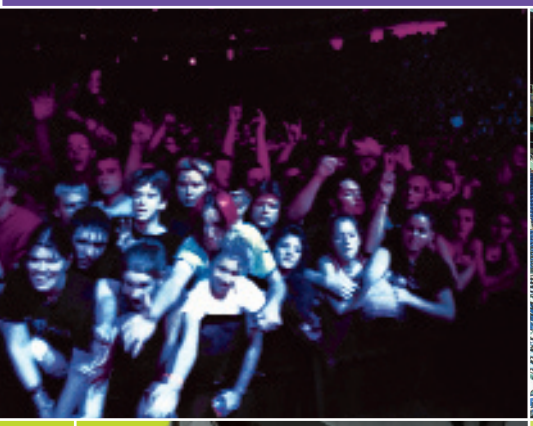
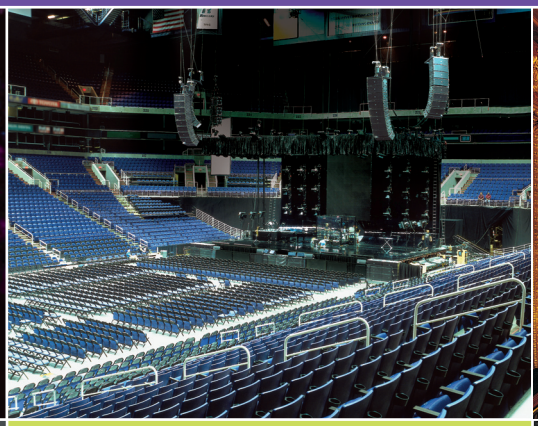
PERMANENT INSTALLATION & CONCERT SOUND

XLC COMPACT FULL BANDWIDTH LINE ARRAY SYSTEM





XLC™

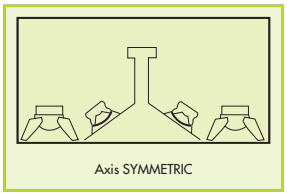
- FAST INTEGRATED RIGGING
- TRUE 3-WAY DESIGN
- COMPACT, LIGHTWEIGHT DESIGN
- SOFTWARE AIMING PROGRAM
- CONTROL WITH PREDICTABILITY

COMPACT FULL

AXIS ASYMMETRICAL DESIGN

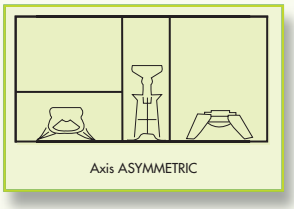
The Problem:

Most linear-array systems — whether large-format stadium systems or compact designs — are axis-symmetrical designs. This approach places the mid- and low-frequency drivers symmetrically across the vertical axis of each cabinet. Such designs succeed in generating identical polar radiation on both sides of the cabinet. Unfortunately this horizontal arrangement of drivers creates, in effect, miniature horizontal linear arrays with unwanted lobing, creating dead spots in the horizontal plane. When such lobing is fixed through use of very low crossover points, HF compression drivers and mid-range drivers overload easily and real sonic problems occur, like high distortion, poor reliability and generally poor fidelity. Axis-symmetrical designs are, therefore, incomplete solutions.


Axis SYMMETRIC

The XLC Solution:

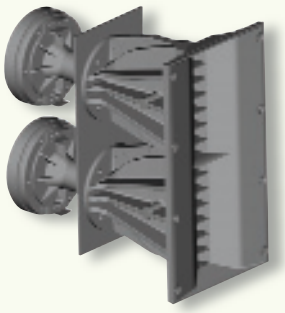
XLC, however, is an axis-asymmetrical design. Within each XLC cabinet, mid- and high-range drivers are arrayed vertically, eliminating the problems inherent in horizontal arrays. The sonic results are clearly superior: better stereo imaging, no horizontal lobing, and better integrated system fidelity. Advantage: XLC !


Axis ASYMMETRIC

HIGH FREQUENCY SUMMING – THE HYDRA

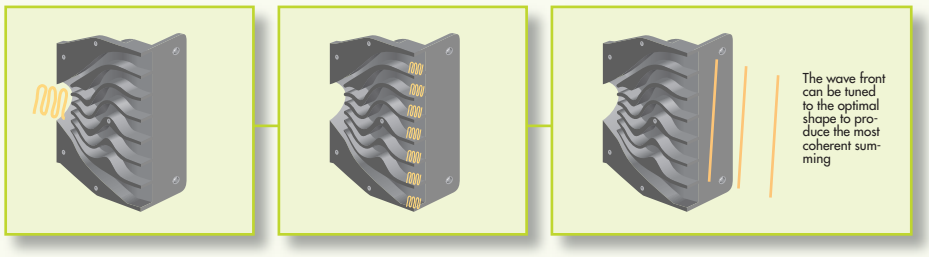
The Problem:

Accurate high-frequency summing of linear arrays is achieved only through careful control of the phase relationships between each HF device. However, there is no physical (or, more importantly, electronic) way to produce a single cohesive wave front from multiple sources. The simple HF waveguide designs used in most competitive linear arrays produce several individual wave fronts that are slightly out of phase with each other. Such phase distortion creates peaks and dips that introduce dead spots in the listening field.



