



# RENKUS-HEINZ



# CE3TKA

## 3-Way CoEntrant Loudspeaker System



### **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 500 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

### **ASYMMETRICAL VERTICAL DISPERSION**

plus 10°, minus 20° asymmetrical vertical coverage is ideal for stacking

### **HORN LOADED LOW FREQUENCY SECTION**

dual 12" woofers in an efficient horn loaded 8th order bandpass design provide solid bass down to 60 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 full range CE3TKA is the primary building block in the TSC loudspeaker family developed by Renkus-Heinz specifically for the touring market. They feature CoEntrant Waveguide technology, a Renkus-Heinz breakthrough in loudspeaker design techniques that provides true point source performance along with natural signal alignment and tightly controlled dispersion. The end result is unprecedented sound clarity and near perfect imaging, even at high SPL levels.

The CE3TKA is intended for use in tri-amped systems along with an associated Renkus-Heinz analog or digital controller.

### **True Point Source Performance**

The CE3TKA's unique CoEntrant design ensures proper signal alignment and constant directivity and Q through crossover. This enables it to provide tonal balance and resolution not attainable from other designs. Dual 6.5" carbon-fiber, mid-range drivers, dual extended-range, high-frequency drivers and dual heavy-duty, 12" woofers complete the picture. They add virtually distortion free performance from 60 Hz to 18 kHz to the CE3TKA's credentials.

### **Horn Loaded Low Frequency Section**

The dual 12" woofers used in the CE3TKA are horn loaded and fully signal aligned with the mid/high section to provide identical directional control and constant "Q" through crossover. The efficient horn loaded, band pass design provides solid bass down to 60 Hz, often eliminating the need for subwoofers. For applications that require higher levels of low frequency energy, dual 15" and 18" subwoofers are available.

### **Asymmetrical Vertical Coverage**

The CE3TKA also feature asymmetrical plus 10° and minus 20° vertical coverage for reduced ceiling reflections and improved intelligibility in indoor applications. In stacking venues, the asymmetrical coverage also effectively eliminates the need to tip the loudspeaker cabinets forward to aim them down into the audience.

### **Choice of Finish, Rigging Methods & Accessories**

Side mounted Aeroquip fly tracks offer metal-to-metal reliability and are ideal for large arrays. The CE3TKA is normally furnished with a back paint finish, but black carpet and weather resistant versions are also available on request.

## CE3TKA TECHNICAL SPECIFICATIONS

All specifications are with associated controller

<b>SENSITIVITY:</b>		<b>CROSSOVER POINTS:</b>	
<b>Highs:</b>	112 dB (1w/1m) @ 2.5 kHz	350 Hz and 2.2 kHz	
<b>Mids:</b>	100 dB (1w/1m) @ 500 Hz	<b>ENCLOSURE</b>	
<b>Lows:</b>	104 dB (1w/1m) @ 200 Hz	13 ply hardwood, heavily braced	
<b>MAXIMUM SPL:</b>	134 dB program, 137 dB peak	<b>GRILLE:</b>	Perforated metal grille with moisture resistant foam insert
<b>FREQUENCY RESPONSE:</b>	60 Hz to 18,000 Hz	<b>CONNECTORS:</b>	Neutrik NL8MPR
<b>HIGH FREQUENCY DRIVERS:</b>	Two model SSD1802-16 1" throat, 160 W pgm @ 8 Ohms (total), 80 W RMS (total)	<b>FINISH:</b>	Black paint or carpet
<b>MID FREQUENCY DRIVERS:</b>	Two model SSL 6.5-3, 6.5" carbon fiber cone drivers 520 W pgm @ 8 Ohms (total), 260 W RMS (total)	<b>AEROQUIP TRACK:</b>	Model FT2-C3 factory installed
<b>HIGH / MID FREQ. HORN:</b>	Constant beamwidth, 60° H by 30° V (asymmetrical plus 10° & minus 20°)	<b>LOCATION:</b>	Side mounted
<b>LOW FREQUENCY DRIVERS:</b>	Two SSL 12-7K, 12" cone, 1400 W Prog. @ 4 Ohms (total), 700 Watts RMS (total)	<b>DIMENSIONS:</b>	32.5" H x 21" W x 23.75" D (82.6 cm x 53.3 cm x 60.3 cm)
		<b>NET WEIGHT:</b>	175 Lbs. (79.4 kg) with flying hardware
		<b>ASSOCIATED EQUIPMENT:</b>	X series controllers, D26 digital controller. R-H amplifiers with C & PK-A controller modules

## DIMENSIONAL INFORMATION

