



RENKUS-HEINZ

Coherent Topology Systems

CT6K SERIES



Integrating Innovations for Breakthrough Performance

CT6K Series systems integrate Ralph Heinz' latest breakthroughs to achieve unprecedented performance. Because acoustics is a physical phenomenon, these advanced systems incorporate physical solutions to longstanding acoustical problems. TRue Array Principle (TRAP) enclosures ensure optimum coverage in tight-packed arrays. Complex Conic horns provide superior pattern control and more natural reproduction than conventional horns. Patented CoEntrant topology creates a new type of wideband, low distortion point source transducer. The result of integrating these new ideas is a system that redefines "reference quality" in medium- to large-scale sound reinforcement.

Advanced Complex Conic Horn Design

Designed around the spherical expansion of the acoustic pressure wave, Complex Conic horns provide constant beamwidth/directivity without the problems of conventional rectangular horns. These unique waveguides eliminate low frequency "pattern flip". The circular mouth has no corners to cause high frequency "feathering" and the resulting distortion.

With extended pattern bandwidth, lower distortion and minimal coloration, Complex Conic horns work better and sound far more natural than ordinary horns.

Because they have no large planar surfaces, Complex Conic horns are less prone to in-band resonances than ordinary horns. To eliminate resonance-induced coloration, CT6K Series horns are molded from UHMW Polyurethane.

ACOUSTICALLY COHERENT TOPOLOGIES

are integrated in high performance systems for applications that demand 135 dB peak SPL and reference quality

COENTRANT TOPOLOGY (U.S. Pat. 5,526,456)

Integrates a midrange cone and HF compression driver into a true point source with inherent time-alignment

COMPLEX CONIC: THE NEXT STEP IN HORN EVOLUTION

Complex Conic horns provide superior pattern control and more natural sound; may be rotated 90°

TRAP "TRUE ARRAY PRINCIPLE" CONFIGURATION

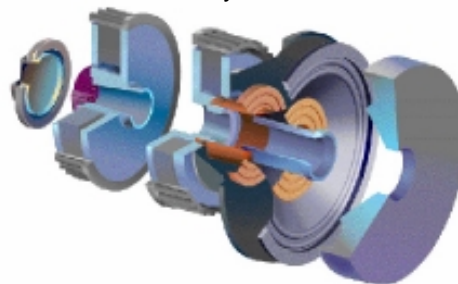
Assures coincident acoustical centers and minimal comb filtering in tight packed arrays

HORN LOADED HIGH POWER 15" WOOFER

Handles 800 Watts program power, maintains pattern control to 200 Hz: Complex Conic UHMW Polyurethane horn eliminates passband resonances

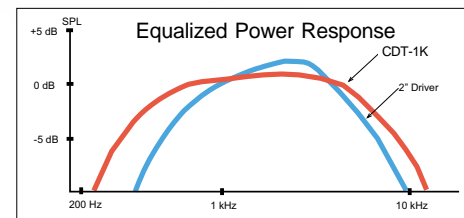
Patented CoEntrant Topology

Integrates the acoustic output of an 8" cone and a 1" compression driver into a wideband, high power true point source. The result is a revolutionary new type of transducer that outperforms ordinary compression drivers in every dimension: power handling, frequency response, distortion, reliability, etc.



Cutaway view showing the unique Coentrant design of the CDT-1K

Equalized Power Response Chart clearly shows the superior bandwidth of the CDT-1K



TRAP (TRue Array Principle) Operation

The Complex Conic waveguides used in these loudspeakers can also be easily rotated 90° within the cabinet. This converts the CT6/64K and CT6/94K loudspeakers into true TRAP modules that combine smoothly in arrays to drastically reduce comb filtering effects. The CT6/44K's symmetrical 40° pattern is TRAP-able without rotation.

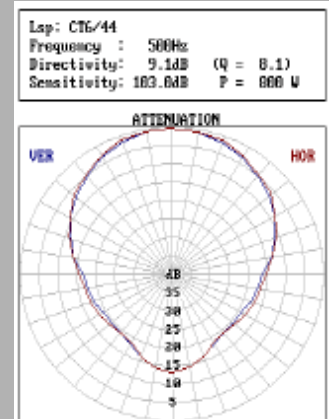
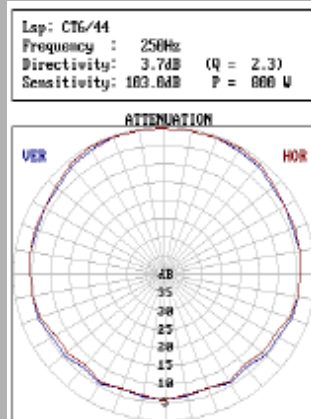
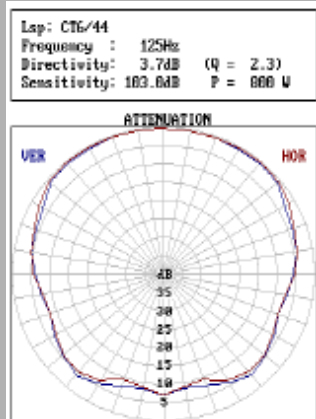
125 Hz

