

Xi-2153A/64F

**Dual 15-Inch Three-Way,
Full-Range 60° x 40°
Sound Reinforcement System**



Key Features:

- **High-Level, Three-Way Design**
- **VBS Ready to Provide Very Directional Vertical Coverage**
- **Dual EVX155 15" Slot-Loaded Low-Frequency Drivers**
- **DL12ST 12" Mid-Bass Driver**
- **Coaxially-Mounted ND6-16 3" Diaphragm HF Compression Driver**
- **Rotatable HF Section for Vertical or Horizontal Suspension**
- **Ring-Mode Decoupling / RMD™**
- **Built-In L-Track Rigging**
- **Available in Black and White**
- **Footprint Identical to Xi-1153A, Xi-1183A, Xi-1191A, Xi-2181A, Xi-2122MHA and Xi-1122MHA**



General Description:

The Electro-Voice® Xi-2153A/64F is a full-bandwidth, three-way, triamp system designed for medium- to long-throw applications. The orientation of LF section and the mid-bass horn create a three-element line array that extends vertical pattern control to below 150 Hz. Using VBS (Vertical Beam Shaping) technology this benefit can be increased by another 20° to 50° of pattern control above 200 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. 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 two 15-inch drivers (EVX-155) in slot-loaded, closed box configurations providing high sound pressure levels. When very high levels of extended very low-frequencies are desired we suggest augmenting with the Xi-2181A or XSUB. L-Tracks on top and bottom provide flexible suspension for cluster design and application. The ND6-16 high-frequency driver/horn combination is fully "shrouded" to preserve midbass wave-front detail, while allowing a compact coaxial configuration.

Technical Specifications:

Freq. Response ¹ (-3 dB):	55 Hz - 18 kHz
Freq. Range ¹ (-10 dB):	46 Hz - 19 kHz
Max Calculated SPL ² :	136 dB
Coverage:	60° x 40° (Rotatable)
LF Power Handling:	1200W Continuous, 4800W Peak
MB Power Handling:	300W Continuous, 1200W Peak
HF Power Handling:	75W Continuous, 300W Peak
LF Sensitivity:	100 dB, 1W/1m
MB Sensitivity:	107 dB, 1W/1m
HF Sensitivity:	112 dB, 1W/1m
LF Impedance:	4 ohms (Nominal)
MB Impedance:	8 ohms (Nominal)
HF Impedance:	16 ohms (Nominal)
LF Transducer:	(2) EVX155 15" (381mm) Drivers, 8 ohms
MB Transducer:	DL12ST 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):	1233 x 586 x 759 mm (48.5" x 23.1" x 29.9")
Net Weight:	109 kg (240 lbs)
Shipping Weight:	113 kg (249 lbs)

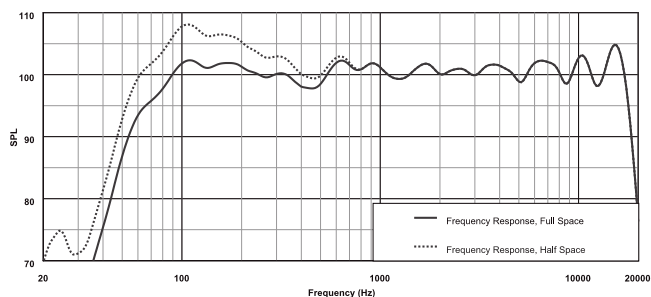
¹ Full Space measurement with a Dx38 Controller

² Max Calculated SPL of MB Section

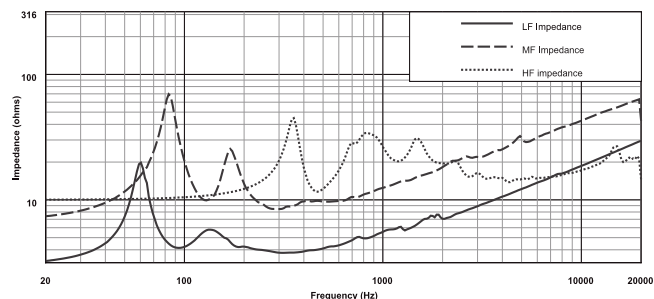
³ Download at www.electrovoice.com

Xi-2153A/64F Full Range Loudspeaker (3-Way)

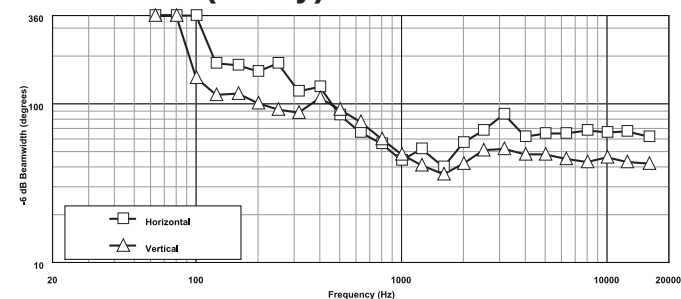
Frequency Response (Full & Half Space):



