

NX M15-A

TWO WAY ACTIVE SPEAKER



The NX M15-A is a self-powered, lightweight two-way multipurpose loudspeaker system. The NX M15-A provides high power output, low distortion and consistent polar response in a compact enclosure. The NX M15-A is designed as main PA for smaller venues, including houses of worship, auditoriums/theaters, A/V systems, hotel ballrooms, and meeting rooms. Offering extraordinary fidelity and power with tightly controlled, symmetrical coverage, the NX M15-A is suitable for a wide variety of applications including distributed or fill purposes in larger venues, houses of worship, auditorium/theaters, arenas, stadiums, nightclubs, and themed-entertainment complexes.

An extremely smooth and predictable 90-degree horizontal x 40-degree vertical conical horn, coupled to a 1,75" diaphragm neodymium compression driver, reproduces high frequencies. The result of intensive research, the RCF horn's pattern remains consistent within close tolerances in both the horizontal and vertical planes, with minimal side lobing. A robust 3,5" voice coil, 15-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 EQ for stage monitoring and PA applications, 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.

APPLICATIONS

- Compact live sound reinforcement system
- Foreground/background music, infill/delay
- Portable PA, retail, clubs, ballrooms, corporate AV, live theatre, houses of worship, theme parks
- Stage monitoring

FEATURES

- 1,75" voice coil, 1" neodymium compression driver
- 3,5" voice coil, 15" neodymium woofer
- 90°x 40° constant directivity coverage angle, rotatable horn
- 750W digital amplifier: lightweight, compact, multi channel
- Dual angle enclosure for both front-of-house and floor monitor applications
- Optimized EQ for monitor or front-of-house applications
- High quality analog input board, crossover, dynamic limiting, transducers protection
- Professional XLR line and ¼" inputs (Combo) with loop through
- Powercon Input/Output
- 6 x fly-tracks

ACOUSTICAL SPECIFICATIONS

Frequency response:	50 Hz- 20 KHz
Max SPL:	132 dB
Horizontal coverage angle:	90°
Vertical coverage angle:	40°
Compression driver:	1.0" neo, 44 mm voice coil
Midrange:	-
Woofer:	15" neo, 89 mm voice coil