250 Hz

500 Hz

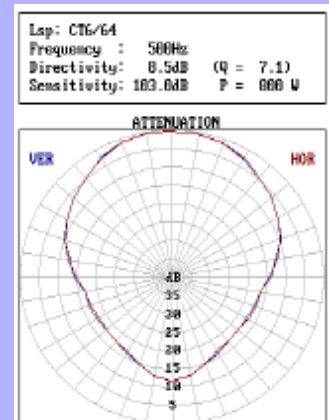
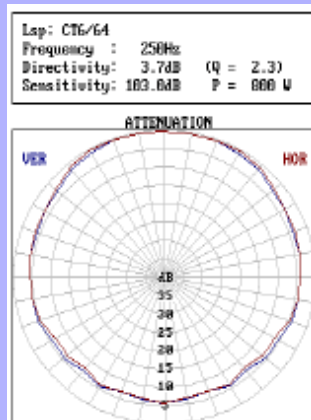
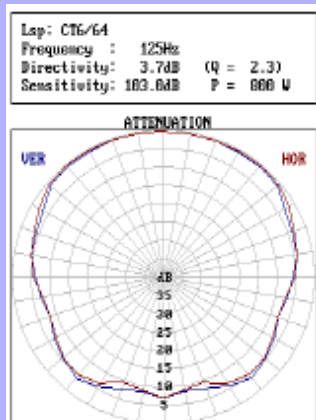
CT6/44K

40° by 40°



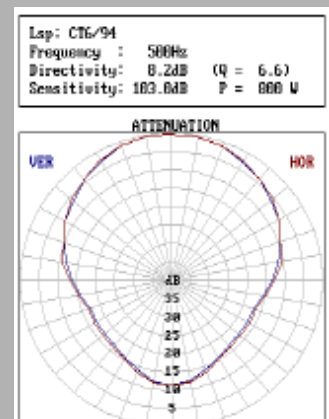
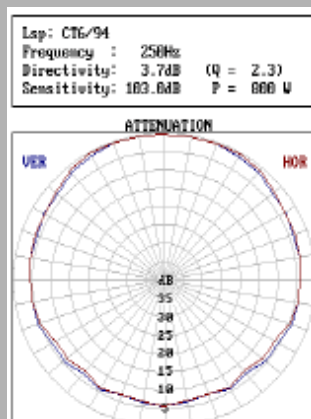
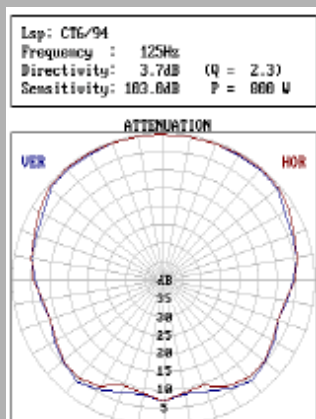
CT6/64K

