

LA SERIES

LINE ARRAY SYSTEMS

OVERVIEW

The LA series line-array systems were developed and produced by NEXT to deliver unprecedented performance in applications ranging from live reinforcement, arenas, and stadiums to big discos, theatres and houses of worship.

Very high quality speakers from the best European manufacturers, and cabinets designed following intensive audio research, are the keys to the outstanding audio performance.

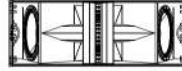
Quality construction is assured by our computer controlled production facility based in Portugal where skilled technicians control all the production stages.

Common to all the elements are: the ICWG (isophasic cylindrical wave generator), the Baltic birch plywood enclosures finished in durable black semi-matt textured paint, the heavyduty power coated steel grilles, the fast integral rigging system and the Neutrik NL4 or NL8 connectors.

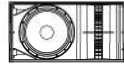


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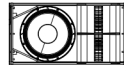
04 **LA212Xv2**
3-Way Fully Horn Loaded
Line Array Element



06 **LA122**
2-Way Compact
Line Array Element



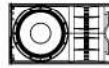
06 **LA122W**
2-Way Compact Wide
Line Array Element



07 **LA122A**
Active 2-Way Compact
Line Array Element



07 **LA122WA**
Active 2-Way Compact Wide
Line Array Element

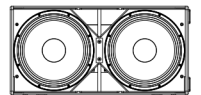


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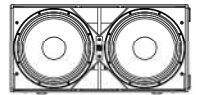
08 **LAs118A**
Active Hybrid-Horn
Arrayable Subwoofer



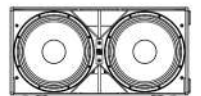
08 **LAs418A**
Active Double Bass
Reflex Subwoofer



08 **LAs418**
Double Bass
Reflex Subwoofer



08 **LAs418G**
Double Bass Ground Stack
Reflex Subwoofer



LA212Xv2

3-Way Fully Horn Loaded Line Array Element

- | Fully horn-loaded, axially symmetric, Line array
- | Extreme SPL and throw capability
- | Uniform dispersion and great coverage control
- | Horizontal Coverage maintained down to 280 Hz
- | Easy and fast rigging system with variable splay

The LA212Xv2 is a 3-Way fully horn-loaded, axially symmetric, line array element, capable of producing crystal clear, detailed and extremely powerful audio performance over distance, with an exceptional 90° horizontal constant dispersion control. Being completely symmetric this line array is capable of generating virtually identical acoustic sound patterns on the right and left which allows for an easy, accurate and symmetric alignment.

It incorporates a number of technologies to produce a coherent vertical wave front, extreme sound pressure levels with exceptional accuracy and specially consistent horizontal coverage over a wide frequency range, kept down to 280 Hz. Maintaining directionality control over this wide bandwidth raises the ratio of direct-to-reflected energy, thereby increasing system intelligibility.

The bass section makes use of two 12 inch speakers with 3 inch voice coils strategically placed on either side of the speaker in a dipolar horn arrangement.

The also horn-loaded mid and high frequency sections are coaxially mounted in the center of the cabinet, dramatically extending lower vocal directivity control and providing extremely smooth mid/high transition.

The generously dimensioned mid frequency horn uses a 10 inch driver, while the high frequency section consists of two 1.4 inch exit HF compression drivers with 3 inch voice coils mounted to a dedicated wave-shaping device. To preserve the acoustical integrity and the natural warmth, all the horns, wave guides and phase correctors are made of low resonance plywood or acoustically neutral polymers.

The speaker transducers employed are exclusively made by the reference european manufacturer B&C. The LA212X cabinet is constructed from genuine Baltic birch plywood and has a black textured finish. The front of the loudspeaker cabinet is protected by a rigid metal grill and the side and rear panels incorporate four handles. Two Neutrik NL8 connectors wired in parallel are mounted at the rear.



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The Low Frequency Section consists on two 12" neodymium low frequency drivers that are loaded by two proprietary hybrid-horns. The horn mouths are horizontally separated by a "tuned" distance that uses the Tuned Dipolar Array (TDA) effect to achieve an exceptional low frequency horizontal dispersion control with the nominal angle being maintained down to 250Hz. With TDA effect is possible to keep the LF signals away from the stage revealing it to be more immune to low frequencies feedback.

