

NX L23-A

ACTIVE LINE ARRAY MODULE



The NX L23-A is a self-powered, compact, 12" two-way line-array module designed for use in arrays of up to eight units. The exceptionally compact enclosure enables sound designers to achieve high output, precise pattern control with very low distortion from a lightweight and unobtrusive system. The NX L23-A provides a substantial peak SPL of 133 dB at 1 meter with an operating frequency range of 60 Hz to 20 kHz and is designed specifically for implementing vertical curvilinear arrays having 0- to 15-degree splay between adjacent units. This design affords the flexibility to tailor vertical coverage by varying the number and splay of cabinets in the array while maintaining a consistent 100° horizontal coverage.

NX L23-A is the ideal choice when line-array performance is needed but the venue size doesn't call for the very long-throw characteristics of larger line-arrays and a fast and easy setup is necessary.

The three vertically aligned 1" neodymium, 1,75" voice coil, compression drivers act as a small line array, focusing the sound into a tight vertical coverage pattern while the constant-directivity horn maintains broad horizontal coverage.

A robust 3,5" voice coil, 12-inch neodymium woofer in a vented enclosure reproduces low-mid frequencies.

All is driven by a multichannel RCF Class-D digital power amplifier with a fully featured input section, providing user selectable system cluster size setup, HF boost switch, protection, crossover functionality, dynamic limiting and discrete component optimization.

Total RMS power output is 750 watts. Phase-corrected electronics assure flat phase and amplitude response, resulting in exceptional system impulse response and precise imaging.

The enclosure is constructed of quality plywood. The front grille is lined with an acoustically transparent foam to provide additional driver protection and for pleasing aesthetics.

The amplifier input panel offers XLR or ¼ inch jack compatibility which provides extra flexibility, making it possible to connect any sound source. Signal present and overload lights indicate the system status and assist in setting the optimum level, via the level control knob.

One or two NX L23-A may be used on a tripod or over subwoofers. The integrated rigging hardware is used to securely lock the array together and suspended applications require the optional array frame (available separately).

APPLICATIONS

- Live sound
- Music playback and sound reinforcement in small and mid-size venues.
- Corporate A/V professionals and sound system hire companies.
- Portable PA, clubs, ballrooms, corporate AV, live theatre, houses of worship, theme parks

FEATURES

- Line array design
- Variable curvature angles
- 3 x 1,75" voice coil, 1" neodymium compression driver
- 3,5" voice coil, 12" neodymium woofer
- 90°x15° constant directivity coverage angle
- 750W digital amplifier: lightweight, compact, multi channel
- High quality analog input board, crossover, dynamic limiting, transducers protection
- Cluster size setup, HF boost switch
- Professional XLR line and ¼" inputs (Combo) with loop through
- Powercon Input/Output

ACOUSTICAL SPECIFICATIONS

Frequency response:	60 Hz- 20 KHz
Max SPL:	133 dB
Horizontal coverage angle:	100°
Vertical coverage angle:	15° max, depending on config
Compression driver:	3 x 1.0" neo, 44 mm voice coil
Midrange:	-
Woofer:	12" neo, 89 mm voice coil

INPUT SECTION

Input connector:	combo xlr-jack/xlr
Output connector:	xlr
Input sensitivity:	-2 dBu / +4 dBu

