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 wave-guides 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.

TRAP (TRue Array Principle) Design

TRAP array modules combine to produce a phase aligned wavefront having an absolute minimum of lobing. The result is no more “hot spots”, no more “dead spots”.

Applications

- Virtually any application where directional control and arrayability are critical issues and outstanding sonic performance is required.
- Distributed sound reinforcement systems in sports arenas and stadiums.
- Multi-channel AV playback systems, live sound and music systems in clubs and disco’s (with optional subwoofers).
- Array modules for theatrical and concert sound systems, sound reinforcement systems in houses of worship, performing arts centers, etc.

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TECHNICAL INFORMATION

**Sensitivity:** 99 dB (1W/1m) @ 500 Hz

**Maximum SPL:** 126 dB program, 129 dB Peak

**Dispersion:** (TRX121T/6) 60° H by 40° V*
               (TRX121T/9) 90° H by 40° V*

**Frequency Response:** 65 Hz to 18 kHz

**HF Driver:** 1” SSD202-8 driver, 40 W RMS, 80 W program

**LF Driver:** 12” model SSL12-12 woofer, 2.5” VC, treated fiber cone; 250 W RMS, 500 Watts program

**Crossover Point:** 1.8 kHz

**Power Rating:** 500 Watts program at 8 Ohms

**Enclosure:** Multi-ply hardwood, perforated metal grille

**Connectors:** Screw terminals or Neutrik 4-pin connectors

**Finish Options:** Black or white paint
                   Custom colors
                   Natural (unfinished)
                   Weather resistant

**Hardware Options:** 12-point univ. mtg. hdw.
                      Omnimount Series 120 nut-plate
                      R-HANG array mounting hardware
                      Tripod socket & handles

**Dimensions:** 26 1/2” H x 15 1/2” W x 13 3/4” D  
                 (67.3 cm x 39.4 cm x 34.9 cm)

**Net Weight:** 40 Lbs (18.1 Kg) net

**Note:** Complex Conic horns may be rotated 90 degrees within the enclosure.

DIMENSIONAL INFORMATION

UMH (Universal Mounting Hardware) attachment points are standard on all fixed installation models. The points have Metric M10 threads and are positioned 1 3/4” 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 and R-HANG array mounting hardware are other options.

Portable models are normally supplied with handles and a tripod socket and no attachment points.

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, www.renkus-heinz.com