

Telex Communications, Inc.

# PRO AUDIO GROUP

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ISSUE 3

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Lots of important information to help you navigate the landscape of professional audio products and services worldwide.

## PRODUCT OF THE MONTH : X-LINE™

You wanted it. You asked for it. You got it.

Featuring all the benefits of a classic line array, the EV X-Line™ series is the result of extensive research and design and the expert consultation of industry professionals. The Electro-Voice® X-Line™ is a fully configurable linear sound reinforcement system designed to allow one person rigging while

exhibiting both flat-front long-throw and curved front arc segment (or “J” box) orientations. The EV®

X-Line™ system is comprised of four application specific designs. Each design

represents a “no compromise” approach that recognizes the extreme performance requirements and level independent integrity needed of a wide range for contemporary sound reinforcement applications.

We’ve managed to overcome the limitations and inherent flaws of typical line array systems by separating the high frequency from mids and lows, placing them toward the center where they belong — ultimately enhancing the stereo imaging capabilities of X-Line,

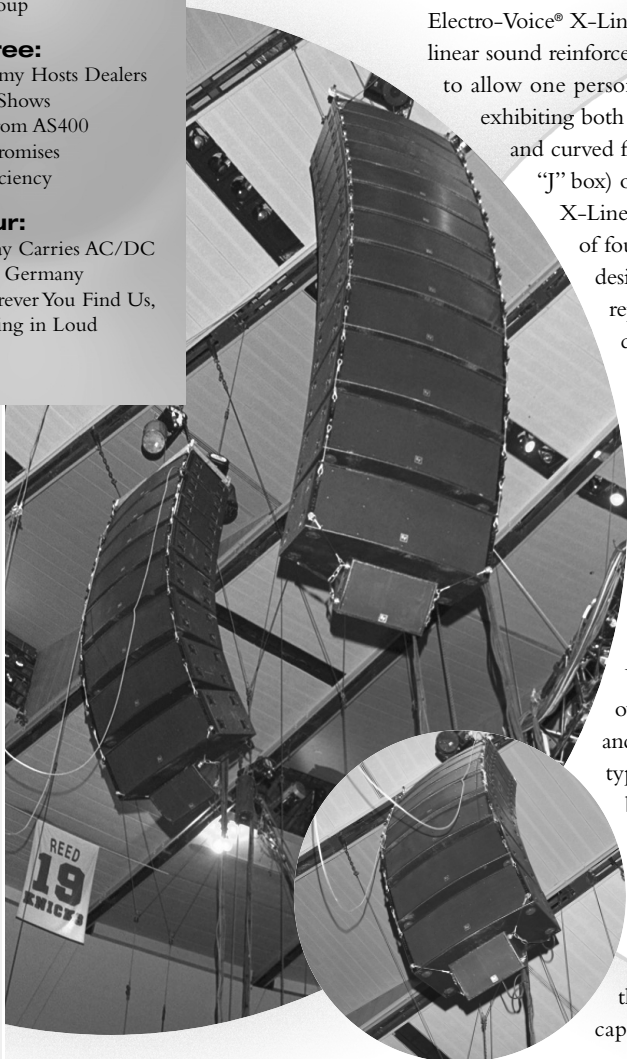
creating a more hi-fi performance at incredibly high level output.

The X-Line system was designed to provide wide horizontal dispersion (90 degrees) from a single line vertical array while providing exceptionally coherent wave front summing in the vertical plane. At the heart of X-Line is a newly developed high-frequency wave front alignment and summation device that provides planar and time coherent signal addition. This unique approach to broad bandwidth vertical planar summing provides uniform sound field distribution throughout the listening area.

Stereo imaging is improved due to the X-line’s full bandwidth mid-bass loading. Extended low-frequency polar control produces more uniform power response, further enhancing the overall system intelligibility. Furthermore, the overall power response of the X-Line is very uniform across a wide frequency spectrum — thus enabling the system’s very musical sound character.

The two primary enclosures are the Xvls and Xvlt. The transducer components and directional specifications are identical. The Xvls is a full rectangular cabinet designed for the upper or very long-throw portions of modern line array systems. The rectangular design has been retained to allow a four box drop onto the X-Line “R” dolly. This configuration allows very rapid venue load-in and load-out because multiple (up to four) Xvls cabinets may be raised or lowered in a single “cell.”

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## PRODUCT OF THE MONTH : X-LINE™

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The cabinet geometry and dolly loading features will also allow individual cabinet aiming by a single individual.

