

4PRO SERIES

ACTIVE SPEAKER

4PRO 6001-A



RCF 4PRO 6001-A is an active, medium throw, 3 way sound reinforcement speaker. It integrates a massive power 950 Watt amplifier, a complete electronic processor section and "full neodymium" RCF low distortion, high power transducers. The system is light, compact and extremely linear and offers the typical balanced sound of high level three way systems. The new 12" inch woofer is the result of the latest refinement in years of RCF experience in high quality bass transducer designs, resulting in an accurate and tight extended low frequency response. RCF's unique 8" RCF Precision Series sealed basket midrange is specifically optimised to work in conjunction with the 4PRO 6001-A midrange horn. A massive neodymium magnet and a "compression driver level" assembly design has been dedicated to reach low distortion and dynamic properties for this transducer. The compression driver uses a new 1.75" pure titanium dome in front of a low compression, optimised geometry, 3 slot phase plug. This innovative design is powered from an extremely high flux neodymium magnet and offers incredible precision in high frequency reproduction. A high current 2 step class H design is used to power the low frequencies, mid and high frequencies are separately powered from class AB dedicated low distortion designs. The input section presents a combo XLR/Jack line input connector, a recessed master volume and a useful XLR loop-through link. 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 trapezoidal, strong Baltic birch plywood enclosure. Components are protected from a full front, strong, powder coated, metal grille. The cabinet features three 3 position fly-tracks and 2 M10 threaded points for rear kart. Two recessed side handles and one top handle guarantees easy portability.

Applications

- Main PA for Mid Size Venues
- Band & Vocal PA
- Professional DJ Applications
- Night Clubs
- Corporate Events

Features

- 950 watt Monolithic tri-amplification, 600 watt low frequency, 300 watt midrange frequency and 50 watt high frequency power.
- 134 dB max SPL
- Wide dispersion, 80 x 60 low distortion, midrange and high frequency horns
- 2 x 12" high power neodymium woofers, 75mm inside/outside aluminium coil
- 8" high efficiency, low distortion, neodymium horn loaded midrange
- 1" neodymium, titanium dome, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Line combo XLR/Jack input, XLR signal output
- Baltic birch cabinet with 2 side handles and 1 ergonomic top handle for easy transportation and positioning
- Three 3 position fly-tracks points and two M10 points for rear kart

ACOUSTICAL SPECIFICATIONS

Frequency response:	50 - 20 KHz
Max SPL:	134 dB
Coverage angle:	80° x 60°
Compression driver:	neo 1"
Midrange:	neo 8"
Woofer:	2 x neo 12"

INPUT SECTION

Input signal (Impedance):	bal/unbal
Input connector:	jack/xlr
Output signal connector:	xlr
Input sensitivity:	0 dBu
Mic. input sensitivity:	-