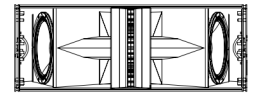
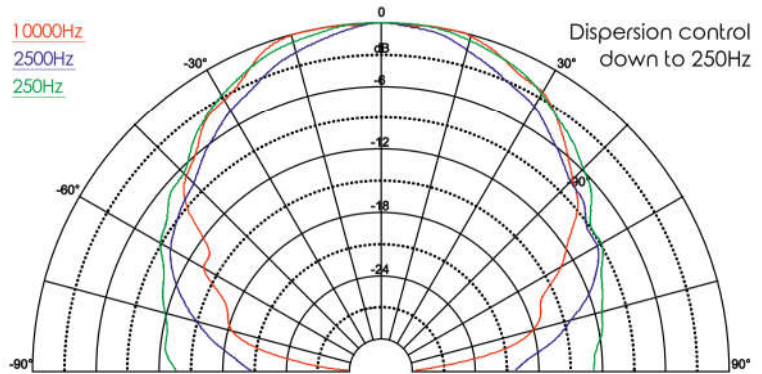
The Mid Frequency Section is equipped with one high-performance 10" speaker, mounted coaxially behind the HF drivers, loaded by a, mathematically complex, directivity control device that cleverly eliminates the HF section acoustic shadow.

To couple the mid frequencies, reproduced by the 10", NEXT-proaudio developed a proprietary WAVE SPLITTER device. The device splits the generated wave into two smaller waves that coherently couples on the vertical plane. As the summation is much more perfect, the Line Source behavior is effective down to lower frequencies.

In addition, the LA212Xv2 mid frequency section employs a Correction Phase Device (CPD) which equalizes speaker's cone acoustical path lengths and thereby minimizes HF cancelations and distortion. The CPD and the associated horn are optimized to create a high compression ratio which rises conversion efficiency to reach an incredible output sensitivity.

The High Frequency Section is composed by two 1.4" HF neodymium compression drivers mounted on a dedicated wave shaping device.

Knowing that our ear is particularly sensitive to detail on mid/high frequencies, NEXT-proaudio was highly focused in optimizing the HF section. This unit was carefully designed to precisely match all the path lengths from the throat to the mouth of the device. The generated sound wave has a flat and isophasic wavefront that meets a diffraction slot which maintains a constant horizontal directivity. By vertically limiting and spreading on the horizontal plane, the LA212Xv2, creates a cylindrical wave with minimal lobing when coupling with other units.



LA212Xv2

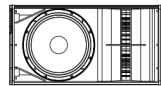
SPEAKER TYPE	Horn-Loaded 3-Way Line Array Element
FREQ. RESPONSE (-6dB)	60Hz - 19.000Hz
SENSITIVITY (1W@1m)	LF: 106dB (Full-Space) MF: 112dB (Full-Space) HF: 114.5dB (Full-Space)
Calculated Max. SPL (Continuous/Peak)	LF: 138dB/144dB (Full-Space) MF: 139dB/145dB (Full-Space) HF: 138dB/144dB (Full-Space)
COVERAGE (HxV)	90° (Down to 280Hz) x 8°
DRIVERS	LF: 2 x 12" (300mm)/3" (76mm) VC, Neodymium, B&C custom speaker MF: 1 x 10" (250mm)/2.5" (65mm) VC, B&C custom speaker HF: 2 x 1.4" (36mm) exit/3" (75mm) VC, B&C custom compression driver
POWER (Program/Peak)	LF: 1600W/3200W (10ms) MF: 500W/1000W (10ms) HF: 440W/880W (10ms)
NOMINAL IMPEDANCE	LF: 2 x 8Ω MF: 16Ω HF: 16Ω
CROSSOVER (Frequency/Type)	LF to MF: 350Hz Linkwitz-Riley 24dB/oct MF to HF: 1050Hz Linkwitz-Riley 48dB/oct
RECOMMENDED HPF	75Hz, 24dB/oct Linkwitz-Riley
CONNECTORS	2 x Neutrik NL8
CONSTRUCTION	15mm multi-laminate birch plywood
FINISH	Textured black semi-matte coating
PROTECTIVE GRILL	Black perforated steel
FITTINGS	Adjustable (0° to 8°) rigging system
HANDLES	1 on each side, 2 on the back
DIMENSIONS (WxHxD)	1020 x 380 x 501mm (40.16 x 14.96 x 19.72in)
WEIGHT	66kg (145.5lb)



