

4PRO 3003-A

ACTIVE TWO-WAY SPEAKER



The 4PRO 3003-A is a two-way active bass reflex loudspeaker offering extraordinary fidelity and power with controlled coverage. It integrates a 750 Watt digital bi-amplification, a complete electronic processor section and RCF low distortion, high power neodymium transducers. The system is compact and extremely linear in frequency response. It provides high power output, low distortion and consistent polar response in a lightweight compact enclosure. The 4PRO 3003 comprises a 15" neodymium woofer and a 1.75" voice coil diaphragm, neodymium compression driver that is mounted to a 90° x 40° constant directivity horn. The 90° angle is wide enough to provide coverage of an audience when used one per side, yet narrow enough to allow displaying of multiple enclosures without excessive coverage overlap.

The 4PRO 3003 is the ideal choice when the application requires high performance and simple set-up.

The new 15" inch neodymium woofer is the result of the latest refinement in years of RCF experience in compact speaker design and manufacture, resulting in an accurate and a tight extended bass. The compression driver uses a new 1" titanium dome in front of a low compression, optimised geometry, radial phase plug. This innovative design is powered from a high flux neodymium magnet offering extreme precision in high frequency reproduction.

4PRO 3003-A are equipped with a new generation of 750 Watt Digital Amplifier, 500 Watt for the woofer and 250 Watt for the compression driver. The result of this is very high output, extremely low distortion and an incredible natural sound. The amplifier presents both XLR/jack (Combo) balanced inputs, XLR output link, volume and a switchable EQ Mode (Contour). The amplifier features a solid mechanical aluminium structure which not only stabilize the amplifier during transportation but also assist in the heat dissipation.

The processor section includes active crossover, system equalization, transducer phase alignment, limiter and protection functions. The system is visually monitored from 4 status LEDs. All components are housed in a strong Baltic birch plywood enclosure where high density polystyrene end caps guarantee the maximum strength.

The front is protected from a strong, powder coated, metal grille. The cabinet features two comfortable recessed side handles for easy portability.

APPLICATIONS

- Compact live sound reinforcement
- Portable PA
- Frontfill and sidefill
- Houses of worship, auditoriums, retail, clubs, ballrooms, corporate AV, live theatre, theme parks

FEATURES

- 750 Watt digital bi-amplification, 500 Watt Low Frequency and 250 Watt High Frequency Power
- 131 dB max SPL
- Wide dispersion 90 x 40 constant directivity horn
- 15" High power neodymium woofer, 3" voice coil
- 1" Titanium dome, neodymium high frequency driver
- Electronic equalization, soft limiter and protection
- Xlr/jack combo input, xlr signal output
- 2 side handles for easy transportation and positioning
- PFC power factor correction

ACOUSTICAL SPECIFICATIONS

Frequency response:	45 Hz- 20 KHz
Max SPL:	131 dB
Horizontal coverage angle:	90°
Vertical coverage angle:	40°
Compression driver:	1.0" neo, 44 mm voice coil
Midrange:	-
Woofer:	15" neo, 76 mm voice coil