PROCESSOR SECTION

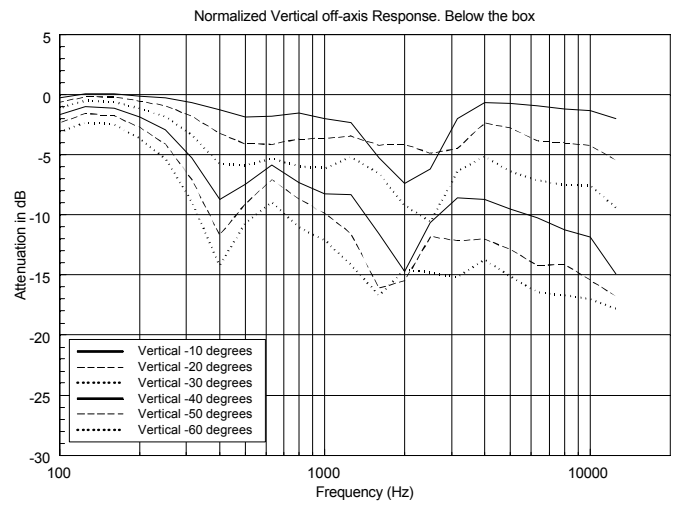
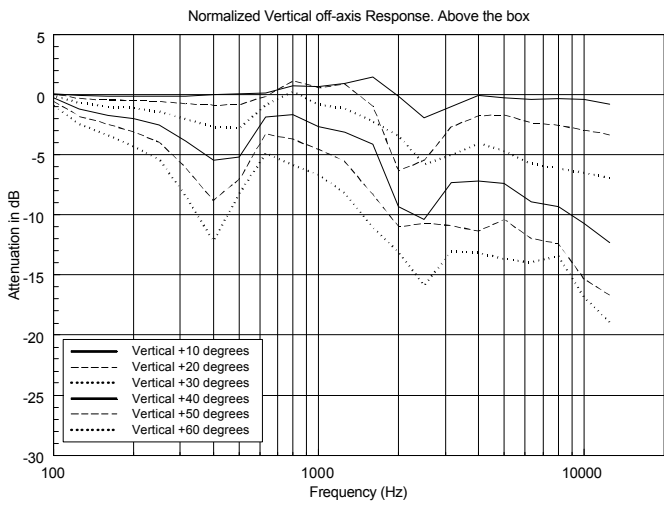
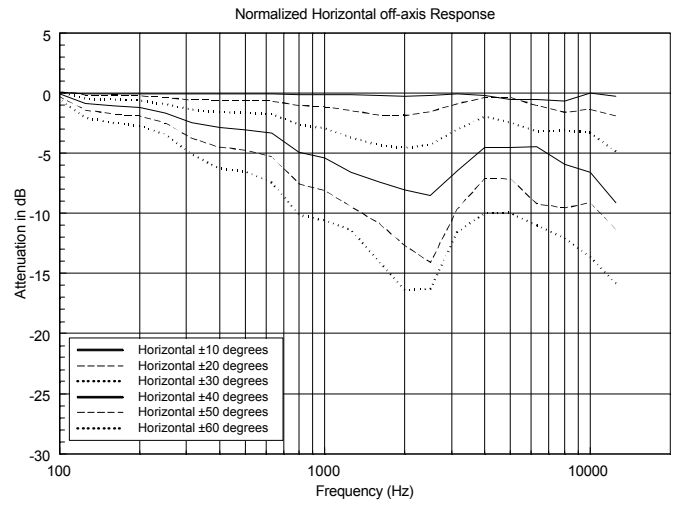
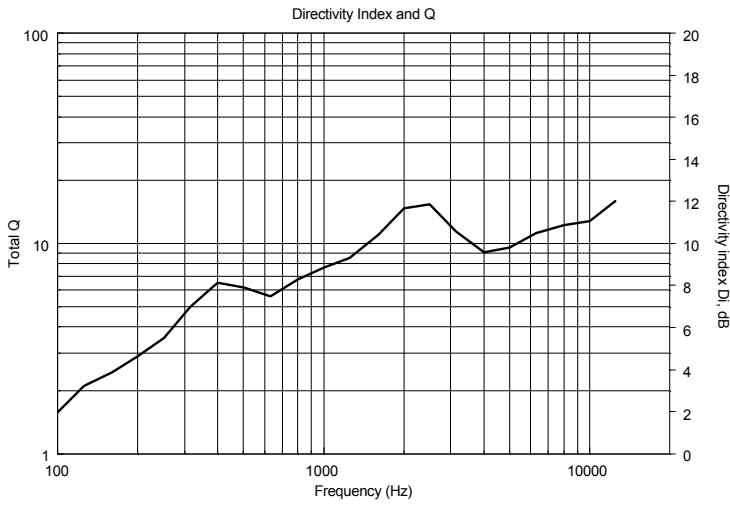
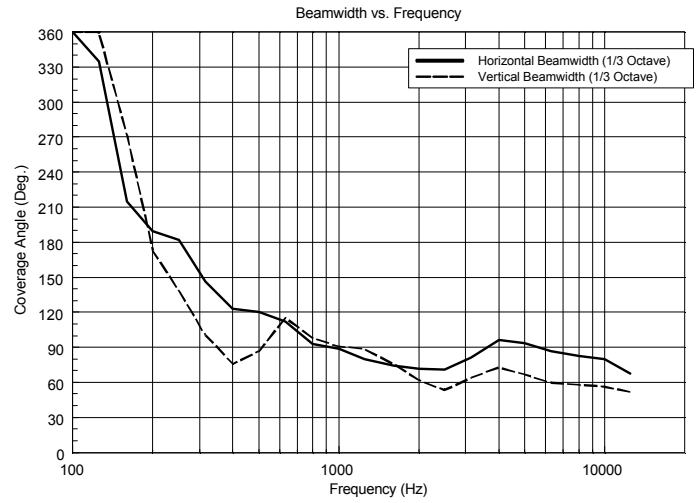
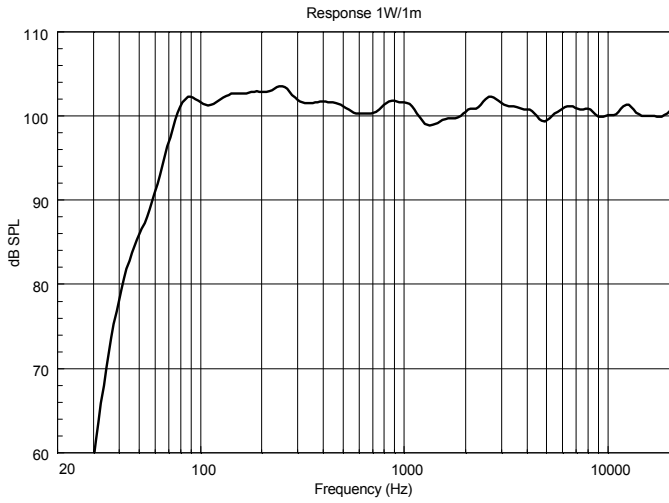
Crossover frequencies:	360Hz / 2000 Hz
Protections:	uC / Protection
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	-
Remote control option:	-

