

## TS992E-LX

### Biamped Theatre Stage System

- Only 254 mm (10 in.) deep overall—more room for seats
- For use in small to medium 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™—DH2T compression driver and DL15MT 15-in. woofer are highly resistant to long-term mechanical fatigue
- Wideband response—30-20,000 Hz
- 90° x 90° coverage pattern appropriate for smaller rooms
- HMK-4 horn mounting bracket allows ±30° of horizontal aiming and +10°/-15° of vertical aiming
- Input panel on top of LF system for convenient installation

#### Description and Application

The TS992E-LX is a Digital Dynamics Capable™ theatre stage system for biamplification. It is designed for absolute minimum depth—only 254 mm (10 in.) deep—but with performance as close as possible to 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 TS992E-LX features a single ultrahigh-reliability, high-output 381-mm (15-in.) DL15MT woofer, with continuous power capacity of 400 watts. The DL15MT 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 DH2T 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 TS992E-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 TS992E-LX is mechanically designed for easy installation, including convenient system connection and horn aiming (see Installation section).

The TS992E-LX provides high performance for all film-sound formats in small to medium size 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 12 m (40 ft).

#### Frequency Response

Figure 2 shows TS992E-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 3.0 m (10 ft), on an axis at the lower edge of the high-frequency horn. Figure 3 shows the frequency response of the individual sections of the TS992E-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 Equalization

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 TS992E-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-IES low-frequency system, perfect when space is restricted to the rear or sides of the system. In addition, through the use of the driver-to-horn adapter ADH-3, HMK-4 horn-mounting kit and the supplied 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.

# TS992E-LX Biamped Theatre Stage System

TS992E-LX Biamped Theatre Stage System

## Warranty (Limited)

Electro-Voice Theatre Sound Systems are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For repair information and service locations, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan, 49107 (phone 616/695-6831) or (toll-free 800/234-6831). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Specifications subject to change without notice.

## Specifications\*\*

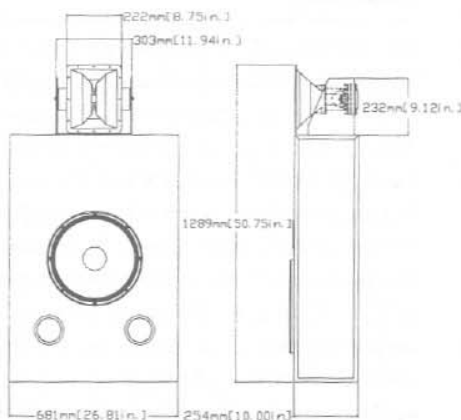
### Usable Frequency Response (see Figures 2 and 3):

30-20,000 Hz

\*\* 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.

Figure 1—TS992E-LX Dimensions



### 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):

400 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:

DH2T compression driver; driver to horn adapter ADH-3, HMK-4 horn/driver mounting bracket, HP99 horn; TL15-1ES low-frequency system with DL15MT woofer

### Finishes:

Matte black HF horn, black driver and mounting bracket, and black wood grain vinyl clad LF system

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

#### Height (approximate):

1,295 mm (51 in.)

#### Width:

680 mm (26.75 in.)

#### Depth:

254 mm (10 in.)

### Net Weight (total):

44.2 kg (95 lb)

### Shipping Weight (total):

48.4 kg (106.5 lb)

Figure 2—TS992E-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)

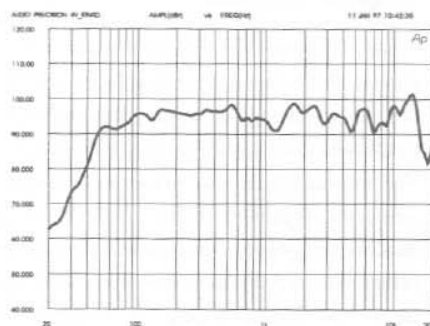
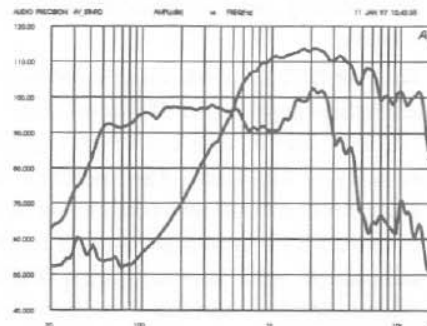


Figure 3—TS992E-LX Typical Frequency Response of High- and Low-Frequency Sections Alone (swept sine-wave input, anechoic environment, 4 volts at 10 feet normalized for 1 watt at 1 meter, mic on an axis coincident with lower edge of the HF horn)



# Electro-Voice®

600 Cecil Street, Buchanan, MI 49107  
616/695-6831, 616/695-1304 Fax

Part Number 534231—9718