

ART 712-A MKII

TWO WAY ACTIVE SPEAKER



RCF ART 712-A is 2 way active systems offering substantial power for a variety of professional applications that include primary sound reinforcement and supplementary fill for larger systems.

RCF ART 712-A is equipped with a new generation of 700 Watt Digital Amplifier, 500 Watt for the woofer and 200 Watt for the compression driver, and is controlled by a multiway DSP. The result of this is very high output, extremely low distortion and an incredible natural sound. The Dsp takes care of crossovers, equalisations, soft-limiters, rms limiters, large signals compression. The amplifier presents both XLR/jack (Combo) balanced inputs, XLR output link, volume and a switchable EQ Mode (Flat/ Boost).

The amplifier features a solid mechanical aluminium structure which not only stabilize the amplifier during transportation but also assist in the heat dissipation. The compression driver uses a 1" throat diameter titanium dome featuring a vented suspension and is powered from a massive high flux neodymium magnet and an edge wound 1,7" aluminium voice coil. This top class driver offers a high output, transparent midrange sound and clarity in high frequencies reproduction. RCF ART 712-A features a 12" inch woofer that, with a 3" inside-outside aluminium coil and a powerful magnetic structure, guarantees a fast and accurate mid-bass frequency range.

The new loudspeaker design looks aggressive whilst retaining familiar Art ergonomics and is the result of extensive combined functional and acoustic research. The Art 7 Series two-way system cabinets are moulded in a special polypropylene composite material and are designed to dampen down vibrations even at maximum volume settings. The reflex porting has been resized to offer a better efficiency.

APPLICATIONS

- Nearfield & portable PA
- Foreground/background PA, distributed PA, frontfill and sidefill
- Houses of worship, video monitoring, retail, clubs, performance theatre, theme parks
- Compact voice reinforcement systems
- Stage monitoring

FEATURES

- 700 Watt digital bi-amplification, 500 Watt Low Frequency and 250 Watt High Frequency Power
- 129 dB max spl
- Wide dispersion 90 x 60 constant directivity horn
- 12" High power woofer, 3" voice coil
- 1" Titanium dome, high frequency driver
- Electronic equalization, soft limiter and protection
- Xlr/jack input, xlr signal output
- 2 side handles and 1 ergonomic top handle for easy transportation and positioning

ACOUSTICAL SPECIFICATIONS

| | |
|----------------------------|-----------------------|
| Frequency response: | 50 Hz- 20 Khz |
| Max SPL: | 129 dB |
| Horizontal coverage angle: | 90° |
| Vertical coverage angle: | 60° |
| Compression driver: | 1.0", 1.7" voice coil |
| Midrange: | - |
| Woofer: | 12", 3" voice coil |

INPUT SECTION

| | |
|---------------------------|--------------|
| Input signal (Impedance): | bal/unbal |
| Input/Output connector: | xlr-jack/xlr |
| Input sensitivity: | + 4 dBu |