AMPLIFIER

Nominal power:	950 Watt
High frequencies:	ab / 50 Watt
Mid frequencies:	H / 300 Watt
Low frequencies:	H / 600 Watt
Cooling:	Forced

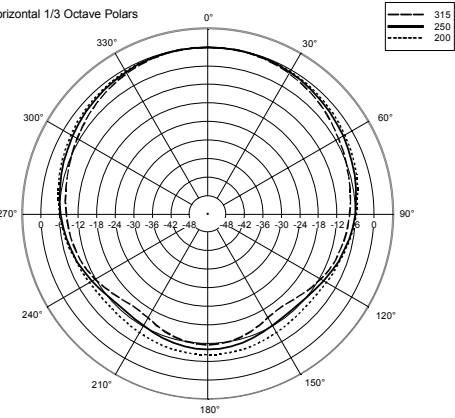
PHYSICAL

Cabinet:	Baltic Birch
Dimensions (HxWxD):	36.42" x 20.66" x 21.65" (920x525x550 mm)
Weight:	121.25 lbs. (55 kg)
Hardware:	3 fly traks
Handles:	2 side, 1 top
Pole Mount / Cap:	-
Colour:	Black

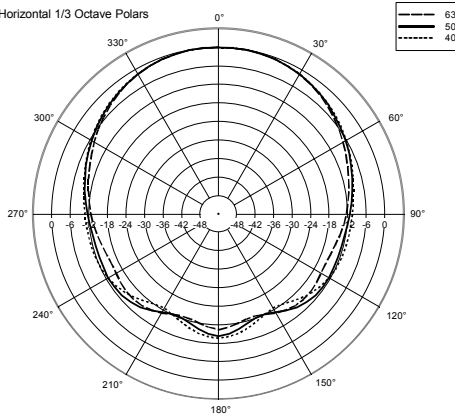


Horizontal 1/3 Polar Plot

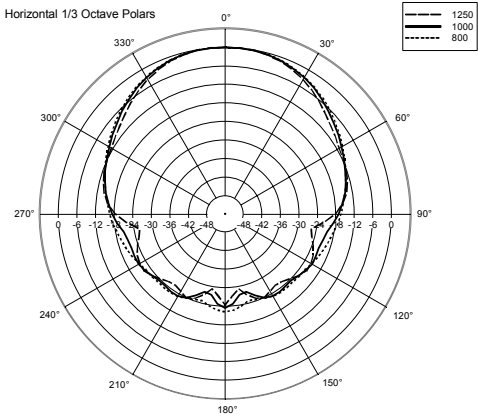
Horizontal 1/3 Octave Polars



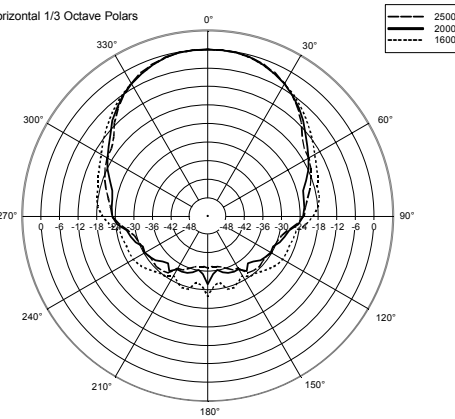
Horizontal 1/3 Octave Polars



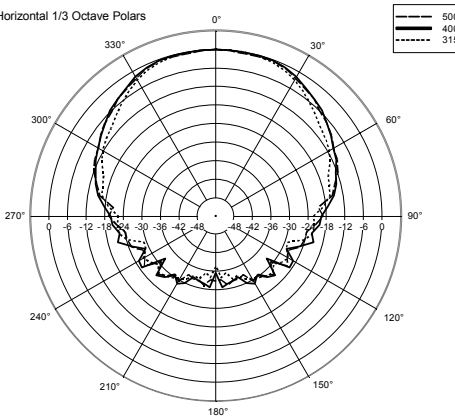
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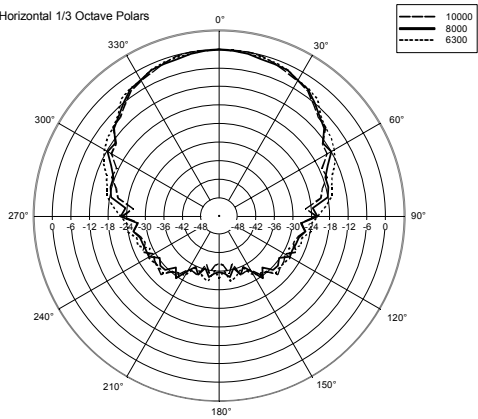
Horizontal 1/3 Octave Polars



