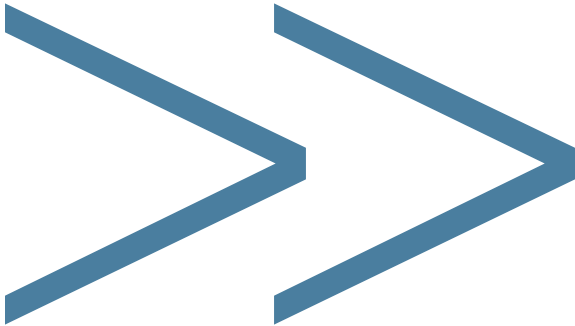


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# Electro-Voice®





# Electro-Voice®: Eight Decades of Excellence



**This year Electro-Voice® celebrates 80 years of making the world sound better!**

Stronger than ever as we complete our first year under Bosch ownership as part of the Bosch Communications Systems family of brands, EV is focused on an exciting future, building upon our unique legacy as a pro audio pioneer.

From 1927, when company founders Al Kahn and Lou Burroughs began servicing radio receivers in the basement of Century Tire and Rubber in South Bend, Indiana, EV has held its own as an audio innovator. Though we're always looking—and listening—forward to our next achievement, this year we're proud to look back over eight decades in which we consistently set new industry standards for sonic excellence and reliability in loudspeaker, microphone and audio electronics design and manufacturing. EV raised the bar with breakthrough technologies, designs and products like Variable-D® directional microphones, the hum-bucking coil for microphones, home high-fidelity loudspeaker components, constant-directivity high-frequency horns, noise-canceling microphones, pro-sound loudspeakers with Ring-Mode Decoupling (RMD™) and Manifold Technology® for concert-sound loudspeaker systems with very high output ability yet relatively compact size. From day one, EV has been all about helping our customers be heard with the best sound possible...



1927

Radio Engineers partnership founded by Al Kahn and Lou Burroughs to service radio receivers, located in the basement of the Century Tire and Rubber Company in South Bend, Indiana. The original investment was \$30 and a second-hand car.

1930

Designs a PA system to assist legendary Notre Dame football coach Knute Rockne on the practice field. Rockne refers to the new system as his "electric voice," inspiring the company name.

Electro-Voice incorporates. From Kahn in 1953: "The first block in this new business was the poor quality and high prices of available microphones. Sensing an opportunity, we purchased a lathe and drill press and began making them at the rate of one a week..."

1934

Invents the first hum-bucking coil, a small coil adjacent to the voice coil of a dynamic microphone that cancels the 60-Hz hum produced by ac magnetic fields in the presence of the microphone. Hum-bucking coils are still used in microphones for noise-critical applications.

1942

Noise-canceling microphone production required by the military dramatically increases production at EV. Total production reaches close to 1 million microphones annually.

1946

Burroughs is awarded a special citation from the War Department for the design and development of the T-45 noise-canceling lip microphone.

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Moves to Buchanan, Michigan, consolidating engineering, sales and manufacturing in one place and setting the stage for entry into a number of consumer audio markets. EV Buchanan quickly became a highly integrated manufacturer, with in-house tool making, die casting, plating, painting, coil winding and more.

1949

Announced home high-fidelity component loudspeakers and soon became the major loudspeaker manufacturer in the burgeoning "hi-fi" industry of the 1950's.

1953

Introduces the 848 Compound Diffraction Projector (CDP), a two-way public-address loudspeaker with much more high-frequency output than typical in the day. Versions of this loudspeaker are still being manufactured.

1954

Introduces the 664 Variable-D® directional microphone. Variable-D greatly reduced the up-close bass boost, or proximity effect, common to directional microphones, increasing voice intelligibility for everyday PA applications and quickly becoming a North American standard.

1958

Designed and marketed the first mass-market stereo phonograph cartridge, the model 26.

1959

The 30W 30-inch woofer is introduced by EV and used in the world-famous Patrician series of home high-fidelity loudspeaker systems.

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For 80 years we've been leaders in the industry we helped create...



With that in mind, we helped provide the soundtrack to some of the Twentieth Century's most significant events, from John Glenn's first orbit of the Earth to Pope John Paul II's first visit to the United States; from Dr. Martin Luther King Jr.'s "I Have a Dream" speech to the inauguration of President John F. Kennedy. And, of course, EV products helped propel some of the world's foremost musicians to stardom, including the Beatles and Elvis Presley. In 1963, the company even received an Academy Award for the development of the 642 ultra-directional shotgun microphone that permitted clear dialogue pickup at a distance, out of camera range.

In the 21st Century, EV is everywhere; on the world's biggest tours, in the world's finest installations. It doesn't get any bigger than the Olympic Games, the FIFA World Cup soccer tournament, LIVE 8, Live Earth, Kenny Chesney and the Rolling Stones... and the list goes on. For 80 years we've been leaders in the industry we helped create...

and we're just getting started.



1962

An EV microphone accompanies John Glenn on his first orbit of the Earth.

1963

Receives an Academy Award for the development of the 642 ultra-directional shotgun microphone that permitted clear dialogue pickup at a distance, out of camera range.

1965

The 635A omnidirectional dynamic microphone introduced a new, slim shape for easier handheld use. The 635A quickly became the most popular newsgathering microphone in North America and is still manufactured today.

1969

EV introduces the fully horn-loaded Eliminator™ 1 and 2 loudspeaker systems for the emerging rock 'n' roll PA market, in both manufactured and construction-plan versions. Multiple low-frequency sections became popular with bass guitarists.