INPUT SECTION

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

PROCESSOR SECTION

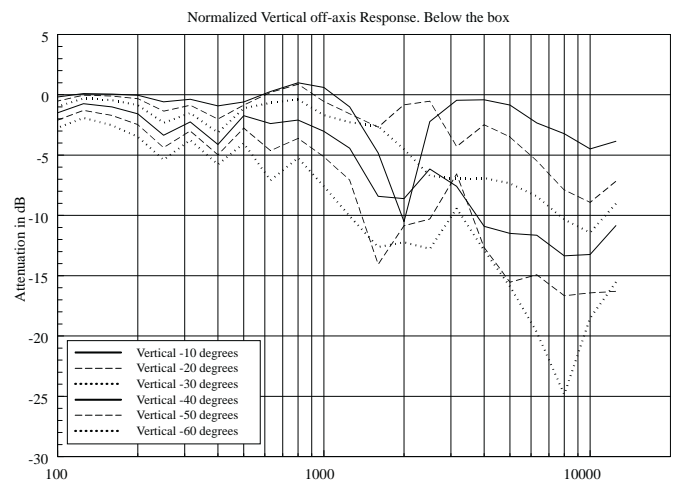
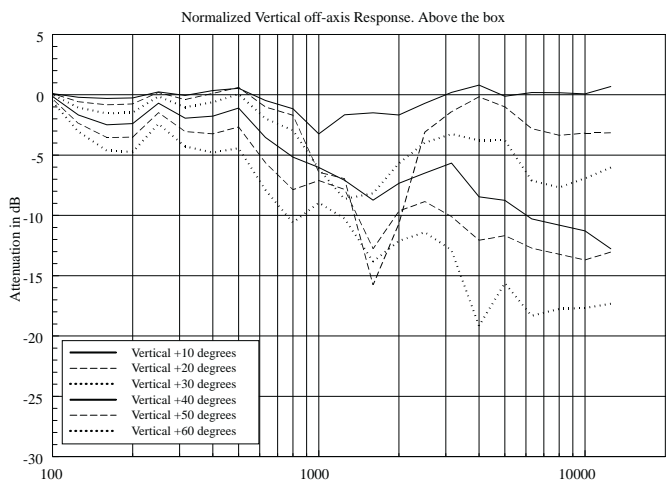
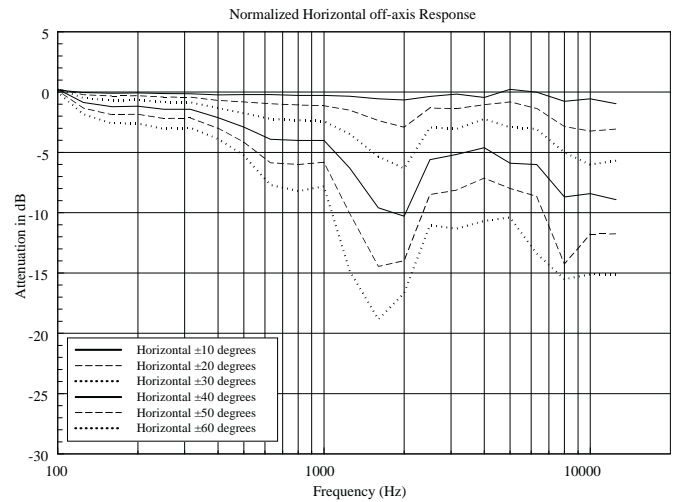