LA122

2-Way Compact Line Array Element

- | Very smooth and clear sound
- | 12" and 2 x 1.4" neodymium drivers
- | Extremely smooth horizontal and vertical coverage
- | Extremely versatile
- | Integrated hardware for flying or ground stack



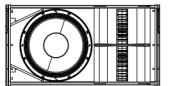
LA122

SPEAKER TYPE	Passive 2-Way Line Array Element
FREQ. RESPONSE (-6dB)	58Hz - 19.000Hz
SENSITIVITY (1W@1m)	LF: 100dB (Full-Space) HF: 108dB (Full-Space)
Calculated Max. SPL (Continuous/Peak)	LF: 129dB/135dB (Full-Space) HF: 133dB/139dB (Full-Space)
COVERAGE (HxV)	90° x 8°
DRIVERS	LF: 1 x 12" (300mm)/3" (76mm) VC, Neodymium, B&C custom speaker HF: 2 x 1.4" (36mm) exit/2.5" (65mm) VC, B&C custom compression driver
POWER (Program/Peak)	LF: 800W/1600W (10ms) HF: 320W/640W (10ms)
NOMINAL IMPEDANCE	LF: 8Ω HF: 16Ω
CROSSOVER (Frequency/Type)	1150Hz Linkwitz/Riley 48dB/oct
RECOMMENDED HPF	45Hz, 18dB/oct Butterworth
CONNECTORS	2 x Neutrik NL4
CONSTRUCTION	15mm multi-laminate birch plywood
FINISH	Semi-Matte Black Textured Coating
PROTECTIVE GRILL	Black Perforated Steel
FITTINGS	Adjustable (0° to 8°) rigging system
HANDLES	1 on each side
DIMENSIONS (WxHxD)	677 x 350 x 450mm (26.65 x 13.78 x 17.72in)
WEIGHT	32.8kg (72.31lb)

LA122W

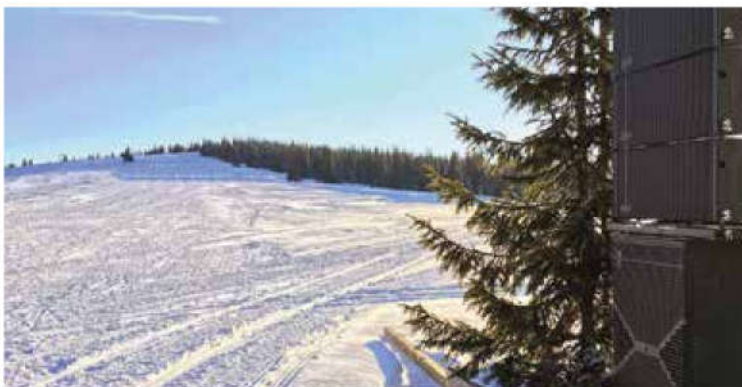
2-Way Compact Wide Line Array Element

- | Wide dispersion (120° x 15°)
- | Very smooth and clear sound
- | 1 x 12" and 2 x 1.4" neodymium drivers
- | Extremely smooth horizontal and vertical coverage
- | Integrated hardware for flying or ground stack



LA122W

SPEAKER TYPE	Passive 2-Way Wide Line Array Element
FREQ. RESPONSE (-6dB)	58Hz - 19.000Hz
SENSITIVITY (1W@1m)	LF: 100dB (Full-Space) HF: 108dB (Full-Space)
Calculated Max. SPL (Continuous/Peak)	LF: 129dB/135dB (Full-Space) HF: 133dB/139dB (Full-Space)
COVERAGE (HxV)	120° x 15°
DRIVERS	LF: 1 x 12" (300mm)/3" (76mm) VC, Neodymium, B&C custom speaker HF: 2 x 1.4" (36mm) exit/2.5" (65mm) VC, B&C custom compression driver
POWER (Program/Peak)	LF: 800W/1600W (10ms) HF: 320W/640W (10ms)
NOMINAL IMPEDANCE	LF: 8Ω HF: 16Ω
CROSSOVER (Frequency/Type)	1150Hz Linkwitz/Riley 48dB/oct
RECOMMENDED HPF	45Hz, 18dB/oct Butterworth
CONNECTORS	2 x Neutrik NL4
CONSTRUCTION	15mm multi-laminate birch plywood
FINISH	Semi-Matte Black Textured Coating
PROTECTIVE GRILL	Black Perforated Steel
FITTINGS	15° rigging system
HANDLES	1 on each side
DIMENSIONS (WxHxD)	677 x 353 x 450mm (26.65 x 13.9 x 17.72in)
WEIGHT	31.4kg (69.23lb)