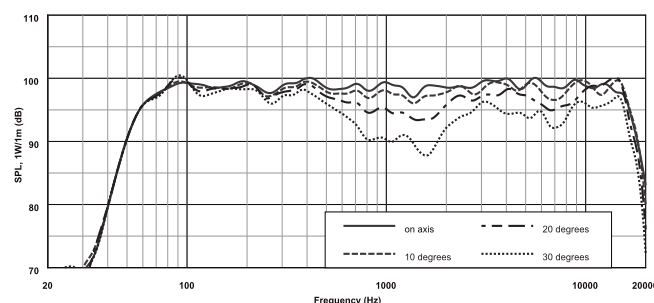
Impedance:



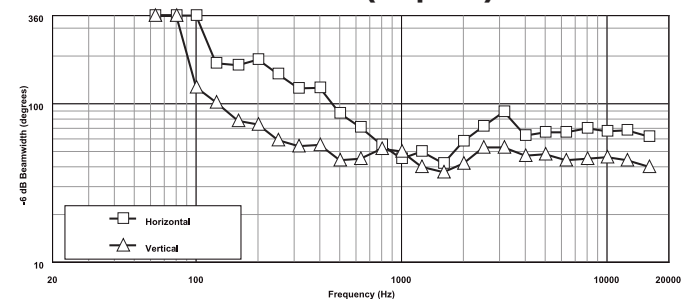
Beamwidth (3-Way):



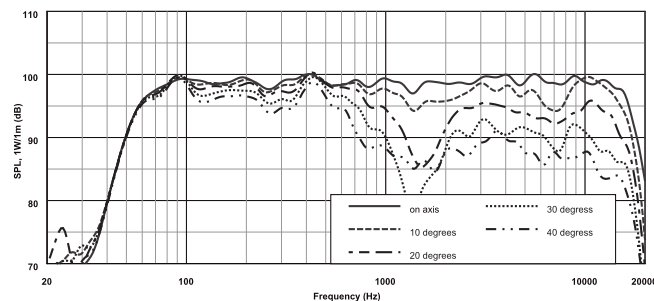
Horizontal Off Axis Frequency Response:



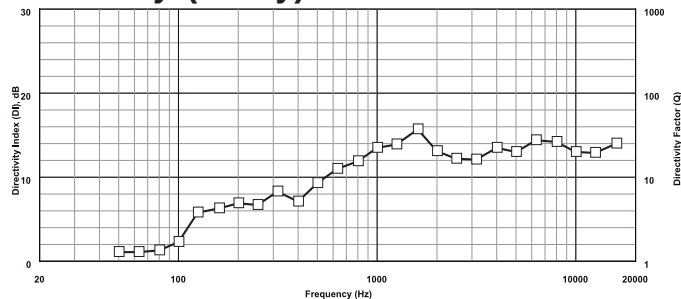
Beamwidth with VBS (Tripole):



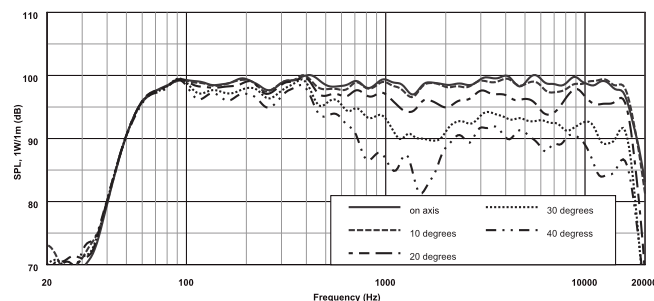
Vertical Off Axis Frequency Response (Up):



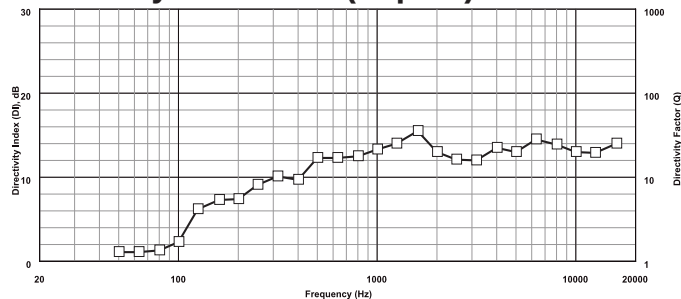
Directivity (3-Way):



