



EJ2

Surround Sound Array

- High output—complements the potential of digital surround on film
- 94-dB sensitivity
- 300 watts long-term power capacity
- Incorporates HS-style hanging hardware

SPECIFICATIONS

Power Rating,

Long-Term:

300 watts

Short-Term:

1,200 watts

Frequency Response (see Figure 1):

75-18,000 Hz

Pressure Sensitivity (sound pressure level at 1 watt/1 meter, 500-3,000 Hz, referenced to 20 μ Pa):

94 dB

Impedance ((3) 16-ohm systems wired in parallel):

5.33 ohms

Beamwidth:

150°

Transducer Complement,

Low Frequency:

(3) EVI-S 10-inch (25.4 -cm) drivers

High Frequency:

(3) EV 1.5-inch (3.8-cm) Super Dome® tweeters

Crossover Frequency:

2,500 Hz

Crossover Slope:

12 dB per octave

Enclosure:

Paintable, black vinyl-clad MDF (medium-density fiberboard)

Dimensions,

Height:

55.9 cm (22.0 in.)

Width:

106.7 cm (42.0 in.)

Depth at Center:

20.6 cm (8.1 in.)

Depth at Sides:

12.7 cm (5.0 in.)

Net Weight:

39.5 kg (87.0 lb)

Shipping Weight:

41.8 kg (92.0 lb)

DESCRIPTION

The Electro-Voice EJ2 surround sound array is a two-way, factory-assembled surround system that consists of three individually accessible systems arrayed on three angled faces of the enclosure. The system features three 10-inch (25.4-cm) low-frequency drivers and three 1.5-inch (3.8-cm) Super Dome® tweeters. Smooth transition at crossover is accomplished by a dual section 12-dB-per-octave crossover network centered at 2.5 kHz. The high-frequency sections of the system are protected using a self-resetting protection circuit which will not allow the user to damage the system tweeters. The enclosure is constructed of 5/8-inch (1.6-cm) medium density fiberboard (MDF), covered in a black vinyl which can be painted to complement any interior. The enclosure is supplied with three removable grilles, each of which are fastened to the front of the enclosure with four wood screws. Four 3/8-16 mounting points are provided to aid in hanging the system in a permanent installation; additionally, two independent safety brackets are supplied. The intended use of the EJ2 is within medium-to-large movie theaters where four EJ2's can effectively replace ten to twelve conventional surround loudspeakers.

SUSPENDING EJ2 ENCLOSURES

CAUTION

For safe suspension of enclosures, it is very important that these instructions are followed and that all fasteners are correctly attached.

The EJ2 has been developed to utilize the HS series of hanging hardware. The system is

supplied with two HS kits pre-installed in the vertical plan for the suspension of a single enclosure—**do not suspend other enclosures, or any other items, from the lower attachment points.** This combination of two HS kits and the EJ2 enclosure have been certified by an independent structural engineer to be safe and secure. Each HS kit consists of a steel tube and two diecast brackets tapped to accept 3/8-16 suitable rated hardware. Suitable rated threaded rod, shackles or threaded chain connectors can be used for suspension of the enclosure. The center of gravity has been arranged such that the enclosure will hang vertically from the provided attachment points.

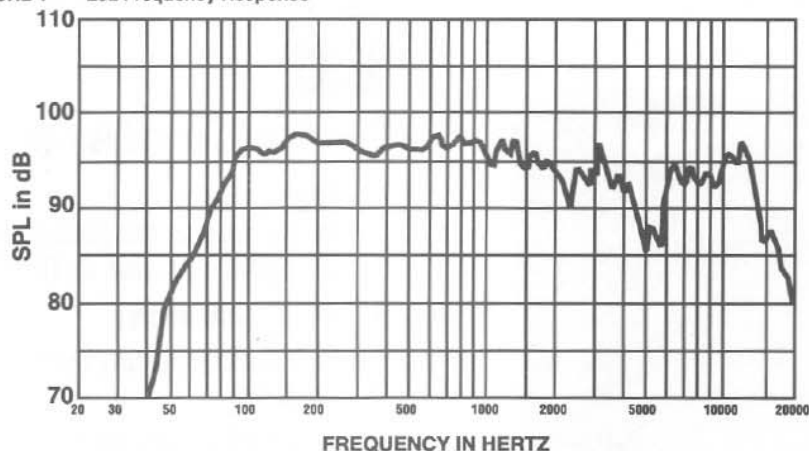
Two additional safety brackets are provided as a means of attaching an independent (suitably rated) safety cable or chain.

For more detailed information on the strength ratings, see the HS Series instruction sheet.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall be an array consisting of three two-way systems each comprised of a 10-inch low-frequency loudspeaker and a 1.5-inch Super Dome® tweeter within a single enclosure. The dividing networks are dual-section type, with 12-dB-per-octave slopes on both L.F. and H.F. sections with a crossover center frequency of 2.5 kHz. Self-resetting protection is provided for each tweeter, preventing against accidental overload. The loudspeaker system shall meet the following performance criteria. Power handling: 300 watts of pink noise with a 6-dB crest factor, band limited from 75-18,000 Hz. Frequency response: smooth and uniformly usable from 75-18,000 Hz. Pressure sensitivity: 94 dB SPL when measured at one meter on axis with one watt of band-limited pink

FIGURE 1 — EJ2 Frequency Response



noise from 75-18,000 Hz. Nominal impedance: 5.33 ohms, with three 16-ohm systems in parallel. The enclosure shall be of the vented type, constructed of 5/8-inch (1.6-cm) medium density fiberboard (MDF) lined with sound-absorbent wool. Four 3/8-16 hanging points along with two independent safety brackets have been provided for safe installation. The finish shall be a refinishable black vinyl. The dimensions shall be 22 inch (55.9 cm) high by 42 inch (106.7 cm) wide by 8.1 inch (20.6 cm) deep at the center (5.0 inch (12.7 cm) deep at the sides). The loudspeaker shall weigh 87 lb (39.5 kg). The loudspeaker system shall be the Electro-Voice EJ2.

UNIFORM LIMITED WARRANTY

Electro-Voice products are guaranteed against malfunction due to defects in materials or workmanship for a specified period, 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 or any of its authorized service representatives. **Obtaining Warranty Service:** To obtain warranty service, a cus-

tomers must deliver the product, prepaid, to Electro-Voice 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 at 600 Cecil Street, Buchanan, MI 49107 (616/695-6831 or 800/234-6831). **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.

Electro-Voice Speakers and Speaker Systems are guaranteed against malfunction due to defects in materials or workmanship for a period of five (5) years from the date of original purchase. The Limited Warranty does not apply to burned voice coils or malfunctions such as cone and/or coil damage resulting from improperly designed enclosures. Electro-Voice active electronics associated with the speaker systems are guaranteed for three (3) years from the date of original purchase. Additional details are included in the Uniform Limited Warranty statement.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (616/695-6831 or 800/234-6831).

Specifications subject to change without notice.



ELECTRO-VOICE a MARK IV company **600 Cecil Street, Buchanan, Michigan 49107**
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