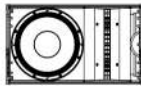
LA SERIES

LINE ARRAY SYSTEMS

LA122A

Active 2-Way Compact Line Array Element

- | 2200Wprg, 2-Way amplification
- | Small, Versatile, Loud
- | 90° x 8° (120° x 8° optionally) Coverage
- | 12" and 2 x 1.4" neodymium drivers
- | Integrated hardware for flying or ground stack



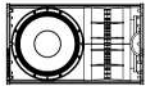
LA122A

SPEAKER TYPE	Active 2-Way Line Array Element
FREQ. RESPONSE (-6dB)	58Hz - 19.000Hz
Calculated Max. SPL (Continuous/Peak)	129dB/135dB (Full-Space)
COVERAGE (HxV)	90° x 8° or 120° x 8° with optional accessory
DRIVERS	LF: 1 x 12" (300mm), 3" (76mm) VC, Neodymium, B&C custom speaker HF: 2 x 1.4" (36mm) exit, 2.5" (65mm) VC, B&C custom compression driver
AMPLIFIER TECHNOLOGY	2 channel switched mode class D with DSP
SECTION POWER (RMS/Program/Peak)	LF: 1100W/1480W/2960W HF: 550W/740W/1480W
CONTROLLER	PC controlled Networkable DSP 24bit/48kHz
SYSTEM PRESETS	6 Factory and 2 User, selectable via software or rear panel switch
PC CONTROL	Via RS485 and supplied software "SOUNDWARE"
DSP ADJUSTABLE PARAMETERS	6 PEQ, Delay, HPF, LPF, Bass Enhancer, Level, Polarity, Mute
OPERATING VOLTAGE	180V - 245VAC
POWER CONSUMPTION	770W
CONNECTORS	Signal: 2 x XLR ; Power: 2 x powerCON
DIMENSIONS (WxHxD)	602 x 350 x 465mm (23.7 x 13.78 x 18.31in)
WEIGHT	36kg (79.37lb)

LA122WA

Active 2-Way Compact Wide Line Array Element

- | 2200Wprg, 2-Way amplification
- | Small, Versatile, Loud
- | Precise wide coverage (120° x 15°)
- | Very smooth and clear sound
- | 12" and 2 x 1.4" neodymium drivers



LA122WA

SPEAKER TYPE	Active 2-Way Line Array Element
FREQ. RESPONSE (-6dB)	58Hz - 19.000Hz
Calculated Max. SPL (Continuous/Peak)	128.5dB/134.5dB (Full-Space)
COVERAGE (HxV)	120° x 15°
DRIVERS	LF: 1 x 12" (300mm), 3" (76mm) VC, Neodymium, B&C custom speaker HF: 2 x 1.4" (36mm) exit, 2.5" (65mm) VC, B&C custom compression driver
AMPLIFIER TECHNOLOGY	2 channel switched mode class D with DSP
SECTION POWER (RMS/Program/Peak)	LF: 1100W/1480W/2960W HF: 550W/740W/1480W
CONTROLLER	PC controlled Networkable DSP 24bit/48kHz
SYSTEM PRESETS	6 Factory and 2 User, selectable via software or rear panel switch
PC CONTROL	Via RS485 and supplied software "SOUNDWARE"
DSP ADJUSTABLE PARAMETERS	6 PEQ, Delay, HPF, LPF, Bass Enhancer, Level, Polarity, Mute
OPERATING VOLTAGE	180V - 245VAC
POWER CONSUMPTION	770W
CONNECTORS	Signal: 2 x XLR ; Power: 2 x powerCON
DIMENSIONS (WxHxD)	602 x 350 x 465mm (23.7 x 13.78 x 18.31in)
WEIGHT	35.6kg (78.48lb)



LA s118A

Active Hybrid-Horn Arrayable Subwoofer

- | 2960W prg amplification
- | Small, Versatile, Loud
- | Superior bass impact thanks to horn design
- | Fast, simple Integrated Rigging hardware
- | High SPL and low distortion