PROCESSOR SECTION

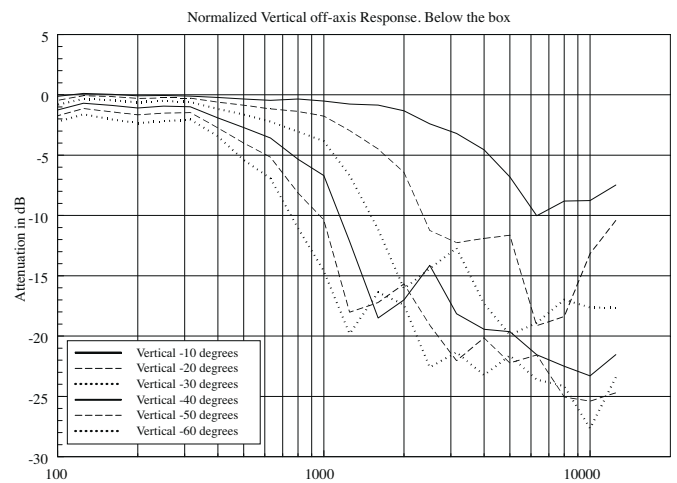
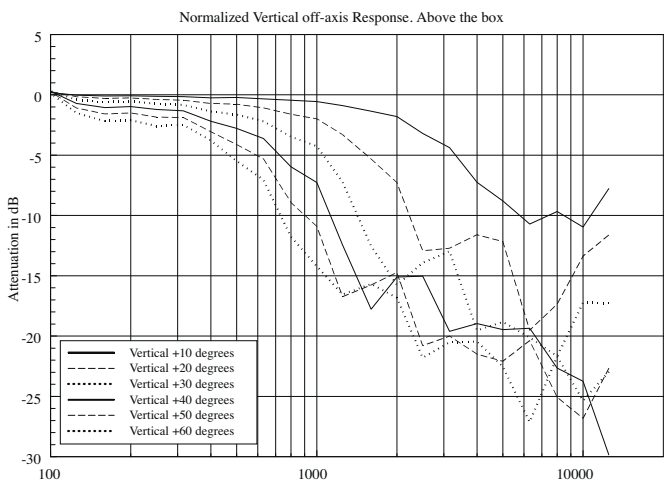
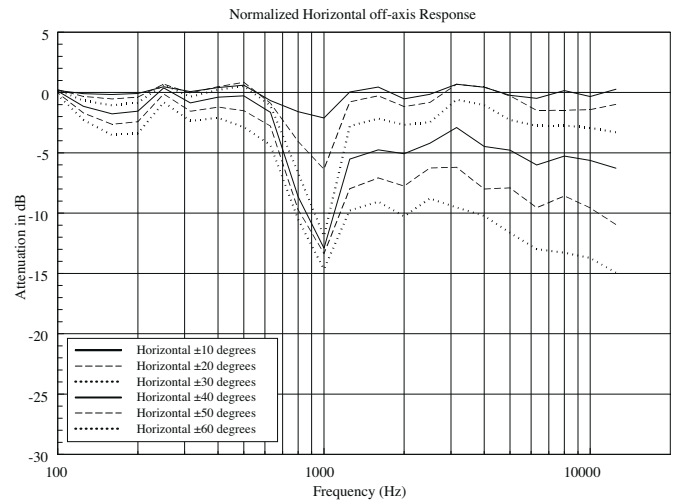
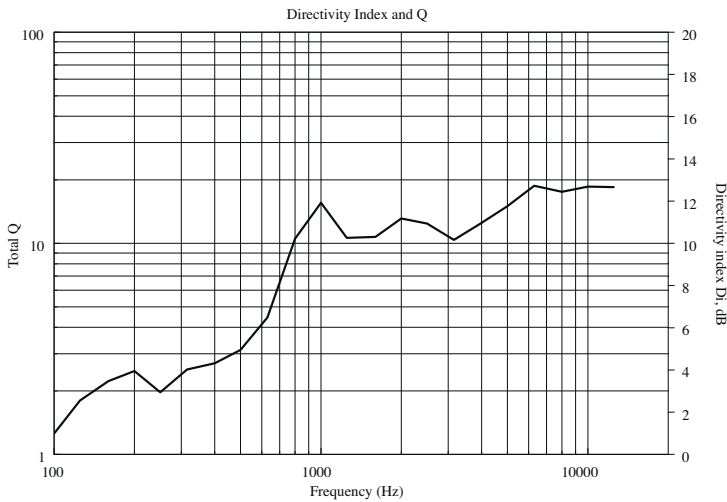
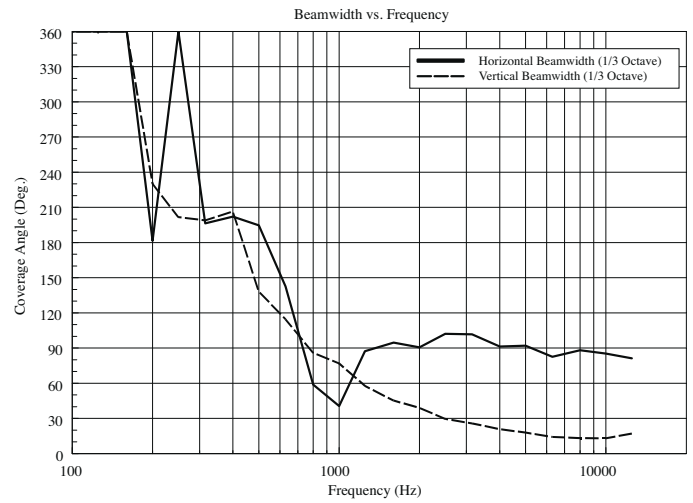
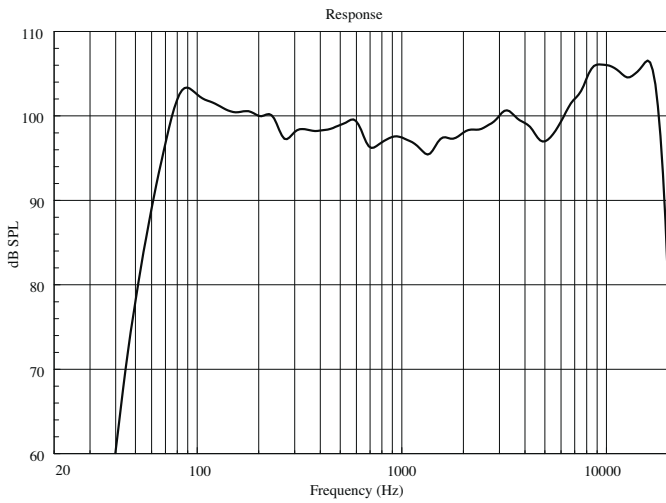
Crossover frequencies:	1300 Hz
Protections:	thermal, rms
Limiters:	soft peak limiter
Controls:	volume, hf correction, cluster size

