

# TT22

## HIGH OUTPUT 2 WAY SPEAKER



TT22 is a full range, extremely versatile two-way passive loudspeaker system offering substantial power and efficiency for a variety of professional applications: theatre and touring markets as well as fixed installations.

TT22 is a 2-way active system featuring 12" neo woofer, 86 mm voice coil in a bass reflex configuration; 1,5" exit, 75 mm voice coil neo compression driver; 90 x 40° aluminum, constant directivity horn, 90° rotatable. Each transducer has been specifically designed for the application. The woofer provides large excursion and very light weight. The voice coil is a new 4" design, best compromise between power handling and low mass. The compression driver features a new pure titanium dome. Special ribs on the dome provides maximum flatness and extension in very high frequencies and venting on top plates guarantee distortion free midrange extension. Thanks to the extensive use of neodymium and new basket designs, the total weight of the 2 transducers is less than 9 Kg!

TT22 includes the LICC-Low Impedance Compensated Crossover that features markedly lower induction values in series with the woofer. The benefit is delay reduction, reduced phase shift and superior transient response. For a superior power handling high power, aluminium case, resistors are used in the crossover network. Dynamic high-frequency driver protection is accomplished with the RCF exclusive – Active Mosfet Compression Driver Protection System, chosen to complement the power curve of the driver.

The crossover is easily bypassed for bi-amp via a recessed changeover switch.

Six high quality detachable fly tracks fittings on both sides of the cabinet offer horizontal, vertical and coupled suspended orientations. The cabinets features 2 aluminum side handles and a steel pole mount cap

### Applications

- Theatrical sound reinforcement
- Portable and installed audio-visual systems
- Concert halls, night clubs and houses of worship
- Stage monitoring side fill
- Front and balcony fill

### Features

- Very compact size (600 x 400 x 400 mm / 23.62" x 15.74" x 15.74")
- Maximum output per size available on market
- Minimum weight (28.8 kg / 63.49 lbs)
- Wide, constant directivity, horizontal coverage angle
- High power neodymium transducers
- Dual function design: built in passive crossover or external bi-amp
- LICC (Low Impedance Compensated Crossover Network)

### SYSTEM

Freq. Range (-10 dB):	50Hz-20kHz
Freq. Range (-3 dB):	-
Horiz. coverage angle (-6 dB):	90°
Vertical coverage angle (-6 dB):	40°
Directivity factor: Q:	-
System sensitivity <sup>1</sup> :	98db. 1W @ 1m
Rated maximum SPL:	131dB. @ 1m
System Nominal Impedance:	8 Ω
System Input Power Rating AES <sup>2</sup> :	800W
System Input Power Rating PEAK <sup>2</sup> :	3200W
Recommended Amplifier <sup>3</sup> :	1500W
HF Protection:	Dynamic Mosfet
Crossover:	1.3 kHz

### TRANSDUCERS

Low Frequency:	12" (304 mm) woofer with 4" (100 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	700W AES
Sensitivity <sup>1</sup> :	98 dB. 1W @ 1m
High Frequency:	1.5" (38mm) throat. 3" (76mm) coil diaphragm assembly
Nominal Impedance:	8 Ω
Input power Rating:	100W AES
Sensitivity <sup>1</sup> :	111 dB. 1W @ 1m

### PHYSICAL

Enclosure:	Trapezoidal. 42° side angles 15 mm birch plywood construction
Rigging inserts:	6 x fly tracks, + pole mount, aluminum side handles
Color:	Black. scratch resistant paint
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Speakon® NL4
Dimensions (H x W x D):	23.62"x15.74"x15.74" 600x400x400 mm
Weight:	63.49 lb - 28.8Kg

