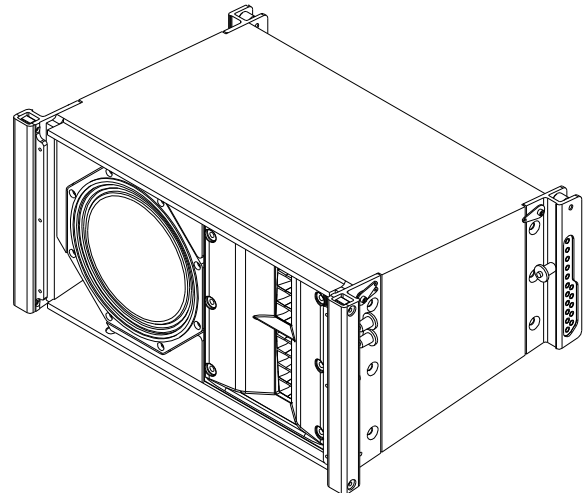# XLE181-FG Fiberglass 2-Way, High-Output, Very Compact Line-Array Element

Electro-Voice

- Very Compact, Lightweight

- Simple, Quick Integrated Rigging

- 120° Horizontal Coverage

- Bi-Amp or Full-Range Operation only

- Neodymium Transducers

The XLE181-FG is a 2-way using a single 8-inch neodymium LF transducer and two neodymium 2-inch voice coil compression drivers with output combined through two Hydra waveform converters into a 120° x 10° waveguide.

These fiberglass models are fully weatherized. The XLE181-FG can be configured in bi-amp or full-range modes. It is designed for use in arrays of four or more elements. The XLE181-FG delivers full bandwidth audio with precise, predictable coverage control.

The XLVC weatherized family consists of two full-range systems with dual woofers, two full-range systems with single woofers and a subwoofer system.
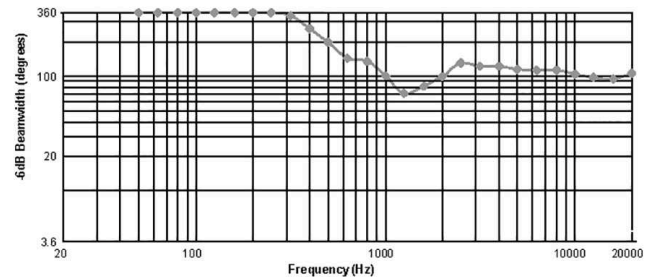
The dual-woofer versions include the XLD281-FG with a 120° horizontal coverage pattern and the XLD291-FG with a 90° horizontal coverage pattern. The single-woofer versions include the XLE181-FG with a 120° horizontal coverage pattern and the XLE191-FG with a 90° horizontal coverage pattern. The subwoofer module is the XCS312-FG.

PREVIEW Loudspeaker Software quickly provides array configurations and rigging information.
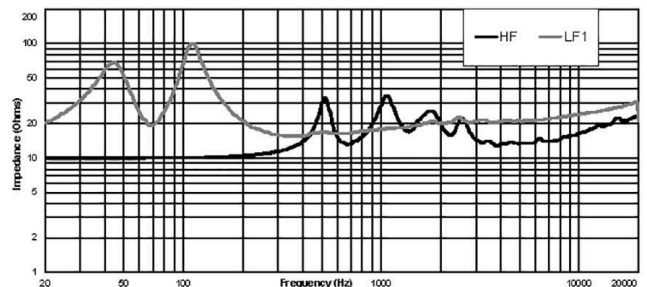
XLD and XLE weatherized models deliver unprecedented performance in outdoor venues even when fully exposed to the elements.
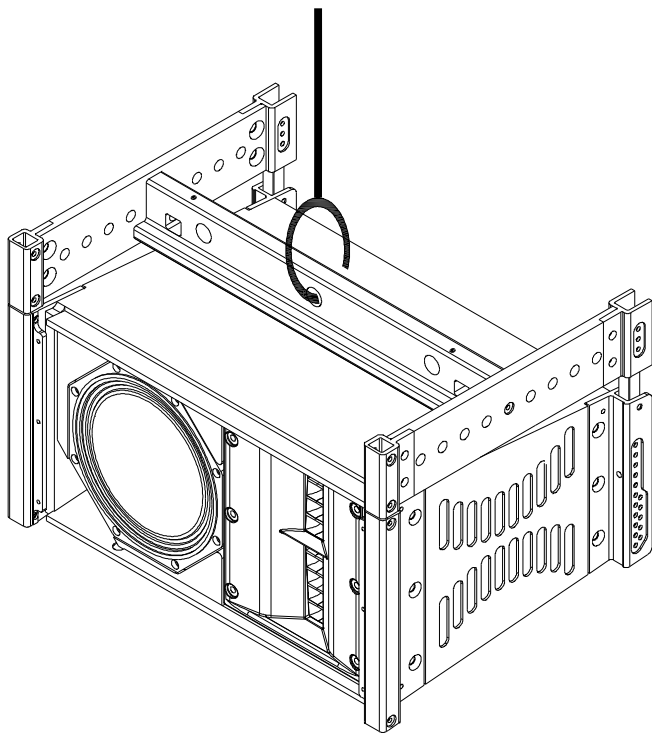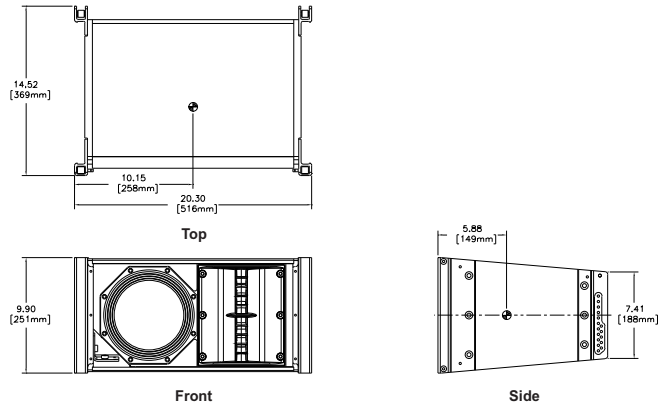
System overview

