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From: Jeff Morton, Project Engineer, Music Loudspeakers *JM*

Date: January 25, 1999

Subject: Sx500+

### **Sx500+: 400-watt two-way high-power speaker system**

Electro-Voice is happy to announce the new Sx500+ loudspeaker, which replaces the Sx500 in the music loudspeaker line. The Sx500+ is an upgrade to the Sx500 that does not come with an upgraded price. The Sx500+ uses the bigger and better DH2t compression driver, with no increase to the price of the system. The improved performance includes higher power handling for the high-frequency driver in bi-amp mode, improved system reliability, lower distortion between 1,000 Hz and 8,000 Hz, and, last but not least, an even better sounding system. The speaker has a smoother response in the crossover region and better high-end response for a great sounding system.

The Sx500+ replaces the DH3 high-frequency driver found in the Sx500 with Electro-Voice's DH2t driver. The DH2t has a 2.0" voice coil where the DH3 has a 1.25" voice coil. This change gives the new system all of its advantages.

The power handling for the high-frequency section increases to 60 watts from 25 watts. This improved power handling directly relates to the improved system reliability because the system can handle higher peaks in its high frequency range than the Sx500. When used in bi-amp mode, the high-frequency section can handle 35 watts more than the Sx500 high-frequency section. And when used in full-range (passive) mode, the high-frequency section just handles more power without failure by withstanding higher power peaks.

The larger voice coil gives the Sx500+ system lower distortion between 1,000 Hz and 8,000 Hz when compared to the Sx500. The Sx500+ distortion is more than 6 dB lower for the second harmonics and more than 10 dB lower for the third harmonics than the Sx500. This improvement translates into a better sounding speaker in the most demanding environments.

The Sx500+ combines the DL15Sx woofer and the DH2t high-frequency driver to create a speaker that sounds even better than the great sounding Sx500. The Sx500+ has an even smoother crossover response, and the high-frequency response sounds even better. This is a great addition to the Electro-Voice Music Loudspeaker line.

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