



### Outstanding Performance, Unequalled Versatility

TRX Series loudspeakers use advanced technology and application-driven engineering to bring live sound closer to the ultimate reference point: reality. Cutting edge driver technology and unique innovations such as our Complex Conic horns deliver natural sounding music and intelligible speech. Versatile enclosure designs, combined with a wide range of mounting options and associated hardware, provide unrestricted flexibility for both portable and installed applications. Wherever audiences and operators demand superior performance and ease of use, TRX Series loudspeakers are the choice for unequalled value.

### Applications

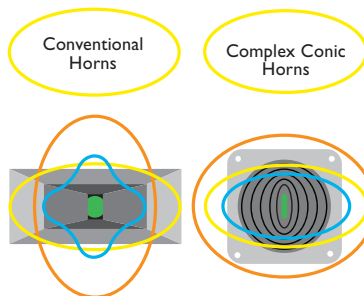
- Virtually any application where size is important and high output and outstanding sonic performance are required.
- Ideal for multi-channel playback systems in clubs and disco's (with optional subwoofers.)
- Distributed sound reinforcement systems in sports arenas and stadiums.
- Side fill loudspeakers in sound reinforcement systems.
- High output floor monitors in live sound venues



### Advanced Complex Conic Horn Design

Designed around the spherical expansion of the acoustic pressure wave, Complex Conic horns provide constant beamwidth/directivity without the problems of conventional rectangular horns. These unique waveguides eliminate low frequency "pattern flip"; have no corners to cause high frequency "feathering" and the resulting pattern distortion. With extended pattern bandwidth, lower distortion and minimal coloration, Complex Conic horns work better and sound far more natural than ordinary horns.

Nominal Coverage Patterns  
(90° by 40°, for example)



Actual patterns clearly show  
superior pattern control of  
Complex Conic Horns

Frequency Bar - low frequencies  
(red) to high frequencies (blue)



# TRX121

12" WOOFER + 1" HF  
TWO-WAY  
COMPLEX CONIC LOUDSPEAKER



### • Compact DESIGN

Outstanding, full-range 65 Hz to 18 kHz performance in a compact, multi-function design.

### • Exclusive Complex Conic Design

Complex Conic horn provides superior pattern control with low distortion.

### • Choice of Coverage Patterns

Complex Conic horns provides smooth 90° by 60° or 120° by 60° coverage, may be rotated 90° within cabinet.

### • 1" Extended Range HF Driver

Provides smooth, low distortion high frequency performance to 18 kHz and beyond.

### • Heavy-Duty 12" Woofer

With treated fiber cone easily handles 500 Watts of program power.

### • Built-in Crossover

Eliminates need for a separate electronic crossover and bi-amplification.

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## TECHNICAL SPECIFICATIONS

<b>SENSITIVITY:</b>	99 dB (1W/1m) @ 500 Hz
<b>MAXIMUM SPL:</b>	126 dB program, 129 dB Peak
<b>DISPERSION:</b>	(TRX121/9) 90° H by 60° V (TRX121/12) 120° H by 60° V
<b>FREQUENCY RESPONSE:</b>	65 Hz to 18 kHz
<b>HF DRIVER:</b>	1" SSD202-8 driver, 40 W RMS, 80 W program
<b>LF DRIVERS:</b>	12" model SSL12-12 woofer, 2.5" VC, treated fiber cone; 250 W RMS, 500 Watts program
<b>CROSSOVER POINT:</b>	1.8 kHz
<b>POWER RATING:</b>	500 Watts program at 8 Ohms
<b>ENCLOSURE:</b>	Multi-ply hardwood with perforated metal grille
<b>CONNECTORS:</b>	Screw terminals or Neutrik 4-pin connectors
<b>FINISH OPTIONS:</b>	Black, white or custom paint Natural (unfinished) Weather resistant
<b>HARDWARE OPTIONS:</b>	12-point univ. mtg. hdw. Omnimount Series 120 nut-plate U-bracket Tripod socket & handles
<b>DIMENSIONS:</b>	23" H x 14 1/4" W x 13" D (58.4 cm x 36.2 cm x 33 cm)
<b>NET WEIGHT:</b>	34 Lbs (15.4 Kg) net

## ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz (TRX121/9) (TRX121/12) 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.

