

# X-Array™ Xi-Series™



Delivering the best  
possible sound to every  
seat in the house



**X-Array™: Ring-Mode Decoupling (RMD™), for the best vocals you have ever heard.** X-Array™ marks the family of Electro-Voice loudspeaker systems with Ring-Mode Decoupling. RMD provides spectacularly clear vocals and smooth midrange at all output levels. The X-Series™ employs neodymium magnetics and a rigging system designed and especially appropriate for large, world-class touring arrays.

**X-Array™ Xi-Series™: High intelligibility in reverberant spaces through extended-frequency directivity control.** The Xi-Series™ described in


this brochure adds models particularly appropriate for high-performance fixed installations. Included are two- and three-element line-array configurations, which increase intelligibility and clarity in reverberant spaces through extended-frequency directivity control.

Suspension hardware and magnetics are optimized for permanent installation or portable applications of small-to-medium size. The Xi-Series™ also includes two-way systems in a range of sizes and coverage patterns to augment the performance of the main three-

## State-of-the-art technology for accurate sound reproduction at all levels

X-Array™ Xi-Series™ includes special features that set the systems apart.

### Two- and three-element line arrays: Extended-frequency directivity control


 Using Merlin® signal processing, “dipole” and “tripole” configuration of the Xi-1123, Xi-2123, Xi-1153 and Xi-2153 provides vertical coverage-angle control to as low as 125 Hz. More of the important vocal range is aimed at the absorptive audience instead of the reflective room surfaces. This helps increase intelligibility in reverberant spaces. Reduced output below the systems suppresses feedback from microphones under the loudspeakers.

### Ring-Mode Decoupling (RMD™): Breathtaking vocal quality


 Many acoustic and mechanical delayed resonances color the sound of typical loudspeakers. EV

engineers have systematically exposed these resonances and suppressed them one by one. We call this process Ring-Mode Decoupling, or RMD™. The resonances may not be measurable by conventional means, and are typically many dB below the desired signal. But the human ear/brain combination is extremely sensitive to such signals. RMD™ gives a quality of sound and degree of clarity that audiences find *breathtaking*.


### Ring-Mode Decoupling (RMD™): Level-independent fidelity

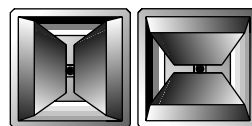
 In typical speaker systems, as the overall sound pressure level is increased — such as during a musical performance — the delayed resonances increase proportionally more than the primary signal. This sends the sound operator to the equalizers in an attempt to “fix” the sound. It is an ill-fated attempt since changing the response of the system cannot eliminate the unpleasant resonances. *RMD™ suppresses acoustic and mechanical resonances at their source.*

### DH6 large-format driver: Exceptional HF detail at all SPL's


 All three-way and virtually every two-way system in the series use a new large-format compression driver with RMD™. The titanium diaphragm of the DH6 has increased internal strength and damping for unprecedented HF clarity and resistance to mechanical fatigue at very high sound levels. The reduced diaphragm-to-phase-plug spacing applies acoustic damping and maintains output in the 10– to 20-kHz range.

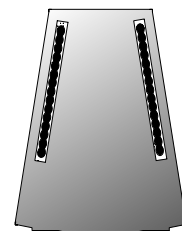
### Rotatable HF horns: Coverage flexibility

 Nearly every Xi-Series™ system has a rotatable HF horn. It is designed so the intended coverage angle can be maintained for vertical *and* horizontal box orientations. (The 100° x 60° Xi-2123 and Xi-1123 also have rotatable mid-bass horns.)



### Rigging: L-tracks with 8:1 safety factor

 Xi-Series™ systems (with the exception of the ultra-compact Xi-1082 under-balcony) have dual L-tracks top and bottom for two-point suspension and aiming. The L-track extrusions are tied together by internal aluminum bars which take the load entirely away from the 13-ply birch enclosures. As a result, a safe and conservative suspension system is formed, one that can be used with confidence. Even in the largest vertical arrays recommended, an 8:1 safety factor is maintained. The L-tracks accept a number of single- and double-stud fittings (see engineering data sheets and Xi-Series™ Flying Manual\*).




\*The user is responsible for determining the loads on all mechanical components throughout the loudspeaker array and for ensuring that the working-load limits and resulting safety factors are not exceeded.

way systems – for down fill, far throw, delay rings, under balcony and low-frequency enhancement.

Many of the two-way systems also provide superb performance on their own when room acoustics and geometry are appropriate.

When performance demands are high, Xi-Series™, in combination with Merlin® signal processing, will find ideal application in performing arts centers, theaters, auditoriums, houses of worship and regional touring.

### Carrying handles on each side of all Xi-Series™ enclosures

 Specially designed multigrip handles are extremely comfortable and can be gripped from any angle, making lifting much easier.