60° by 40°



CT6/94K

90° by 40°

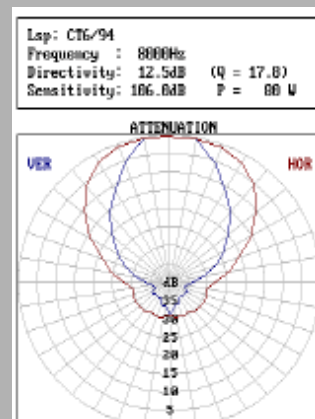
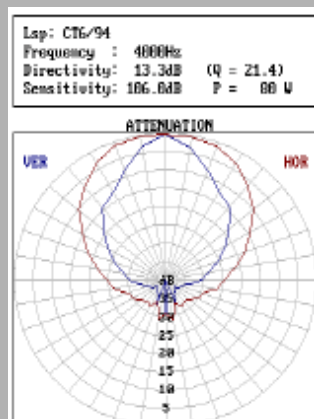
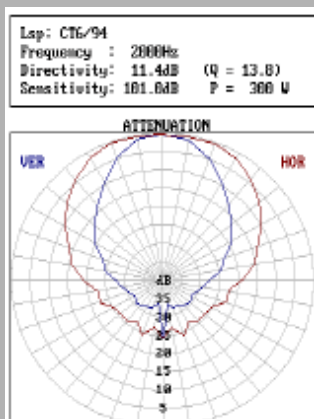
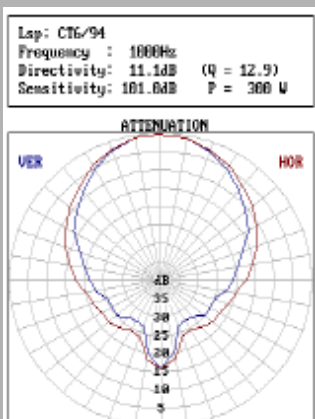
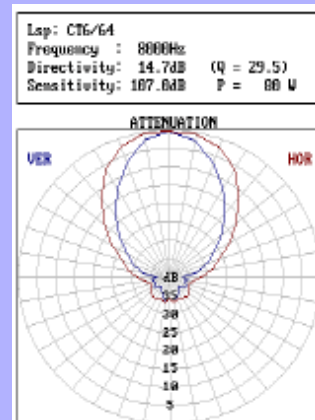
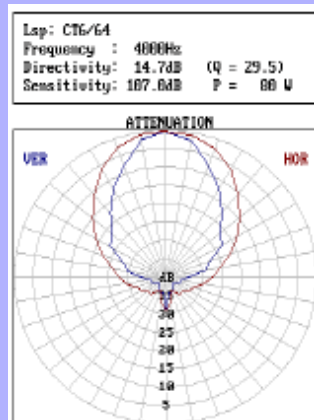
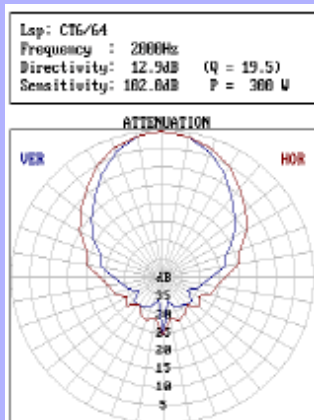
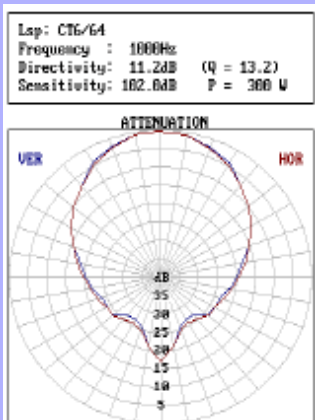
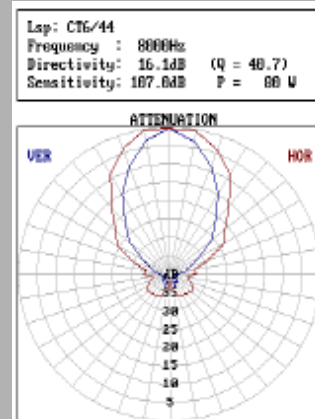
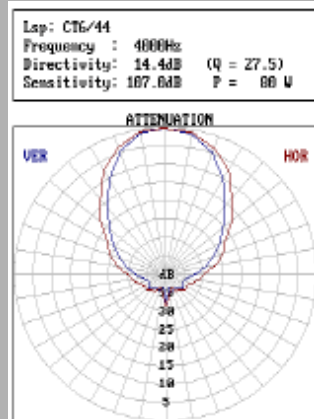
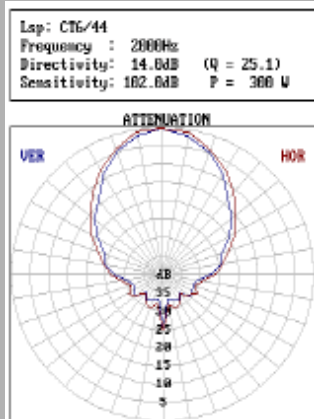
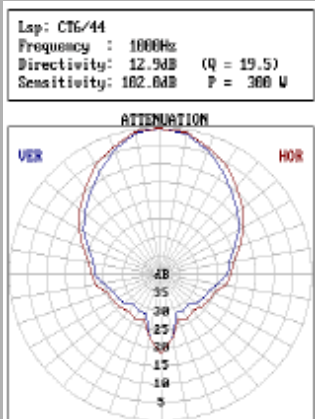