PROCESSOR SECTION

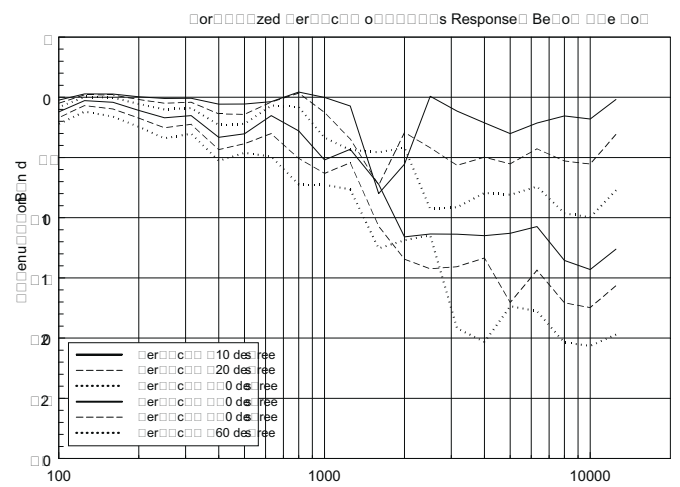
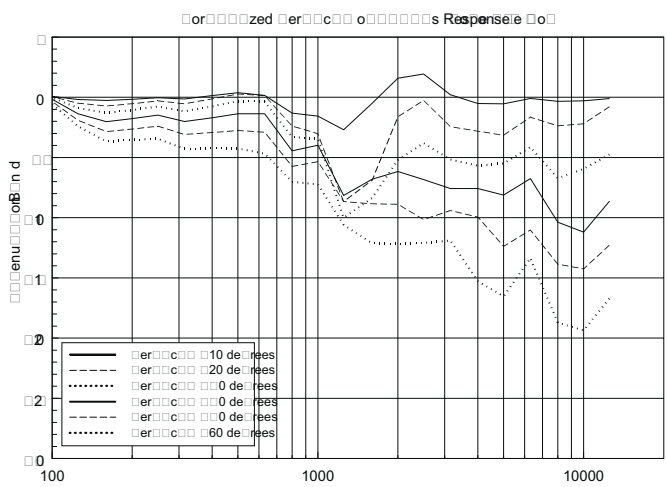
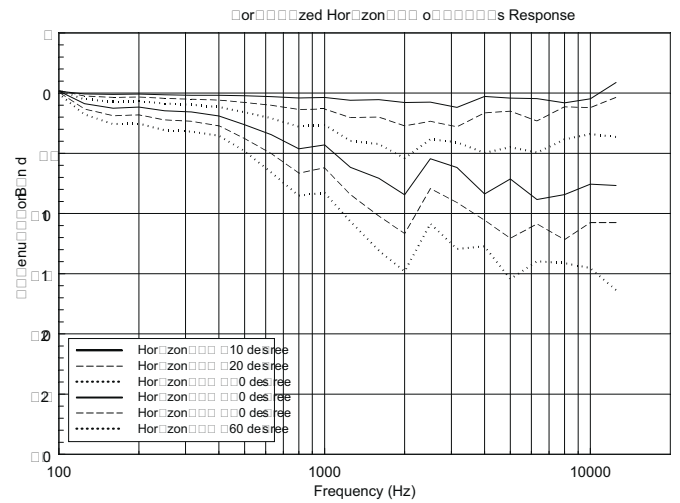
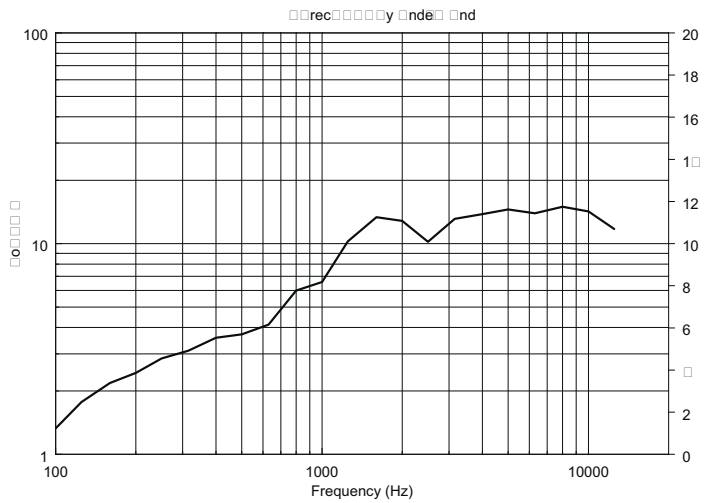
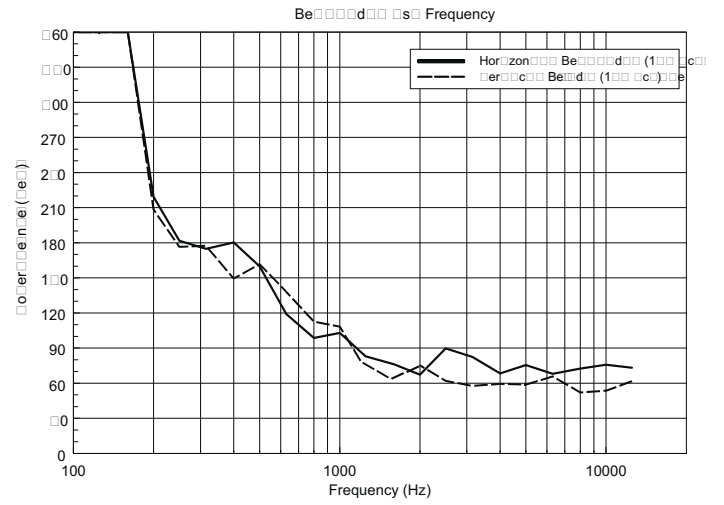
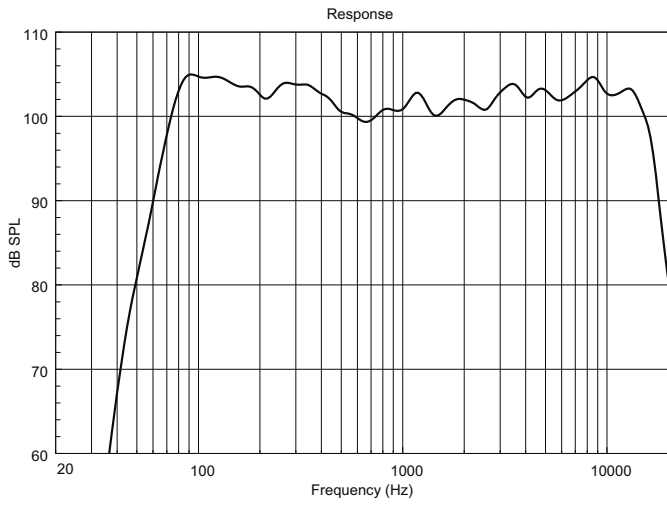
| | |
|------------------------|-------------------------------|
| Crossover frequencies: | 1700 Hz |
| Protections: | thermal, hf |
| Limiter: | fast limiter |
| High pass: | - |
| Controls: | volume, flat, boost, mic/line |