AMPLIFIER

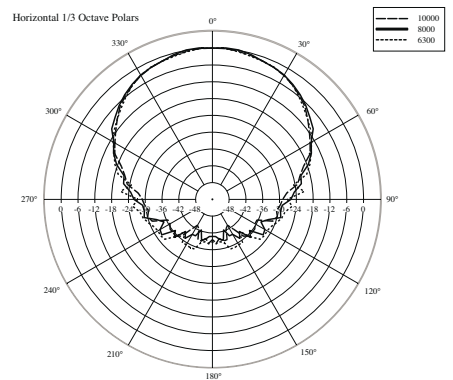
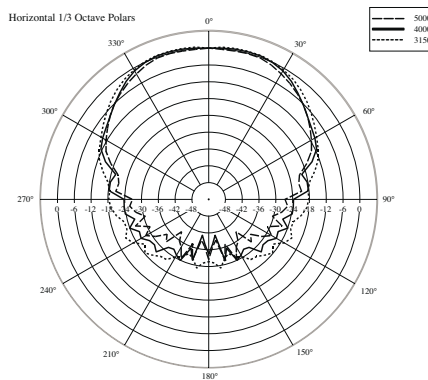
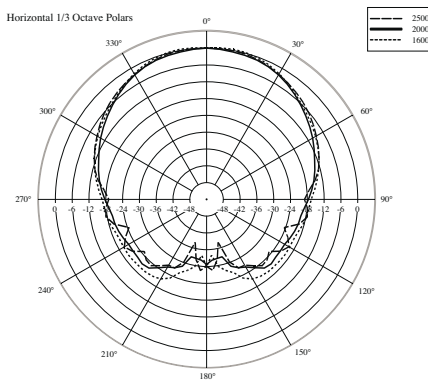
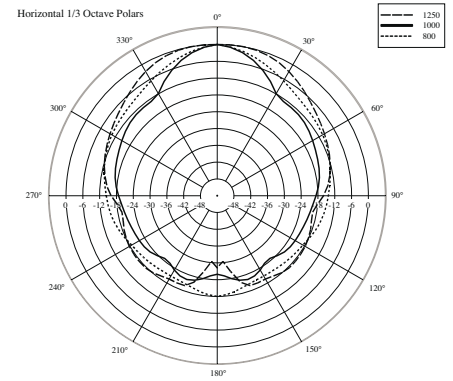
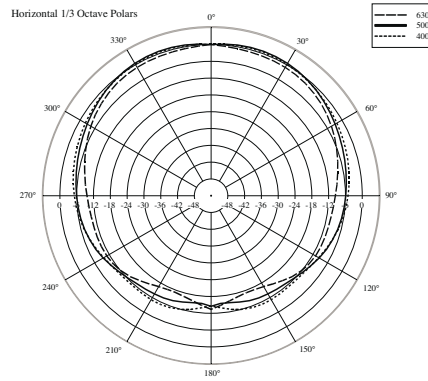
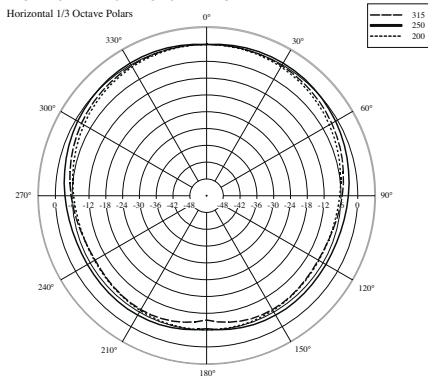
Power supply:	750 Watt
High frequencies:	250 Watt
Mid frequencies:	-
Low frequencies:	500 Watt
Cooling:	convection/forced
Connection:	powercon in/out