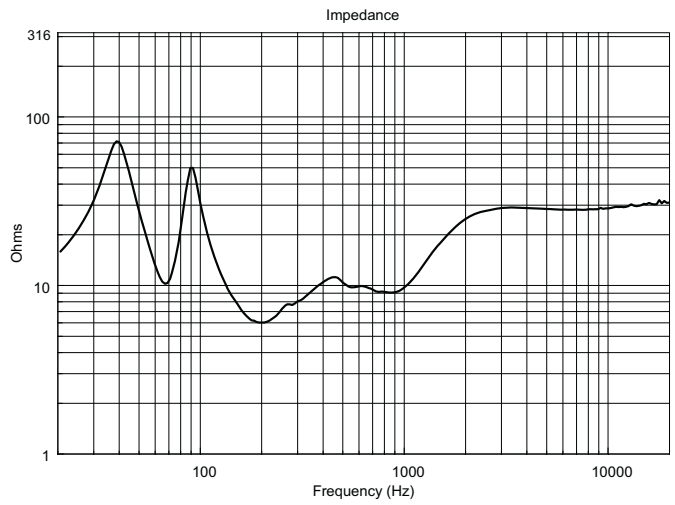
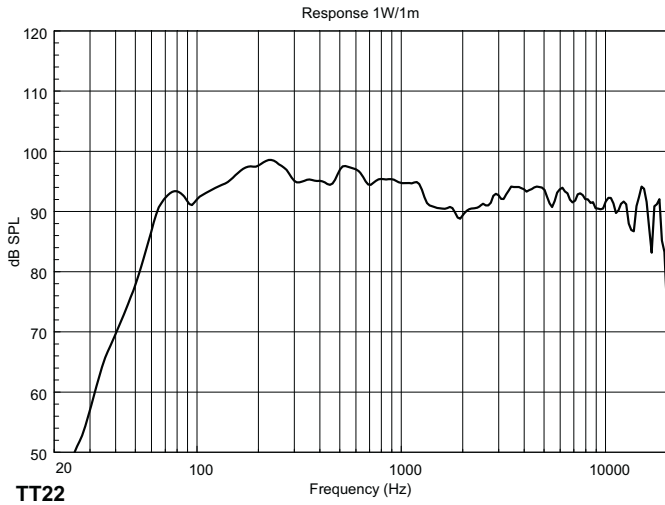
<sup>1</sup> Measured on axis in the far field with 1 watt (2.83V RMS, 8Ω) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

<sup>2</sup> AES using 20Hz to 20kHz, PN Spectrum, Peak for 2 hours with +6 dB crest factor.