Both the Xvls and Xvlt utilize newly developed components and time synchronized wave guides. All X-Line acoustical and mechanical circuits employ EV's exclusive Ring-Mode Decoupling (RMD®) to produce sonic character that does not degrade with increasing power levels. The application of RMD® technologies to all enclosures and transducer components acts to control, or damp, individual mechanical and acoustical resonant modes found in loudspeaker systems. Aggressive control of these resonant modes yields not only level independent fidelity, but also produces substantially more "upfront" tonal character free from the typical "ringing" or time domain distortions found in most high level sound reinforcement systems.



Rob Varpa



Kent Peterson

Rob Varpa, OEM Sales Manager and Inside Sales Support, Installed Sound, enjoys his job largely because of his daily contact with people in the music/professional audio industry and knowing that EV "is unique in providing and standing behind quality products." Varpa believes EV's excellent reputation is due to the relationship EV has established with other manufacturers. Varpa points to EV's relationship with Federal Signal, a recognized industry leader in the design and manufacture of warning systems installed in nuclear power plants, manufacturing facilities, schools, and government facilities. "In these kind of high-stress situations there is no margin for error. Component quality has to be there, and with Electro-Voice®, ultimately that is what companies find — that we provide the kind of quality they can trust." As a former quality control manager for a major supplier to the auto industry, Varpa is knowledgeable in quality assurance and manufacturing, which ultimately helps him understand the OEM business, specifically quality and supply concerns.

Varpa is versed in all Telex products. Before Varpa moved into the position OEM Sales

X-Line driver configuration is unique, in that the arrangement of each unit allows the combination of mids and lows in a horn-loaded configuration for maintained horizontal control to 250 Hz.

The X-Line system features brand new dual neodymium 8" mids and the newly designed flat-front 15" low frequency drivers that create smooth response for the mids. Another significant feature of the X-Line is the newly designed Hydra™ plane wave generator, which in conjunction with 3 ND-5A compression drivers and HF frequency horns, offers guidance and control and fully equalizes the paths over the entire length of the vertical portion of the device. The audible result is superior summing with a far more uniform and interference limited sound field.

Also premiering with the full range Xvls cabinet is the Xsub, a dual EVX-180B direct radiating sub whose physical footprint and size is identical to that of the Xvls, and is supplied

ready to fly or ground stack. The side-by-side arrangement of the Xsub provides the ultimate in flexibility for either flown systems (side-by-side with full range cabinets) or low-profile ground stack systems.

An auxiliary full-range enclosure, X-fil, is also being introduced with 120 degree nominal, horizontal coverage to be used in conjunction with the flown X-Line full-range for near-field, down-throw applications.

Although line arrays have traditionally come in and out of fashion over the years, we believe that this generation has achieved the performance mark to qualify as an Electro-Voice® touring system.

The X-Line has already been lauded by industry professionals, having recently powered the Diana Ross tour. More big name, national tours will feature the X-Line in the coming year.

We invite you to try it and listen — you will be stunned.

## EMPLOYEE FOCUS: OEM AND TECHNICAL SERVICES GROUP

Manager and Inside Sales Support, Installed Sound, he worked in the position Technical Support Specialist for almost three years.

As OEM Sales Manager and Inside Sales Support, Installed Sound, Varpa believes that his experience as a percussionist and performing musician have helped establish clear lines of communications. "I can empathize," Varpa says, "because when you're onstage everything has to run smoothly, and given my experience as a musician and an Electro-Voice endorser, I can ensure our products do just that — function properly in high-stress situations."

Kent Peterson, Applications Manager, Technical Services, brings 17 years of experience as a professional musician, front of house (FOH) and recording engineer to his position, as well as 3 years extensive RF experience with Telex intercom products. Peterson was instrumental in the development of microphones for Telex, including wireless beta testing for NFL intercoms. Following his involvement with Telex RF, Peterson moved to international technical support, which required extensive travel and customer assistance on all Telex

product brands. "It was my job to distill complex information into language and services our offices in ROW (Rest Of World) could utilize," says Peterson.

As Applications Manager within the Technical Services Group, Peterson provides more than basic product information — the most considerable part of his job is providing application support and sound system design assistance. "I'm here to offer the customer design assistance when the install is being executed," Peterson says. "As needed, I am also available to commission an install." In addition, Peterson also supports marketing communications by providing product demonstrations and managing the technical aspect of trade show logistics.

Among his impressive list of professional accomplishments, Peterson cites his previous successes in providing technical assistance to such areas as Latin America, China, Asia, Australia, Africa, and the Middle East.

As a parting statement, Peterson says, "I look forward to carrying on the tradition of total product support and acoustic excellence that has historically defined EV."