AMPLIFIER

| | |
|-------------------|--------------------|
| Power supply: | switching 700 Watt |
| High frequencies: | D / 200 Watt |
| Mid frequencies: | - |
| Low frequencies: | D / 500 Watt |
| Cooling: | convection/forced |
| Connection: | VDE |

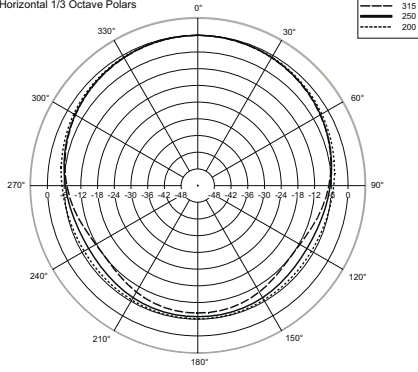
PHYSICAL

| | |
|----------------|---------------------|
| Height: | 637 mm (25,07") |
| Width: | 384 mm (15,11") |
| Depth: | 363 mm (14,29") |
| Weight: | 17,7 kg (39 lbs) |
| Cabinet: | Composite PP |
| Hardware: | 2 x M10, pole mount |
| Handles: | 1 top, 2 on side |
| Pole mount cap | yes |
| Colour: | Black |

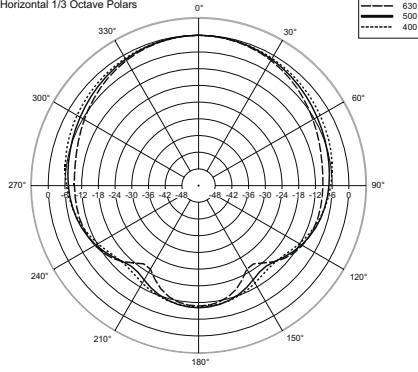


Horizontal 1/3 Polar Plot

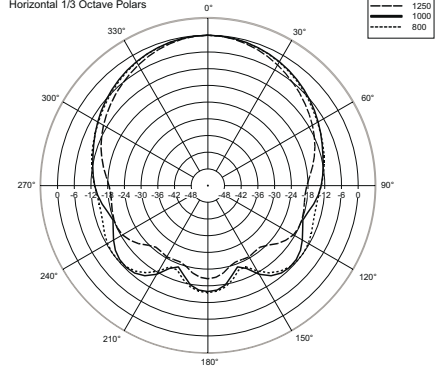
Horizontal 1/3 Octave Polars



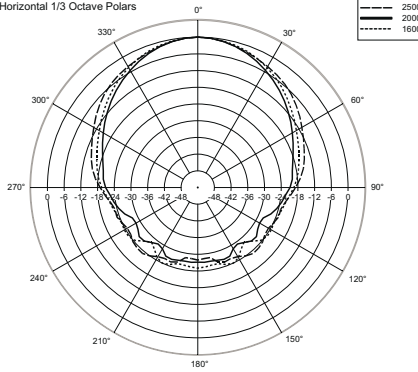
Horizontal 1/3 Octave Polars



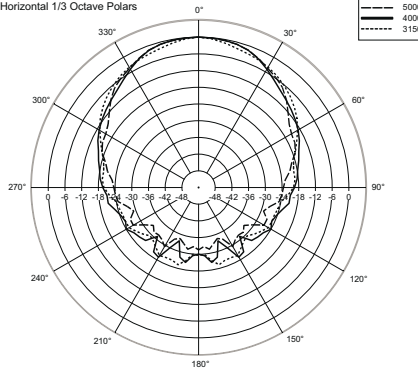
Horizontal 1/3 Octave Polars



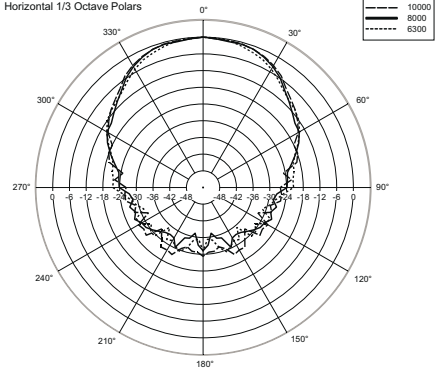
Horizontal 1/3 Octave Polars



Horizontal 1/3 Octave Polars

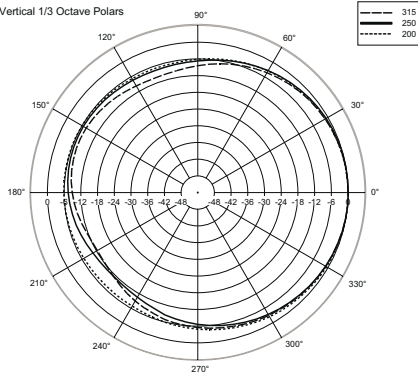


Horizontal 1/3 Octave Polars

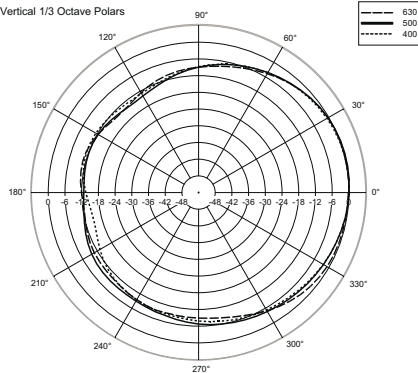


Vertical 1/3 Polar Plot

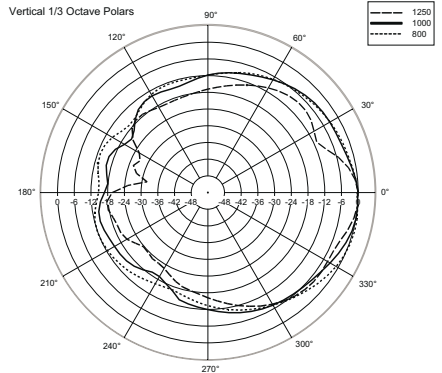
Vertical 1/3 Octave Polars



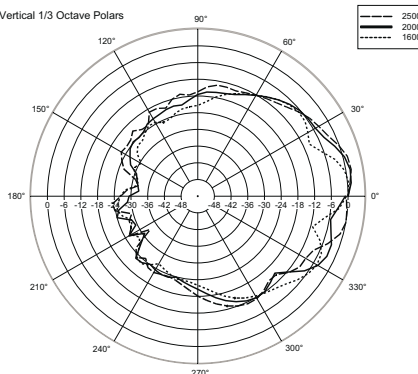
Vertical 1/3 Octave Polars



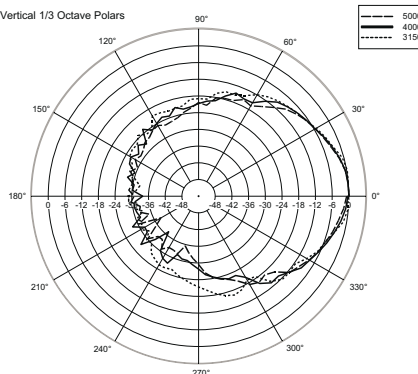
Vertical 1/3 Octave Polars



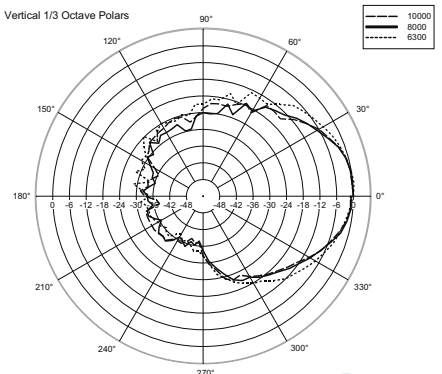
Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



