

Xi-1183A/64F

**18-Inch Three-Way,
Full-Range 60° x 40°
Sound Reinforcement System**



Key Features:

- High-Level, Three-Way Design
- VBS Capable
- EVX-180B 18" Slot-Loaded Low-Frequency Driver
- ND12A 12" Neodymium Mid-Bass Driver (60° x 40° Coverage)
- Coaxially-Mounted ND6-16 3" Diaphragm HF Compression Driver
- Fully Rotatable HF Section for Vertical or Horizontal Suspension
- Ring-Mode Decoupling / RMD™
- Built-In L-Track Rigging
- Available in Black or White
- Dimensions Identical to Xi-1191 and Xi-2181 Subwoofers, Footprint Identical to Xi-2153



General Description:

The Electro-Voice® Xi-1183A/64F is a full-bandwidth, three-way, triamp system is designed for medium- to long-throw applications. The orientation of LF section and the mid-bass horn create a two-element line array that extends vertical pattern control to below 350 Hz. Using VBS (Vertical Beam Shaping) technology this benefit can be increased by another 20° to 40° of pattern control above 300 Hz. VBS uses filters to overlap the LF section bandpass with mid-bass bandpass. By carefully phase matching the acoustic response in the overlap region the vertical pattern control is dramatically improved as seen in the graphs on Page 2. Frequency response on-axis is unaffected, while gain before feedback is increased by 10 to 15 dB for microphones located under the loudspeaker. Its high-frequency horn/driver section is rotatable to provide proper coverage for vertical or horizontal system installations. The low-frequency section is powered by an 18-inch driver (EVX-180B) in a slot-loaded, closed box configuration suitable for moderately high sound pressure levels. When very high levels are desired we suggest augmenting with the Xi-1191A. For maximum low-frequency performance, combine in a four-way configuration. The ND12A 12-inch, application-specific mid-bass driver features RMD™ and a 60° x 40° horn. The ND6-16 high-frequency driver/horn combination is fully "shrouded" to preserve midbass wave-front detail.

Technical Specifications:

Freq. Response ¹ (-3 dB):	55 Hz - 17 kHz
Freq. Range ¹ (-10 dB):	46 Hz - 19 kHz
Max Calculated SPL ² :	138 dB
Coverage:	60° x 40° (Rotatable)
LF Power Handling:	600W Continuous, 2400W Peak
MB Power Handling:	300W Continuous, 1200W Peak
HF Power Handling:	75W Continuous, 300W Peak
LF Sensitivity:	96 dB, 1W/1m
MB Sensitivity:	107 dB, 1W/1m
HF Sensitivity:	112 dB, 1W/1m
LF Impedance:	8 ohms (Nominal)
MB Impedance:	8 ohms (Nominal)
HF Impedance:	16 ohms (Nominal)
LF Transducer:	EVX180B 18" (457mm) Driver, 8 ohms
MB Transducer:	ND12A 12" (305mm) Driver, 8 ohms
HF Transducer:	ND6-16 3" (76mm) Diaphragm Comp. Driver, 16 ohms
Crossover Frequency ³ :	Use Recommended Parameters
Connectors:	Two Neutrik Speakon® NL8MPR Paralleled
Enclosure Material:	13-ply Birch plywood
Grille:	16 GA steel
Dim (H x W x D):	914 x 586 x 759 mm (36.0" x 23.1" x 29.9")
Net Weight:	88.8 kg (195 lbs)
Shipping Weight:	92.6 kg (204 lbs)

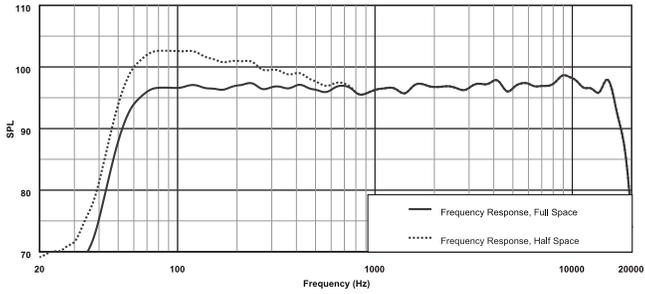
¹ Full Space measurement with a Dx38 Controller

