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NEWS RELEASE

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SECOND U.S. PATENT FOR JBL SCREENARRAY® CINEMA TECHNOLOGY

NORTHRIDGE, CA – September 30, 2003 – JBL Professional has now been granted two U.S. Patents on its ScreenArray® cinema loudspeaker technology. The ScreenArray high frequency horn features patented Screen Spreading Compensation™ that corrects for high frequency dispersion through perforated screens. The patented technology also provides an asymmetrical coverage pattern for uniform auditorium coverage.

An additional patent covers the integration of the horn technology into a complete three-way full-range loudspeaker system. The mid-range element of the system utilizes a vertical array of multiple cone drivers on individual horn throat entries feeding a common waveguide, with signal processing provided by an electrical filter network for the individual cone transducers to create a constant vertical polar response pattern, independent of frequency. The low-frequency section is a vented-port direct-radiating module.

The integration of the three sections provides seamless uniform angular coverage throughout the cinema auditorium across the frequency spectrum. Additionally, the waveguides in the high-frequency and mid-range modules are specially shaped and directed downwardly to more easily cover the audience seating area. Tilting mechanism is provided for additional adjustment of the speaker elements relative to the screen, and the overall design has a depth of less than 18 inches.

In March 2002, the Academy of Motion Picture Arts and Sciences (A.M.P.A.S.®) presented JBL Engineers with a Technical Achievement



**ScreenArray 4632 Three-Way
Cinema Loudspeaker System**

Award “for the engineering and design of filtered line arrays and screen spreading compensation as applied to motion picture loudspeaker systems,” as employed in JBL ScreenArray loudspeaker systems.

The complete line of ScreenArray speakers includes seven models to meet every performance requirement, providing smooth and accurate reproduction of cinema soundtracks. The THX®-approved three-way ScreenArray systems are designed for maximum output, optimal coverage and minimum distortion. The two-way ScreenArray systems also feature the patented horn technology in a compact design for lower cost installations.

Headquartered in Northridge, California, JBL Professional is the world’s leading designer, manufacturer, and marketer of professional loudspeakers for recording and broadcast, musician, cinema, touring sound, commercial sound and contracting applications. JBL Professional is part of the Harman International network of professional and consumer audio companies. For complete product and company information, go to the JBL Pro website at www.jblpro.com.

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