



# RENKUS-HEINZ



## SR6K Series

### 3-Way COENTRANT / COMPLEX CONIC Loudspeakers



#### Full Range, High Performance 3-Way Systems

The SR6K series offers outstanding full-range, 50 Hz to 18 kHz performance in surprisingly compact 3-way loudspeaker systems. Unmatched mid/high frequency performance is achieved with the patented CDT-1K CoEntrant driver and unique Complex Conic waveguides. Lows are provided by a heavy-duty 12" woofer with a 4" voice coil for maximum power handling and low distortion. A built-in mid/high crossover provides for bi-amp operation.

#### Full Passive Models Available

SR6K loudspeakers are also available in PS models that include a passive mid/high to low frequency crossover network to eliminate the need for bi-amping.

#### Exclusive Complex Conic Design

Complex Conic horn technology combines the best features of constant beamwidth (also called constant directivity) and oval horn designs into a complex conical waveguide that provides superior pattern control, especially at the higher frequencies. It completely eliminates "pattern flip", a phenomenon of constant beamwidth horns that reverses the dispersion characteristics at some frequencies. The smooth contours of the complex conic waveguide also reduce high frequency "feathering" and the accompanying distortion. The result is lower distortion, reduced high frequency coloration and a far more natural sound than that provided by any prior horn technology.

#### 3-WAY 12" SYSTEMS

offer full range 50 Hz to 18 kHz performance and 123 dB output SPL

#### COENTRANT MID/HIGH DRIVER (U.S. Pat. 5,526,456)

provides smooth, low distortion "true point source" performance from 600 Hz to 18 kHz

#### EXCLUSIVE COMPLEX CONIC DESIGN

Complex Conic horns provide superior pattern control with low distortion

#### HEAVY-DUTY 12" WOOFER

with a 4" voice coil and reinforced fiber cone handles 800 watts; provides solid bass down to 50 Hz

#### CUSTOM FLEXIBILITY AND VERSATILITY

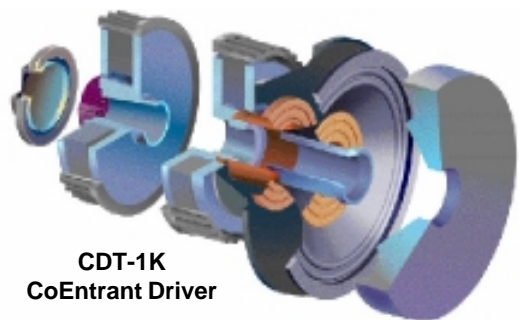
Choice of coverage patterns, dual-trapezoidal construction, numerous options offer unprecedented versatility

#### OPTIONAL CONTROLLERS

provide crossover, response and phase equalization and overload protection

#### Patented CoEntrant Mid/High Driver

The advanced new CDT-1K CoEntrant mid/high driver used in the SR6K provides the equivalent output of an 8" mid range and a 1" HF driver. Mounted to a 2" Complex Conic horn, the result is true point source performance from 600 Hz to 18 kHz with a 300 Watt power handling capacity.