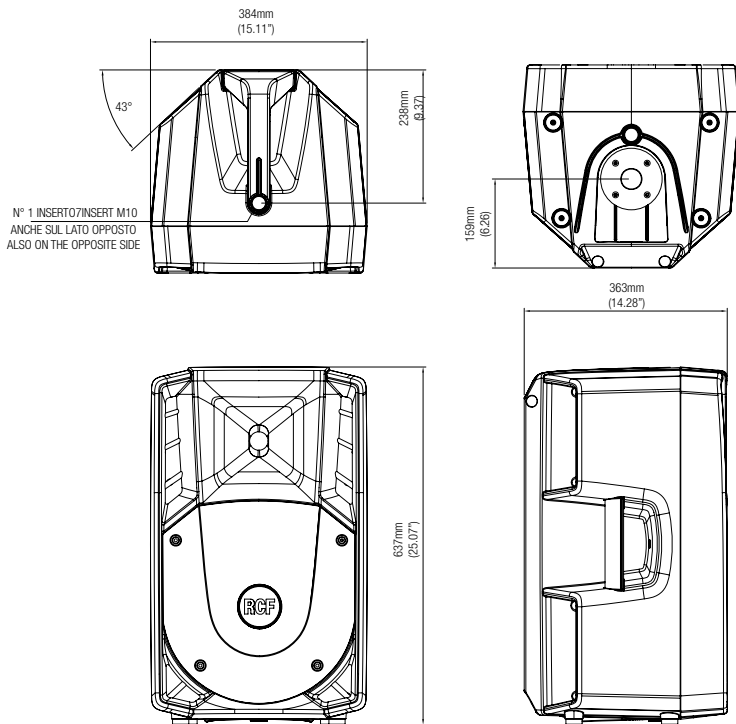
CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS
(ALSO KNOWN AS "A&E SPECIFICATIONS")

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: ART 712-A MKII



2.02 Design

| | |
|-----------------|------------------------------|
| Configuration: | Two way active speaker |
| LF Sub-section: | 12" woofer, 3" mm voice coil |
| MR Sub-section: | - |
| HF Sub-section: | 1,0" driver, 1.7" voice coil |

2.03 Acoustical Properties

| | |
|---------------------------|------------|
| Nominal dispersion angle: | 90° x 70° |
| Axial frequency range: | 50Hz-20kHz |

2.04 Physical Properties

| | |
|-------------------------|--|
| Cabinet: | Composite PP |
| Rigging inserts: | 2 x M10, pole mount |
| Color: | Black |
| Grille: | Custom perforated steel grille with open-cell poly fiber backing |
| Input Connectors: | xlr-jack |
| Dimensions (H x W x D): | 637 x 384 x 363 mm (25,07" x 15,11" x 14,29") |
| Weight: | 17,7 kg (39.00 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 diametro 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 diametro 35 mm. Load capacity up to 35Kg, Weight 2.4 Kg, H MIN/MAX 95cm/137cm |
| AC EB4X | Kit including No. 4 shouldered 10mm eye bolts |
| AC PMA | Speaker pole mount |
| AC ART712 H-BR | Horizontal bracket for ART 712-A and ART 722-A |
| COVER ART 722 | Art cover for ART 712-A, ART 722-A |

the rules of sound