## TELEX ACADEMY HOSTS DEALERS — INFORMATIVE PRO AUDIO SESSIONS A SUCCESS

For the weekend of November 4th and 5th Telex Academy was utilized as the site for EV Pro Audio dealer training. Dealers from around the nation converged on Telex/EV's world headquarters in Minneapolis for two days of training. The training included a complete itinerary of demonstrations, question-answer sessions, and in-depth product presentations. Please see the following schedule:

- Company Overview by Ned Jackson, President and CEO
- Transducer/Electronic Technology/Ring Mode Decoupling (RMD®) by Mike O'Neill, Vice President and General Manager, Loudspeakers Group
- Music Microphones by Gordon Nelson, Eastern Regional Music Product Sales Manager/Live Sound
- Wireless Microphones/Wireless Guitar Systems by Tom Hansen, Vice President, Sales Installed Sound/Pro Audio Group, and Kent Peterson, Applications Manager, Technical Services Group
- Electro-Voice Amplifiers/PSX Mixers by Tom "Sparky" Gillespie, Sales Manager/Installed Sound

- Force, Eliminator, Sx, EVI, and T-Series Loudspeakers Overview and Demo by Monte Wise, National Accounts Sales Manager, and Mike Torlone, Western Regional Sales Manager/Live Sound
- X-Array, Klark Teknik, Midas overview by Steve Gittus, Concert Sound Sales Manager
- Marketing and Merchandising by Chris Robinson, Music Market Development Manager
- Church Sound Seminar by Kent Morris
- Front of House was mixed by Jay Easley (Technical Services Group)

Those who opted to experience Minneapolis nightlife heard EV® X-Array™ in use at a local club Saturday night. All who attended enjoyed the rock 'n' roll of Kurt Neumann of the national recording act, Bo-Deans. Sunday's nightlife took a different twist. Multiple 3-person, indoor go-cart

racing teams completed sixty high-speed laps while competing for trophies. While in-house Electro-Voice competitors were expected to win the race, EV experienced a huge upset as our friends from Sioux City, Iowa were crowned winners.

Pro Audio seminars will be an ongoing event for our dealers. For more information on these training events, look to the Telex Academy schedule for upcoming educational opportunities. Thanks to everyone involved!



**UPCOMING SHOWS:** Nov. 29-30 Government Video Technology Expo 2000 (Intercom Show); Jan. 18-21 Winter NAMM (Anaheim, CA)

## TRANSITION FROM AS400 TO ORACLE PROMISES GREATER EFFICIENCY

As an update, the completed transition from AS400 to Oracle noted in the October *Telex Communications, Inc. Pro Audio Group Newsletter* has been delayed to December 1. To ensure the transition occurs with the least amount of disruption to service, the schedule has been extended to allow for more thorough testing and evaluation. Once completed, the AS400 to Oracle transition will bring all of the order entry/billing/shipping procedures and information that were previously on the EVI/Buchanan AS400 system into the existing Telex Oracle database. Under the Oracle database system, customers can expect to see a single invoice and statement. Further simplifying the ordering and billing process, customers will also have a single group of contacts for receivables and credit. The

transition will also expand the capacity of what is now two completely separate customer service groups — while the two teams will maintain focus on specific groups — they will be better able to provide cross-coverage for incoming phone calls by being on the same computer system, which will ultimately improve customer service.

As an indicator of the complexity of the project, the transition has required the effort and expertise of dozens of people over the past nine months, both contracted help and key personnel within the various user groups. Their dedication, hard work and creativity prove once again how strongly EV believes in its customers.

Along with the database conversion, we are also in the process of purchasing new software to expand the features and programming capacity of the phone system, which will establish more accurate call routing and provide currently unavailable caller options. As a remedy to issues related to inefficient call routing, this new technology will allow callers to hold for a specific hunt group (e.g. customer service, sales, technical support, etc.). We expect to have this technology implemented during the month of January.

Please look forward to a future of consistent and user-friendly ordering, shipment tracking and order confirmation. We will keep you posted as advances are made in the process.

# EV® X-ARRAY™ CARRIES AC/DC TOUR ACROSS GERMANY

AC/DC is a living legend. Unlike rockers who have retreated to comfortable lives in tropical zones or similar hermitage, AC/DC carries on — and their music provides the same untamed energy evident in their earliest recordings. Consistent with their discography all the way back to the 1975 Australian release of *High Voltage*, the album *Stiff Upper Lip* has become a worldwide success.

While the race for tickets began July 1st, the band only recently commenced the German leg of the tour in October. Nevertheless, the fire spread quickly, and AC/DC proved that even after 25 years they are still capable of filling huge concert halls with their straight forward, no-holds-barred rock 'n' roll. Tickets for the Munich Olympiahalle and the Cologne-Arena sold quickly. Evidenced by the throngs of devotees cheering to AC/DC classics, fans are as enthusiastic as they have ever been.