Beamwidth:

Impedance:

Grid Drawing:

Dimensions:

Top

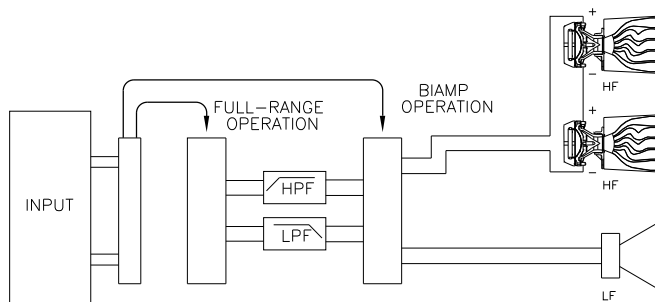**Front**

Side

Block Diagram:

Compatible System Solutions, Install Version:

XLE191-FG 90° Full-Range Line Array Element
XCS312-FG Triple 12 inch Cardioid Compact Controlled-Coverage Bass Element

Compatible System Solutions, Electronics:

CP3000S Precision Series Power Amplifier
CP4000S Precision Series Power Amplifier
TG5 Tour Grade Power Amplifier
TG7 Tour Grade Power Amplifier
Dx46 Digital Sound System Controller
N8000 NetMax 300 MIPS Digital Matrix Controller

Wiring Detail:

Biamp

HF	Blue +, Brown -
LF	Red +, Black -

Full-Range

Passive	Red+, Black -

Technical specifications

Frequency response (-3dB):	90 Hz-18 kHz[1]
Frequency range (-10 dB):	75 Hz-20 kHz[1]
Max calculated SPL:	137 dB Cont., 143 dB Peak[2]
Horizontal coverage:	120°
Vertical coverage:	Array dependent, software definable[3]
Rigging:	1° increments, 16 elements with 8 to 1 safety factor
LF power handling:	200 W cont., 800 W peak
HF power handling:	80 W cont., 320 W peak
Recommended LF to HF crossover frequency:	1760 Hz[4]
LF passband:	1 x 8 in DVN2080, 16 ohms
HF passband:	2 x ND2S-8, 16 ohms
Connectors:	Gland nut with 30 ft cable
Enclosure:	13-ply birch plywood with fiberglass and EVCoat
Grille:	Stainless steel with powder coat paint and hydrophobic cloth
Environmental specifications:	IEC 60529, IP55

Dimensions (H x W x D):	9.90 in x 20.30 in x 14.52 in (251 mm x 516 mm x 369 mm)
Net weight:	38 lb (17.2 kg)
Shipping weight:	41 lb (18.4 kg)

[1]Full space measurement of four elements.
[2]Full space measurement of HF section of four elements, SPL adjusted for 1 m distance.
[3]Using PREVIEW Loudspeaker Software
[4]Use EV signal processing or download presets from Electro-Voice website.

Ordering information

XLE181-FGB 8" 120x10 install fiberglass black
XLE full-range cabinet, fiberglass, 1 x 8", 2 x ND2, full-range or bi-amp mode switchable, 10° vertical angle, 120° horizontal angle, integrated rigging system, black
Order number **XLE181-FGB | F.01U.286.126**

XLE181-FGW 8" 120x10 install fiberglass white
XLE full-range cabinet, fiberglass, 1 x 8", 2 x ND2, full-range or bi-amp mode switchable, 10° vertical angle, 120° horizontal angle, integrated rigging system, white
Order number **XLE181-FGW | F.01U.286.127**

Accessories

XLE-GRID-FGB Grid for XLE install fiberglass black
XLE system fiberglass grid for up to 16 x XLE181-FG/XLE191-FG, black
Order number **XLE-GRID-FGB | F.01U.286.120**

XLE-GRID-FGW Grid for XLE install fiberglass clear
XLE system fiberglass grid for up to 16 x XLE181-FG/XLE191-FG, white
Order number **XLE-GRID-FGW | F.01U.286.121**

XLCV-BGK-FGB Bottom grid hardware for XLD-FG/XLE-FG
Bottom grid kit for XLD and XLE fiberglass (-FG) systems, black
Order number **XLCV-BGK-FGB | F.01U.287.221**