

4PRO 4003-A

ACTIVE TWO-WAY SPEAKER



The 4PRO 4003-A is a self-powered, lightweight two-way full bandwidth loudspeaker system equipped with two 15" woofers and a 1.75" voice coil diaphragm, neodymium compression driver mounted to a constant directivity horn.

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 and offers the typical balanced sound of high level two way systems.

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 4003 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 4003-A are equipped with a new generation of 750 Watt Digital Amplifier, 500 Watt for the two 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
- 132 dB max SPL
- Wide dispersion 90 x 40 constant directivity horn
- 2x15" 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:	40 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:	2 x 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

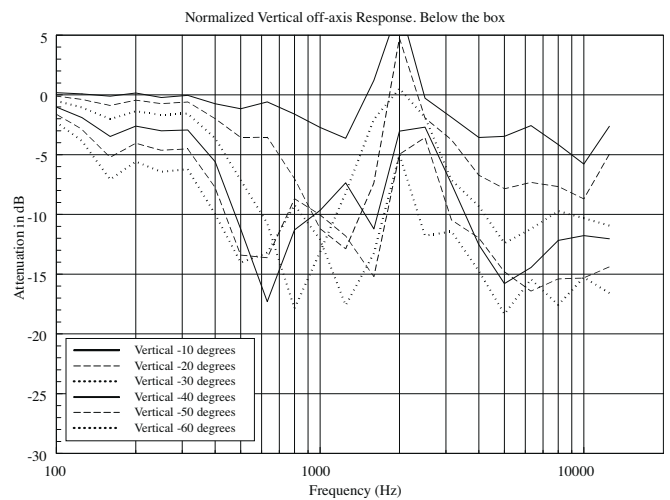
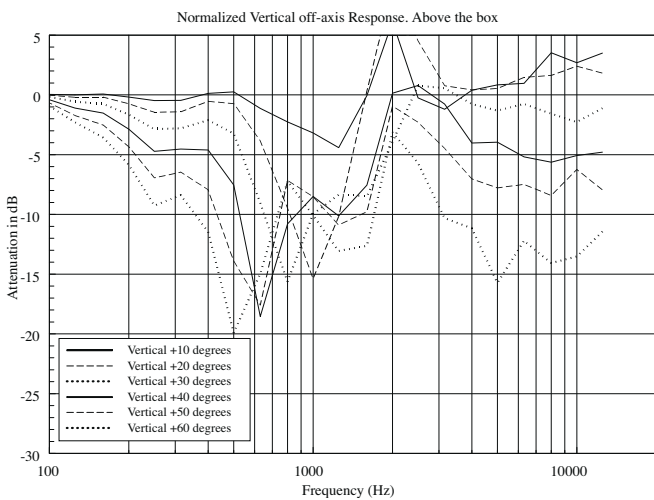
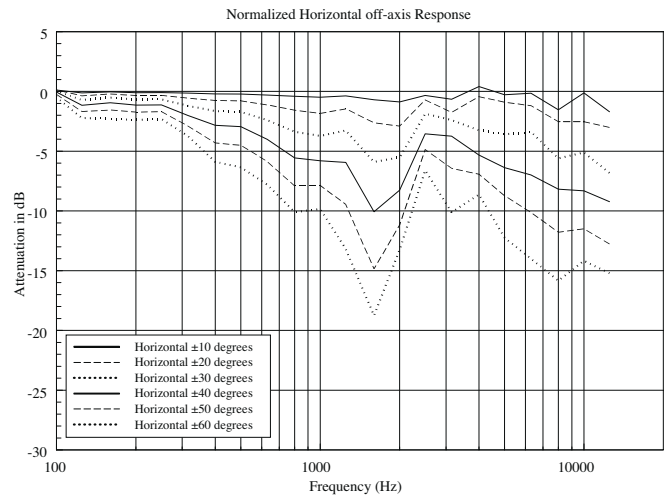
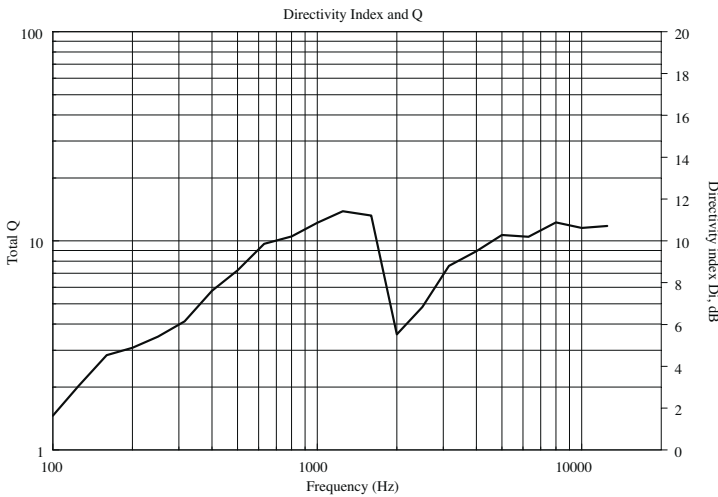
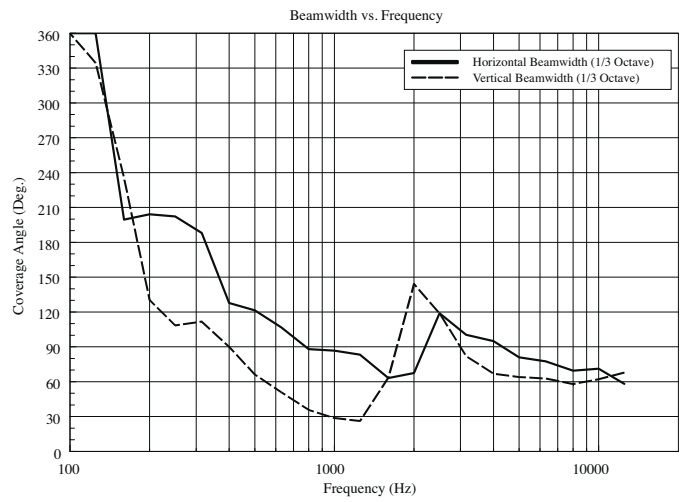
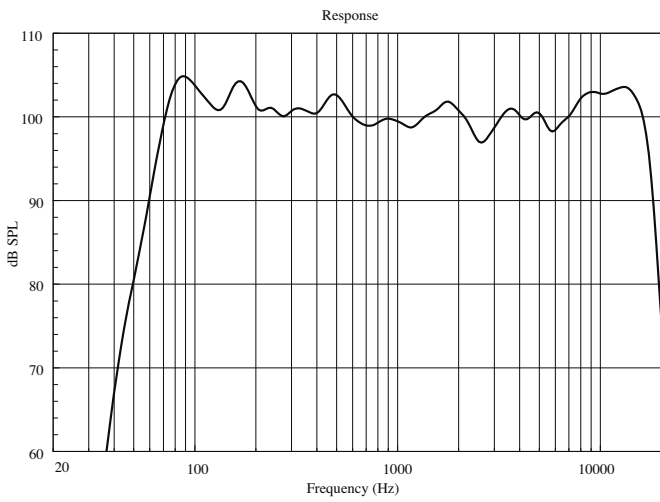
Crossover frequencies:	1800 Hz
Protections:	thermal, rms
Limiter:	dynamic limiter
Controls:	volume, contour