The XLC Solution:

EV's innovative HF waveguide, the Hydra™, is a plane-wave generator that can be tuned to produce optimal wave-front geometry for any design. The Hydra sections in the XLC are precisely tuned to the overall array geometries required for typical compact linear-array applications. Such optimization reflects the innovative design philosophy found everywhere in the XLC system. The result is superior high-frequency summing throughout the entire listening field, near or far.



XLC APPLICATIONS

Flexibility:

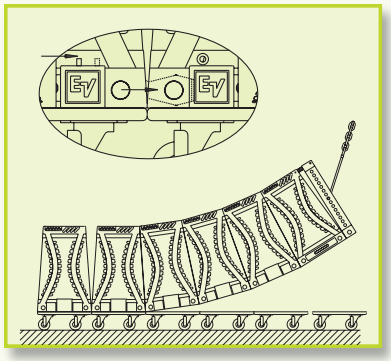
XLC's features make it ideal, top-of-class choice for permanent installations and mobile applications alike.

Fixed/Permanent Installation Applications		Concert Sound Applications
Performing arts venues	Sports facilities	Corporate events
Houses of worship	Outdoor venues	Large, medium and small-format full touring systems
Arenas		Wraps, sides and delay for very large-format systems

ONE-PERSON RAPID RIGGING

Quick and Easy:

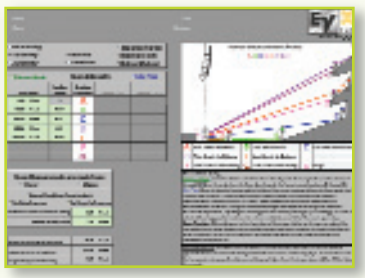
XLC's rigging is classic EV: precise and very safe. The unique design allows one person to hang an XLC array, even on irregular outdoor surfaces. The XLC design also allows for in-the-air aiming (most competitive systems require the system to be lowered and reconfigured). The XLC system is designed for fine-tuning in a real world environment. The captive front interlocking system has no separate parts to keep track of, and it disappears into the frame to maintain an uncluttered, attractive appearance.

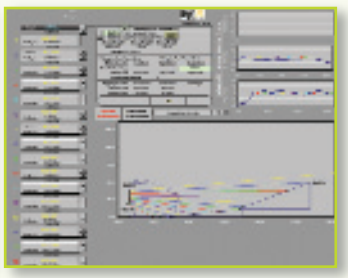


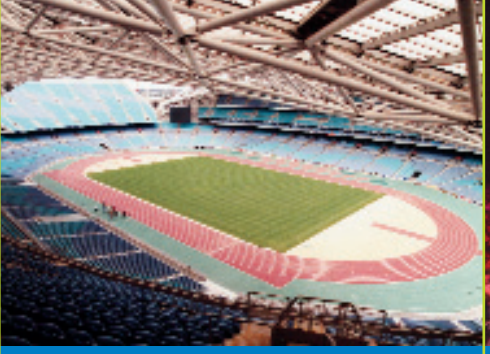
AIMING SOFTWARE

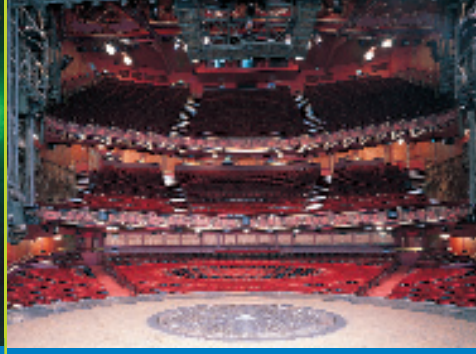
Performance:

XLC's acclaimed aiming program Line Array Prediction Software (LAPS) is critical for achieving consistent array hangs. Simple data input of venue dimensions, hang geometries, and trim parameters generates not only front-to-back SPL performance data, but also critical safety-factor information. The aiming software produces repeatable results and allows the user to optimize the array for any given venue.









THE XLC SYSTEM

XLC 127 DVX

This cabinet is the main component to create a XLC line array. Starting with a minimum of four cabinets, a reasonable array size uses six to eight boxes, up to a maximum of 16 for larger arenas. The three-way axis-asymmetric design includes a single EV DVX3121 12" woofer optimized for this cabinet.
Two 6.5" horn-loaded DVN2065 neodymium drivers in a vertical array comprise the mid-frequency bandpass. The XLC127DVX utilizes two ND6 (3" voice-coil) neodymium compression drivers loaded on two Hydra™ plane wave generators. With a horizontal coverage of 120°, the XLC system accurately covers wide areas while maintaining excellent imaging and lobe-free coverage. XLC127DVX is the successor cabinet of the famous XLC127+ with improved SPL capabilities in LF and MB section, maintaining enclosure and rigging structure of the proven 127+ cabinet.

XLC 215

The XLC 215 features dual DVX3150 15" woofers for most efficient flying subwoofer applications, offering top "punch" from flown sub arrays. It utilizes the same rigging mechanics and has 1.5 times the height as the XLC main cabinet. This allows a hang of XLC215s to be flown beside the main hang at a 3:2 ration, maintaining aesthetic requirements for equal hang heights and consistent optics.