INPUT SECTION

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

PROCESSOR SECTION

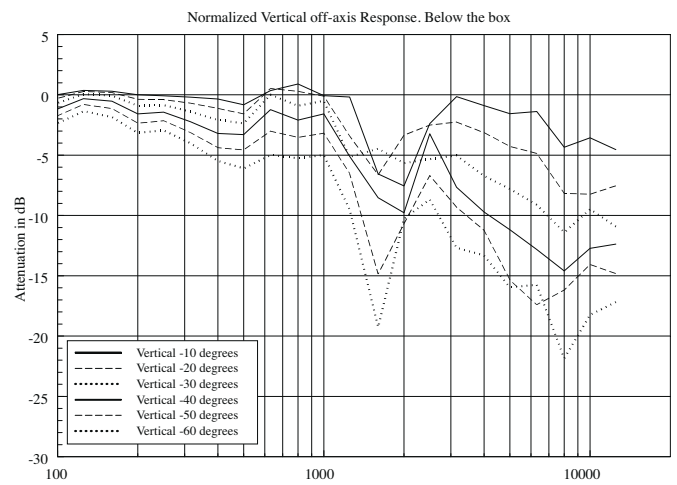
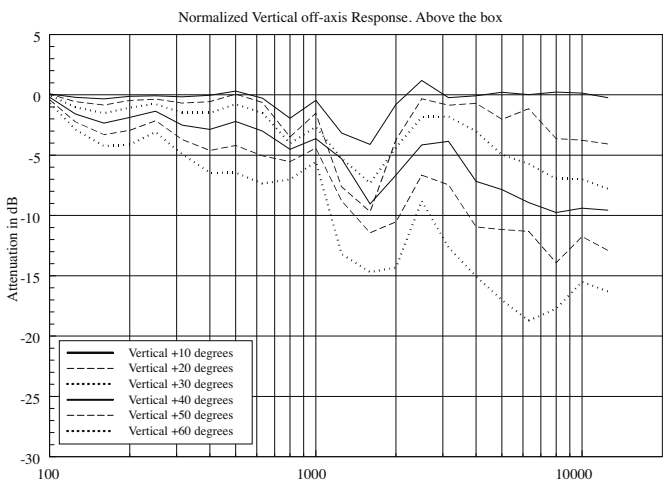
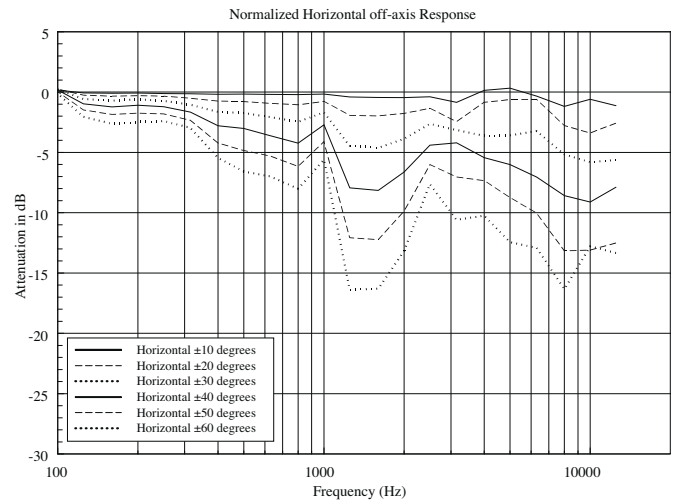
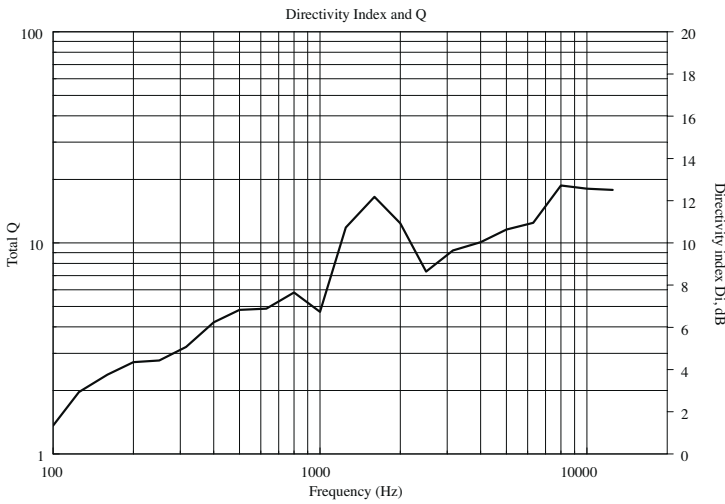
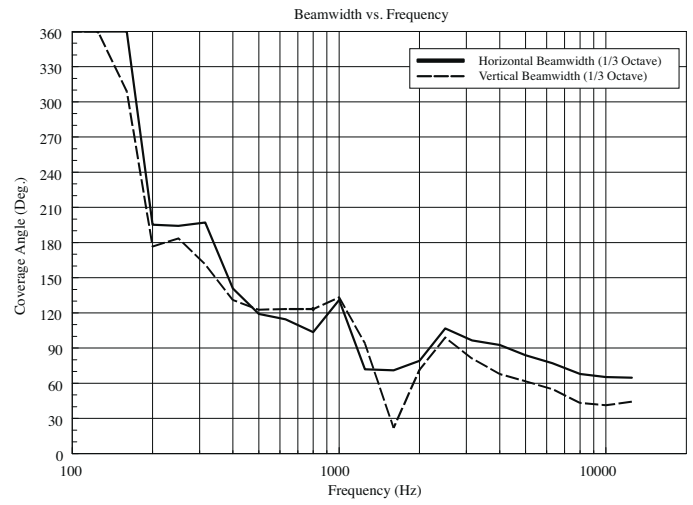
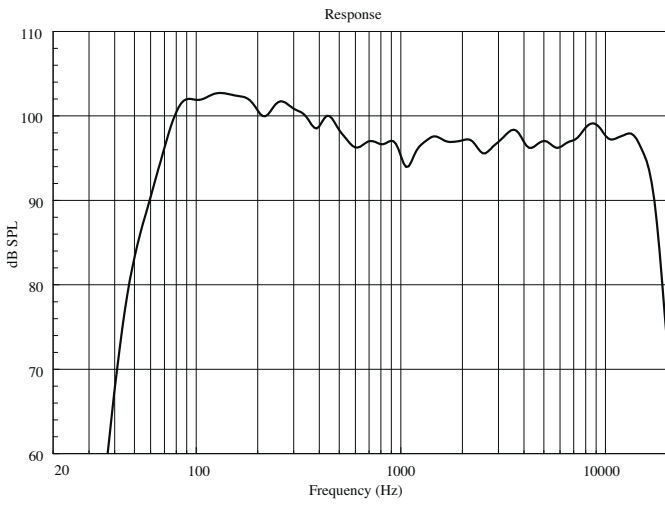
Crossover frequencies:	1700 Hz
Protections:	thermal, rms
Limiter:	dynamic limiter
Controls:	volume, contour

