

## TS992-LX

### Biamped Theatre Stage System

- Only 10 in. (254 mm) deep, allowing more room for seats
- THX® approved for small sized rooms up to 1,274 m<sup>3</sup> (45,000 ft<sup>3</sup>) with stage-to-last-row distances up to 12 m (40 ft)\*
- Digital Dynamics Capable™—DH2As1 compression driver and EVX-150B 15-in. woofer are highly resistant to long-term mechanical fatigue
- Wideband response—30-20,000 Hz
- 90° x 90° coverage pattern appropriate for small rooms

#### Description

The TS992-LX is a Digital Dynamics Capable™ biamplified theatre stage system. It is designed for absolute minimum depth—only 10 in. (254 mm) deep—but with similar performance as the large-format, THX®-approved TS9040D-LX. Electro-Voice has combined its expertise in constant-directivity horns, high-frequency compression drivers and low-frequency reproducers to produce a stage system with superior performance in all areas: uniform dispersion to the highest frequencies, high efficiency, high power-handling capacity and wide, smooth frequency response.

The TS992-LX features a single ultrahigh-reliability, ultrahigh-output 15 in. (381 mm) EVX-150B woofer, with continuous program power capacity of 1,000 watts. The EVX-150B is crossed over at 1,150 Hz where its coverage pattern is a perfect match to that of the HP99 compact 90° x 90° horn to which a DH2As1 medium-format “short nose” compression driver is mounted. The unique, 90° vertical coverage angle of the HP99 horn provides more uniform coverage at the front of small rooms.

All components of the TS992-LX are black finished to eliminate any light reflections back through the screen. The high-frequency horn is matte black and the black textured finish

of the low-frequency system is of low reflectivity. The TS992-LX is mechanically designed for easy installation, including convenient system connection and horn aiming (see Installation section).

The TS992-LX provides high performance for all film-sound formats in small size rooms. THX® recommends the TS992-LX in rooms of up to 1,274 m<sup>3</sup> (45,000 ft<sup>3</sup>) in volume and stage-to-last-row distances of up to 40 ft (12 m).

#### Frequency Response

Figure 2 shows the TS992-LX frequency response with presets of the Electro-Voice Dx34A digital speaker system processor (see Crossover and Basic Equalization section). The measurement was made with a swept sine-wave signal, 4 volts at 500 Hz, in an anechoic (echoless) environment. The microphone was at a distance of 10 ft (3.0 m), on an axis at the lower edge of the high-frequency horn. Figure 3 shows the frequency response of the individual sections of the TS992-LX, measured under the same conditions but with a 4-volt input constant with frequency, the results of which were then normalized to 1 watt/1 meter.

#### Crossover and Basic System Equalization

In THX® installations, crossover and basic system equalization is provided by a dedicated

THX crossover/EQ/signal-delay unit. In conventional installations, the Electro-Voice XEQ-2 analog crossover/equalizer/delay equipped with the appropriate optional crossover and horn EQ modules or the Electro-Voice Dx34A digital speaker system processor may be used. Contact Electro-Voice for information on specific XEQ-2 modules and Dx34A presets.

#### Installation

The TS992-LX incorporates a number of installer-recommended features, for quick, trouble-free and low-cost installation. Among these features is a top-mounted input panel for the TL15-1XS low-frequency system, perfect when space is restricted to the rear or sides of the system. In addition, through the use of the supplied HMK-4 horn-mounting kit and T-nuts in the top of the low-frequency system, the high-frequency section is easily mounted in the proper position on top of the low-frequency section. The HMK-4 allows ±30° of horizontal horn aiming and +10°/-15° of vertical aiming. Complete installation instructions are on the engineering data sheet supplied with the HMK-4.