1970

The RE20 microphone is introduced and quickly becomes an industry standard. Originally conceived by Lou Burroughs as a "condenser killer" for film-sound and recording-studio applications, the RE20 found a dual role as a preeminent microphone for broadcast and music applications.

1975

EV introduces the HR series of "constant directivity" (CD) horns and is the first to publish full sets of 1/3-octave polar responses for their horns. HR horns were the first CD horns in the industry, with coverage angles stable over a wide frequency range.



1985

EV designs EasyVAMP™ (Very Accurate Mapping Program), a high-accuracy graphical technique for placing and aiming high-frequency horns for even coverage of a venue. It was some years later that the precursors of today's computer modeling techniques were introduced.

1986

EV develops Manifold Technology® and begins production of the MT-4 four-way, high-output concert system used on some of the largest tours of the decade (AC/DC, Metallica, Guns 'n' Roses, and Bon Jovi).

EV develops and is the first to market N/DYM® dynamic microphones with a neodymium magnetic structure, providing 6 dB higher output and wider frequency response than conventional performer microphones.

1988

EV launches DeltaMax™—a series of compact, electronically controlled loudspeaker systems. Their dedicated analog loudspeaker processors anticipated the creation of DSP's such as the EV Dx34 and Dx38.

1993

MH series stadium horns are debuted, which combine constant directivity and Manifold Technology®. Quickly become the standard in the largest U.S. stadiums.

1994

The Sx200 is introduced, setting a new standard for light weight and performance.





# EV80: Hear Us Now!



This has been a big year for us, full of dynamic, positive changes. Telex Communications (Electro-Voice, Dynacord, Midas, Klark Teknik, RTS, Telex) was acquired by Bosch in September 2006 and Bosch Communications Systems—a business unit of Bosch Security Systems—was born at the beginning of 2007.

As a brand of Bosch Communications Systems, EV has access to boundless resources. Bosch is a globally recognized leader of technology with whom we share a business philosophy based upon engineering excellence, quality without compromise, brand integrity and long-term growth. Bosch's wealth of resources and expertise brings almost limitless potential to the world of EV R&D. The synergies are countless.

Though we remain front and center in the pro audio markets, EV is now part of a family of brands uniquely positioned to meet the growing demand for complete, integrated sound and security systems from a single vendor. Products like NetMax™ and the software suite IRIS-Net™ offer unprecedented digital flexibility and control as multiple systems (audio, video, intrusion alarm, life safety, etc.) converge via single control platforms.



**1997**

Ring-Mode Decoupling (RMD™) is first used on the X-Array™ high-performance, high-output concert loudspeaker systems.

The Sx300 sells over 500,000 units and becomes the world's best selling 12" two-way loudspeaker.

**1998**

EV introduces ArraySHOW™ software, which shows the interference nulls and lobes of multiple loudspeakers and helps to minimize them.

**2000**

EV introduces the X-Line™ large-format line-array concert loudspeaker module (used by artists such as the Rolling Stones, Rod Stewart, Kenny Chesney, B.B. King, Buddy Guy, Tool, etc.)

EV introduces ClearScan™ technology to the world of wireless microphones, automatically scanning numerous channels in a venue for highest quality.

**2002**

EV introduces XLC™, a full-bandwidth compact-format line-array loudspeaker system and IRIS-Net™ first used with EV Precision Series power amplifiers.

Electro-Voice celebrates 75th anniversary; releases special edition 75th anniversary RE20 dynamic microphone.

**2004**

Electro-Voice® equipment is used in 18 of 22 venues for Summer Olympics in Athens, Greece.

Electro-Voice® launches new DVX cone driver technology; first used in Zx5 loudspeakers.

**2005**

All-EV sound for the three-week Houston Livestock Show & Rodeo at Reliant Stadium, Houston, the world's largest live concert event series.

Electro-Voice® systems heard around the world at LIVE8 events.

World's largest touring X-Line array system—controlled with NetMax / IRIS-Net—hits stadiums with Kenny Chesney's record breaking summer tour.

**2006**

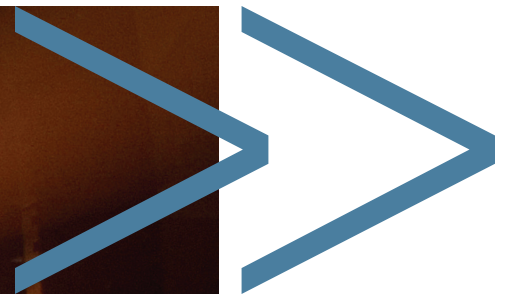
Electro-Voice® becomes part of Bosch Communications Systems when Telex Communications is purchased in September.

Electro-Voice® launches XLC DVX loudspeakers.

**2007**

Electro-Voice® appears front and center at world's largest global concert in history: Live Earth.





Groundbreaking products like our state-of-the-art DVX woofers and Tour Grade amplifiers offer an unmatched combination of power, sonic performance, light weight and reliability, demonstrating our continued commitment to excellence at every step of the signal chain, for every sound reinforcement application. Our latest and greatest products speak for themselves about EV's bright future under Bosch leadership...

And EV continues to stand ground for steady growth. Bosch has already demonstrated considerable financial commitment to our brands, literally making concrete the common goals that brought us together. Multi-million dollar investments at EV factories in the U.S. and Germany have set new industry standards for pro audio manufacturing while streamlining our global supply chain and improving quality. All the Bosch Communications Systems brands will remain secure in name, location and quality; Electro-Voice is – and will always be – Electro-Voice, a great American brand!

It's a great time to be part of the Bosch Communications Systems family, poised for pole position in every pro audio market, with you, the customer, as co-driver. The last 80 years have been unforgettable for EV... but you should **Hear Us Now!**





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