The large systems feature four handles per side, and the compact two-way systems have two handles per side. (The ultracompact Xi-1082 under-balcony system has no handles.)



### Power: Unrivaled fidelity at high outputs

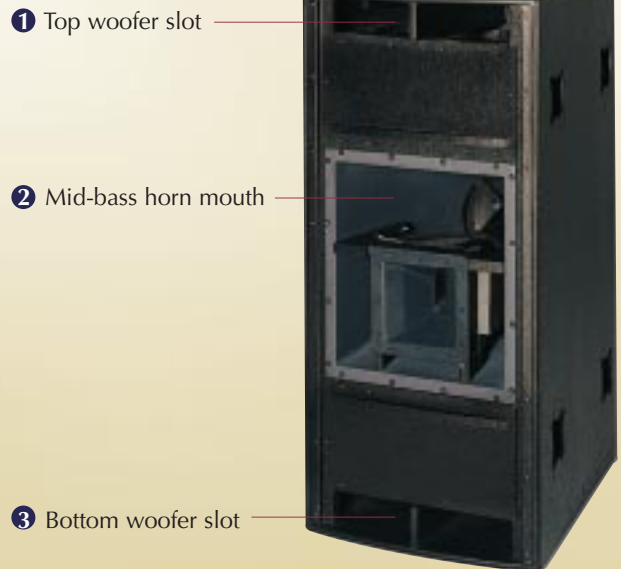
 Electro-Voice Precision Series™ power amplifiers perfectly complement Xi-Series™ and are on tour with the Rolling Stones and their X-Array™ X-Series™ system. Precision Series™ amplifiers exhibit very high peak output for uncompromised fidelity at

high sound levels (140 volts peak — nearly 2,500 watts into 8 ohms — for the P3000; 110 volts peak — over 1,500 watts — for the P2000). Dual power supplies allow driving subs and mid- or high-channels from the same amplifier, without signal degradation.

### Signal processing support

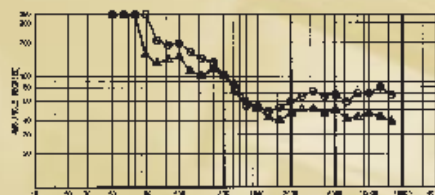
Full system configuration parameters are available for crossover, signal delay, parametric EQ and compression/limiting functions in the following products:

- Merlin® ISP-100
- Klark Teknik DN8000
- Electro-Voice Dx34A

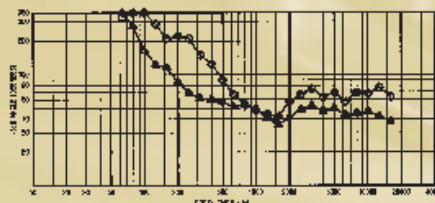


## Two- and three-element line arrays

The “tripole” configuration of the Xi-2153/64 and Xi-2123/106 allows output from the mid-bass horn to join that of the spaced, dual low-frequency sources and provide exceptional vocal clarity in reverberant spaces and resistance to feedback beneath the loudspeaker. This is accomplished by extending a precisely controlled radiation pattern to unusually low frequencies.



Before Xi-Series™ and Merlin® (conventional crossover).

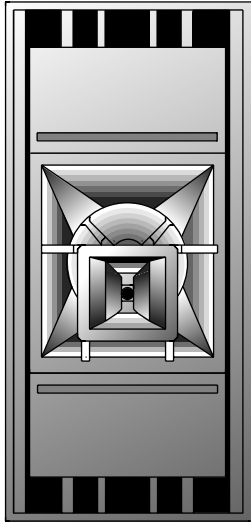


After Xi-Series™ and Merlin® (“tripole” configuration). Note dramatically increased directivity at mid/low frequencies.

The winning combination of Xi-Series™ and Merlin® ISP-100 offers substantial increases in system intelligibility in reverberant spaces. See page 7 for more Merlin® details.

## Two- and three-element line arrays

Two- and three-element line arrays extend vertical coverage-angle control to as low as 125 Hz, for high intelligibility in reverberant spaces and reduced feedback potential below arrays.



**Xi-2153/64F:** three-way, dual-15-inch 60° x 40° full-range system, tripole configurable

Much of the mid and lower vocal frequency range is often unwittingly aimed primarily at highly reflective room surfaces rather than the absorptive audience. This is because the horn mouths or cones of loudspeakers are too small to maintain or control the rated coverage angle at these frequencies. As a result, vocal intelligibility and musical clarity suffer. (The typical compact 60° x 40° horn, about 12 inches high, begins to expand beyond its rated 40° vertical coverage angle at about 2,000 Hz, well above a major portion of the vocal range.)