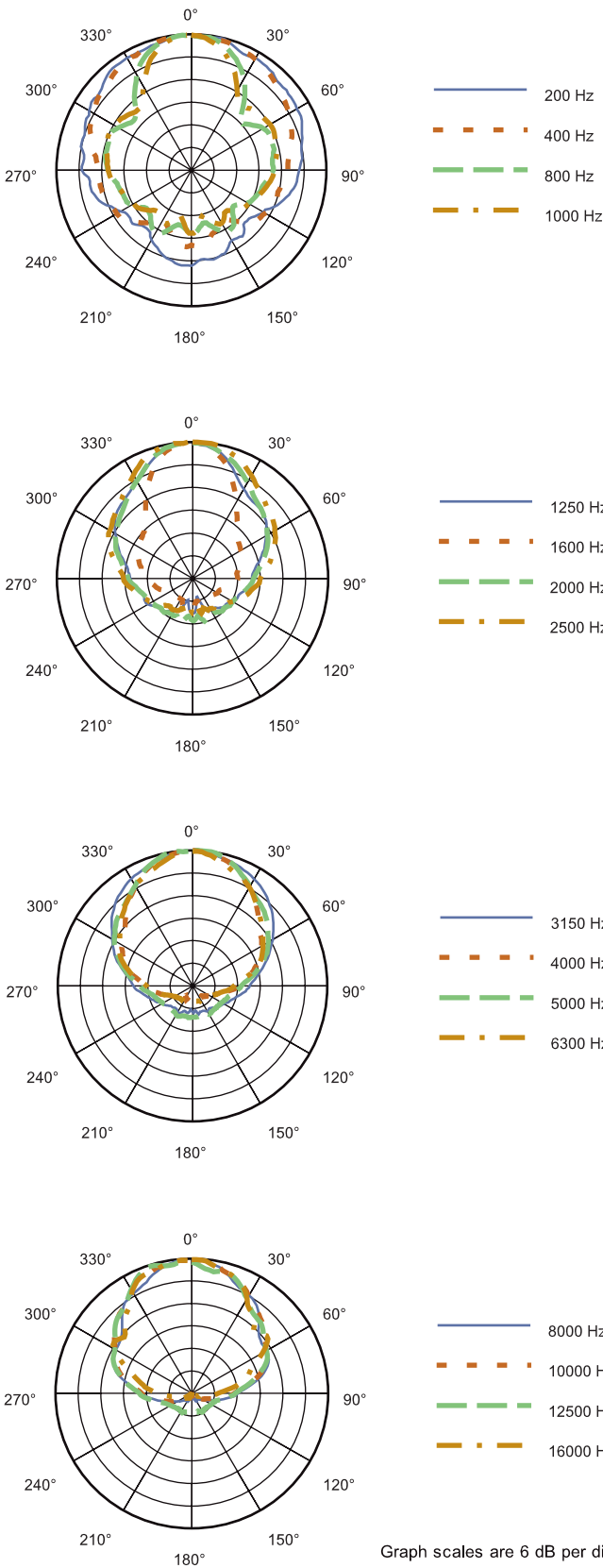
Vertical Off Axis Frequency Response (Down):



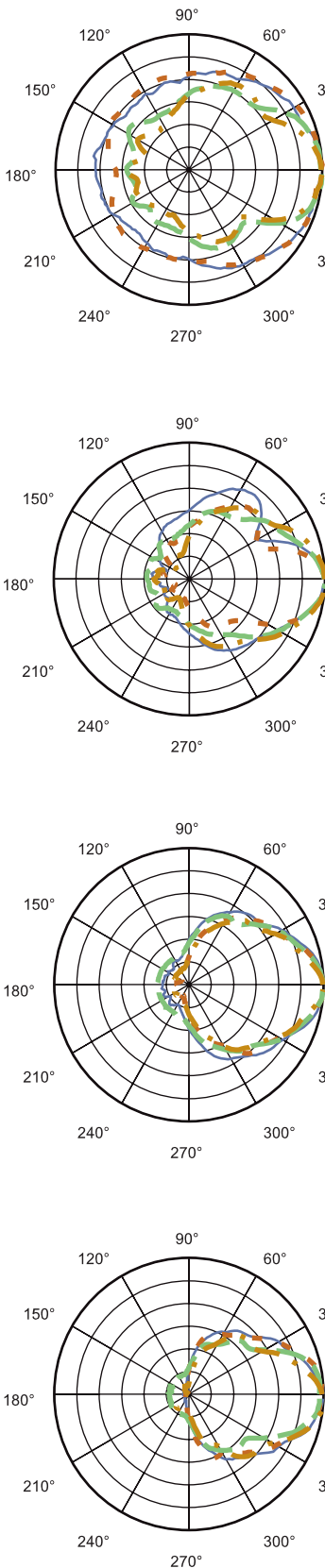
Directivity with VBS (Tripole):