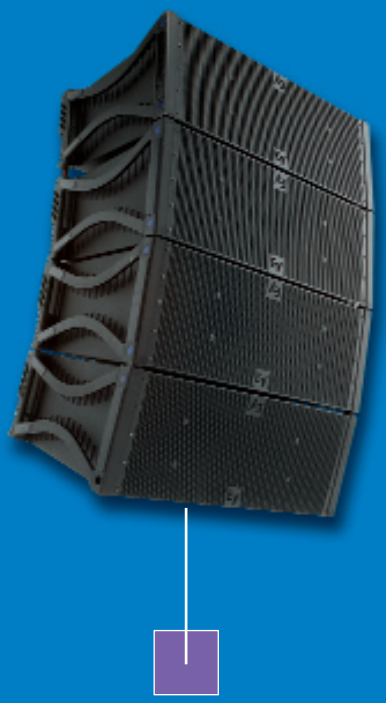
XLC 118 Subwoofer

The XLC 118 is a single 18" direct radiating design using the legendary EVX180B woofer. The XLC 118 cabinet size is identical to the XLC 215, representing 1.5 times the height of the XLC127 main cabinet. The powerful low-end of this flying subwoofer benefits from an improved even SPL-distribution when compared to a classical ground stack.

ELECTRO-VOICE® X-LINE™ COMPACT (XLC™) FULL-BANDWIDTH LINE ARRAY LOUDSPEAKER SYSTEM

- CONTROL WITH PREDICTABILITY
- COMPACT, LEIGHTWEIGHT DESIGN
- FAST INTEGRATED RIGGING
- TRUE 3-WAY DESIGN
- SOFTWARE AIMING PROGRAM

A successful design philosophy that solves problems, improves performance, and makes a difference in how needs are satisfied defines the Electro-Voice XLC system. EV designed its compact linear array from the ground up to sound the best, to rig faster and easier, and to provide the best uniformity of coverage. Simply said, to be the best.



SPECIFICATIONS

Technical Specifications for XLC Cabinets

Specification	XLC 127DVX	XLC 215	XLC 118
Horizontal Coverage	120°		
LF Power Handling	500 W cont./2000 W peak	1000 W cont./4000 W peak	600 W cont./2400 W peak
MB Power Handling	300 W cont./1200 W peak		—
HF Power Handling	150 W cont./600 W peak		—
Sensitivity (LF/MB/HF)	95 dB/101 dB/111 dB	97 dB/103 dB*	96 dB/102 dB*
LF Transducer	1 x 12" DVX3121	2 x 15" DVX3150	1 x 18" EVX180B
MB Transducer	2 x 6.5" DVN2065	—	—
HF Transducer	2 x ND6 - 16	—	—
Connectors	2 Neutrik® NL8	2 Neutrik® NL8	2 Neutrik® NL8
Enclosure Material	Futura®-coated plywood	Futura®-coated plywood	Futura®-coated plywood
Grille	Powder-coated steel	Powder-coated steel	Powder-coated steel
Environmental Specs	IEC 529 IP24 MIL STD 810	IEC 529 IP24 MIL STD 810	IEC 529 IP24 MIL STD 810
Dimensions (H x W x D)	362 x 991 x 572 mm (14.25" x 39 " x 22.5")	546 x 991 x 572 mm (21.5" x 39 " x 22.5")	546 x 991 x 572 mm (21.5" x 39" x 22.5")
Net Weight	49.9 kg	54.5 kg	54.5 kg
Shipping Weight	52.2 kg	63,6 kg	63,6 kg

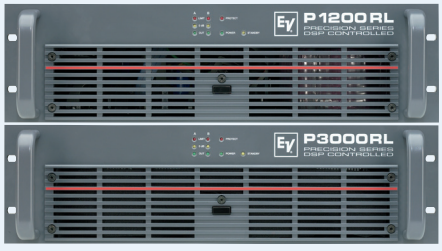
*Half space environment

Technical Specifications for Four-Cabinet XLC 127 Array

Specification	4 x XLC 127 Array
Frequency Range (-3 dB)	70 Hz–18 kHz
Sensitivity (1W/1m)	112.5 dB
Max Calculated SPL (1W/1m)	135 dB cont./141 dB peak
Horizontal Coverage	120°
Vertical Coverage	Splay dependent
LF Power (recommended)	EV® P2000, CP3000S, TG5
MB Power (recommended)	EV® P2000, CP3000S, TG5
HF Power (recommended)	EV® P2000, CP3000S, TG5

Recommended System Drive for XLC

Cabinet:	XLC 127DVX, XLC 127+	XLC 118, XLC215
LF:	P 2000 / P 1200 RL / CP3000S / TG5	-
MB:	P 2000 / P 1200 RL / CP3000S / TG5	-
LF:	P 2000 / P 1200 RL / CP3000S / TG5	P 3000 / P 3000 RL / CP4000S, TG7
System Controller:	Dx 38 or N8000 or DSP Controlled Precision Series Amplifiers (RL)	



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