



RENKUS-HEINZ



TRC61K

COMPACT **COMPLEX CONIC** Loudspeaker



Miniaturized Design

The TRC61K was developed specifically for the multitude of applications that require a small loudspeaker with full-size performance. The subminiature TRC61K provides outstanding 80 Hz to 20 kHz performance and a surprising 110 dB output SPL level for a loudspeaker that is only 15 1/2" high and 7 3/4" wide and 8" deep. It features a Complex Conic HF horn, an extended range 1" Titanium HF driver and a heavy-duty 6.5" woofer with a 1" voice coil and a built-in 8 Ohm crossover with a 120 Watt program power rating.

Complex Conic Horn Technology

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 many horn designs that reverses the dispersion at some frequency. 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.

MINIATURIZED DESIGN

Outstanding, full-range 80 Hz to 20 kHz performance in an extremely compact, space-saving design

EXCLUSIVE COMPLEX CONIC DESIGN

Complex Conic horn provides superior pattern control with low distortion

WIDE-ANGLE 150° by 60° COVERAGE

Complex Conic horn provides smooth 150° by 60° coverage, may be rotated 90° within cabinet

1" EXTENDED-RANGE TITANIUM HF DRIVER

provides smooth, low distortion high frequency performance to 20 kHz and beyond

HEAVY-DUTY 6.5" WOOFER

with treated fiber cone easily handles 120 Watts of program power

CUSTOM FLEXIBILITY AND VERSATILITY

trapezoidal design, built-in mounting hardware and wide choice of finishes simplify installation

Wide-Angle 150° x 60° Coverage

The carefully designed Complex Conic horn and the powerful 6.5 inch woofer combine to provide the smooth wide-angle 150° by 60° coverage needed for low ceiling applications and in wide, but shallow rooms. The Complex Conic horn may be rotated 90° within the cabinet to allow low profile, horizontal mounting in "under balcony" type applications.

Custom Flexibility And Versatility

The subminiature TRC61K is both flexible and easy to install. Its 10° trapezoidal construction is both simple to array and a natural for inconspicuous ceiling or wall mounting. It is normally supplied with 1/4-20 universal mounting hardware, with Omnimount Series 50 nut-plates available as an option. U brackets are also available. A built-in 8 Ohm, 120 Watt crossover and easy-to-connect-to screw terminals or Neutrik 4-pin connectors complete the picture.

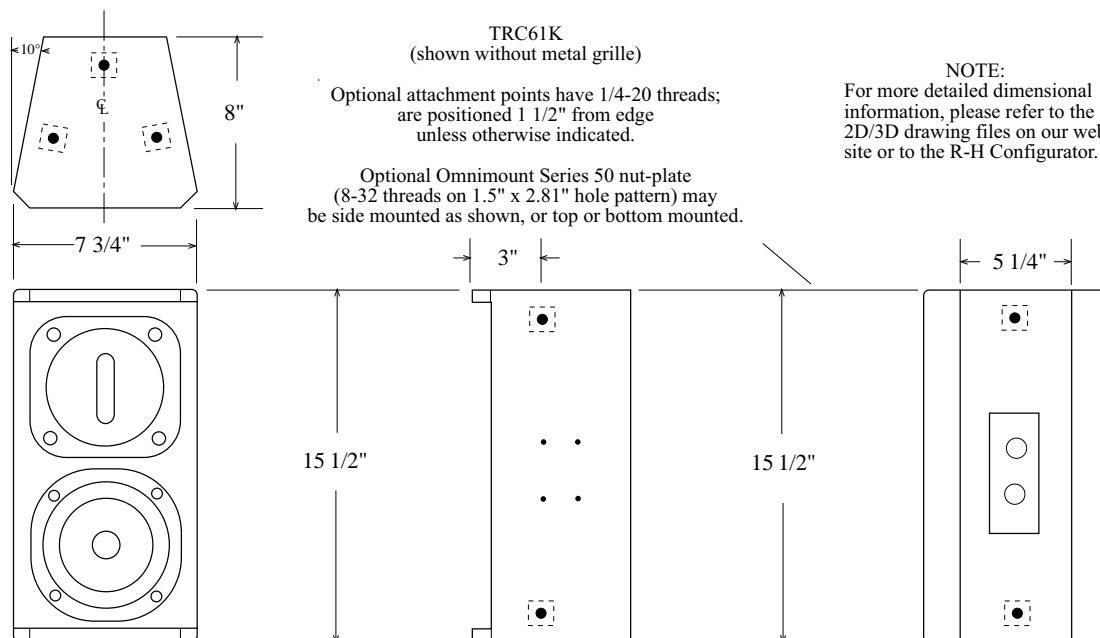
Wide Choice of Finishes

Finish choices include black or white paint and natural (unfinished) for customizing in the field. Completely custom colors and weather resistant models are also available as added cost options.

TECHNICAL SPECIFICATIONS

SENSITIVITY:	90 dB (1w/1m) @ 500 Hz	ENCLOSURE MATERIALS:	Multi-ply hardwood with perforated metal grille
MAXIMUM SPL:	110 dB program, 113 dB Peak	CONNECTORS:	Screw terminals or Neutrik 4-pin connectors
DISPERSION:	150° H by 60° V	FINISH OPTIONS:	Black, white or custom paint Natural (unfinished), weather resistant
FREQUENCY RESPONSE:	80 Hz to 20 kHz	HARDWARE:	12-point univ. mtg. hdw.; optional Omnimount Series 50 nut-plate; U bracket
HIGH FREQUENCY DRIVER:	1" SSD 102-8 Titanium driver, 15 W RMS, 30 W program	DIMENSIONS:	15 1/2" H x 7 3/4" W x 8" D (39.4 cm x 19.7 cm x 20.3 cm)
LOW FREQUENCY DRIVERS:	6.5" model SSL6.5-6 woofer, 1" VC, treated fiber cone; 60 W RMS, 120 Watts program	NET WEIGHT:	8 Lbs (3.6 Kg) net
CROSSOVER POINT:	2.8 kHz		
POWER RATING:	120 Watts program at 8 Ohms		

DIMENSIONAL INFORMATION



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz TRC61K or approved equal full-range, 2-way loudspeaker system utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or oval horns will not be considered equal.

The loudspeaker system shall consist of a heavy duty 6.5" woofers and an extended-range 1" Titanium HF driver coupled to a Complex Conic high frequency horn. The 6.5" woofer shall have a 1" VC, treated fiber cone and a program power rating of at least 120 Watts. High frequency power handling capacity shall be no less than 15 Watts RMS @ 8 Ohms The loudspeaker shall provide wide-angle 150° horizontal dispersion and 60° vertical coverage.

1w,1m sensitivity shall be no less than 90 dB @ 500 Hz with a maximum SPL of at least 110 dB. The frequency response shall be 80 Hz to 20 kHz. The enclosure shall be constructed from multi-ply hardwood. The finish shall be (black paint) (white paint) (custom color paint) (natural) (weather resistant). (screw type terminals) (Neutrik 4-pin connectors) shall also be included.

The loudspeaker shall be no larger than 15 1/2" high, 7 3/4" wide and 8" deep. It shall weigh no more than 18 Lbs. A matching perforated metal grille shall be included. The enclosure shall be equipped with (1/4-20 universal mounting hardware providing a minimum of 12 attachment points.) (nut-plates for Omnimount Series 50 mounting hardware.) (a U bracket). It shall also include a built-in crossover having a program power rating of 120 Watts at 8 Ohm.