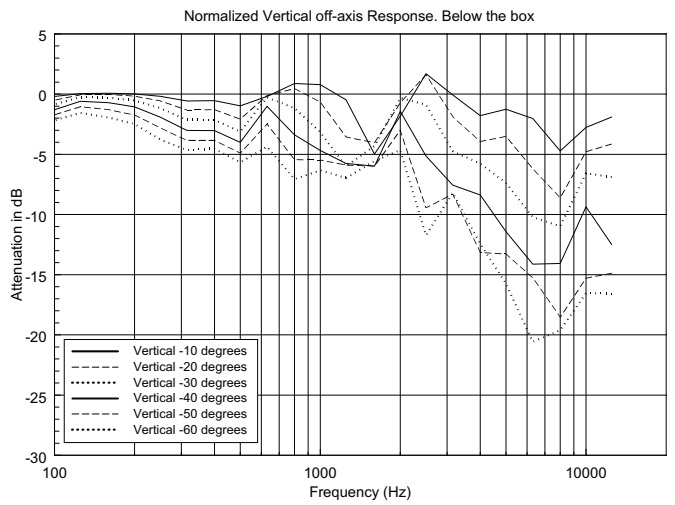
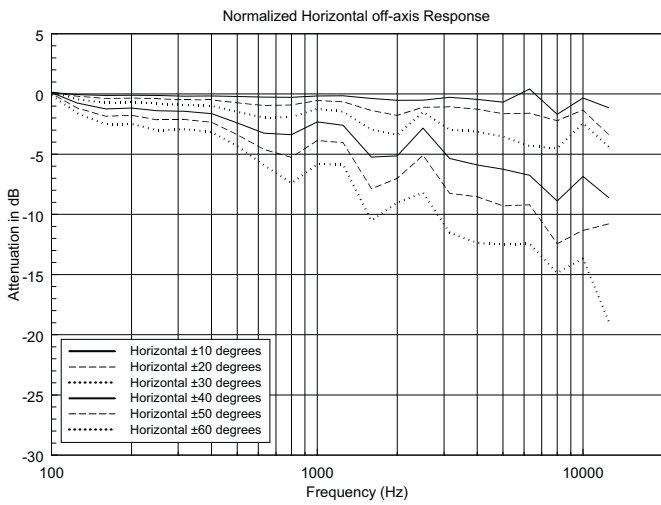
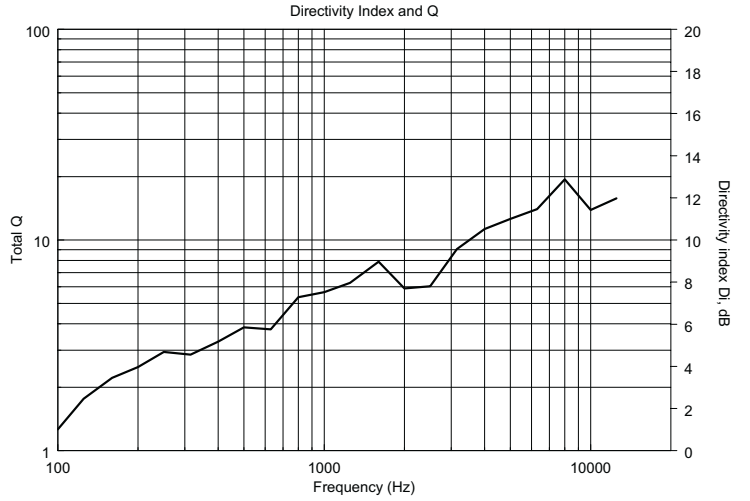
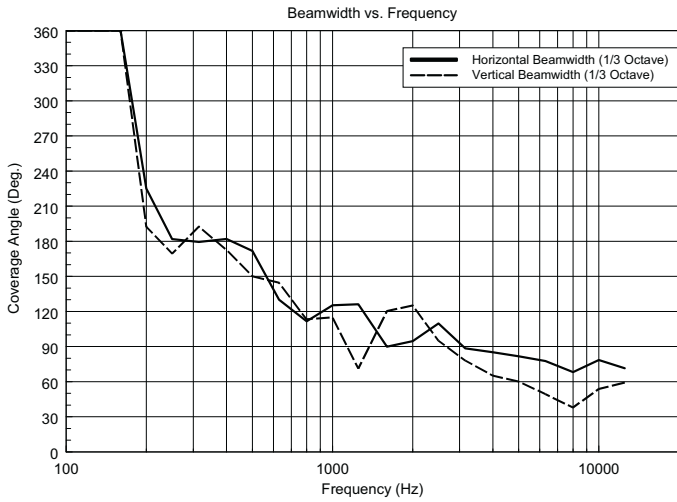
<sup>3</sup> Recommended Amplifier is a power capability value that should be taken as a guide.

