

NXL24-A

ACTIVE TWO-WAY ARRAY



DESCRIPTION

The NXL 24-A is an active column speaker array system composed by 4 x 6" high power woofers and a 2.5" voice coil compression driver loaded from a waveguide on a 100° x 30° constant directivity horn.

This particular design permits coherent sound dispersion minimizing lobing in a very compact enclosure.

The wide coverage horizontal angle and the controlled vertical dispersion allow correct sound reproduction serving a wide area and assistance in limiting feedback and reverberated sound.

The amplifier delivers 1400 Watt and is controlled by a DSP that takes care of crossover, equalization, phase alignment, soft limiting and speaker protections. Equalizations are available to operate with a single column or in pairs.

At the core of NXL 24-A design is the new ND 640 compression driver loaded from a waveguide to a constant directivity 100° x 30° horn. The ND 640 large format compression driver is one of the key advantages of the NXL 24-A, the 2.5" voice coil allows a crossover point of 800Hz and therefore almost all of the vocal range can be produced by this driver. This allows better coverage and dispersion control, and superior efficiency.

All Compression drivers and Transducers are precision built taking advantage of RCF's superior moulding, assembly technologies and a wealth of professional knowledge and experience dedicated to achieving extremely high standards.

The NXL 24-A is powered by a 1400W peak power digital amplifier, split 400W for the HF and 1000W for the LF. A new generation DSP handles all the processing within the cabinet and allows adjustment for a single column application or HF close coupling application

NXL 24-A amplifier deliver ultra fast attack, realistic transient response and impressive audio performance.

It presents SMPS power supply section in order to produce maximum output and minimum transportation weight.

A useful Mic/Line switch to adjust the input sensitivity is provided. When used just for speech, the Mic setting allows to use a microphone directly with the speaker. Set the selector to Line when using the speaker for live music or playback.

An easy to reach volume knob on the back allows to set the overall volume of the speaker according to its application.

3 status LEDs – Power / Signal / Status are provided for monitoring the system.

Using its accessory is possible to fly 2 NXL 24-A in HF close coupling configuration with a choice of three possible angles (0°, 15°, 20°). It is also possible to pole mount the system and thanks to a second pole mount on top of the cabinet it is possible to couple two of them

The cabinet is equipped with four rubber protections and two aluminum side handles for rental use and easy transportation. NXL 24-A cabinets are in Baltic Birch Plywood enclosure with internal structural metal bracings offering the maximum reliability and strength for an intensive use.