AMPLIFIER

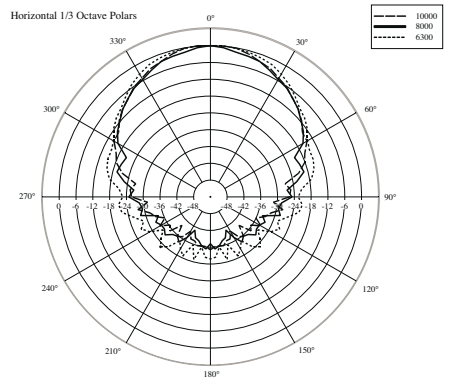
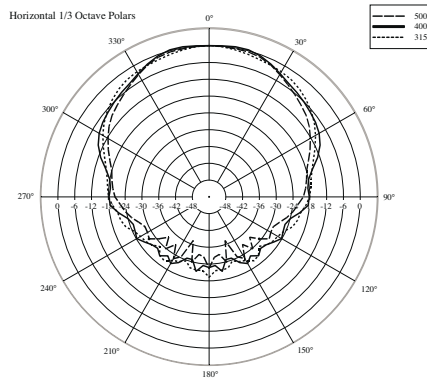
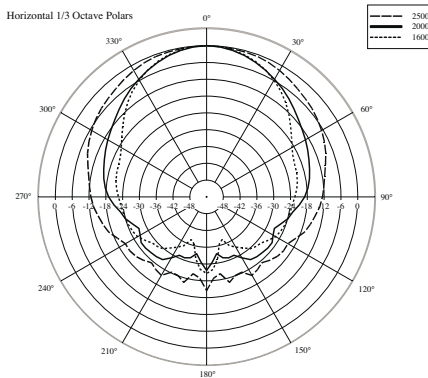
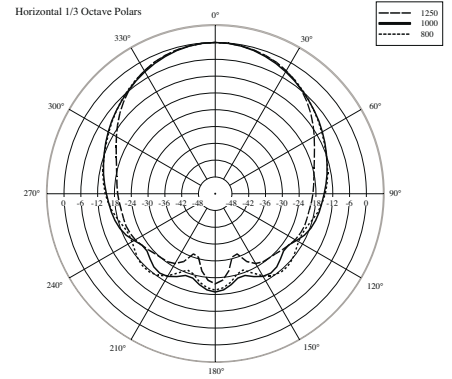
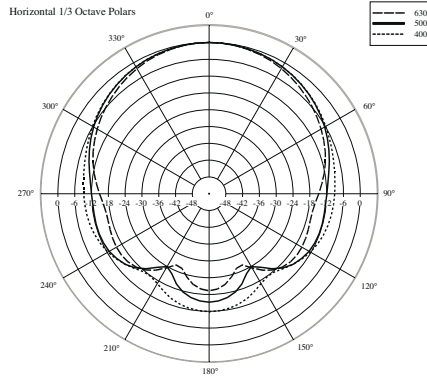
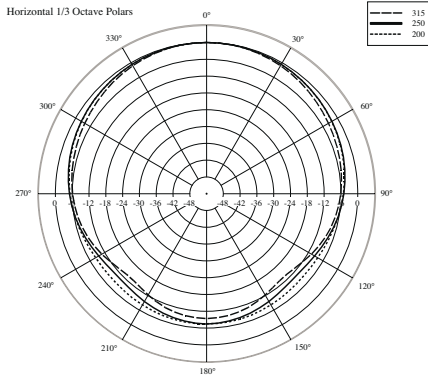
Power supply:	750 Watt
High frequencies:	250 Watt
Mid frequencies:	-
Low frequencies:	500 Watt
Cooling:	convection/forced
Connection:	vde connector in/out