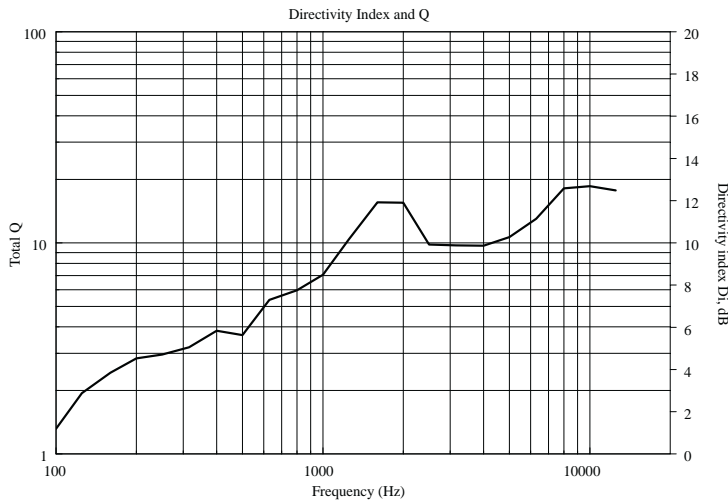
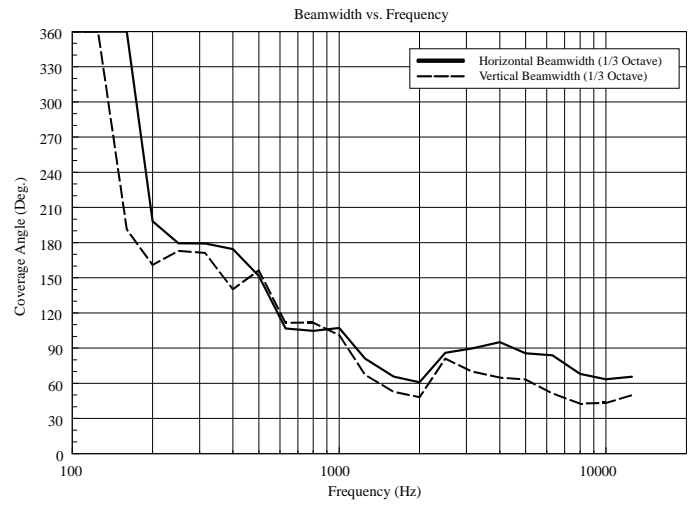
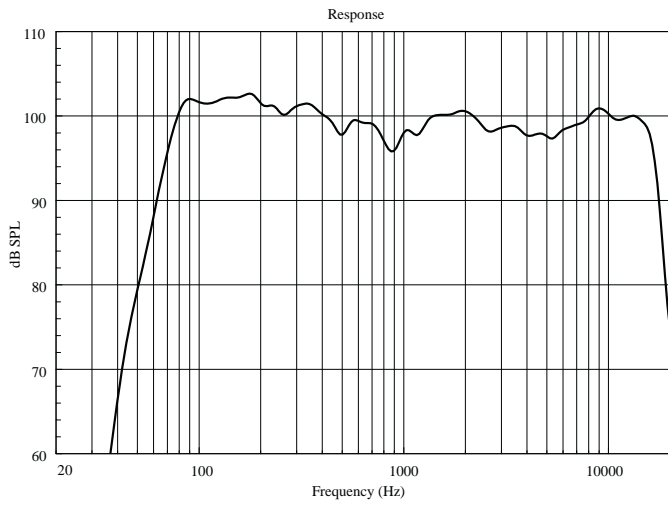
Crossover frequencies:	1700 Hz
Protections:	thermal, rms
Limiters:	soft peak limiter
Controls:	volume, side/floor, contour