CDT-1K CoEntrant Driver

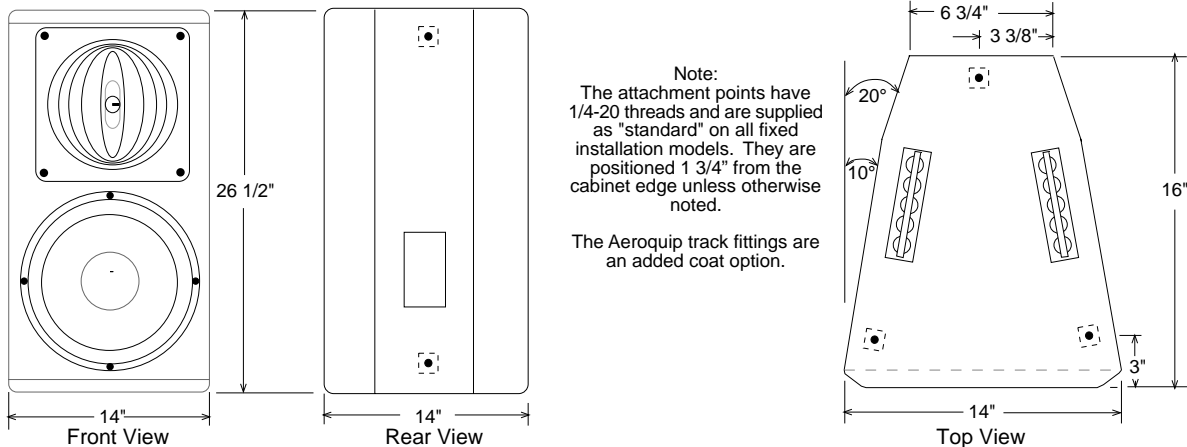
#### Custom Flexibility And Versatility

The Complex Conic horns can also be easily turned 90° within the cabinet to allow horizontal cabinet mounting. Both loudspeakers are available for either portable or fixed installation applications. Portable models are supplied with handles, a tripod socket and Neutrik connectors. Installation models are provided with screw terminals and a choice of mounting systems. Finish choices are black or white paint, black carpet, natural (unfinished), custom colors and weather resistant.

**TECHNICAL SPECIFICATIONS**  
All specifications are with associated controller

<b>SENSITIVITY:</b>	95 dB (1w/1m)	<b>ENCLOSURE MATERIALS:</b>	Multi-ply hardwood with perforated metal grille
<b>MAXIMUM SPL:</b>		<b>CONNECTOR OPTIONS:</b>	Neutrik NL4MPR or screw terminals
<b>SR6/6K:</b>	124 dB program, 127 dB peak	<b>FINISH OPTIONS:</b>	Black carpet
<b>SR6/9K:</b>	123 dB program, 126 dB peak	Black paint (standard)	
<b>DISPERSION:</b>		Natural (unfinished)	
<b>SR6/6K:</b>	60° H by 40° V	White Paint (RAL 9010)	
<b>SR6/9K:</b>	90° H by 40° V	Weather resistant (add suffix WR)	
<b>FREQUENCY RESPONSE:</b>	50 Hz to 18 kHz	<b>HARDWARE OPTIONS:</b>	Tripod socket, Handles, 12-point 1/4-20 univ. mtg. hdw, Aeroquip track, top & bottom mounted Omnimount Series 100 nut-plate
<b>MID/HIGH DRIVER:</b>	CDT-1K Coentrant driver w/2" throat; 1" HF & 8" Mids. 300 W pgm at 8 Ohms, 150 W RMS. Passive crossover included.	<b>DIMENSIONS:</b>	26 1/2" H x 14" W x 16" D (67.3 cm x 35.6 cm x 40.6cm)
<b>LOW FREQUENCY DRIVER:</b>	SSL12-7K 12" woofer; 4" VC, Kevlar cone. 800 W pgm at 8 Ohms, 400 W RMS	<b>NET WEIGHT:</b>	72 Lbs (32.7 Kg) net
<b>CROSSOVER POINTS:</b>	600 & 1500 Hz	<b>ASSOC. CONTROLLERS:</b>	X series controllers, D26 Digital controller, C series controller modules

**DIMENSIONAL INFORMATION**



**ARCHITECTS AND ENGINEERS SPECIFICATIONS**

The loudspeaker shall be a Renkus-Heinz (SR6/6K) (SR6/9K) or approved equal full-range, 3-way loudspeaker system utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or conical horns will not be considered equal.

The loudspeaker system shall consist of a heavy duty 12" woofer and a CoEntrant mid/high driver coupled to a single complex conic horn. The 12" woofer shall have a 4" VC, reinforced fiber cone and 800 Watt power rating. The mid/high driver shall include a 1" HF driver and 8" fiber cone mid frequency driver. It shall include a built-in mid/high frequency crossover network having a 300 watt at 8 Ohms power rating.

The loudspeaker shall provide closely controlled (60°) (90°) horizontal dispersion and 40° vertical coverage. Sensitivity shall be no less than 95 dB 1w, 1m with a maximum program SPL of at least ( ) dB.

The frequency response shall be 50 Hz to 18 kHz.

The enclosure shall be "dual-trapezoidal" in shape and constructed from multi-ply hardwood. 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 26 1/2" high, 14" wide and 16" deep. It shall weigh no more than 72 Lbs. A matching perforated metal grille shall be included. The enclosure shall be equipped with (universal mounting hardware providing a minimum of twelve 1/4-20 attachment points) (top and bottom mounted Aeroquip fly track) (Omnimount Series 100 nut-plate).

(The loudspeaker system shall be designed for use with an associated controller (module), Renkus-Heinz ( ) or approved equal. The controller (module) shall provide a fixed 4th order, 24 dB per octave crossover at 600 Hz, parametric equalizers for loudspeaker response smoothing and complete protection from overload damage.)