#### Limited Warranty

Electro-Voice products are guaranteed against malfunction due to defects in materials or workmanship for a specified period,

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as noted in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual, beginning with the date of original purchase. If such malfunction occurs during the specified period, the product will be repaired or replaced (at our option) without charge. The product will be returned to the customer prepaid. **Exclusions and Limitations:** The Limited Warranty does not apply to: (a) exterior finish or appearance; (b) certain specific items described in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual; (c) malfunction resulting from use or operation of the product other than as specified in the product data sheet or owner's manual; (d) malfunction resulting from misuse or abuse of the product; or (e) malfunction occurring

at any time after repairs have been made to the product by anyone other than Electro-Voice Service or any of its authorized service representatives. **Obtaining Warranty Service:** To obtain warranty service, a customer must deliver the product, prepaid, to Electro-Voice Service or any of its authorized service representatives together with proof of purchase of the product in the form of a bill of sale or receipted invoice. A list of authorized service representatives is available from Electro-Voice Service at 600 Cecil Street, Buchanan, MI 49107 (800/234-6831 or FAX 616/695-4743). **Incidental and Consequential Damages Excluded:** Product repair or replacement and return to the customer are the only remedies provided to the customer. Electro-Voice shall not be liable for any incidental or consequential damages

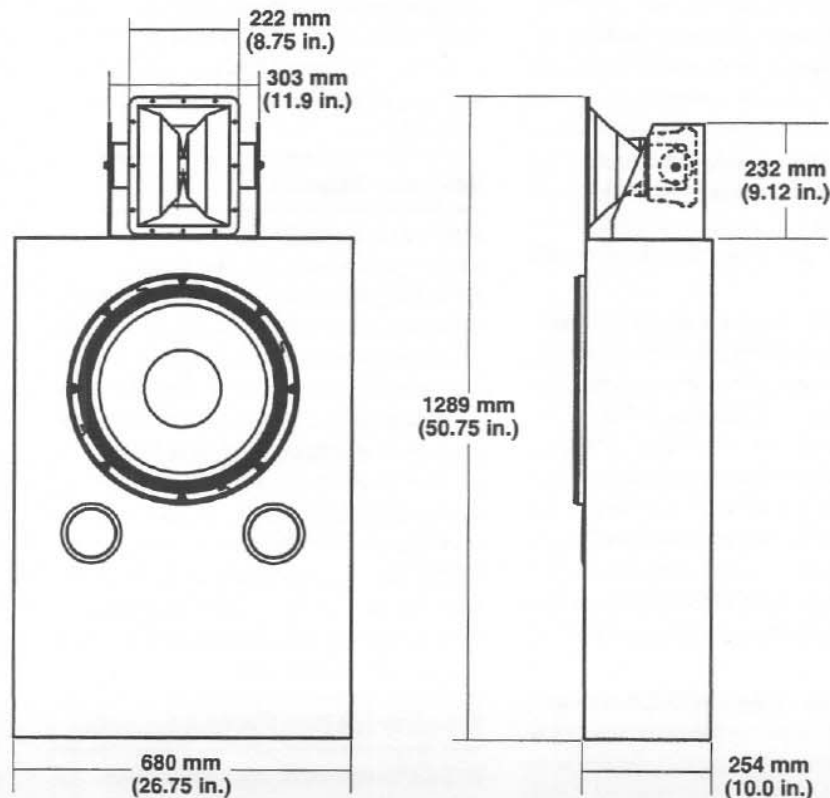
including, without limitation, injury to persons or property or loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. **Other Rights:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**For warranty repair** or service information, contact the service repair department at: 616/695-6831 or 800/685-2606.

**For technical assistance,** contact Technical Support at 800/234-6831 or 616/695-6831, M-F, 8:00 a.m. to 5:00 p.m. Eastern Standard Time.

Specifications subject to change without notice.

Figure 1—Dimensions



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Figure 2—TS992-LX Typical Frequency Response with Presets of Dx34A Digital Speaker System Processor (swept sine-wave input, anechoic environment, 4 volts at 500 Hz at 10 feet, mic on an axis coincident with lower edge of the HF horn)