AMPLIFIER

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

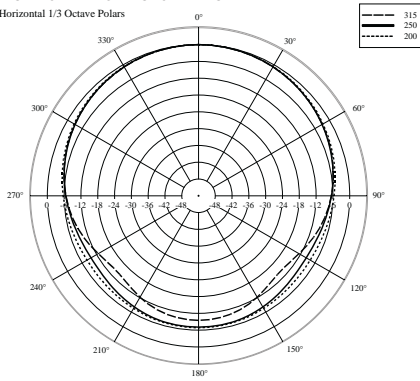
PHYSICAL

Height:	736 mm (28.97")
Width:	430 mm (16.92")
Depth:	395 mm (15.55")
Weight:	23.8 kg (52.47 lbs)
Cabinet:	baltic birch
Hardware:	6 x fly tracks
Handles:	2 side
Pole mount cap	yes
Colour:	Black

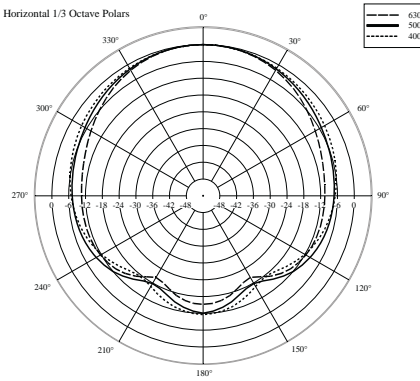


Horizontal 1/3 Polar Plot

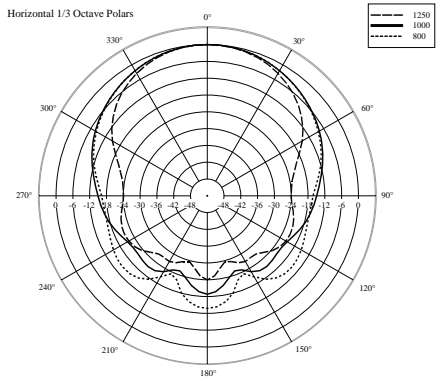
Horizontal 1/3 Octave Polars



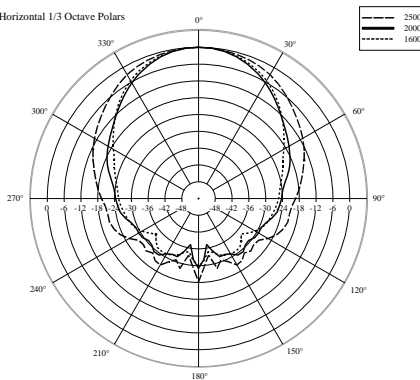
Horizontal 1/3 Octave Polars



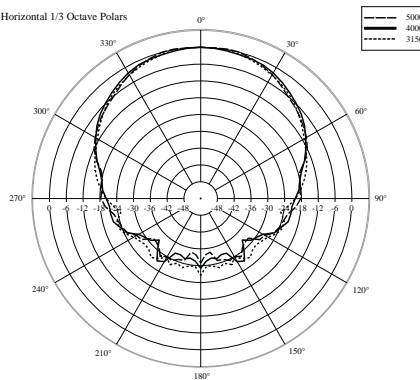
Horizontal 1/3 Octave Polars



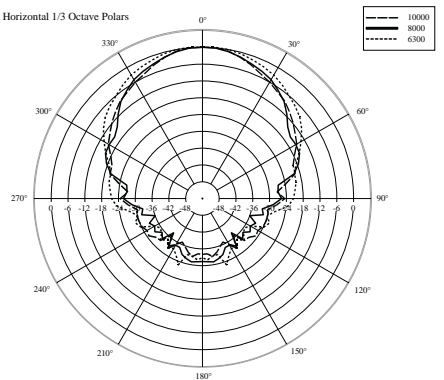
Horizontal 1/3 Octave Polars



Horizontal 1/3 Octave Polars

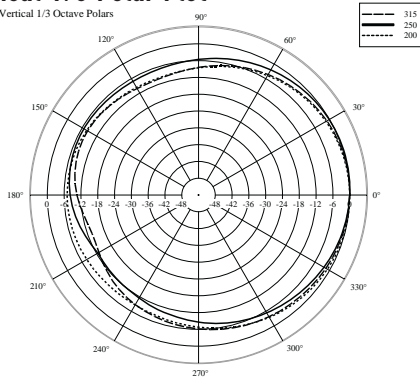


Horizontal 1/3 Octave Polars

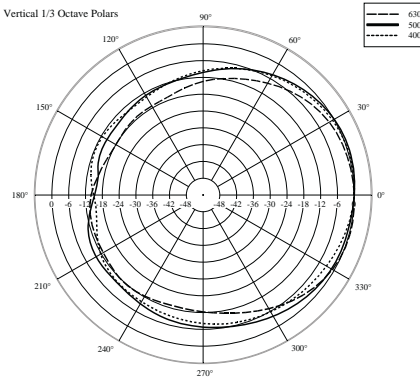


Vertical 1/3 Polar Plot

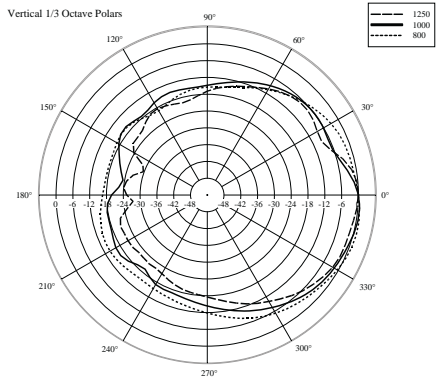
Vertical 1/3 Octave Polars



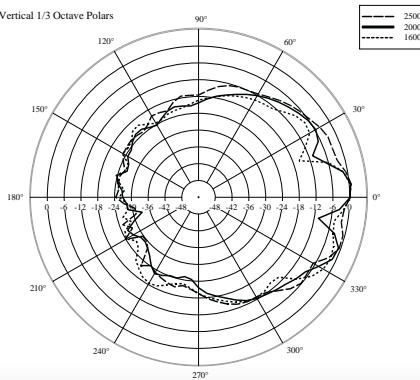
Vertical 1/3 Octave Polars



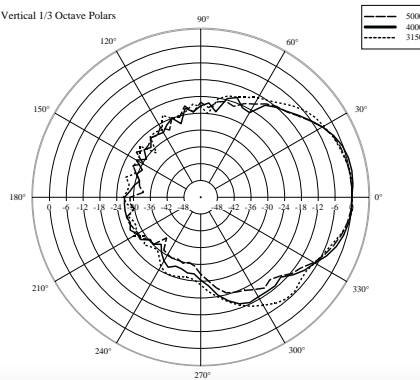
Vertical 1/3 Octave Polars