1000 Hz

2000 Hz

4000 Hz

8000 Hz

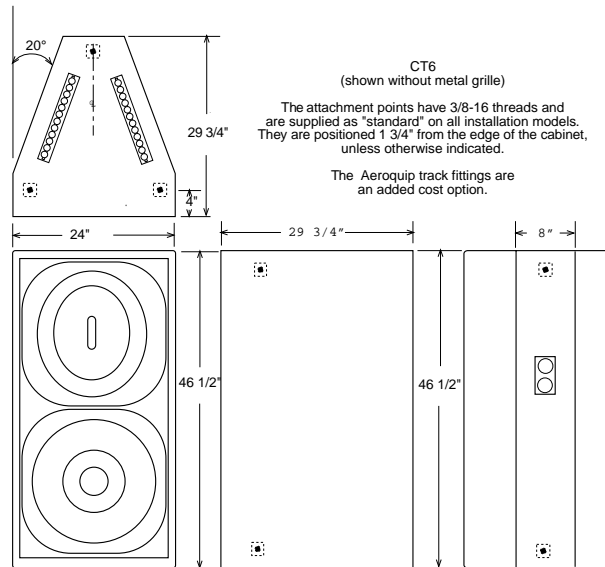


TECHNICAL SPECIFICATIONS

All specifications are with loudspeaker specific processing

<p>SENSITIVITY: 103 dB @1w/1m</p> <p>MAXIMUM SPL : 133 dB pgm on CT6/44K & CT6/64K 132 dB pgm on CT6/94K</p> <p>DISPERSION: CT6/44K: 40° H by 40° V CT6/64K: 60° H by 40° V CT6/94K: 90° H by 40° V</p> <p>FREQUENCY RESPONSE: 60 Hz to 18 kHz</p> <p>MID/HIGH DRIVER: CDT-1K CoEntrant w/2" throat, 1" HF & 8" mids; 150 Watts RMS into 8 Ohms (300 Watts program). M/H passive crossover included.</p> <p>LOW FREQUENCY DRIVER: SSL15-6 15" woofer; 4" VC, weather resistant treated paper cone. 400 Watts RMS into 8 Ohms (800 Watts program)</p>	<p>CROSSOVER POINTS: 600 and 1500 Hz</p> <p>ENCLOSURE MATERIALS: Multi-ply hardwood with perforated metal grille</p> <p>CONNECTOR OCTIONS: Neutrik NL4MPR or screw terminals</p> <p>FINISH OCTIONS: Black carpet, black or white paint, Natural (unfinished) Weather resistant (add suffix WR)</p> <p>HARDWARE OCTIONS: Handles, 12-point 3/8-16 univ. mtg. hdw, FT-010 Aeroquip fly-track</p> <p>DIMENSIONS: 46 1/2" H x 24" W x 29 3/4" D (118.1 cm x 61 cm x 75.6 cm)</p> <p>NET WEIGHT: 164 Lbs (74.4 Kg) net</p> <p>ASSOCIATED ITEMS: R-H System Specific power amplifiers and Loudspeaker Specific processor modules. X series controllers, D26 digital controller</p>
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DIMENSIONAL INFORMATION



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz () or approved equal full-range, 3-way loudspeaker system utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or conical horns, or systems with separate midrange and high frequency transducers, will not be considered equal.

The loudspeaker system shall consist of a heavy duty 15" woofer and a CoEntrant mid/high driver coupled to a single complex conic horn. The 15" woofer shall have a 4" VC, heavy-duty fiber cone and 800 Watt power rating. The mid/high driver shall include a 1" HF driver and 8" weather resistant treated paper cone mid frequency driver having a 300 Watt at 8 Ohms power rating. The enclosure shall be a 40° trapezoidal cabinet constructed from multi-ply hardwood. It shall include a built-in mid/high crossover network.

The loudspeaker shall provide closely controlled () horizontal dispersion and () vertical coverage. Sensitivity shall be no less than 103 dB @ 1W, 1m. Maximum program SPL shall be at least () dB. The frequency response shall be 35 Hz to 18 kHz.

The finish shall be (black carpet) (black paint) (white paint) (natural) (weather resistant). Connectors shall be (4-pin Neutrik)(screw terminals). The loudspeaker shall be no larger than 46 1/2" high, 24" wide and 29 3/4" deep. It shall weigh no more than 164 Lbs. A matching perforated metal grille shall be included. The enclosure shall be equipped with (universal mounting hardware providing a minimum of twelve 3/8-16 attachment points) (top and bottom mounted Aeroquip fly track).



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