AMPLIFIER

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

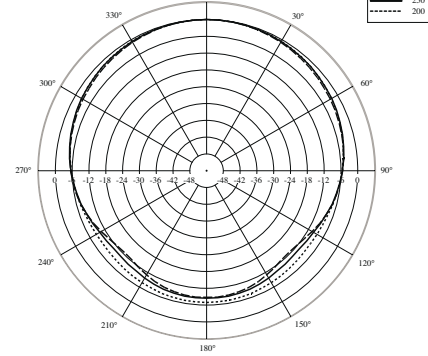
PHYSICAL

Height:	805 mm (31.69")
Width:	455 mm (17.91")
Depth:	470 mm (18.50")
Weight:	33 kg (72.75 lbs)
Cabinet:	baltic birch
Hardware:	-
Handles:	2 on side
Pole mount cap	-
Colour:	Black

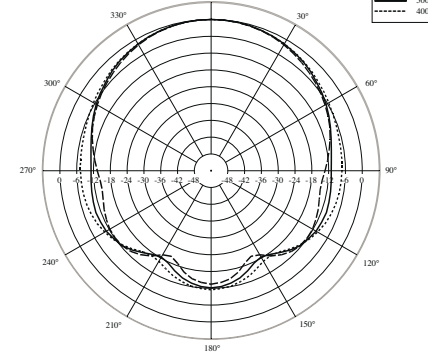


Horizontal 1/3 Polar Plot

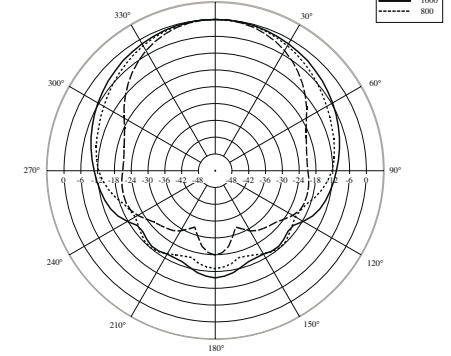
Horizontal 1/3 Octave Polars



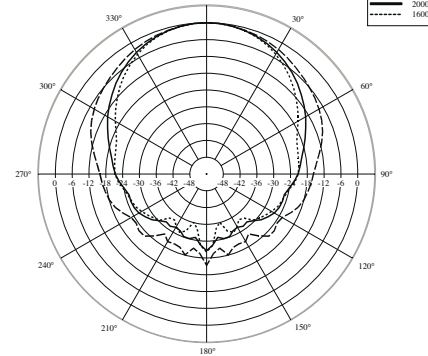
Horizontal 1/3 Octave Polars



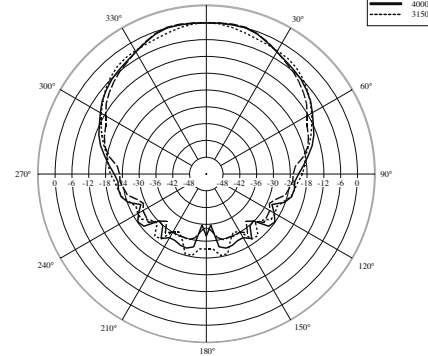
Horizontal 1/3 Octave Polars



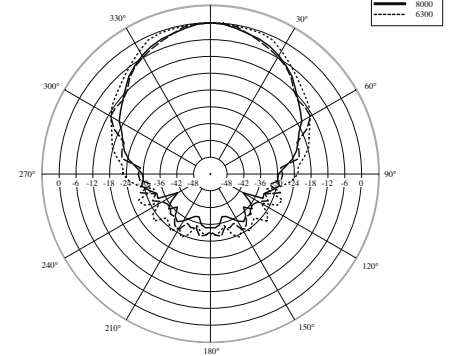
Horizontal 1/3 Octave Polars



Horizontal 1/3 Octave Polars

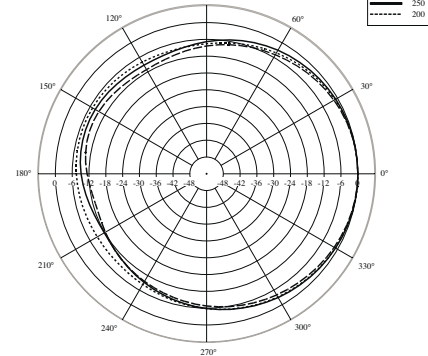


Horizontal 1/3 Octave Polars

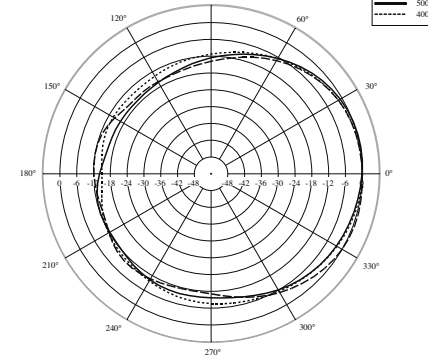


Vertical 1/3 Polar Plot

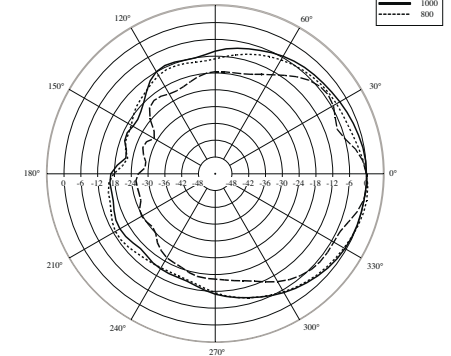
Vertical 1/3 Octave Polars