MAIN APPLICATIONS

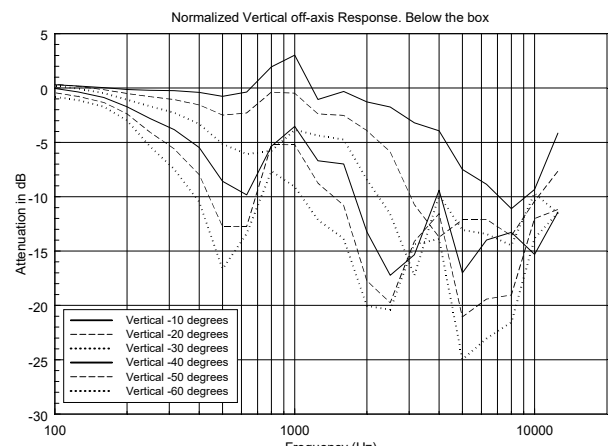
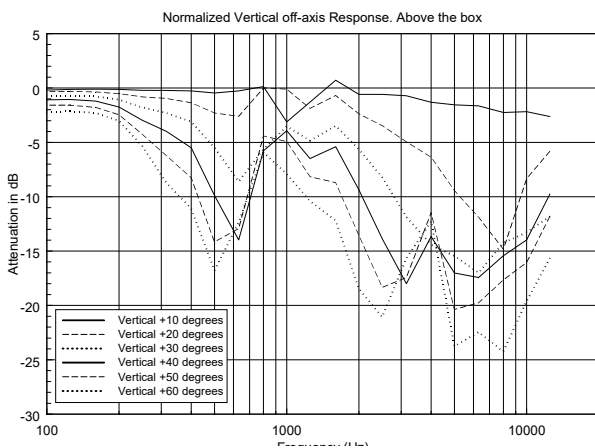
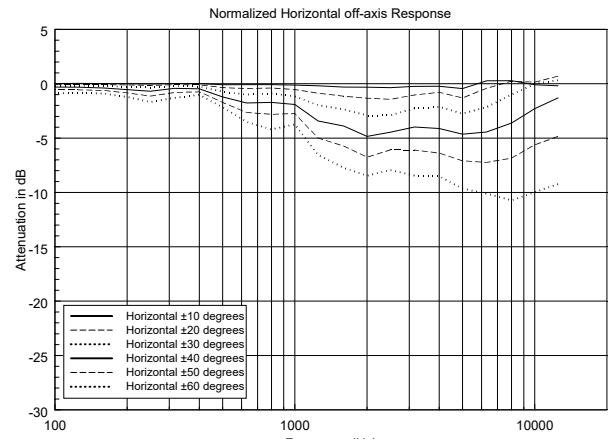
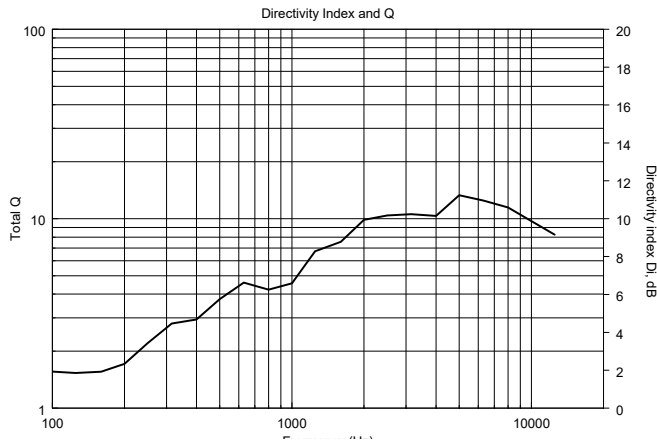
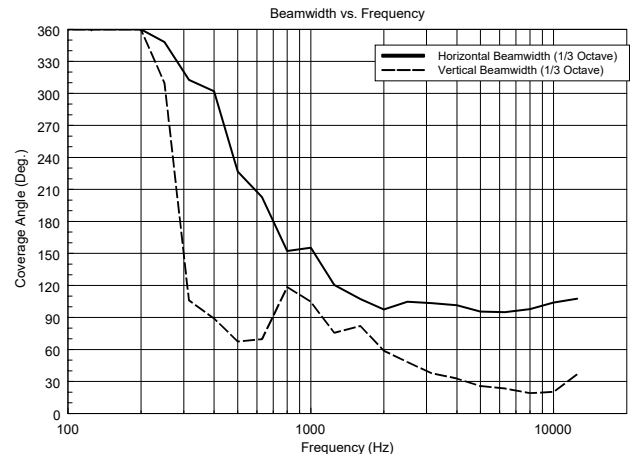
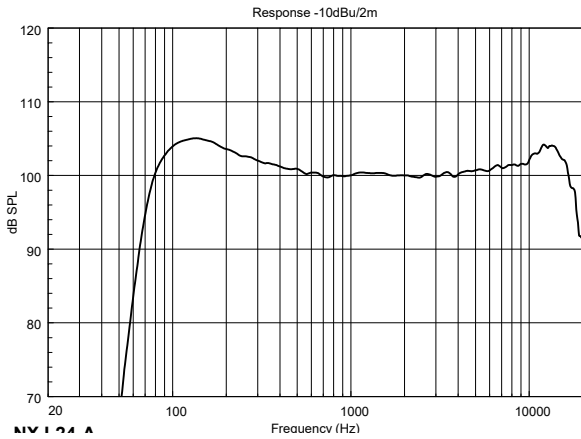
- Live Sound
- Portable PA
- Performance venues
- Houses of worship
- Voice reinforcement

MAIN FEATURES

- 1400 Watt
- 131 dB max SPL
- 65 Hz 20 kHz frequency response
- 4 x 6" Woofers
- 2.5" voice coil RCF Precision C. Driver on waveguide
- 100° x 30° slightly tilted pattern control
- DSP controlled Input section with single or dual eq. preset
- Pole mountable, Stackable, Flyable
- Baltic Birch Plywood enclosure with internal structural metal bracings