PHYSICAL

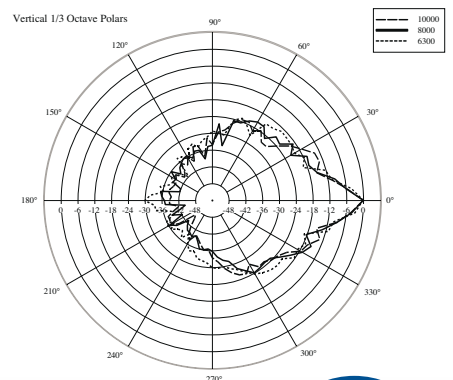
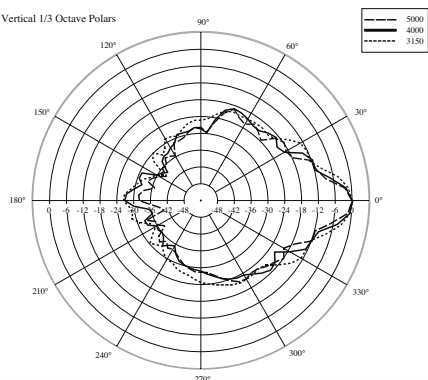
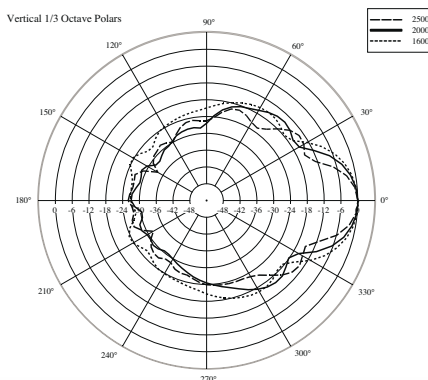
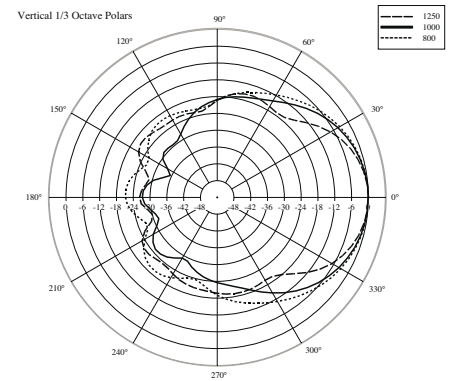
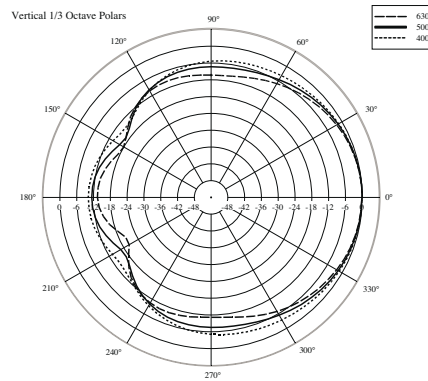
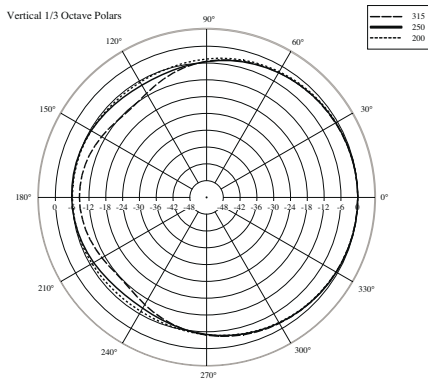
Height:	346 mm (13.62")
Width:	659 mm (25.94")
Depth:	415 mm (16.33")
Weight:	28.5 kg (62.83 lbs)
Cabinet:	baltic birch
Hardware:	array side fittings
Handles:	2 side
Pole mount cap	yes
Colour:	Black