² Max Calculated SPL of MB Section

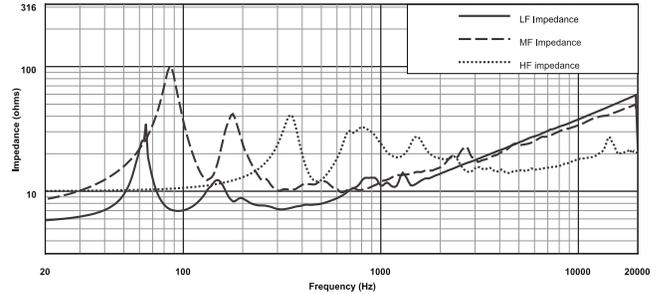
³ Download at www.electrovoice.com

Xi-1183A/64F Full Range Loudspeaker (3-Way)

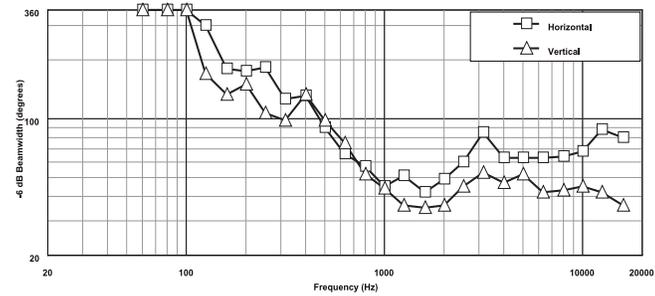
Frequency Response (Full & Half Space):



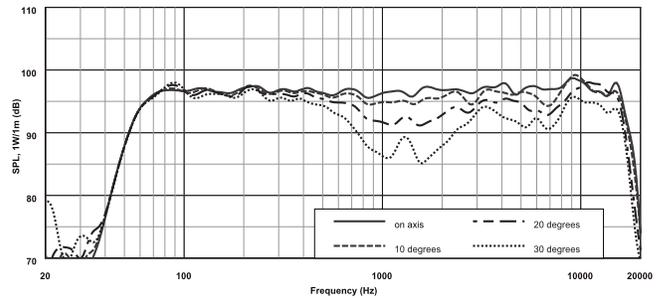
Impedance:



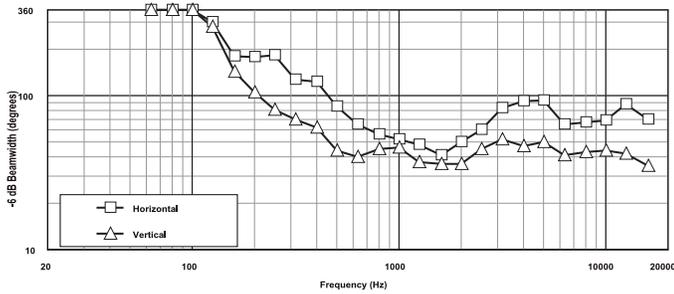
Beamwidth (3-Way):



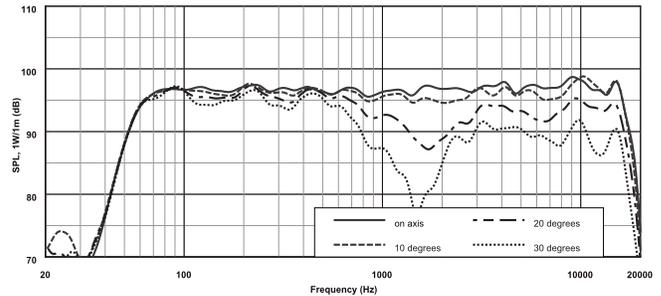
Horizontal Off Axis Frequency Response:



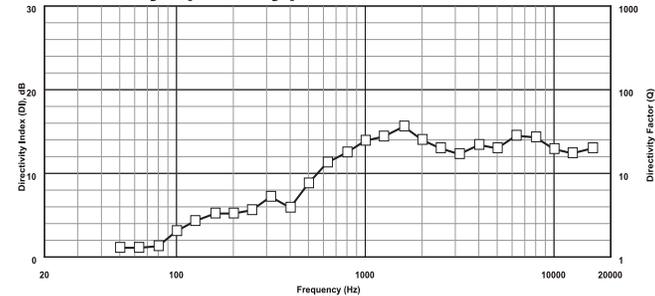
Beamwidth with VBS (Dipole):



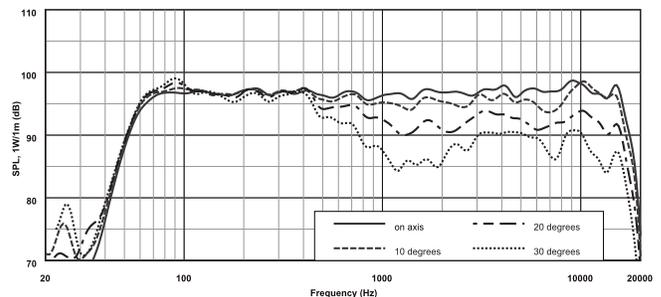
Vertical Off Axis Frequency Response (Up):



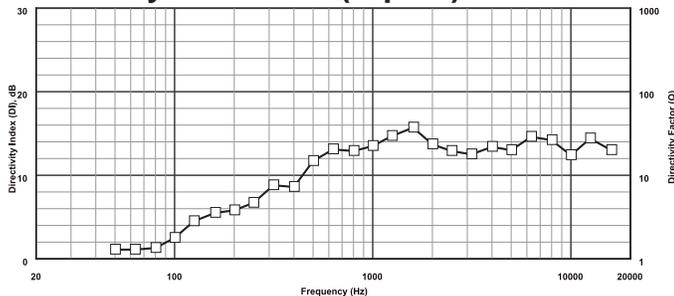
Directivity (3-Way):



Vertical Off Axis Frequency Response (Down):

