTEM DESIGN

- Prediction for SRX products
- Fast and intuitive user interface
- Subwoofer coverage optimization
- Virtual measurement microphones
- Mechanical checks and safety reports
- DSP optimization features
- Array Link QR code generation



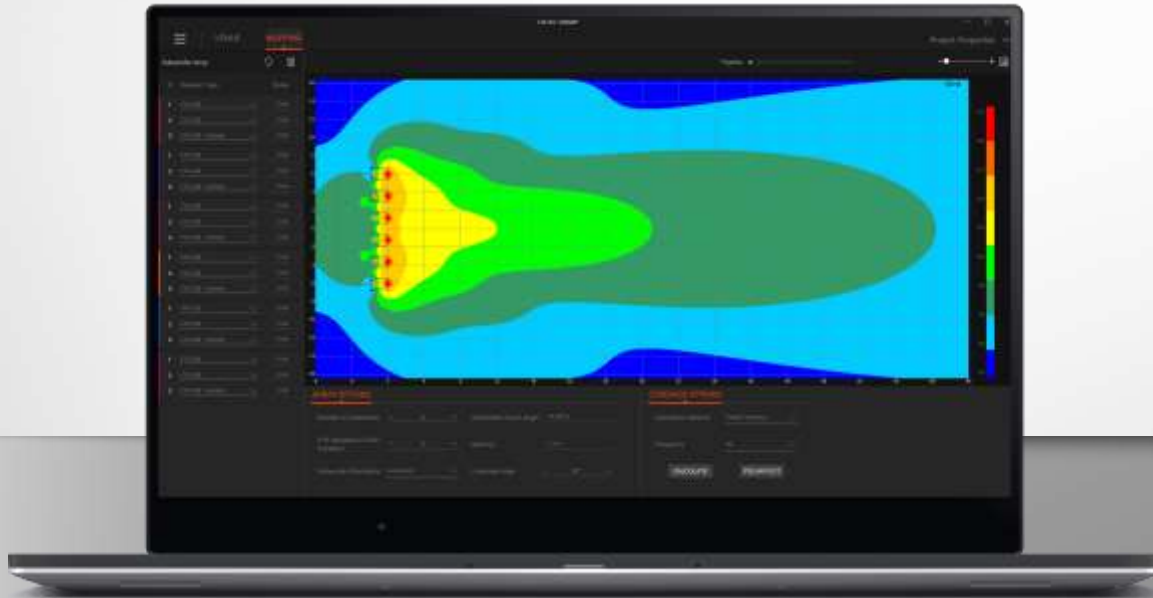
## SYSTEM OPTIMIZATION

- Support for new SRX900 Series filters
  - Array size compensation
  - Throw distance compensation
  - Proximity correction



## SUBWOOFER ARRAY OPTIMIZATION

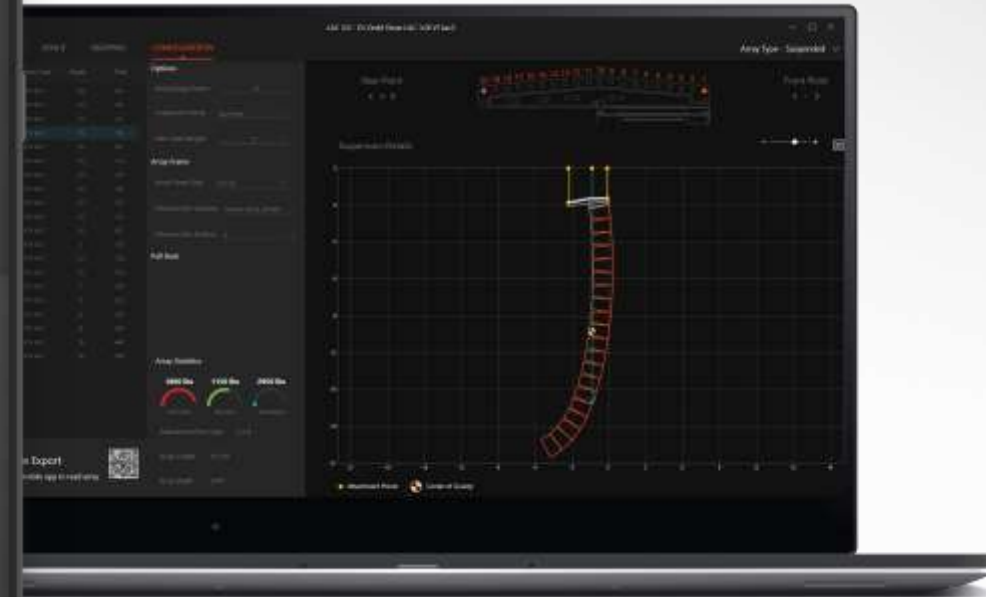
- Support for distributed subwoofer arrays
- Cardioid coverage analysis
- Delay calculator for Electronic Delay Steering (EDS)



