



RENKUS-HEINZ



CEM64-2K CEM94-2K

High-Power **CoEntrant** Loudspeaker Modules



EXCLUSIVE COENTRANT DESIGN (U.S. Pat. 5,526,456)

Provides true point source performance with outstanding resolution and tonal clarity

CONSTANT BEAMWIDTH HORN

performs as a point source from 350 Hz to 18 kHz with flat power response, consistent tonal balance

TIGHTLY CONTROLLED BROADBAND COVERAGE

CoEntrant Waveguide Technology provides wide band control with constant Q through crossover

UNIQUE MID FREQUENCY DESIGN

uniquely combines four 6.5 drivers for optimum high-level mid-frequency performance

MATCHING LOW FREQUENCY ENCLOSURE

companion CELF15-2K low frequency enclosure provides solid lows down to 50 Hz

DUAL 1" HIGH FREQUENCY DRIVERS

dual 1" drivers, phase coherent coupler provide high level, crystal clear highs out to 18 kHz.

Exclusive CoEntrant Design

The CEM64-2K and CEM94-2K mid/high modules were developed as replacements for large format horns in applications that require better sound. They include a passive crossover network that eliminates the need for an external crossover and bi-amplification. Together with their associated CELF15-2K low frequency enclosure, these loudspeaker systems represent a high performance alternate to the traditional horn/bass cabinet approach. They feature CoEntrant Waveguide Technology, a patented Renkus-Heinz breakthrough in loudspeaker design that provides true point source performance along with natural signal alignment and tightly controlled wide-band dispersion. The end result is tight horizontal and vertical pattern control down to 350 Hz with near perfect imaging and unprecedented sound clarity, even at high SPL levels.

True Point Source Performance

The unique CoEntrant design of these loudspeakers ensures proper signal alignment and constant directivity and Q through crossover. This enables them to provide tonal balance and resolution not attainable from other designs. Dual extended-range, high-frequency drivers and four 6.5" carbon fiber mid-range drivers complete the picture.

Unique Mid Frequency Design

The unique design of these loudspeaker modules features four 6.5" mid-range drivers; two in the normal CoEntrant mid/high configuration and two in a separate horn identical in size and construction to the normal section. This assures that both horn sections are fully signal aligned with the other transducers to maintain smooth, wide-band directional control and "Q". The natural signal alignment and smooth transition between the two horns allow the four 6.5 mid-range drivers to operate in parallel for optimum high-level, wide-band performance.