The mid-bass horn in the Xi-2153/64F is large enough (about 19 inches square) to control its 60° x 40° coverage to about 800 Hz, but Electro-Voice engineers wished to do

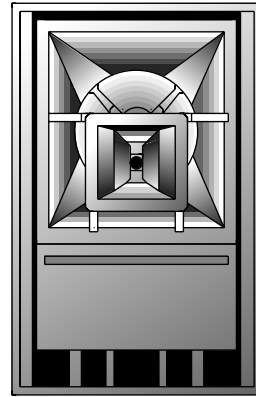
better. They flanked the mid-bass horn with dual, spaced LF sources to form a three-element line array, or “tripole.” They found that by using the dual LF sources alone at low frequencies and by appropriately overlapping the LF and MB sources in the 125- to 540-Hz frequency range, a stable and restricted vertical coverage angle could be maintained to as low as 125 Hz. (See page 7 for more Merlin® details.)

The tripole effect is quite dramatic in reverberant spaces. A-B comparisons have been made between high-quality systems with similar frequency response but directivity control to only 2,500 Hz. When switching to the tripole, the listeners' ears were drawn much more strongly to the loudspeaker as the source. The room seemed to partly “disappear,” and both vocal clarity and musical impact were substantially increased.

The Xi-2153/64F may be crossed over traditionally at 125 Hz and 1,760 Hz, with reduced vertical directivity control below 800 Hz. When the 48-inch height of the Xi-2153/64F is excessive, consider the 36-inch Xi-1153/64F (one 15-inch woofer) in dipole configuration.

A DL-type 12-inch mid-bass driver features RMD™ and is coupled to the 19-inch mid-bass horn. Dual EVX-155 15-inch woofers offer performance to 45 Hz, appropriate for numerous systems without low-frequency enhancement.

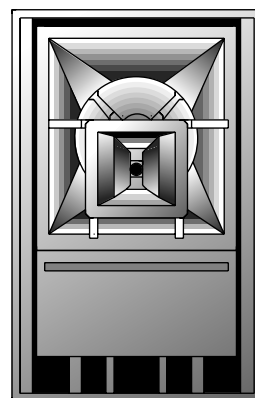
The DH6 large-format compression driver with RMD™ provides superior and level-stable upper-frequency detail. It loads into a rotatable 60° x 40° HF horn. Providing more RMD™, the horn is coaxially but asymmetrically positioned within the mid-bass horn to suppress unwanted acoustic resonances and is fully shrouded to preserve mid-bass wave-front detail.



**Xi-1153/64F:** three-way, 15-inch 60° x 40° full-range system, dipole configurable

When extended-frequency vertical directivity control is desired but vertical clearance is limited, the Xi-1153/64F could be the answer. At 36 inches rather than 48 inches high, the Xi-1153/64F has one EVX-155 15-inch woofer adjacent to the MB horn. With the Merlin® ISP-100 providing MB/LF overlap in the 125- to 540-Hz range, vertical directivity is controlled to 300 Hz.

The Xi-1153/64F may also be conventionally crossed over at 125 Hz and 1,760 Hz, with decreased directivity control below 800 Hz.



Xi-1183/64F

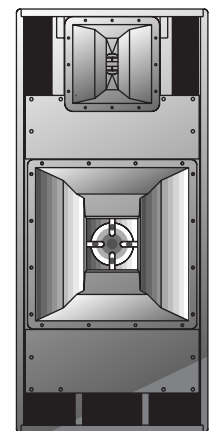
**Xi-1183/64F and Xi-2183/64F:** Three-way, 18-inch 60° x 40° full-range systems for conventional crossover and increased LF output

In situations where acoustic conditions are sufficiently ideal and/or the feedback potential

below an array is nonexistent or minimal, dipole and tripole configurations are less necessary, and the additional low-frequency output of the EVX-180B 18-inch woofer may be utilized. Typical application examples include well damped rooms and club environments.

The EVX-180B extends low-frequency response to 45 Hz, and its additional cone area and higher excursion ability more than quadruples the low-frequency acoustic output (+6.3 dB).

The Xi-1183/64F features one EVX-180B; the Xi-2183/64F employs two.



**Xi-2123/106F:** Three-way, dual-12-inch 100° x 60° full-range system, tripole configurable

The Xi-2123/106F has a wide, 100° x 60° coverage pattern for down-fill and distributed applications. The 60° vertical angle is particularly appropriate when mounting height is too low for the more conventional 40° angle.

The Xi-2123/106F may be used in tripole configuration with Merlin® ISP-100 processing, where overlap in the 250- to 550-Hz range of the MB horn and the dual, flanking woofers extends vertical pattern control to 160 Hz. Such wide-band control of directivity increases voice

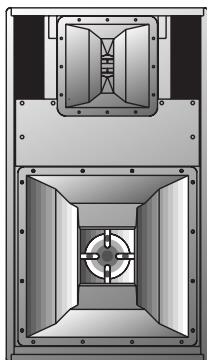
“F” suffix indicates flying configuration. Systems shown without grille.