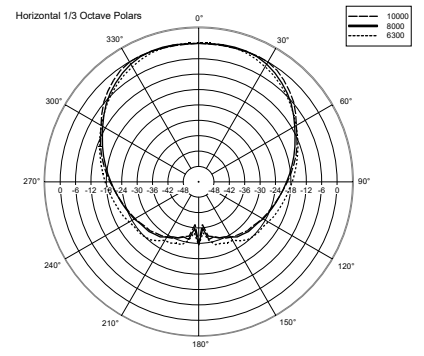
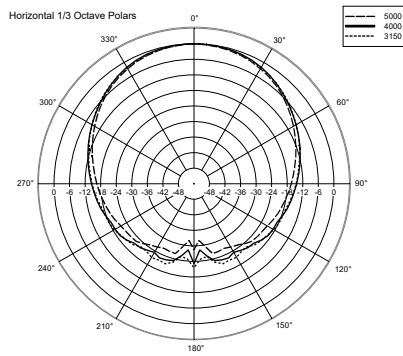
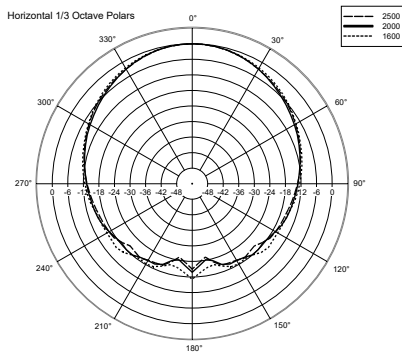
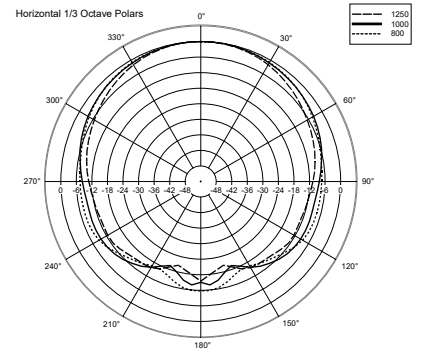
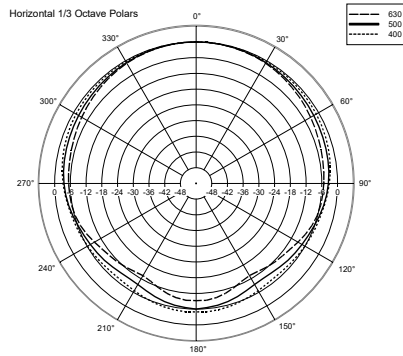
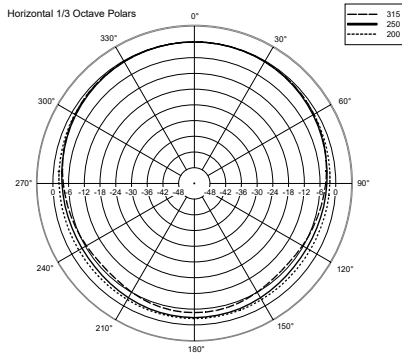


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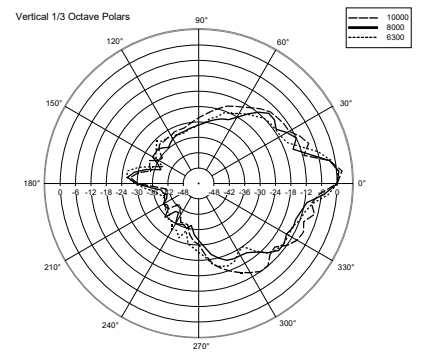
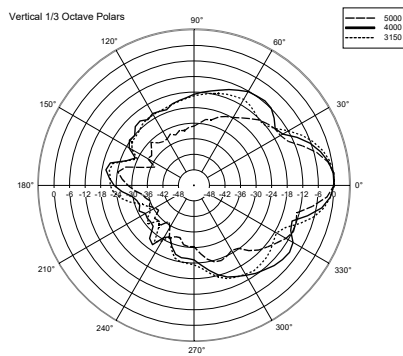
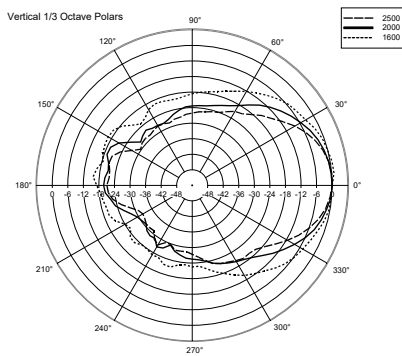
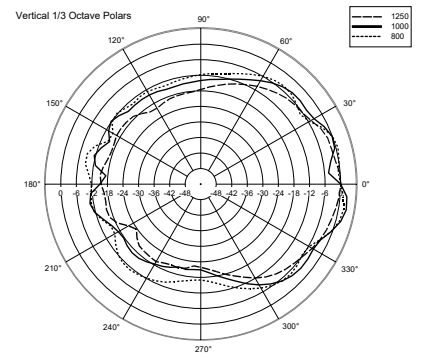
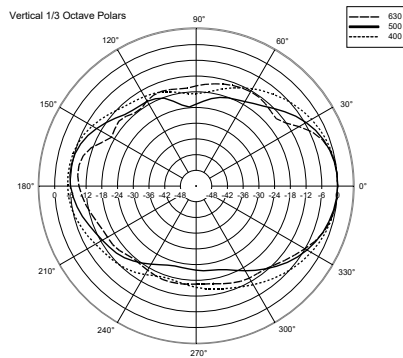
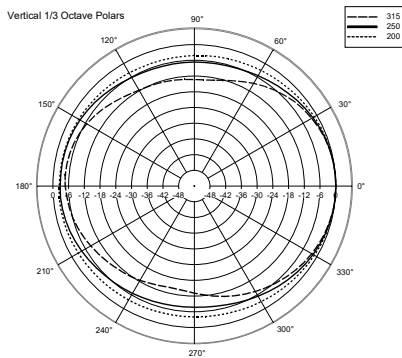