Horizontal 1/3 Polar Plot



Vertical 1/3 Polar Plot



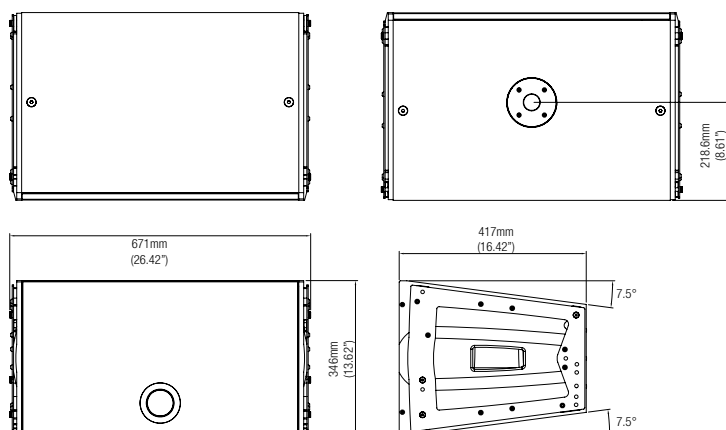
CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS
(ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications.
It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

- A. RCF, Via Raffaello 13, 42124, Reggio Emilia, Italy.
- B. Model number: NX L23-A



2.02 Design

Configuration:	Two way active speaker
LF Sub-section:	12" neodymium woofer, 89 mm voice coil
MR Sub-section:	-
HF Sub-section:	3 x 1,0" neodymium, 44 mm voice coil

2.03 Acoustical Proprieties

Nominal dispersion angle:	100° x 15°
Axial frequency range:	60Hz-20kHz

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	Array side fittings
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Combo xlr-jack
Dimensions (H x W x D):	346 x 659 x 415 mm (13.62" x 25.94" x 16.33")
Weight:	28.5 kg (62.83 lbs.)

2.05 Accessories

AC S260	Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm. Load capacity up to 60kg, Weight 7.8 Kg, H MIN/MAX 170cm/240cm. Length once folded 123cm
AC S140	Aluminium speaker floor stand with folding base and telescopic rod, tube diameter 35mm. Load capacity up to 40kg, Weight 2.7 Kg, H MIN/MAX 140cm/214cm. Length once folded 107cm
AC PRO-FS	Steel speaker floor stand with folding base and telescopic rod, tube diameter 35mm. Load capacity up to 50kg, Weight 4.5 Kg, H MIN/MAX 137cm/210cm. Length once folded 102cm
AC PRO-LF	Steel professional adapter sleeve for speaker floor stand, tube diameter 35mm. Load capacity up to 50kg, Weight 0.7 Kg, H 27.5cm.
AC PRO-PM	Steel pole mount accessory for a satellite speaker on a subwoofer, tube diameter 35 mm. Load capacity up to 35Kg, Weight 2.4 Kg, H MIN/MAX 95cm/137cm
AC DS4X	Kit including No. 4 double stud track connector with ring
AC PMA	Speaker pole mount
FLY BAR NX L23-A	Suspending bar for array system NX L23-A
AC QL-PIN TTL31-A	4 quick lock pins for NX L23-A array system
STACK BAR NX L23-A	Accessory for NX L23-A for stacking option on sub NX S21-A, NX S25-A