the rules of sound

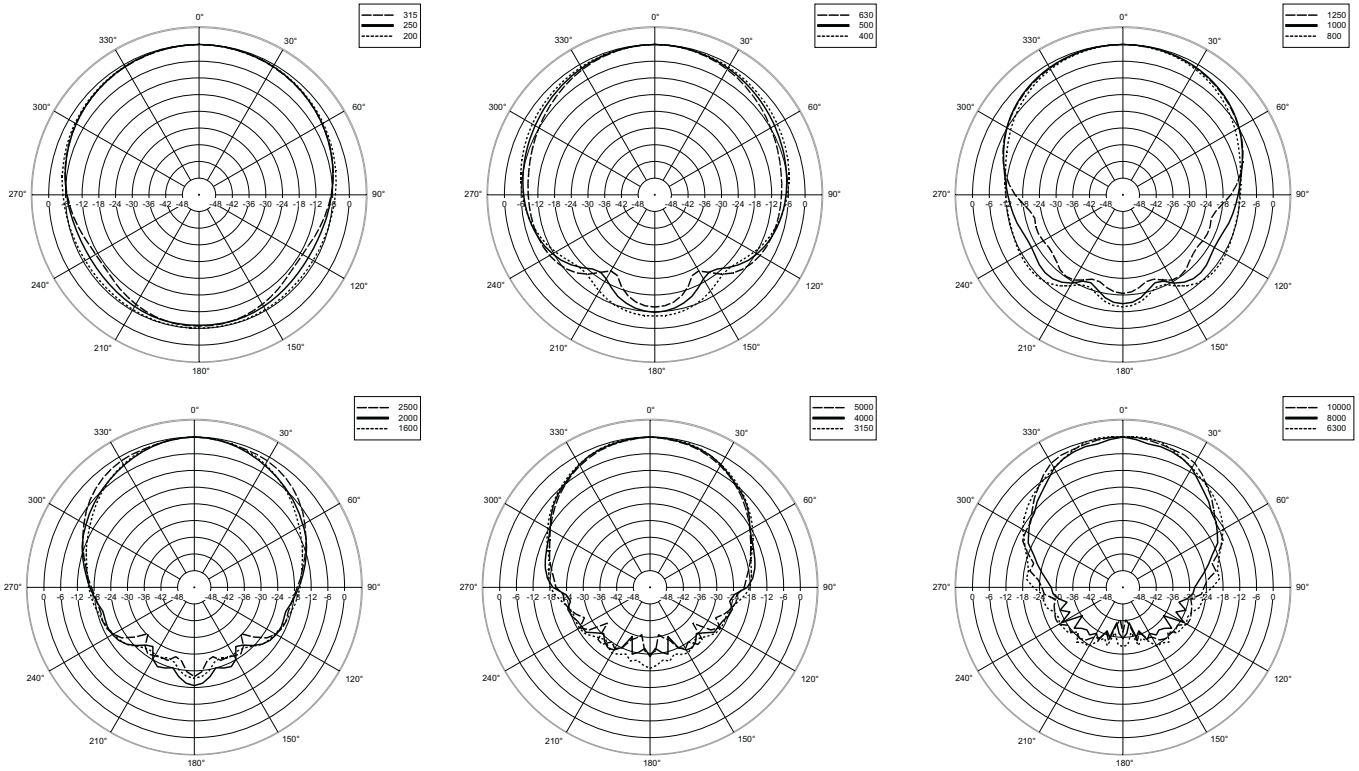




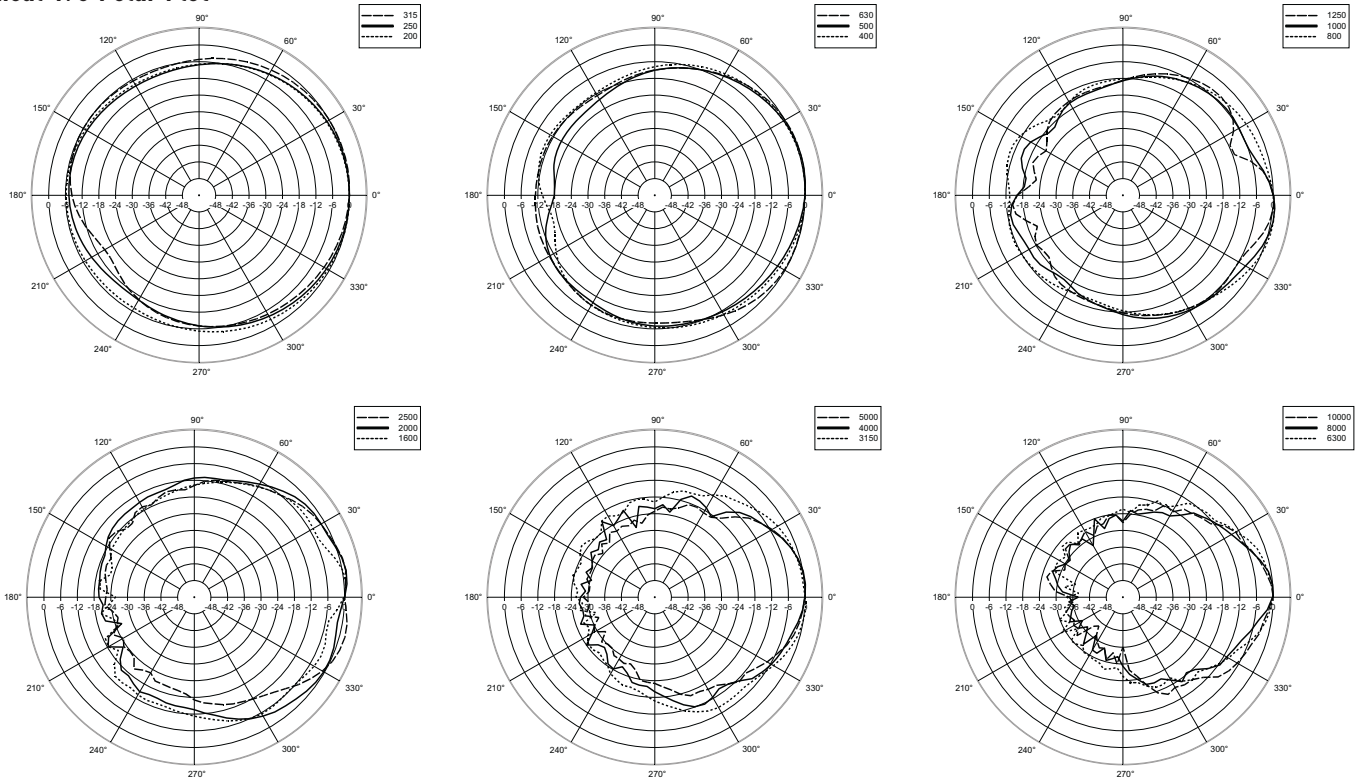
TT22



**Horizontal 1/3 Polar Plot**



**Vertical 1/3 Polar Plot**



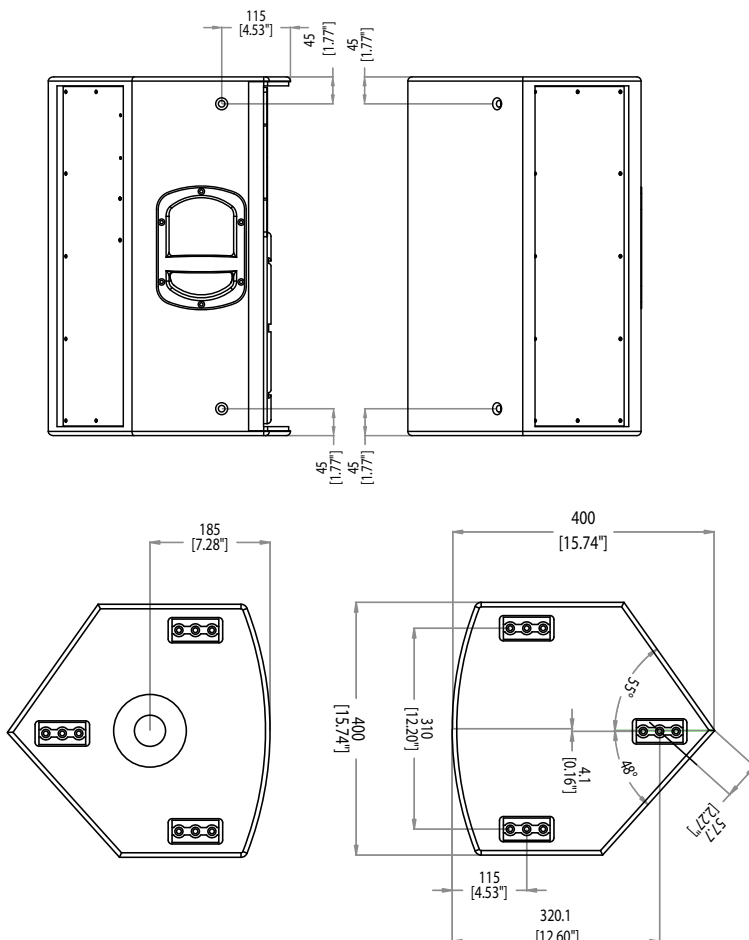
CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

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, 42100 Mancasale, Reggio Emilia, Italy.
- B. Model number: TT22



2.02 Design

Configuration	high output 2 way speaker
LF Sub-section	12" neodymium woofer, 100 mm voice coil
MR Sub-section	-
HF Sub-section	1,5" neodymium, 76 mm voice coil

2.03 Acoustical Properties

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

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	6 x fly tracks, + pole mount, aluminum side handles
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Speakon® NL4
Dimensions (H x W x D):	600x400x400 mm (23.62"x15.74"x15.74")
Weight:	28.8 kg (63.49 lbs.)

2.05 Accessories

AC PM M20	M20 pole mount for TT22-A or TT25-A speakers.
ACS 260	Steel speaker floor stand, load capacity up to 60 kg.
ACS 140	Steel speaker floor stand, load capacity up to 40 kg.
Cover TT22	Protection cover for TT22.
AC DS4X	Kit 4 hook kit for suspending fly track bar.
AC EB4X	Kit including No. 4 shouldered 0.39 inch eye bolts.
AC NL4F 4X	Kit 4 male Speakon connectors kit 4 poles.