- Coverage **without** delays



- Coverage **with** delays



- Mobile app for iOS and Android
- Rigging information including:
  - Array size and location
  - Box-to-box angles
  - Array frame position and parameters
  - Array weight





# PERFORMANCE

## SYSTEM CONTROL

- System control for SRX900 products
- Simple drag-and-drop interface
- Step-by-step guided workflow
- Automated grouping functionality
- Easy preset management
- Robust device discovery
- Easy networking
- Integrated NetSetter functionality





# PERFORMANCE

## CROSS PLATFORM

- Windows 10
- Windows 11
- iPad OS
- macOS



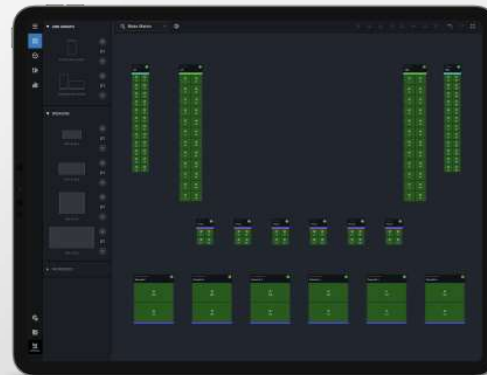


# PERFORMANCE



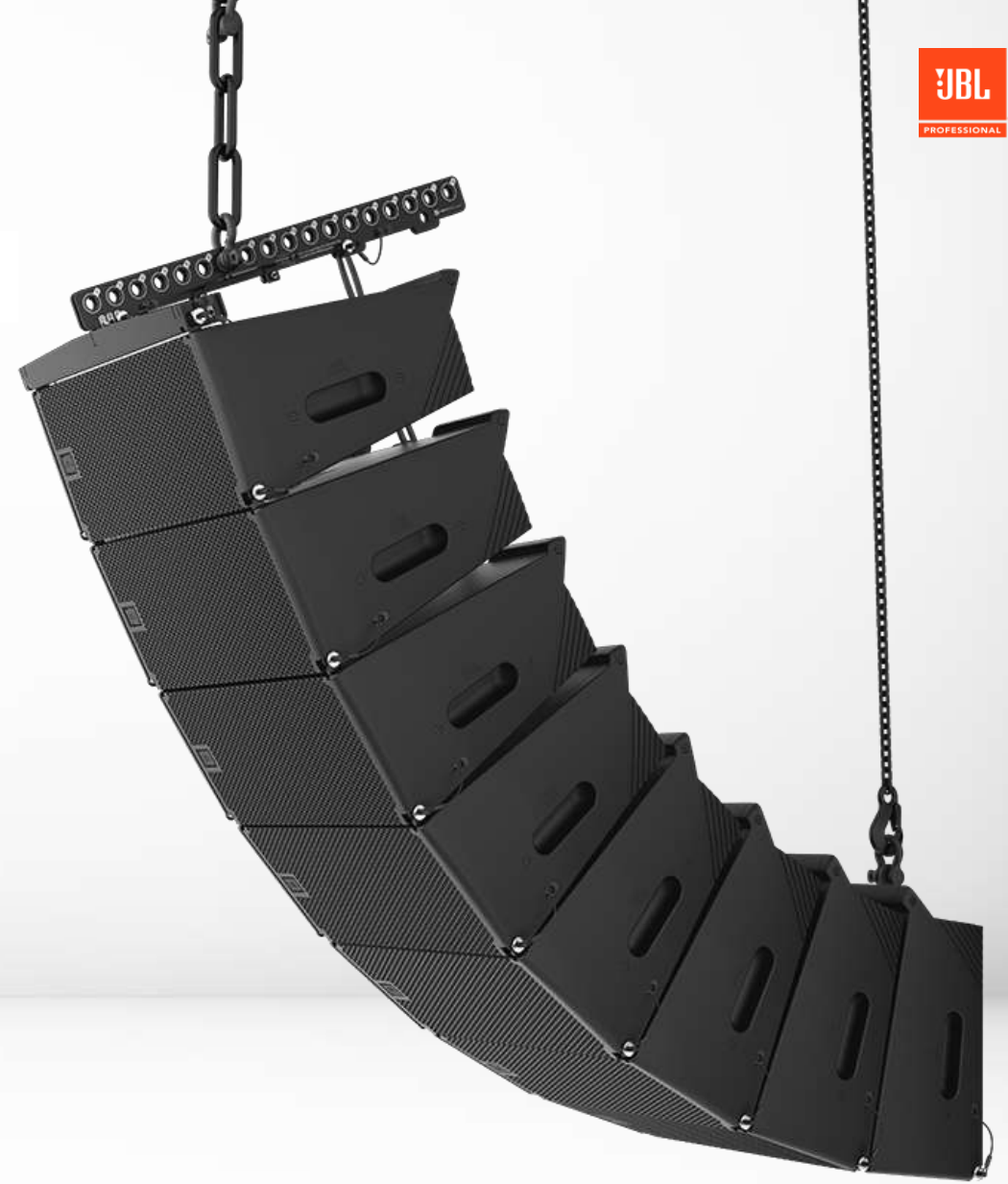
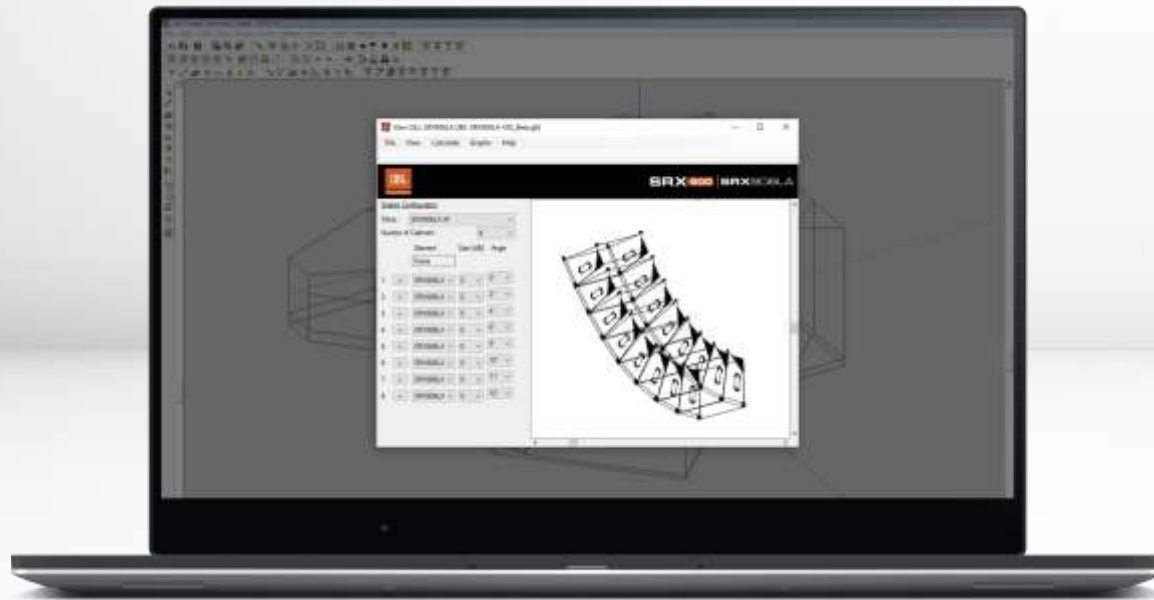
## NETWORKING