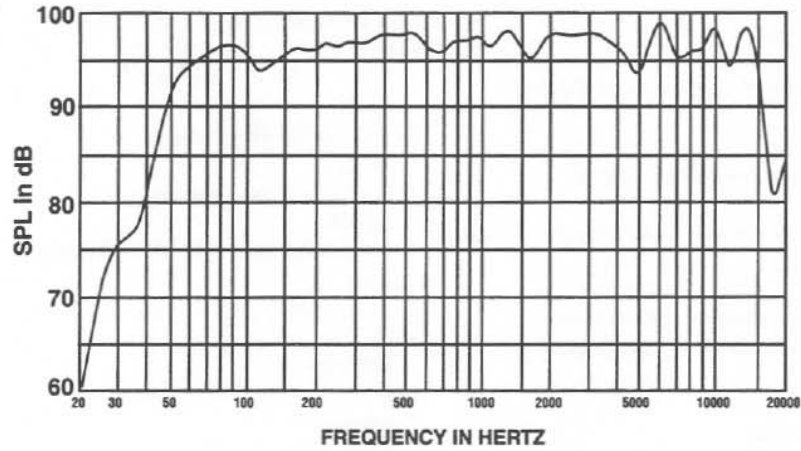
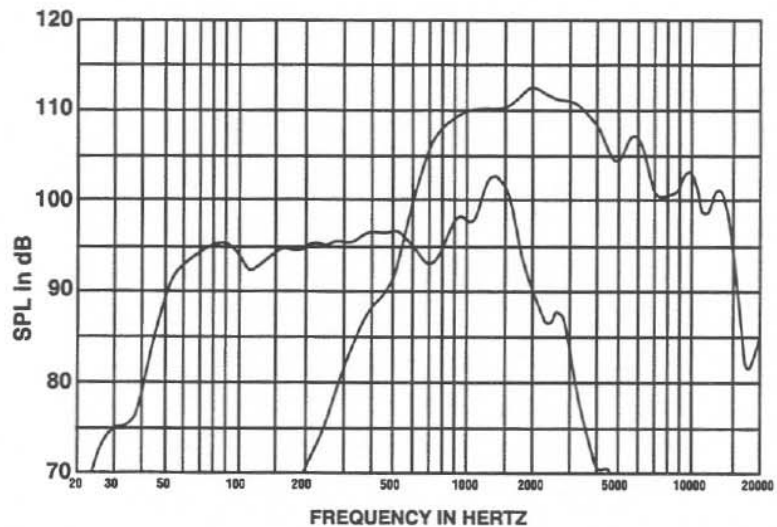


Figure 3—TS992-LX Typical Frequency Response of High- and Low-Frequency Sections Alone (swept sine-wave input, anechoic environment, 4 volts at 10 feet normalized for 1 watt at 1 meter, mic on an axis coincident with lower edge of the HF horn)



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## Specifications\*\*

**Usable Frequency Response** (see Figures 2 and 3):

30-20,000 Hz

**Low-Frequency 3-dB-Down Point:**

38 Hz

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

30 Hz

**Recommended Crossover Frequency** (see Crossover and Basic Equalization section):

1,150 Hz

**Crossover Slopes,**

**Recommended:**

24 dB per octave

**Minimum:**

12 dB per octave

**Sound Pressure Level at 1 Meter, 1 Watt Input,**

**LF (100- to 800-Hz average):**

96 dB

**LF (65- to 125-Hz average):**

94 dB

**HF (800- to 5,000-Hz average):**

110 dB

**Power Capacity Average Power-Handling Capacity,**

**Low Frequency (per EIA RS-426-A 1980):**

600 watts

**Low Frequency, Continuous**

**Program:\*\*\***

1,000 watts

**High Frequency (per AES2-1984/ANSI S4.26-1984):**

60 watts

**Dispersion, Horizontal and Vertical:**

90°

**Nominal Impedance, HF and LF:**

8 ohms

**Components:**

DH2As1 compression driver; HP99T horn; TL15-1XS low-frequency system with EVX-150B woofer; HMK-4 horn/driver-mounting bracket

**Finishes:**

Matte black HF horn, black driver and mounting bracket, and black textured-painted LF system

**Overall Dimensions, Assembled (see Figure 1),**

**Height (approximate):**

1.295 m (51 in.)

**Width:**

680 mm (26.75 in.)

**Depth:**

254 mm (10 in.)

**Net Weight (total):**

46.0 kg (101.1 lb)

**Shipping Weight (total):**

51.1 kg (112.6 lb)

\* THX is a registered trademark of Lucasfilm Ltd.

\*\* Additional information is contained on the individual component engineering data sheets.

\*\*\* This rating facilitates competitive comparisons.

Continuous program power is twice the two-hour sine-wave power capacity at minimum impedance.

## Electro-Voice®

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