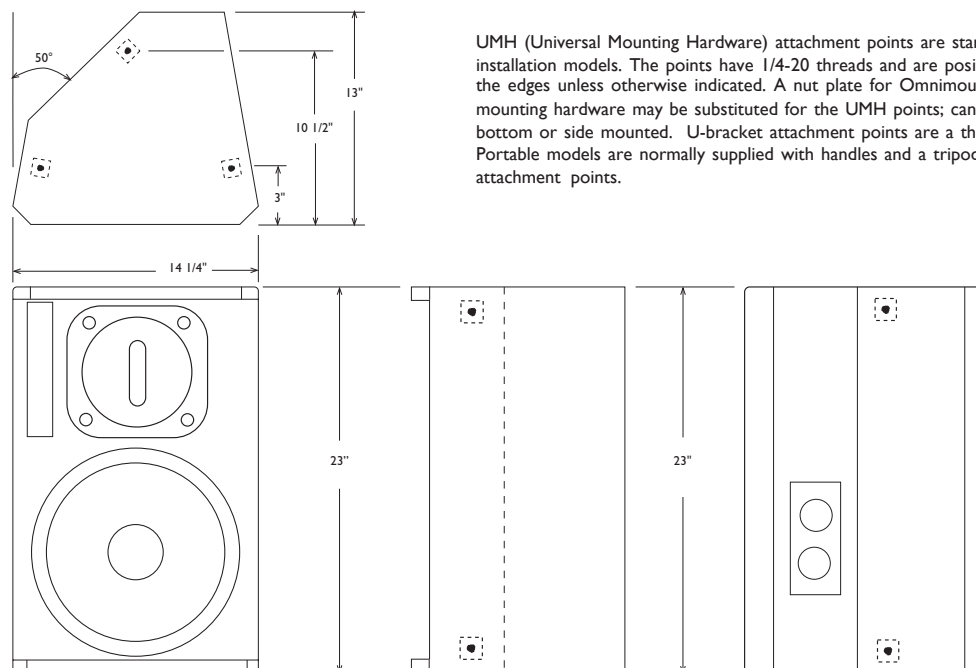
The loudspeaker system shall consist of a heavy duty 12" woofer and an extended-range 1" HF driver coupled to a Complex Conic high frequency horn. The 12" woofer shall have a 2.5" VC, treated fiber cone and a program power rating of at least 500 Watts. High frequency power handling capacity shall be no less than 40 Watts RMS @ 8 Ohms. The loudspeaker shall provide wide-angle (90°) (120°) horizontal dispersion and 60° vertical coverage. It shall include a built-in crossover having a program power rating of 500 Watts at 8 Ohms.

1W,1m sensitivity shall be no less than 99 dB @ 500 Hz with a maximum SPL of at least 126 dB program. The frequency response shall be 65 Hz to 18 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 23" high, 14 1/4" wide and 13" deep. It shall weigh no more than 34 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.) (a nut-plate for Omnimount Series 120 mounting hardware.) (a U-bracket.) (a tripod socket and handles.)

## Dimensional Information



UMH (Universal Mounting Hardware) attachment points are standard on all fixed installation models. The points have 1/4-20 threads and are positioned 1 1/2" from the edges unless otherwise indicated. A nut plate for Omnimount Series 120 mounting hardware may be substituted for the UMH points; can be either top, bottom or side mounted. U-bracket attachment points are a third option. Portable models are normally supplied with handles and a tripod socket and no attachment points.

**NOTE:**  
The enclosure is shown  
without its metal grille.

For more detailed dimensional  
information, please refer to  
the 2D and 3D drawing files on  
our website.



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