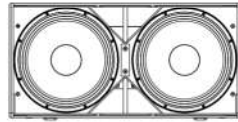
LA s118A

SPEAKER TYPE	Active Hybrid-Horn Subwoofer
FREQ. RESPONSE (-6dB)	38Hz - 160Hz
SENSITIVITY (1W@1m)	-
Calculated Max. SPL (Continuous/Peak)	132.5dB/138.5dB (Half-space)
DRIVERS	LF: 1 x 18" (460mm), 4" (100mm) VC, B&C custom speaker
AMPLIFIER TECHNOLOGY	Switched mode class D with DSP
SECTION POWER (RMS/Program/Peak)	LF: 2200W/2960W/5920W
CONTROLLER	PC controlled Networkable DSP 24bit/48kHz
SYSTEM PRESETS	6 Factory and 2 User, selectable via software or rear panel switch
PC CONTROL	Via RS485 and supplied software "SOUNDWARE"
DSP ADJUSTABLE PARAMETERS	6 PEQ, Delay, HPF, LPF, Bass Enhancer, Level, Polarity, Mute
OPERATING VOLTAGE	180V - 245VAC
POWER CONSUMPTION	770W
CONNECTORS	Signal: 2 x XLR ; Power: 2 x powerCON
DIMENSIONS (WxHxD)	602 x 664 x 750mm (23.7 x 26.14 x 29.53in)
WEIGHT	67.3kg (148.37lb)

LA s418A

Active Double Bass Reflex Subwoofer

- | Dual long excursion 18" speaker
- | High dynamic and extended response
- | PFC Switched Mode Power Supply
- | Large port areas for reduced distortion
- | 24bit/96kHz Digital Signal Processor



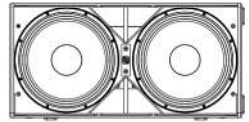
LA s418A

SPEAKER TYPE	Active High Power Reflex Subwoofer
FREQ. RESPONSE (-6dB)	28Hz - 250Hz
SENSITIVITY (1W@1m)	-
Calculated Max. SPL (Continuous/Peak)	141dB/143dB (Half-space)
DRIVERS	LF: 2 x 18" (460mm)/4"(100mm) VC, high excursion, B&C custom speaker
AMPLIFIER TECHNOLOGY	PFC switched mode class D with DSP
SECTION POWER (RMS/Program/Peak)	LF: 4000W/5650W/8000W
CONTROLLER	PC controlled Networkable DSP 24bit/96kHz
SYSTEM PRESETS	6 Factory and 2 User, selectable via software or rear panel switch
PC CONTROL	Via RS485 and supplied software "SOUNDWARE"
DSP ADJUSTABLE PARAMETERS	10 PEQ, Delay, HPF, LPF, Level, Polarity, Mute
OPERATING VOLTAGE	90V - 260VAC
POWER CONSUMPTION	1150W
CONNECTORS	Signal: 2 x XLR ; Power: 2 x powerCON ; Control: USB
DIMENSIONS (WxHxD)	1030 x 516 x 920mm (40.55 x 20.31 x 36.22in)
WEIGHT	89kg (196.21lb)

LA s418[G]

Double Bass [Ground Stack] Reflex Subwoofer

- | Dual very long excursion 18" speakers
- | Optionally arrayable
- | High maximum pressure
- | High dynamic and extended response
- | Large port areas for reduced distortion



LA s418[G]

SPEAKER TYPE	Passive Very High Power [Ground Stack] Reflex Subwoofer
FREQ. RESPONSE (-6dB)	28Hz - 250Hz
SENSITIVITY (1W@1m)	109dB (Half-space)
Calculated Max. SPL (Continuous/Peak)	143.8dB/149.8dB (Half-space)
DRIVERS	2 x 18" (460mm)/4.5" (116mm) VC, very high excursion, B&C custom speaker
POWER (Program/Peak)	6000W/12000W (10ms)
NOMINAL IMPEDANCE	2 x 8Ω (also available 2 x 4Ω)
CROSSOVER (Frequency, Type)	80Hz to 180Hz / 24dB/oct Linkwitz/Riley (recommended)
REC. AMPLIFIER	MA3800, MA6000, MD14000
RECOMMENDED HPF	28Hz, 18dB/oct Butterworth
CONNECTORS	2 x Neutrik NL4 on back + 1 x Neutrik NL4 on front, parallel wired
FITTINGS	16 x M8 threaded inserts for optional wheel kit, 8 replaceable feet, 20 x M8 threaded inserts for optional rigging system (only available on LA s418)
DIMENSIONS (WxHxD)	1030 x 516 x 920mm (40.55 x 20.31 x 36.22in)
WEIGHT	94kg [207.23lb] [90kg [198.42lb]]