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HORIZONTAL 1/3 POLAR PLOT



VERTICAL 1/3 POLAR PLOT



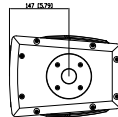
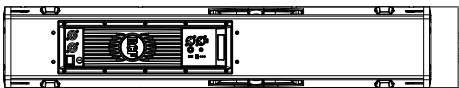
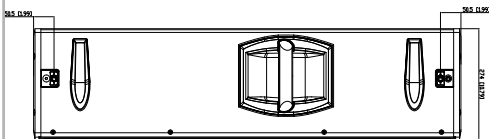
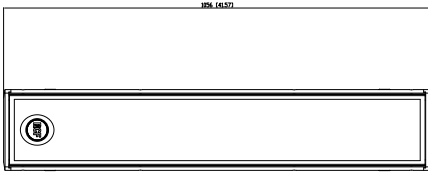
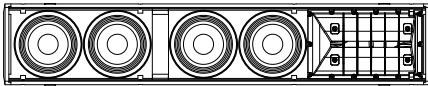
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PART NUMBERS

13000399 - 230VOLT

13000400 - 115 VOLT

DIMENSIONS (All data are in mm)



ACOUSTICAL SPECIFICATIONS

Frequency response:	65 Hz ÷ 20000 Hz
Max SPL:	131 dB
Horizontal coverage angle:	120°
Vertical coverage angle:	30°
Compression driver:	2", 2.5" v.c.
Midrange:	-
Woofer:	4 x 6", 1.5" v.c.

INPUT SECTION

Input signal (Impedance):	Jack- XLR male
Input/Output connector:	XLR female
Input sensitivity:	-2 dBu / + 4 dBu

PROCESSOR SECTION

Crossover frequencies:	800 Hz
Protections:	Themel, RMS
Limiters:	soft limiter
Controls:	Volume, EQ Shape, Mic/ Line

ACCESSORIES

FLY BAR NX L24-A	Fly bar kit for NX L24-A
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
FLY LINK KIT NX L24-A	Accessory to link a second NXL24 to a flying NXL 24-A (straight or 2 angles)
POLE MOUNT KIT NX L24-A	Pole mount accessory for stacking 1 x NXL24 on SUB 8004-AS (or M20 pole mount).
STACKING KIT 2X NX L24-A	Pole mount accessory for stacking 2 x NXL24 on SUB 8004-AS (or M20 pole mount).

AMPLIFIER

Power supply:	switching 1400 Watt Peak 700 RMS
High frequencies:	D / 400 Watt Peak 200 RMS
Mid frequencies:	-
Low frequencies:	D / 1000 Watt Peak 500 RMS
Cooling:	convection
Connection:	Powercon in-out

PHYSICAL

Height:	1056 mm (41.58")
Width:	201 mm (7.90")
Depth:	274 mm (10.79")
Weight:	26.4 kg (58.8 lbs)
Cabinet:	Baltic Birch Plywood
Hardware:	1 x M10 top, 1 x M10 bottom, 3 x M6 bottom
Handles:	1 top, 2 side
Pole mount cap	yes
Colour:	Black