Horizontal 1/3 Octave Polars

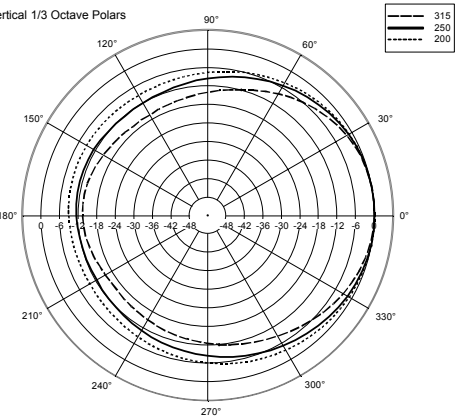


Horizontal 1/3 Octave Polars

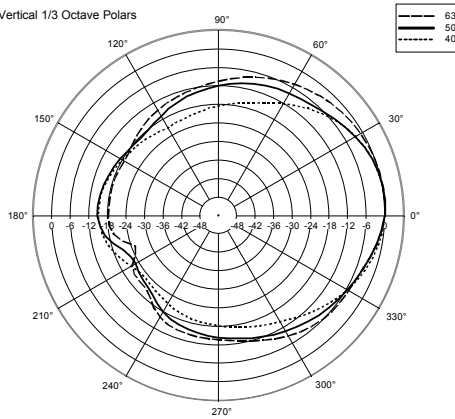


Vertical 1/3 Polar Plot

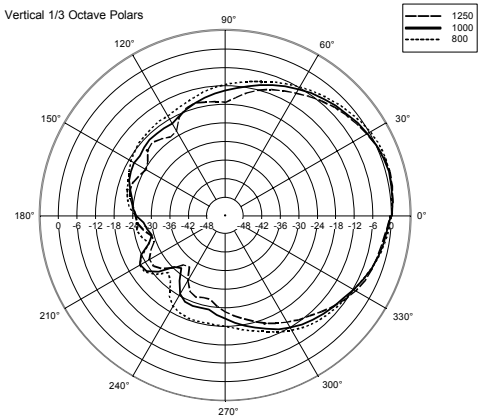
Vertical 1/3 Octave Polars



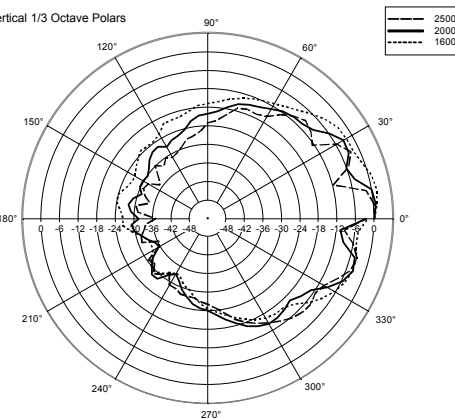
Vertical 1/3 Octave Polars



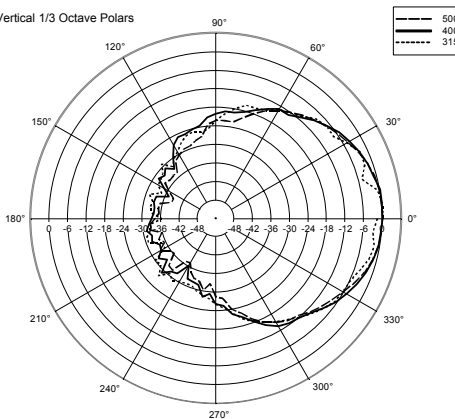
Vertical 1/3 Octave Polars



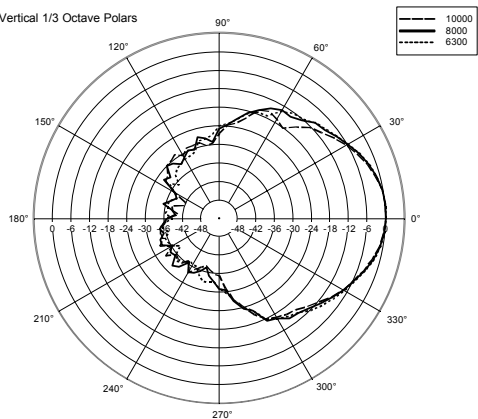
Vertical 1/3 Octave Polars



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, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: 4PRO 6001-A

2.02 Design

Configuration	3 way speaker
LF Sub-section	2 x 12" woofer, 75 mm inside/outside aluminium coil
MR Sub-section	8" neodymium horn loaded midrange
HF Sub-section	1" neodymium, titanium dome, driver