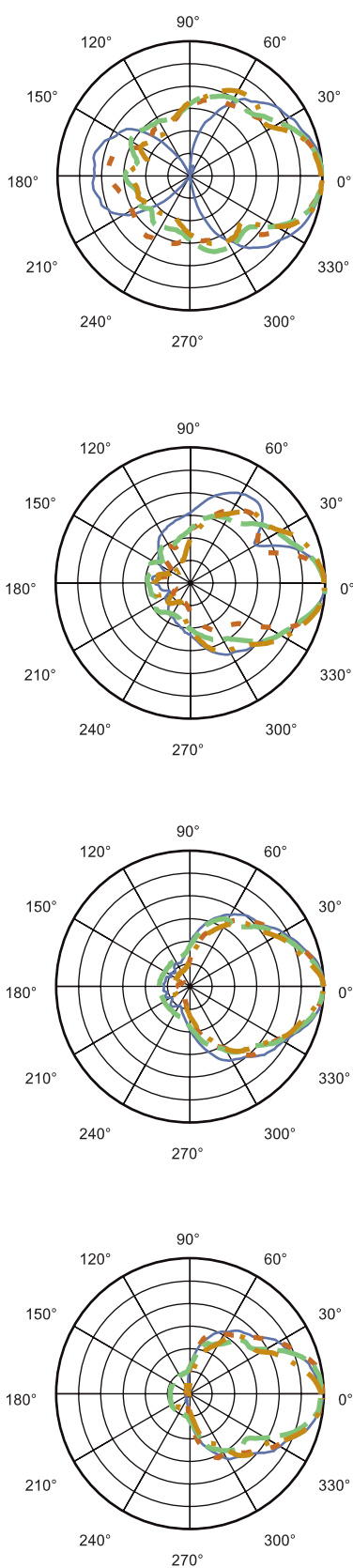
Horizontal 1/3 Octave Polars:



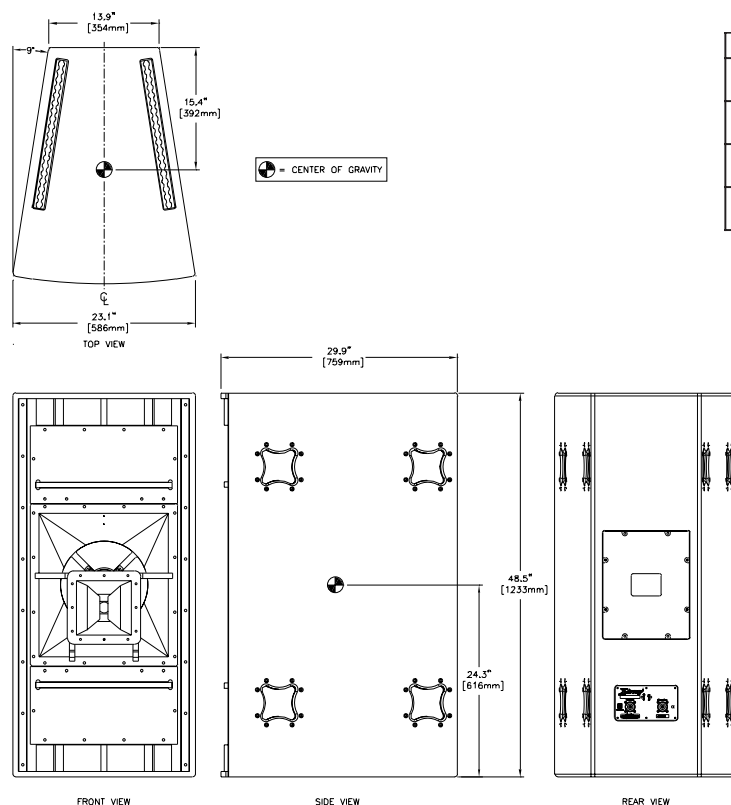
Vertical 1/3 Octave Polars,
without VBS:



with VBS:



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.

Architectural & Engineering Specs:

Performance Match

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

Xi-2153A/64F Part Numbers

- 1058-3418 - Black
- 1058-3411 - White

The loudspeaker system shall be a three-way tri-amp system. The system shall have two (2) 15-inch, low-frequency loudspeakers with a nominal impedance of 4 ohms and a 4 inch aluminum voice coil. The low-frequency loudspeakers shall have a power handling capacity of 1200 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 (23.07 inches) wide by 1233 mm (48.54 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 109 kg (240 lbs).

The loudspeaker shall be the Electro-Voice® Xi-2153A/64.



12000 Portland Avenue South, Burnsville, MN 55337

Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

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U.S.A. and Canada only. For customer orders, contact Customer Service at:

800/392-3497 Fax: 800/955-6831

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:

+ 49 9421-706 0 Fax: + 49 9421-706 265

Other International locations. For customer orders, contact Customer Service at:

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For warranty repair or service information, contact the Service Repair department at:

800/685-2606

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

Specifications subject to change without notice.