PHYSICAL

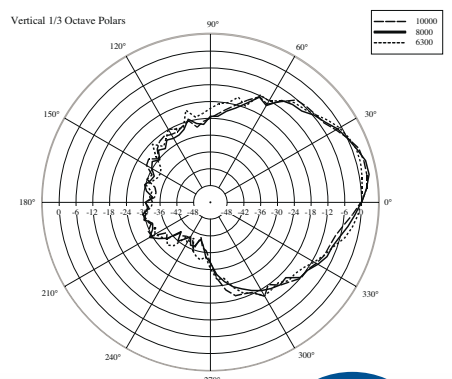
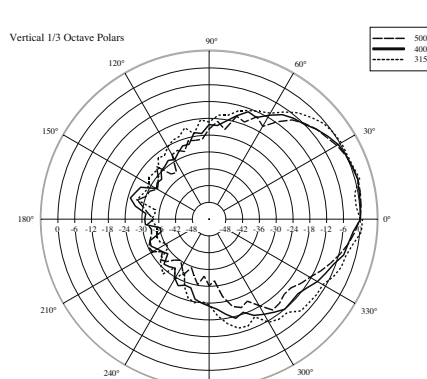
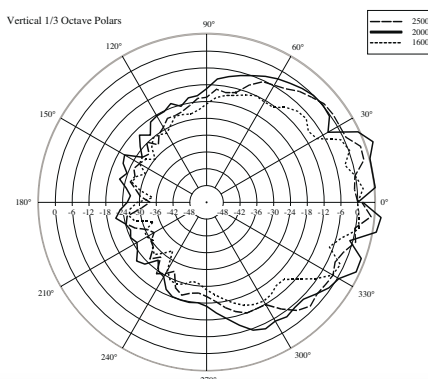
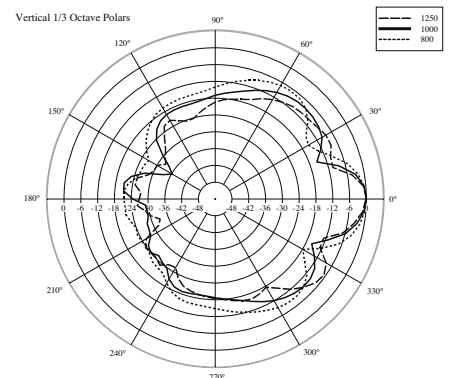
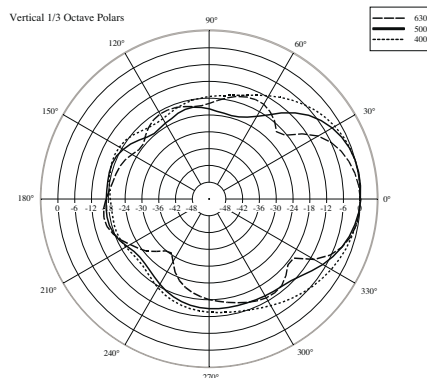
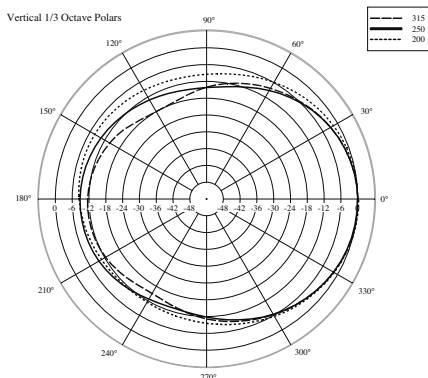
Height:	1290 mm (50.78")
Width:	455 mm (17.91")
Depth:	470 mm (18.50")
Weight:	46 kg (101 lbs)
Cabinet:	baltic birch
Hardware:	-
Handles:	2 on side
Pole mount cap	-
Colour:	Black



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: 4PRO 4003-A

2.02 Design

Configuration:	Two way active speaker
LF Sub-section:	2 x 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:	40Hz-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):	1290 x 455 x 470 mm (50.78" x 17.91" x 18.5")
Weight:	46 kg (101 lbs.)

the rules of sound