From the very first performances of this Australian phenomenon in the early- to mid-'70s, the guitar-riffs of Angus and Malcolm Young have been responsible for the characteristic, unmistakable AC/DC guitar

sound, while the propulsive rhythm parts of drummer Phil Rudd and bass guitarist Cliff Williams create the necessary foundation for this rock 'n' roll machine. And Brian Johnson's caustic, throaty voice is the perfect vehicle for lyrics that divulge the hard-earned wisdom of life on the road, the essentials of any AC/DC classic. When together (whether onstage or off), these five musicians exude pure energy.

The success of the tour is not only due to AC/DC's resilience and awesome performances; the impressive and powerful sound characteristic of these concerts ensured that the crowd's mood was at a high, right from the beginning.

The U.S. company "db Sound" was responsible for the sound equipment. Live Sound Engineer extraordinaire, Paul "Pablo" Boothroyd, favored EV (Electro-Voice) X-Array and MIDAS consoles for the FOH. Equipment utilized include the following:

#### House Console:

1 x MIDAS XL 4

#### Control Units:

1 x EV X-Array Control Rack

#### FOH Speaker Cabinets:

24 x EV Xf X-Array Speaker Enclosure  
12 x EV Xn X-Array Speaker Enclosure  
24 x EV Xb X-Array Speaker Enclosure  
12 x EV Xds X-Array Speaker Enclosure  
6 x EV Xcn X-Array Speaker Enclosure  
6 x EV Xcb X-Array Speaker Enclosure

#### 12 x 2-pack with:

12 x XTA DP226 Digital Processor  
48 x EV P3000 Power Amplifier

#### Monitor Consoles:

1 x MIDAS Heritage 3000

#### Monitor System EQ Insert Rack:

1 x KLARK TEKNIK DN3600 Equalizer

Electro-Voice® is a professional audio brand of Telex Communications, Inc., a leader in the design, manufacture and marketing of sophisticated audio, wireless, multimedia, broadcast and communications equipment for commercial, professional and industrial customers. Telex Communications markets its products in more than 80 countries under the brands EV®, Telex®, RTS™, Dynacord®, Midas®, Klark Teknik®, University Sound® and others.

For more information, call 1-800-392-3497, or visit [www.electrovoice.com](http://www.electrovoice.com).

## OEM: WHEREVER YOU FIND US, WE'RE COMING IN LOUD AND CLEAR

*How good is your reputation?*

No matter how much time is spent in research and development, marketing, advertising and sales, ultimately your reputation depends on the quality of the individual components used in your products. That is why it is imperative you choose a partner who understands OEM to the extent of EV.

It is no coincidence that the most preeminent audio manufacturers in the world have chosen

EV (Electro-Voice) as their OEM partner. Why? EV recognizes and affirms what it takes to be an industry leader by expeditiously delivering the components you need.

Our history speaks for itself. Nearly 80 years of research and design have resulted in the development of over 100 patents in the world of professional audio. Whether our products are being used in Europe, South America, Africa, Asia, Australia, or right here in the U.S.A., the response is always the

same: EV means *quality, innovation, performance, versatility and value.*

Our quality assurance and commitment to excellence is second to none. And every manufacturer that uses our products taps into this heritage — thus, through the use of EV products — our reputation becomes yours.

For a complete listing of products available, or to voice questions and comments, please call us at 1-800-392-3497.

**USA** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-884-4051, FAX: 952-884-0043  
**Canada** 705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588  
**Switzerland** Keltenstrasse 11, CH-2563 IPSACH, Switzerland, Phone: 41/32-331-6833, FAX: 41/32-331-1221  
**Germany** Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 0, Fax: 49 9421-706 287  
**France** Parc de Courcerin, Allee Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538  
**Australia** Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-3455, FAX: 61/2-9648-5588  
**Hong Kong** Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329  
**Japan** 2-5-60 Izumi, Suginami-ku, Tokyo, Japan 168, Phone: 81-3-3325-7900, FAX: 81-3-3325-7789  
**Singapore** 3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206  
**Mexico** Av. Parque Chapultepec #66-201, Col. El. Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588  
**UK** 4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: 44 181 640 9600, FAX: 44 181 646 7084  
**Africa, Mid-East** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7424, FAX: 952-887-9212  
**Latin America** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7491, FAX: 952-887-9212

**U.S.A. and Canada only.**

**For customer orders, contact the Customer Service department at 800/392-3497 Fax: 800/955-6831**

**For warranty repair or service information, contact the Service Repair department at 800/685-2606**

**For technical assistance, contact Technical Support at 800/392-3497**

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