## Two-ways with special protection option

intelligibility and musical clarity in reverberant spaces and reduces the possibility of feedback beneath the systems.

The Xi-2123/106F may also be conventionally crossed over, without LF/MB overlap, with decreased vertical directivity control.

The dual DL12-type woofers, modified for increased excursion and overall output, extend bass response of the Xi-2123/64 to 60 Hz. The rotatable, 14-inch square mid-bass horn loads a DL-type 10-inch cone transducer. A DH6 large-format compression driver drives the rotatable HF horn.



**Xi-1123/106F: Three-way, 12-inch 100° x 60° full-range system, dipole configurable**

When extended-frequency vertical directivity control is desired but vertical clearance is limited, the Xi-1123/106F should be considered. At 32 inches rather than 40 inches high, the Xi-1123/106F has one DL-type 12-inch woofer adjacent to the MB horn. With the Merlin® ISP-100 providing MB/LF overlap in the 250- to 550-Hz range, vertical directivity is controlled to 250 Hz.

The Xi-1123/106F may also be conventionally crossed over, without LF/MB overlap, with decreased vertical directivity control.

Compact, two-way full-range systems for stand-alone use in small- to medium-sized installations and to complement the performance of the large Xi-Series™ systems. Optional Merlin® ISP-100 processing provides unusually effective protection against component failure, for maximum output from two-way direct-radiating systems.

**Merlin® ISP-100: Excursion-smart, look-ahead limiting**

For the biamp-only Xi-Series™ two-way systems (Xi-1122 and Xi-1152), the optional Merlin® ISP-100 provides the ultimate in sonically unobtrusive yet ultra-effective protection against driver destruction. Merlin® extracts maximum output from these ultracompact, direct-radiating Xi-Series™ systems. (Merlin® will also provide excursion-smart protection of the three-way Xi-1123/106F and Xi-2123/106F when operated in their biamp mode.)

Broadband limiting optimized in the digital domain provides the first protective defense. The patented time characteristic of the ISP-100 allows signal overdrive to be detected *before* output occurs, allowing limiting to occur within the first cycle of output even at 20,000 Hz, with virtually no amplitude overshoot. This action provides much more reliable protection

than is possible in the analog domain.

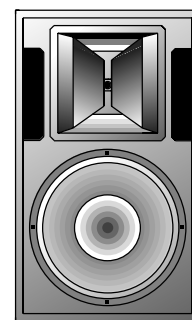
In addition, Merlin® sets the limiting threshold in inverse relation to excursion-versus-frequency capabilities of the loudspeaker components. For example, at the low end of the compression driver operating range, where diaphragm excursions are inherently larger, Merlin® limits sooner than at higher frequencies. The end result is near-absolute protection against over-excursion with the very minimum audible side effects. *Only Merlin® provides excursion-smart protection.*



**Xi-1122/85F: Ultracompact two-way, 12-inch 80° x 55° short-throw full-range system**

In an ultracompact package, the Xi-1122/85F features a DL12-type woofer with RMD™ and the same large-format DH6 compression driver used in the most advanced Xi-Series™ systems. The Xi-1122/85F brings the spectacular quality of X-Array™ to applications where space is at a premium and/or light weight is required, with full-range performance to 60 Hz. The Xi-1122/85F can be combined with the Xi-2181 low-frequency system or Xi-1191 subwoofer for full-bandwidth performance as wide as 27-20,000 Hz.

Integral carrying handles and stand-mount adapter, in addition to the L-track top and bottom rigging, facilitate a wide range of portable and fixed applications.



**Xi-1152/64F and Xi-1152/94F: Very high output for small spaces, two-way, 15-inch 60° x 40° and 90° x 40° mid- and short-throw full-range systems**

Only slightly larger and heavier than the ultracompact Xi-1122, the Xi-1152 utilizes an EVX-155 four-inch-coil woofer for prodigious output to 50 Hz. HF horns rotate for coverage independent of enclosure orientation.

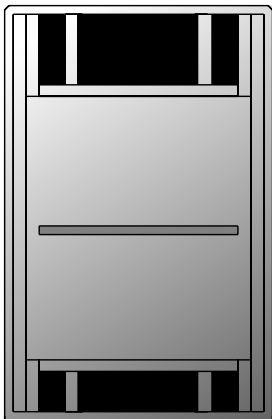
Integral carrying handles and stand-mount adapter, in addition to the L-track top and bottom rigging, facilitate a wide range of portable and fixed applications.

\*F\* suffix indicates flying configuration. Systems shown without grille.