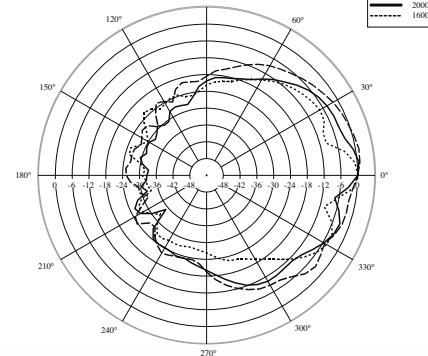
Vertical 1/3 Octave Polars



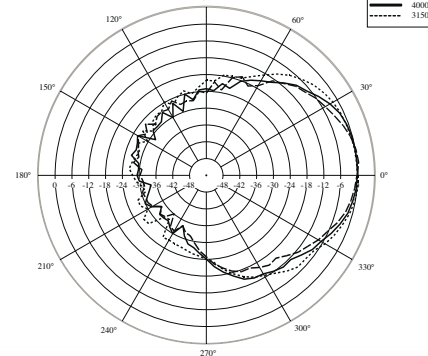
Vertical 1/3 Octave Polars



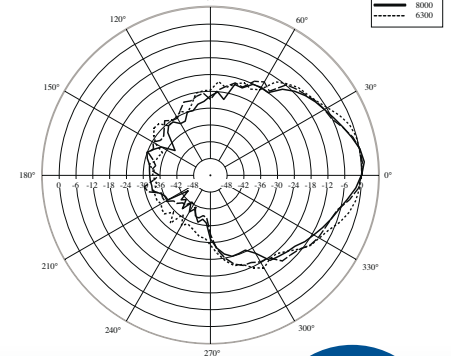
Vertical 1/3 Octave Polars



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: 4PRO 3003-A

2.02 Design

Configuration:	Two way active speaker
LF Sub-section:	15" neodymium woofer, 76 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:	45Hz-20kHz

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	-
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Combo xlr-jack
Dimensions (H x W x D):	805 x 455 x 470 mm (31.69" x 17.91" x 18.5")
Weight:	33 kg (72.75 lbs.)

2.05 Accessories

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 diametro 35 mm. Load capacity up to 35Kg, Weight 2.4 Kg, H MIN/MAX 95cm/137cm
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 PMA	Speaker pole mount