The XLD291 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 90° 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 XLD291 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 XLD291 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 XLD291 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response (-3 dB)</td>
<td>75 Hz-18 kHz²</td>
</tr>
<tr>
<td>Frequency Range (-10 db)</td>
<td>60 Hz-20 kHz²</td>
</tr>
<tr>
<td>Max Calculated SPL</td>
<td>138 dB Cont., 144 dB Peak²</td>
</tr>
<tr>
<td>Horizontal Coverage</td>
<td>90°</td>
</tr>
<tr>
<td>Vertical Coverage</td>
<td>Array Dependant, Software Definable</td>
</tr>
</tbody>
</table>
### System overview

#### Beamwidth:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ohms)</th>
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<tbody>
<tr>
<td>20</td>
<td>200</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>1000</td>
<td>50</td>
</tr>
<tr>
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<tr>
<td>20000</td>
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</tr>
<tr>
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<td>5</td>
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<tr>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Grid Drawing:

![Grid Drawing](image)

#### Block Diagram:

![Block Diagram](image)

#### Connection Chart

<table>
<thead>
<tr>
<th>Component</th>
<th>Triamp</th>
<th>Biamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF2</td>
<td>Pins 2</td>
<td>Pins 2</td>
</tr>
<tr>
<td>LF1</td>
<td>Pins 3</td>
<td>LF/HF</td>
</tr>
<tr>
<td>HF</td>
<td>Pins 4</td>
<td>Pins 4 Pass Through</td>
</tr>
</tbody>
</table>

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**Notes:**

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

Compatible System Solutions:

- XLD281 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
- D46 Digital Sound System Controller
- N8000 NetMax 300 MIPS Digital Matrix Controller

Ordering information

**XLD291 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, 90° H/10° V, integrated rigging system, black
Order number XLD-291-BLKL

**XLD291 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, 90° H/10° V, integrated rigging system, white
Order number XLD-291-WHTLB

**Accessories**

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

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

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

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

- **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/ XLD291 or 8 x XCS312, clear coated
  Order number XLD GRID CCA_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