2.03 Acoustical Properties

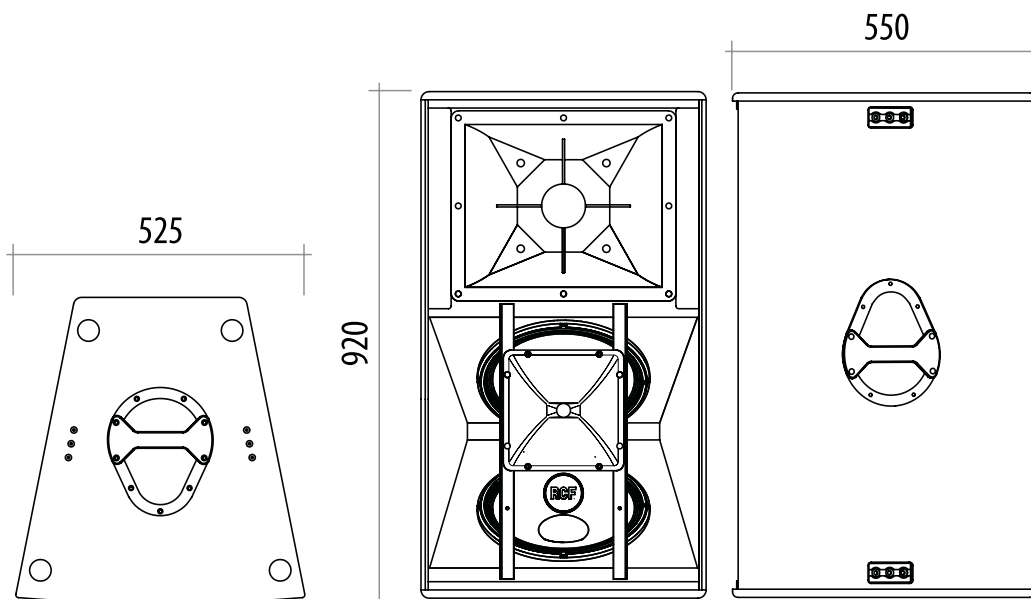
Nominal dispersion angle:	Horizontal: 80° - Vertical: 60°
Axial frequency range:	50Hz-20kHz

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	3 fly traks
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	jack/xlr
Dimensions (H x W x D):	36.42" x 20.66" x 21.65" (920x525x550 mm)
Weight:	121.25 lbs. (55 kg)

2.05 Accessories

AC KP-6001	Kit pair of wood panels for trolley 4PRO 3001/4001/6001
AC WK-FX	Kit No 4 Fixed Castor 80mm/3" Dia Black Wheel with Roller Bearings. Carrying Weight per Wheel 60 Kg/130 lbs.
AC WK-SW	Kit No 4 Swivel Castor, 80mm/3" Dia Black Wheel with Roller Bearings. Carrying Weight per wheel 60 kg/130 lbs.



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