

Outstanding Performance - Unequaled Versatility

CDT500K series horn type loudspeakers unite advanced technology and application-driven engineering to bring better sound closer to a wide range of indoor and outdoor applications.

Patented CoEntrant M/H transducers and unique innovations such as our Complex Conic horns combine to deliver natural sounding, highly intelligible speech over large areas.

Wherever audiences and operators demand superior performance Renkus-Heinz loudspeakers are a wise choice for superior quality and performance.

Applications

- Virtually any sound reinforcement application where speech intelligibility and directional control are critical issues.
- Sound reinforcement systems for stadiums, athletic fields and arenas.
- Outdoor voice announcement and alarm systems.

Integrating Innovations for Breakthrough Performance

CDT500 series horns feature Complex Conic waveguide technology and the unique Renkus-Heinz CDT-1L CoEntrant mid/high frequency driver. They offer smooth pattern control down to 500 Hz along with tonal quality unattainable with conventional high frequency drivers.

Advanced Complex Conic Horn Design

Complex Conic technology combines the best features of constant beamwidth and oval horn designs into a complex waveguide that produces superior pattern control, especially at higher frequencies. Their smooth contours also eliminate high frequency "feathering" distortion that creates the harshness associated with rectangular horns. The result is less high frequency coloration and a far more natural sound than any other horn technology provides.

Exclusive CoEntrant Design

The 2-way CoEntrant design of the CDT-1L driver allows it to handle high power levels at least an octave lower in frequency than conventional 2" compression drivers. Their 1" high frequency driver operates in the 1500 Hz, and above, frequency range in which it's most efficient. The 8" cone mid range driver takes over below 1500 Hz and provides low end performance simply not available from conventional high frequency drivers.

CDT500K Series

CDT500K

90° x 40° 60° x 40° 60° x 60° 40° x 40°

COMPLEX CONIC HORNS with 2" THROAT COENTRANT M/H DRIVERS



- **Patented CoEntrant Topology (U.S. Pat. 5,526,456)**
Integrates the acoustic output of an 8" cone and a 1" HF compression driver into a wideband, true point source with inherent time -alignment.
- **Exclusive Complex Conic design**
provides constant beamwidth/directivity without the problems of conventional rectangular horns.
- **1-Inch High Frequency Compression Driver**
Provides crystal clear highs from 1800 Hz to 18 kHz.
- **8-Inch Mid-Range Cone Transducer**
Easily extends response down to 500 Hz with minimal distortion and high power handling.
- **Weather Resistant**
Sealed driver enclosure and weather resistant cone offer maximum protection from the elements.
- **Choice of Coverage Patterns**
Tightly controlled 40° by 40°, 60° by 40°, 60° by 60° and 90° by 40° coverage patterns.

TECHNICAL INFORMATION

Sensitivity:

CDT500/44K: 103 dB (1w/1m) @ 1kHz
CDT500/64K: 103 dB (1w/1m) @ 1kHz
CDT500/66K: 102 dB (1w/1m) @ 1kHz
CDT500/94K: 102 dB (1w/1m) @ 1kHz

Maximum SPL:

CDT500/44K: 123 dB program @ 1kHz
CDT500/64K: 123 dB program @ 1kHz
CDT500/66K: 122 dB program @ 1kHz
CDT500/94K: 122 dB program @ 1kHz

Dispersion:

CDT500/44K: 40° H by 40° V
CDT500/64K: 60° H by 40° V
CDT500/66K: 60° H by 60° V
CDT500/94K: 90° H by 40° V

Freq Response: 500 Hz to 18 kHz

High Freq. Driver: 1" compression driver, 40 W RMS at 8 Ohms, 80 W program.

Mid Freq. Driver: 8" fiber cone driver, 150 W RMS at 8 Ohms, 300 W program

Crossover Points: 500 Hz & 1800 Hz <None>

Crossover: Built-in, 350 W Program at 8 Ohms.

Connector Options: Screw terminals: 4 foot "pig-tail"

Finish: Black

Dimensions: See drawing below

Net Weight: See drawing below

Assoc. Equipment: CDT500KYOKE Mounting Bracket
PGA-CDT500 Protective Grille

DIMENSIONAL INFORMATION

