Electro-Voice | XLD281 3-Way, High-Output, Very Compact Line-Array Element

XLD281 3-Way, High-Output, Very Compact Line-Array Element

- Very Compact, Lightweight
- CCT (Coverage Control Technology)
- 120° Horizontal Coverage to 200 Hz
- Bi-Amp or Tri-Amp Operation
- Neodymium Transducers

The XLD281 is a 3-way design using CCT (Coverage Control Technology) to control horizontal coverage to 200 Hz. It uses an 8 inch neodymium LF transducer, an 8 inch neodymium LF/MB transducer, and two neodymium 2 inch voice coil compression drivers combining through 2 hydra plane wave generators into a 120° x 10° waveguide. CCT uses both 8 inch transducers to provide maximum low frequency output and operating bandwidth while controlling horizontal beam width to 200 Hz by using DSP. The XLD281 can be used in tri-amp mode, or in bi-amp using a sophisticated internal passive network. Designed for use in arrays of four or more elements, the XLD281 delivers full bandwidth audio with precise, predictable coverage control. Integrated rigging with hinge points located correctly between array elements is simple to use and quickly provides uncompromised line array performance.

The XLVC 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 with a 120° horizontal coverage pattern and the XLD291 with a 90° horizontal coverage pattern. The single-woofer versions include the XLE181 with a 120° horizontal coverage pattern and the XLE191 with a 90° horizontal coverage pattern. The subwoofer module is the XCS312. Most applications using flown very compact elements require subwoofers integrated into the same array as the full-range systems. XLVC provides three methods to conveniently do this. The XCS312 subwoofer module can be directly arrayed above, or below XLD281 full-range systems. LAPS2 modeling software quickly provides array configurations and rigging information.

X-Line Very Compact delivers unprecedented performance in applications ranging from live reinforcement to performing arts venues to houses of worship.

Technical specifications

| Frequency Response (-3 dB) | 75 Hz-18 kHz¹ |
| Frequency Range (-10 db) | 60 Hz-20 kHz² |
| Max Calculated SPL | 137 dB Cont., 143 dB Peak² |
| Horizontal Coverage | 120° |
| Vertical Coverage | Array Dependant, Software Definable |
Rigging: Fully Captive Aluminum, 1° increments, 16 elements with 8 to 1 Safety Factor

LF1 Power Handling: 200W Cont., 800W Peak
LF2 Power Handling: 200W Cont., 800W Peak
HF Power Handling: 80W Cont., 320W Peak
Biamp LF1/HF Power Handling: 200W Cont., 800W Peak

Bandpass Frequency: 50 - 250 Hz

LF1 to HF Crossover Frequency: 1760 Hz

LF 1 Passband: 1 x 8 inch DVN2080, 16 ohms
LF2 Passband: 1 x 8 inch DVN2080, 16 ohms
HF Passband: 2 x ND2S-8, 16 ohms
Biamp LF1/HF Passband: 16 ohms

Connectors: 2 x NL8

Enclosure: 13-ply birch plywood with EVCoat
Grille: Galvannealed steel with powder coat paint

Environmental Specifications: IEC 529 IP24, MIL 810

Dimensions (H x W x D): 9.9 in x 28.58 in x 14.52 in (251 mm x 726 mm x 369 mm)

Net Weight: 48 lb (21.8 kg)
Shipping Weight: 51 lb (23.1 kg)

1Full Space Measurement of four (4) elements.
2Full Space Measurement of HF section of four (4) elements, SPL adjusted for 1 m distance.
3Use EV signal processing or download presets from Electro-Voice website.

System overview

Beamwidth:

Impedance:

Grid Drawing:

Block Diagram:

Connection Chart (Pins 1: Pass Through)
Dimensions:

Compatible System Solutions:

- XLD291 90° Full-Range Line Array Element
- XCS312 Triple 12 inch Cardioid Compact Controlled-Coverage Bass Element
- XLC215 Dual 15” Line Array Bass Element (Requires AGCD)

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

Ordering information

XLD281 3-Way, High-Output, Very Compact Line-Array Element
Black
XLD Full-range cabinet, 2 x 8”, 2 x ND2, bi-amp or tri-amp mode switchable, 120° H/10° V, integrated rigging system, black
Available in EMEA regions only
Order number EV-XLD281

XLD281 3-Way, High-Output, Very Compact Line-Array Element
Black
XLD Full-range cabinet, 2 x 8”, 2 x ND2, bi-amp or tri-amp mode switchable, 120° H/10° V, integrated rigging system, black
Order number XLD-281-BLKLB

XLD281 3-Way, High-Output, Very Compact Line-Array Element
White
XLD Full-range cabinet, 2 x 8”, 2 x ND2, bi-amp or tri-amp mode switchable, 120° H/10° V, integrated rigging system, white
Order number XLD-281-WHTLB

Accessories

- SP8.4 Side Panel Kit
  XLD/XS dolly side panel kit for 8 XLD or 4 XCS
  Order number SP8.4

- SP12.6 Side Panel Kit
  XLD/XS dolly side panel kit for 12 XLD or 6 XCS
  Order number SP12.6

- XLD Dolly
  Transportation dolly for up to 12 x XLD281
  Order number XLD-DOLLY

- XLD Grid
  XLD system aluminum grid for up to 16 x XLD281/
  XLD291 or 8 x XCS312
  Order number XLD GRID_GLN

- XLD GRID CCA Clear Coated
  XLD system aluminum grid for up to 16 x XLD281/
  XLD2591 or 8 x XCS312, clear coated
  Order number XLD GRID CCA_GLN

- CBEAM Coupler Beam
  Coupler beam for connecting XLD/XLE grids
  Order number CBEAM_GLN

- XGS-4 Groundstack Kit
  XGS-4 groundstack kit for XLD or XLE and XCS312
  Order number XGS-4_GLN

- XLVC-BGK Bottom Grid Kit
  Bottom grid kit for XLD and XLE systems
  Order number XLVC-BGK_GLN

- XLVC-TAE Tilt Angle Extender
  Tilt angle extender for XLD and XLE systems
  Order number XLVC-TAE_GLN