- New HControl connectivity
- Optimized for DHCP mode
- Easy device discovery and connectivity
- Confirmation based communication



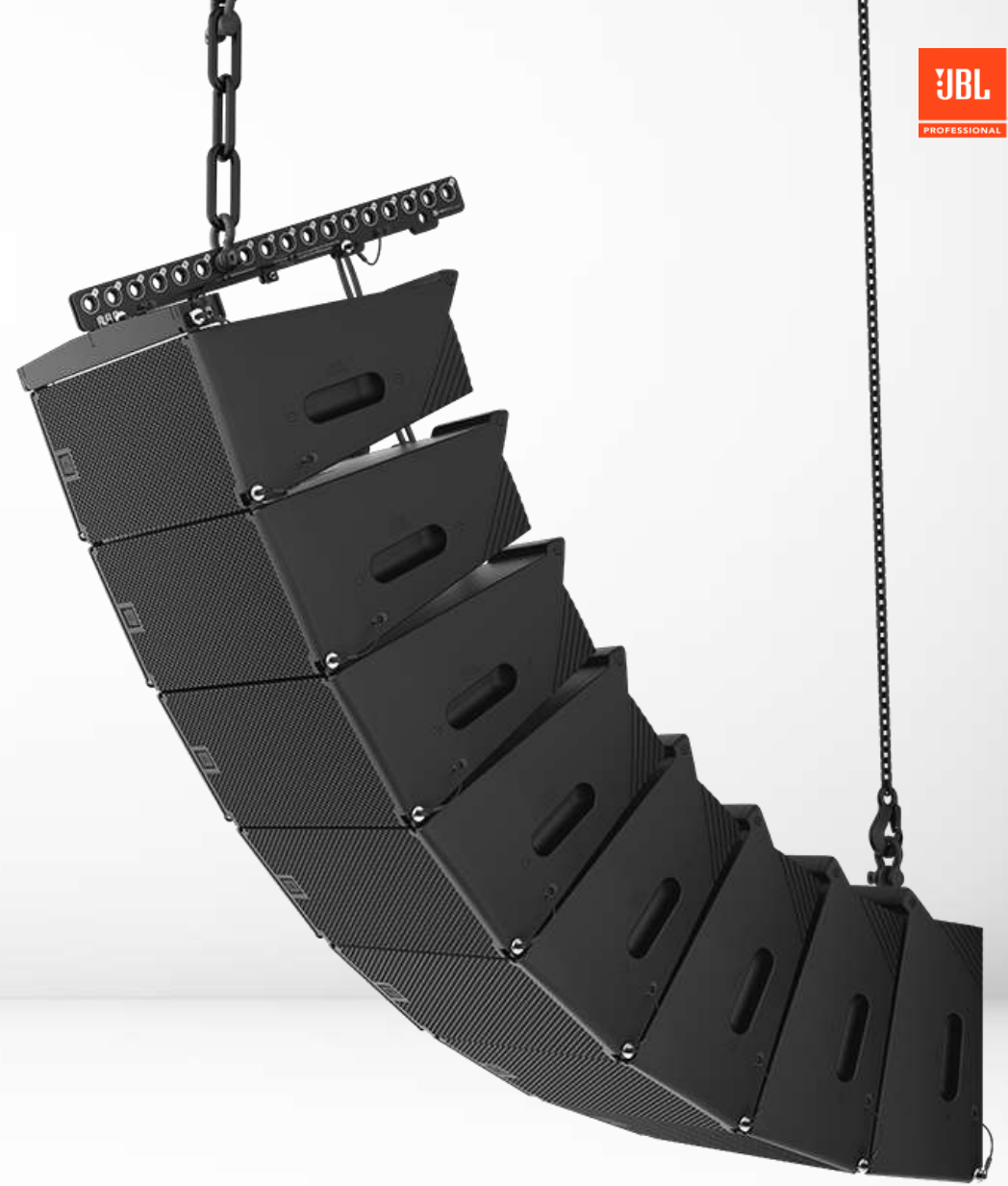
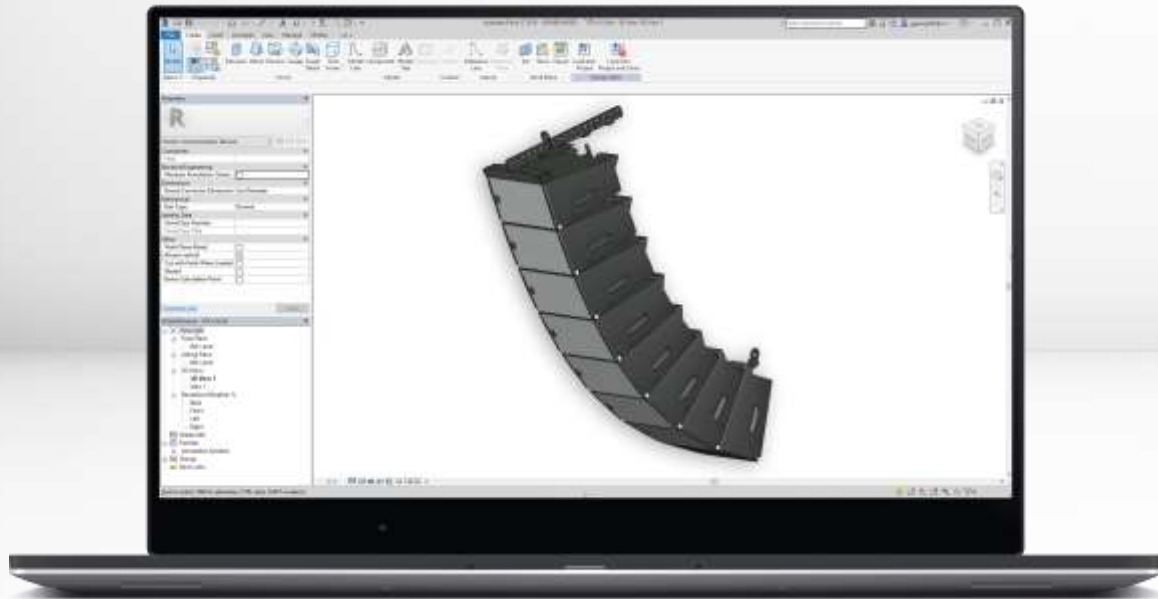


- Support for AFMG EASE
- GLL files available for SRX906LA and SRX910LA





- 2D/3D design files available for all popular platforms
- Library includes individual components and complete assemblies





THANKYOU