## Low-frequency and subwoofer systems

## Special-purpose systems

Xi-Series™ low-frequency and subwoofer systems are optimally vented designs appropriate for single and multiple use, flown or ground mounted. All models feature the renowned, 1,000-watt (program) EVX-180B very-low-frequency reproducer with four-inch voice coil and a peak-to-peak excursion ability of nearly two inches! The EVX-180B woofer is arguably the world's most resistant to mechanical fatigue. (Mechanical fatigue, rather than thermal overload, is the chief cause of loudspeaker failure in contemporary, high-level music applications.)



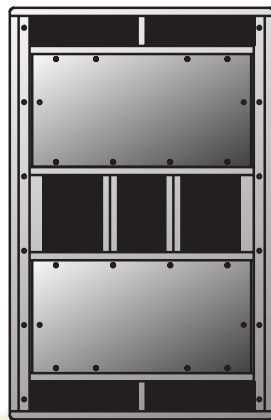
**Xi-1191 and Xi-1191F subwoofers: One EVX-180B 18-inch for high output down to 27 Hz**

The Xi-1191's single woofer faces into a slotted chamber at the bottom of the enclosure. Compared to a conventional direct radiator, this format reduces distortion and increases low-frequency efficiency at, and slightly above, box tuning.

The Xi-1191's enclosure has been optimized for subwoofer application by placing a single 18-inch transducer within it. Thus, in the "normal mode" (box tuned to 37 Hz), enclosure volume is suffi-

cient to provide a 37 Hz low-frequency limit (3 dB down) without low-frequency lift (EQ). This degree of low-frequency extension is appropriate for most contemporary music.

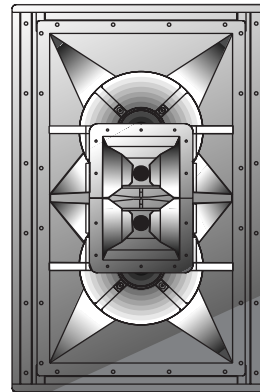
In the "step-down" mode, the low-frequency limit of the Xi-1191 drops to 27 Hz, plumbing the depths of the very-low-frequency range. This degree of bass extension is unusual and enhances many theatrical effects. Step-down is achieved by down-tuning the box to 28 Hz with the supplied vent plug and applying appropriate equalization (in the loudspeaker processing).



**Xi-2181 and Xi-2181F LF systems: Dual EVX-180B 18-inch drivers for maximum output above 37 Hz**

The Xi-2181 low-frequency system places two EVX-180B's in an enclosure sized and tuned identically to that of the single-18-inch Xi-1191. Above 50 Hz, this provides a maximum acoustic output ability four times that of the Xi-1191 (+6 dB), making the Xi-2181 the more efficient, highest-output-per-cubic-foot approach to low-frequency reproduction above 37 Hz.

(The single 18-inch Xi-1191, described earlier, is still the system of choice for high output at very low frequencies. From 30-50 Hz, the Xi-1191 is about 3 dB more sensitive than the Xi-2181.)

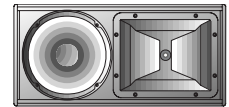


**Xi-2122/42F: Two-way, 40° x 20° dual-12-inch horn-loaded MB/HF system**

The Xi-2122/42F's 40° x 20° coverage pattern adds long-throw "punch" to the capabilities of the medium-throw 60° x 40° Xi-Series™ systems. Its physical shell is identical to that of the Xi-1153/64 and Xi-1183/64, with its footprint matching that of the taller Xi-2153/64 and Xi-2183/64.

The Xi-2122/42 operates above 125 Hz and would typically be used with the low-frequency augmentation provided by nearby full-range or low-frequency systems. Multiple Xi-2122/42's can be "fanned out" to form a horizontal array for wide horizontal and restricted vertical coverage. Alternatively, Xi-2122/42's may be used in vertical lines in medium-to-large concert arrays.

Two DL-type 12-inch cone transducers are loaded into a large, 19-in. x 33-in. mid-bass horn proportioned properly for the 40° x 20° coverage pattern. Dual, vertically stacked DH6 HF drivers mount on a "twin format" 40° x 20° horn, coaxially mounted within the mid-bass horn.



**Xi-1082: Two-way, 90° x 40° ultracompact underbalcony/low-profile full-range system**

The Xi-1082 is at home under balconies and numerous other medium-output applications where vertical height is restricted. The single eight-inch woofer (with RMD™) avoids the mid-band lobing characteristic of the dual, spaced woofers used in conventional underbalcony systems.

An Mb1082 U-bracket is optional. Four inserts on the back of the enclosure fit OmniMount® Series 100 mounting ware.\*

\*OmniMount is a registered trademark of OmniMount Systems, Inc.

\*"F" suffix indicates flying configuration. Systems shown without grille.

# Merlin®: Performance, flexibility, simplicity

Merlin® ISP-100 is a truly flexible, fully configurable digital control system that manages the crossover, voicing (equalization), signal alignment, directivity control and protection of X-Array Xi-Series™ speaker systems.