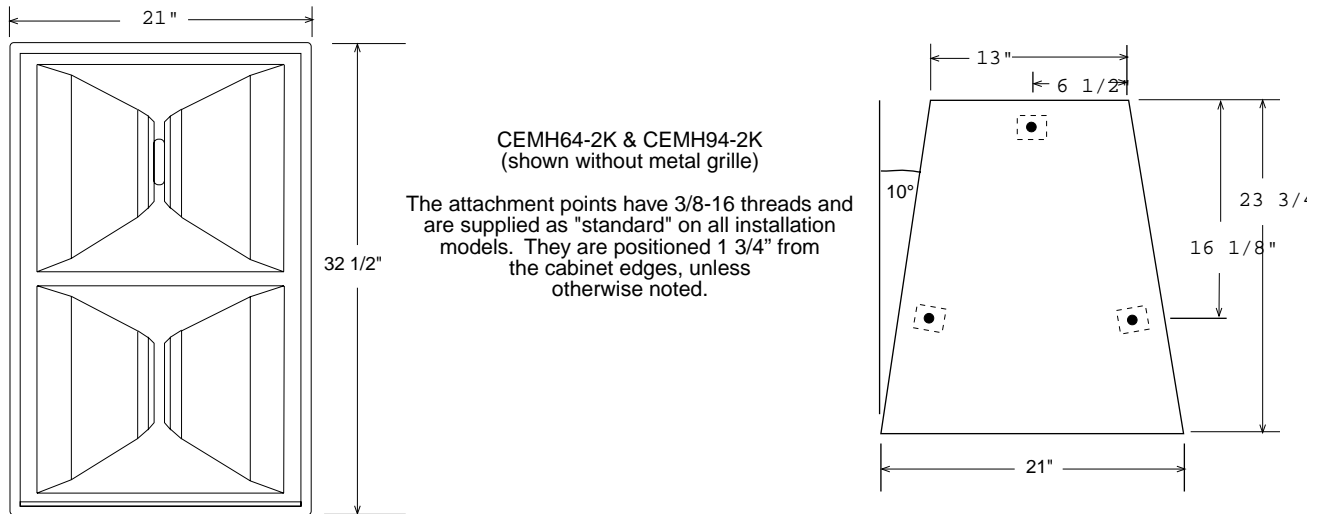
Custom Flexibility

The CEM64-2K and CEM94-2K loudspeakers are available for either portable use or for permanent installations. Portable models are normally provided with handles and Neutrik connectors. Fixed installation models are usually supplied with screw terminals and universal mounting hardware in place of the handles and connectors. The standard finish is black paint. Optional finishes include black carpet, white paint and "natural" (unfinished) to allow customizing. Weather resistant models are also available. Mounting hardware choices include Aeroquip track fittings and a universal mounting hardware system offering 12 3/8-16 attachment points.

CEM64-2K & CEM94-2K TECHNICAL SPECIFICATIONS

<p>SENSITIVITY: CEM64-2K: 108 dB @ 1w/1m CEM94-2K: 107 dB @ 1w/1m</p> <p>MAXIMUM SPL: CEM64-2K: 138 dB program, 141 dB peak CEM94-2K: 137 dB program, 140 dB peak</p> <p>DISPERSION: CEM64-2K: 60° H by 40° V CEM94-2K: 90° H by 40° V</p> <p>FREQUENCY RESPONSE: 350 Hz to 18,000 Hz</p> <p>HIGH FREQUENCY DRIVERS: Two 1" SDA202-16, 80 W RMS at 8 Ohms total, 160 W Program</p> <p>MID FREQUENCY DRIVERS: Four SSL 6.5-3, 6.5" carbon fiber cone drivers, 520 W RMS at 4 Ohms total, 1040 W Prog.</p> <p>POWER RATING: 1040 Watts program at 4 Ohms</p>	<p>CROSSOVER POINTS: 300 Hz & 2.2 kHz</p> <p>ENCLOSURE: 13 ply hardwood, heavily braced</p> <p>GRILLE: Perforated metal grille with moisture resistant foam insert</p> <p>CONNECTOR OPTIONS : Neutrik NL4MPR Screw terminals</p> <p>FINISH OPTIONS: Black or white paint, black carpet, Natural, Weather resistant</p> <p>HARDWARE OPTIONS: UMH-12 3/8 12-point universal mounting system, Handles</p> <p>DIMENSIONS: 32.5" H x 21" W x 23.75" D (82.6 cm x 53.3 cm x 60.3 cm)</p> <p>NET WEIGHT: 150 Lbs. (68 kg)</p> <p>ASSOCIATED EQUIPMENT: X Series controllers, D26 digital controller, R-H amplifiers with C & PK-A controller modules</p>
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DIMENSIONAL INFORMATION



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz (CEM64-2K) (CEM94-2K) or equal CoEntrant system with true point source performance.

The loudspeaker system shall consist of dual 6.5" carbon fiber cone MF drivers and dual extended-range 1" HF drivers coupled to a single mid/high frequency horn plus two additional 6.5" MF drivers coupled to a second horn. The speaker shall provide (60° x 40°) (90° x 40°) coverage. The loudspeaker shall also include a built-in mid/high frequency crossover network. Its program power rating shall be 1040 Watts at 4 Ohms. Sensitivity shall be no less than () dB @ 1w,1m with a maximum SPL of at least () dB and a frequency response of 350 Hz to 18 kHz.

The enclosure shall be trapezoidal in shape with 10° sides. It shall be constructed from 13 ply birch, heavily braced and lined with fiberglass to suppress resonances. It shall be no larger than 32.5" high and 21" wide, be no deeper than 23.75", and weigh no more than 150 Lbs. A matching perforated metal grille backed with protective foam shall be included.

The finish shall be (black paint) (white paint) (natural) (weather resistant). Connectors shall be (4-pin Neutrik) (screw terminals).

The enclosure shall be equipped with (3/8-16 universal mounting hardware offering 12 attachment points) (handles).