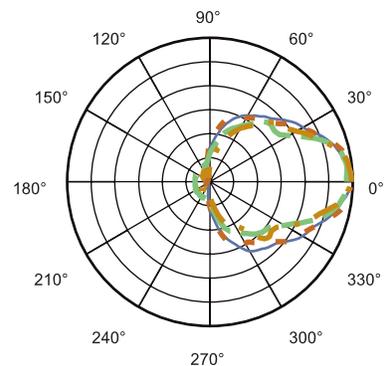
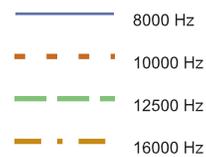
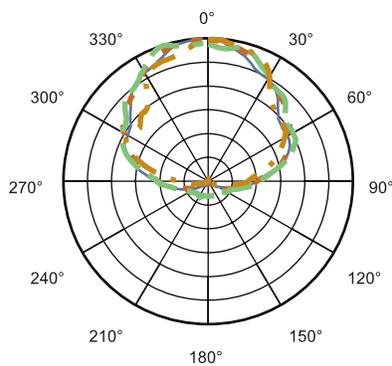
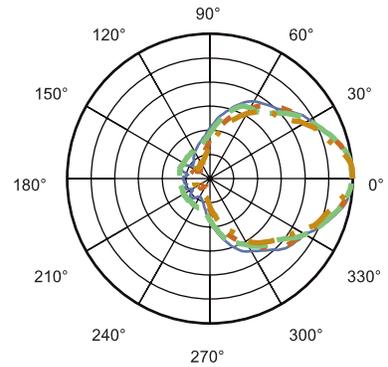
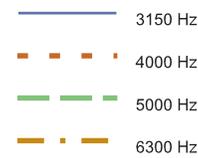
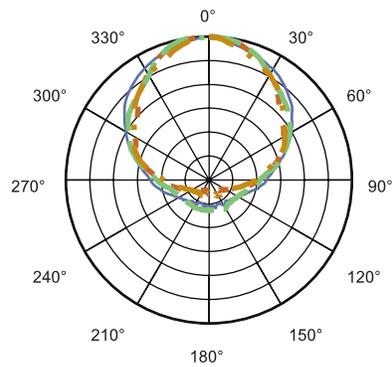
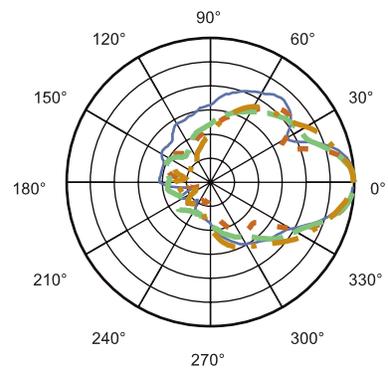
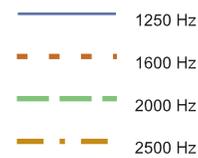
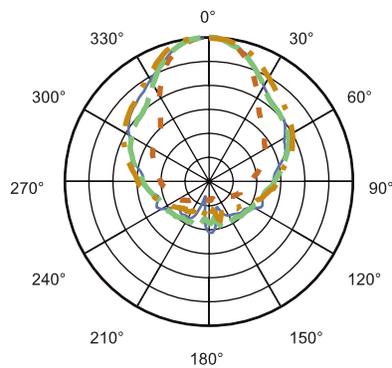
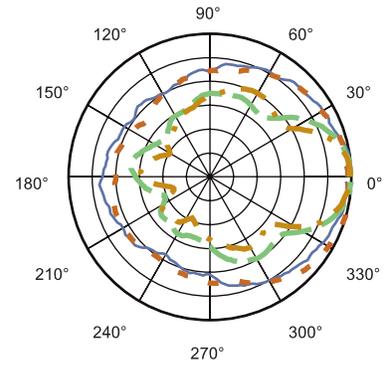
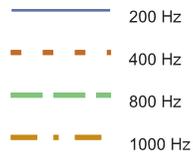
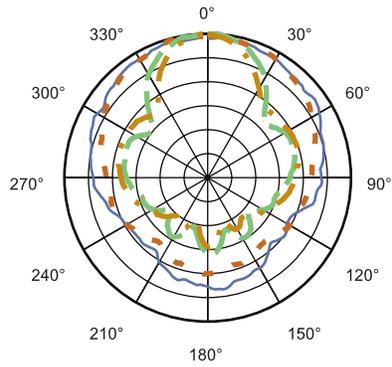


Directivity with VBS (Dipole):