It is easy to configure and install, and intuitive to use. Available with 24-bit input and output modules, parameter algorithms were developed and "tweaked" by engineers who are serious music listeners. Merlin® ISP-100 delivers sound quality in the digital domain that is truly exceptional.

Modular inputs and outputs – two channels to a module – allow the purchase of just the amount of processing required. For the Xi-Series™ family of loudspeakers, typical configurations include:

- 2 x 4 (two in/four out) for a stereo two-way system
- 2 x 6 for a stereo three-way system
- 2 x 8 for a stereo three-way system with dual low-frequency enhancement outputs.

Additional Merlin® ISP-100's can be used to augment loudspeaker management with signal routing to fit many performing arts, church and other applications.

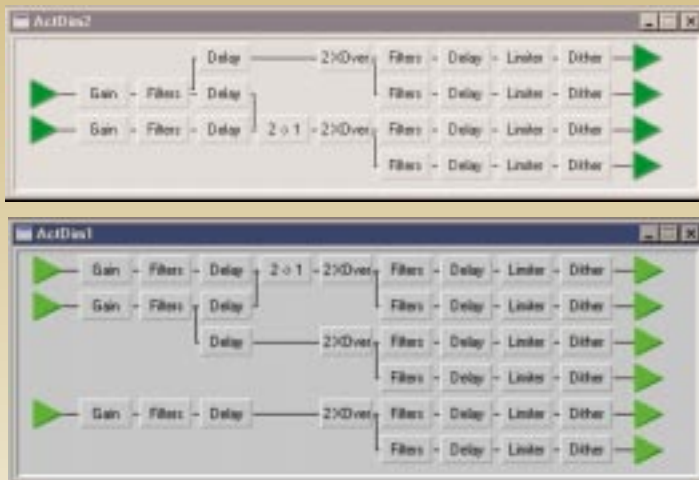
The power and versatility of Merlin® are best displayed

when applied to the management of Xi-Series™ speaker systems:

- Two-element (dipole) and three-element (tripole) line-array configurations extend vertical coverage control to as low as 125 Hz. (See pages 4 and 5 for full explanations and the models that apply.)
- Excursion-smart protection against mechanical overdrive of system components. (See page 5 for full explanations and applicable models.)

In general, conventional digital processors do not offer the programming flexibility or DSP power to handle these significant special applications.

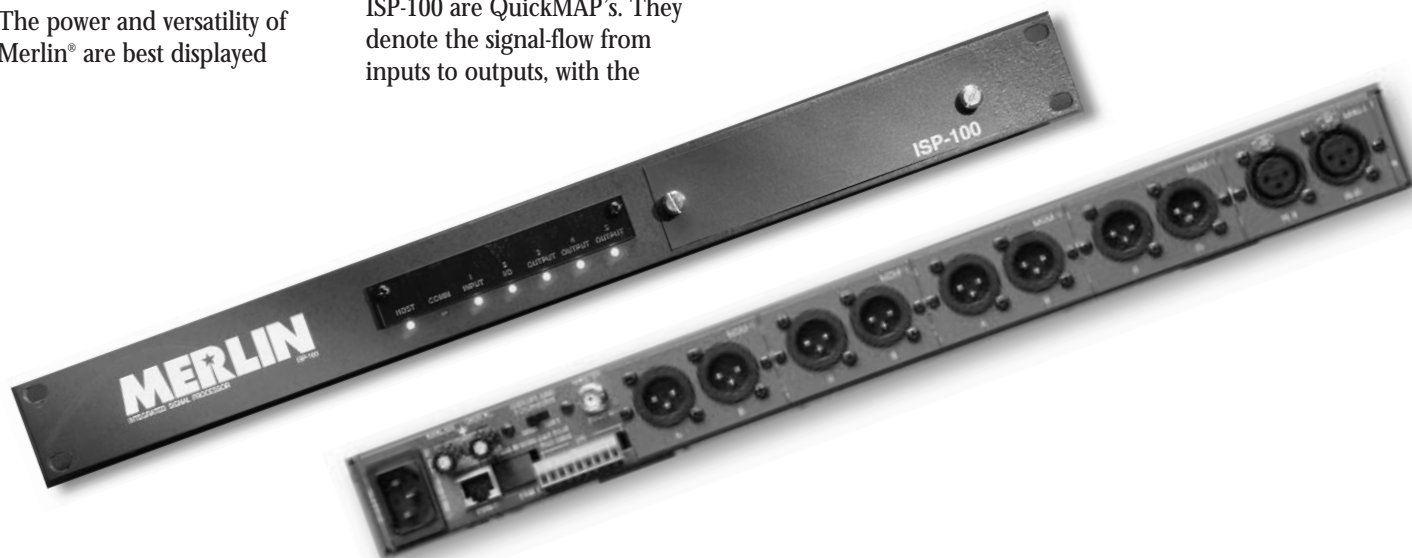
At the heart of Merlin® ISP-100 are QuickMAP's. They denote the signal-flow from inputs to outputs, with the



specific EQ filters, crossover filters, signal delays, combining blocks and limiters included along the way. Each QuickMAP™ is a system configuration that incorporates the system designer's requirements for signal routing and multiway loudspeaker management.

