



#### SPECIFICATIONS

Frequency Response, 10 Feet on Axis, Swept One-Third-Octave Pink Noise, Anechoic Environment (see Figure 1): 40-225 Hz

Low-Frequency 3-dB-Down Point: 40 Hz

Usable Low-Frequency Limit (10-dB-down point): 32 Hz

Half-Space Reference Efficiency: 12.5%

Long-Term Average Power Handling Capacity per IEC Standard RS-426A (see Power Handling Capacity section): 1600 watts

Short-Term Power Handling Capacity (10 milliseconds): 6400 watts

Maximum Long-Term Average Midband Acoustic Output: 200 watts

Sound Pressure Level at 1 Meter, Indicated Input Power, Anechoic Environment, Band-Limited Pink-Noise Signal, 50-200 Hz,

1 Watt: 102 dB

1600 Watts: 134 dB

6400 Watts: 140 dB

Dispersion Angle Included by 6-dB-Down Points on Polar Responses, Indicated One-Third-Octave Bands of Pink Noise, 80-160 Hz Horizontal and Vertical (see Figure 3):  $177^{\circ} \pm 3^{\circ}$

Directivity Factor  $Q_p$  (C), Median over 80-160-Hz Range (see Figure 4): 2.84

Directivity Index  $D_i$ , Median over 80-160-Hz Range (see Figure 4): 4.5 dB

Distortion, 0.1 Full Power Input (see Figure 5),

Second Harmonic,

50 Hz:

0.6%

100 Hz:

0.5%

Third Harmonic,

50 Hz:

0.6%

100 Hz:

0.2%

Distortion, Full Power Input (see Figure 6),

Second Harmonic,

50 Hz:

1.4%

100 Hz:

1.8%

Third Harmonic,

50 Hz:

2.0%

100 Hz:

0.8%

Transducer Complement: Four DL16W

Box Tuning Frequency: 37 Hz

Impedance,

Nominal:

Two 4-ohm loads

Minimum:

Two 4-ohm loads

**Electro-Voice®**

a gulton company



FIGURE 1  
Axial Frequency Response  
1 Watt/1 Meter

## Model MTL-4 Manifold Technology™ Low-Frequency Sound Reinforcement System

Input Connections:

Cannon EP-4-14

Enclosure Materials:

14-ply Baltic birch plywood

Hanging:

Two-point flying system optional

Dimensions,

Height:

91.4 cm (36.0 in.)

Width:

91.4 cm (36.0 in.)

Depth:

76.2 cm (30.0 in.)

Net Weight:

119 kg (263 lb)

Shipping Weight:

134 kg (297 lb)

#### DESCRIPTION

The Electro-Voice Model MTL-4 "Manifold Technology" low-frequency loudspeaker system was designed for high-level concert sound reinforcement in touring sound and permanent installation applications. The MTL-4 is a vented-box design comprised of four DL16W woofers, each facing into a manifold chamber at the center of the cabinet. This manifolding technique<sup>1</sup> results in increased acoustic loading, yielding increased low-frequency efficiency and reduced distortion over conventional direct-radiating designs in a remarkably small enclosure. The MTL-4 is typically 2-3 dB

1. Patent pending.

# Electro Voice Nd857b User Guide

**Gary U Petrin**



## **Electro Voice Nd857b User Guide:**

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