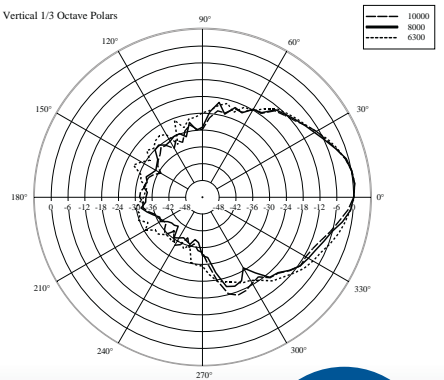
Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



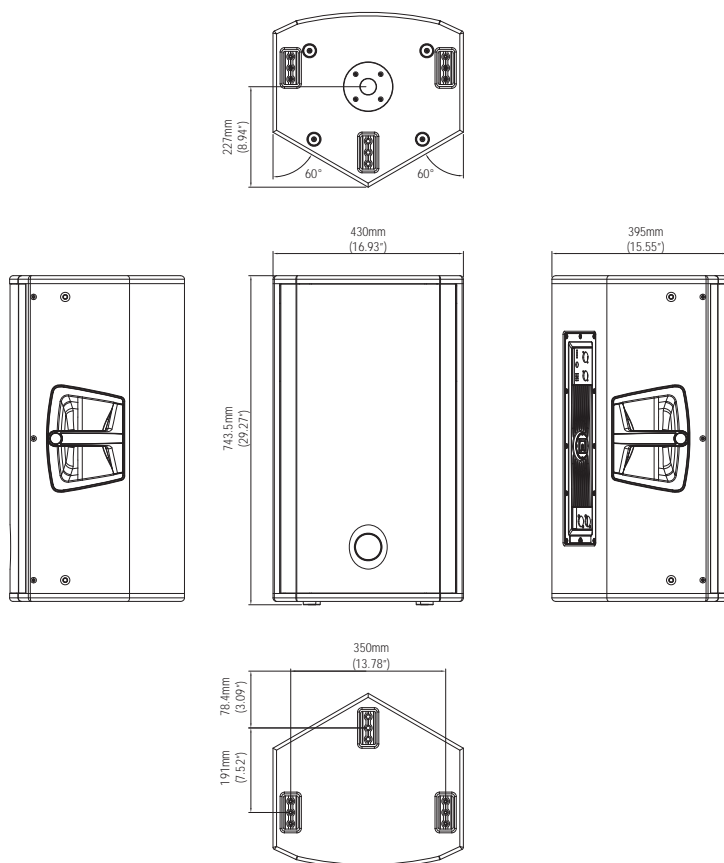
CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS
(ALSO KNOWN AS "A&E SPECIFICATIONS")

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 M15-A



2.02 Design

Configuration:	Two way active speaker
LF Sub-section:	15" neodymium woofer, 89 mm voice coil
MR Sub-section:	-
HF Sub-section:	1,0" neodymium, 44 mm voice coil

2.03 Acoustical Proprieties

Nominal dispersion angle:	90° x 40°
Axial frequency range:	50Hz-20kHz

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	6 x fly tracks
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Combo xlr-jack
Dimensions (H x W x D):	736 x 430 x 395 mm (28.97" x 16.92" x 15.55")
Weight:	23.8 kg (52.47 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 35 mm. Load capacity up to 50Kg, Weight 0.7 Kg, H 27.5 cm
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
AC PRO15 V-BR	Bracket for flying and wall mounting NX M15-A with adjustable inclination