The VUE-IT™ software provided includes many standard QuickMAP's for typical applications. Custom QuickMAP's can be constructed by the factory or the system designer using available QuickBUILD™ software. The two-way/left-center-right QuickMAP's above — designed by Brian Elwell of Acoustic Dimensions, Dallas, Texas — are examples.

Merlin® ISP-100 is supplied with a special applications manual (Special Applications Merlin® ISP-100 and Electro-Voice Xi-Series™ — part #535297) and two special Merlin®/Xi-Series™ QuickMAP's, one for three-way systems plus subs, capable of dipole and tripole configurations, and the other for two-way systems plus subs, featuring the excursion-smart loudspeaker component protection. For a copy of this manual, contact Electro-Voice Customer Service at 616/695-6831 or 800/685-6306.



# Electro-Voice™ Xi-Series Specifications

System:	Xi-1123/106	Xi-2123/106	Xi-1153/64	Xi-1183/64	Xi-2153/64	Xi-2183/64
Frequency Response:	60-20,000 Hz	60-20,000 Hz	48-20,000 Hz	45-20,000 Hz	48-20,000 Hz	45-20,000 Hz
Crossover Frequencies:	250/550 Hz, 1,760 Hz	250/550 Hz, 1,760 Hz	125/540 Hz, 1,760 Hz	125 Hz, 1,760 Hz	125/540 Hz, 1,760 Hz	125 Hz, 1,760 Hz
Power Handling, Long Term:	300/300/75 W, 300/300W	600/300/75 W, 600/300W	600/300/75 W	600/300/75 W	1,200/300/75 W	1,200/300/75 W
Sensitivity (1 W/1 m), Triamp:	98.0/109.0/111.7 dB	101.4/109.0/111.7 dB	91.5/107.0/112.0 dB	93.5/107.0/112.0 dB	96.0/107.0/112.0 dB	98.0/107.0/112.0 dB
Blamp/FR:	101.4/106.7 dB	101.4/106.7 dB	N/A	N/A	N/A	N/A
Nominal Coverage Angle (H x V): 100° x 60°	100° x 60°	60° x 40°	60° x 40°	60° x 40°	60° x 40°	60° x 40°
Dipole/Tripole Configurable (with Merlin® ISP-100):	Yes	Yes	Yes	No	Yes	No
Excursion-Smart Protection (with Merlin® ISP-100):	Yes (biamp mode only)	Yes (biamp mode only)	No	No	No	No
Transducers, LF:	DL-type 12-inch	Two DL-type 12-inch	EVX-155 15-inch	EVX-180B 18-inch	Two EVX-155 15-inch	Two EVX-180B 18-inch
MB:	DL-type 10-inch mid-bass	DL-type 10-inch mid-bass	DL-type 10-inch mid-bass	DL-type 10-inch mid-bass	12-inch mid-bass	12-inch mid-bass
inch mid-bass 12-inch mid-bass						
on 100° x 60° rotatable horn			on 100° x 60° rotatable horn		on mid-bass horn	on mid-bass horn
mid-bass horn on mid-bass horn						on
HF:	DH6-16 (1.4-in. exit)	DH6-16 (1.4-in. exit)	DH6-16 (1.4-in. exit)	DH6-16 (1.4-in. exit)	DH6-16 (1.4-in. exit)	DH6-16 (1.4-in. exit)
rotatable horn on 60° x 40° rotatable horn	on 100° x 60° rotatable horn	on 60° x 40° rotatable horn	on 100° x 60° rotatable horn	on 60° x 40° rotatable horn	on 60° x 40° rotatable horn	on 60° x 40°
Impedance, LF-FR/MB/HF:	12/16/16 ohms	6/16/16 ohms	8/16/16 ohms	8/16/16 ohms	4/16/16 ohms	4/16/16 ohms
Connectors:	Two Neutrik NL8MPR	Two Neutrik NL8MPR	Two Neutrik NL8MPR	Two Neutrik NL8MPR	Two Neutrik NL8MPR	Two Neutrik NL8MPR
Recommended Power Amp (watts @ 8 ohms), LF/MB/HF:	600/600/600 W	600/600/600 W	800/800/600 W	800/800/600 W	800/800/600 W	800/800/600 W
Passive MB/HF or FR:	600	600	N/A	N/A	N/A	N/A
Enclosure Construction:	18 mm, 13-ply birch	18 mm, 13-ply birch	18 mm, 13-ply birch	18 mm, 13-ply birch	18 mm, 13-ply birch	18 mm, 13-ply birch
Enclosure Finish:	Black textured paint	Black textured paint	Black textured paint	Black textured paint	Black textured paint	Black textured paint
Dimensions, Height:	801 mm (31.54 in.)	1,007 mm (39.65 in.)	914 mm (36.00 in.)	914 mm (36.00 in.)	1,233 mm (48.54 in.)	1,233 mm (48.54 in.)
Width, Front:	455 mm (17.92 in.)	455 mm (17.92 in.)	586 mm (23.07 in.)	586 mm (23.07 in.)	586 mm (23.07 in.)	586 mm (23.07 in.)
Width, Back:	317 mm (12.48 in.)	317 mm (12.48 in.)	354 mm (13.93 in.)	354 mm (13.93 in.)	354 mm (13.93 in.)	354 mm (13.93 in.)
Depth:	463 mm (18.24 in.)	463 mm (18.24 in.)	759 mm (29.88 in.)	759 mm (29.88 in.)	759 mm (29.88 in.)	759 mm (29.88 in.)
Net Weight:	56.8 kg (125 lb)	70.3 kg (155 lb)	93.0 kg (205 lb)	93.0 kg (205 lb)	113.4 kg (250 lb)	113.4 kg (250 lb)