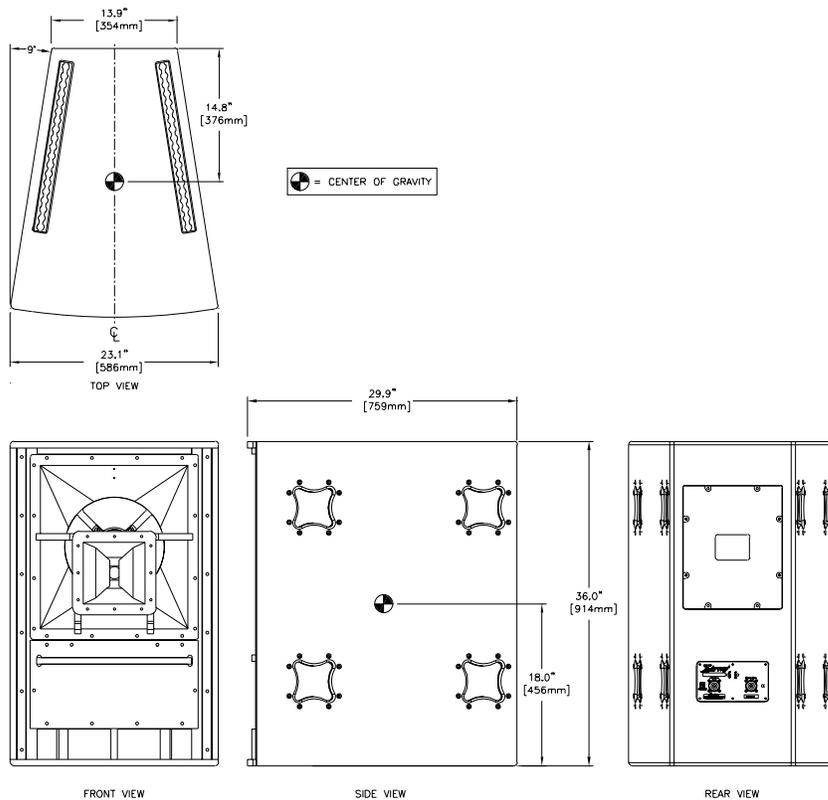
Horizontal 1/3 Octave Polars (3-Way):

Vertical 1/3 Octave Polars (3-Way):



Graph scales are 6 dB per division

Dimension Drawings:



Wiring/Connection Chart:

Triamp	
LF:	Pins 1 In Pins 2 Out
MB:	Pins 3 In Pins 3 Out
HF:	Pins 4 In Pins 4 Out
Pins 2 In Connected to Pins 1 Out	

⚠ CAUTION ⚠

This Xi Loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in the *X-Array Xi Install Flying Manual* and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state, and federal overhead suspension ordinances.

Performance Match

- P3000 (RL) • CPS 2.8 • Dx38
- P1200 (RL) • CPS 2.11

Xi-1183A/64F Part Numbers

- 1058-3417 - Black
- 1058-3407 - White

Architectural & Engineering Specs:

The loudspeaker system shall be a three-way tri-amp system. The system shall have an 18-inch, low-frequency loudspeaker with a nominal impedance of 8 ohms and a 4 inch aluminum voice coil. The low-frequency loudspeaker shall have a power handling capacity of 600 watts with a shaped pinknoise signal with a 6-dB crest factor for 8 hours (as per ANSI/EIA RS-426 A & AES 2-1984). The mid-bass loudspeaker shall be a fully horn loaded, 12-inch driver with a 2.5-inch voice coil and a nominal impedance of 8 ohms. The mid-bass driver shall have a power-handling capacity of 300 watts for 8 hours (as per ANSI/EIA RS-426 A & AES 2-1984). The high-frequency section shall be coaxially mounted in the mid-bass horn and shall employ a compression driver capable of handling 75 watts, 1,760- to 20,000-Hz when pink noise of a 6-dB crest factor is applied for 2 hours (as per AES 2-1984 and ANSI S4.26-1984 standards). The loudspeaker shall be constructed of 18-mm, 13-ply birch and shall be trapezoidal in shape. The wedge angle shall be 18-degrees. The grille shall be constructed from 16 GA powder-coated steel backed by acoustically transparent fabric. The system shall be capable of very-high level operation with a band width of 46 to 19,000 Hz. The system dimensions shall be 586 mm (23.7 inches) wide by 914 mm (36.00 inches) high by 759 mm (29.88 inches) deep. The system shall employ flying hardware of a "track" style and two tracks on the enclosure top and two tracks on the enclosure bottom. Net weight shall be 88.8 kg (195 lbs).

The loudspeaker shall be the Electro-Voice® Xi-1183A/64.



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For technical assistance, contact Technical Support at: **866/78AUDIO**

Specifications subject to change without notice.