System:	Xi-1122/85	Xi-1152/64	Xi-1152/94	Xi-1191/Xi-1191F Sub	Xi-2181/Xi-2181F LF	Xi-1082 Under Balcony	Xi-2122/42 Long Throw
Frequency Response:	60-20,000 Hz	50-20,000 Hz	50-20,000 Hz (to 27 Hz in step-down)	37-160 Hz	37-200 Hz	50-20,000 Hz	125-20,000 Hz
Crossover Frequencies:	1,500 Hz	1,500 Hz	1,500 Hz	125 Hz	125 Hz	3,500 Hz (passive)	125 Hz, 1,760 Hz
Power Handling, Long Term:	300/75 W	600/75 W	600/75 W	600 W	1,200 W	175 W	600/150 W
Sensitivity (1 W/1 m), Triamp:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biamp/FR:	99.0/110.0 dB	98.0/113.0 dB	98.0/112.0 dB	94 dB	98.5 dB	90 dB	109.0/116.0 dB
Nominal Coverage Angle (H x V):	80° x 55°	60° x 40°	90° x 40°	300° x 270°	240° x 300° (long axis horizontal)	90° x 40°	40° x 20°
Dipole/Tripole Configurable (with Merlin® ISP-100):	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excursion-Smart Protection (with Merlin® ISP-100):	Yes	Yes	Yes	Yes (with two-ways)	Yes (with two-ways)	No	No
Transducers, LF:	DL-type 12-inch	EVX-155 15-inch	EVX-155 15-inch	EVX-180B 18-inch	Two EVX-180B 18-inch		8-inch woofer
N/A							
MB:	N/A	N/A	N/A	N/A	N/A	N/A	Two 12-inch mid-bass
HF:	DH6-16 (1.4-in. exit)	DH6-16/2	DH6-16/2	N/A	N/A	N/A	Two ND5-16 (1.4-in. exit)
on 40° x 20° horn	(2.0-in. exit)	(2.0-in. exit) on 60° x 40°	on 80° x 55° horn	(2.0-in. exit) on 90° x 40°	rotatable horn	rotatable horn	90° x 40° horn
Impedance LF-FR/MB/HF:	8/ N/A / 16 ohms	8/ N/A / 16 ohms	8/ N/A / 16 ohms	8/ N/A / N/A ohms	Two @ 8/ N/A / N/A ohms	Two @ 8/ N/A / N/A ohms	8/ N/A / N/A ohms
N/A / 8/8 ohms							
Connectors:	Two Neutrik NL4MPR	Two Neutrik NL4MPR	Two Neutrik NL4MPR	Two Neutrik NL8MPR	Two Neutrik NL8MPR	Barrier Strip	Two Neutrik NL8MPR
Recommended Power Amp (watts @ 8 ohms), LF/MB/HF:	600/ N/A / 600 W	800/ N/A / 600 W	800/ N/A / 600 W	800/ N/A / N/A W	800/ N/A / N/A W	N/A	N/A / 800/600 W
Passive MB/HF or FR:	N/A	N/A	N/A	N/A	N/A	175 W	N/A

"F" suffix indicates flying configuration.



- A. Pro Sound Facts No. 16 part #535214-9822
- B. Special Applications Merlin® ISP-100 and Electro-Voice Xi-Series™ part #535297-9838
- C. Xi-Series™ engineering data sheets
- D. Xi-Series™ Flying Manual part #534993-9825
- E. ArraySHOW™ CD part #535290

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