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Distributors of  
MERIDIAN High Fidelity Audio Products

Design Council Award Winner 1982  
FBA Award Winner 1984  
Japan HiFi Grand Prix Winners 1986  
British Design Award 1988

## **MERIDIAN AMERICA**

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### **MERIDIAN ANNOUNCES ITS FIRST ACTIVE SUBWOOFER**

**SCES, Chicago, IL, June 2, 1990--** Meridian today announced its first-ever subwoofer system, the M200 Active Subwoofer. This new product brings Meridian's advanced electronic and acoustic design to this increasingly popular audio category. The result is a high performance, self-contained and compact system which extends total system bass response to the lower limits of audibility.

The M200 employs a dual-woofer, coupled-cavity design that has three chambers within the enclosure. Two high-power 8" woofers are rear-loaded by two of the chambers, which are sealed enclosures. The two woofers drive a common, ported output chamber. This design offers the superior transient response of sealed enclosures with the efficiency of ported designs, without their respective liabilities. The end result is a system with very deep bass reach, high power-handling, low distortion and exceptional efficiency.

The electronics package for the M200 system is mounted in the rear of the enclosure and contains the electronic crossovers required by the system plus a 175 Watt power amplifier for the two woofers. The inputs to the system can come either from low-level sources such as preamplifiers or from high-level sources such as power amplifiers, with appropriate internal level matching. The high level inputs are balanced, which means that power amplifiers can be connected to the M200 without fear of inadvertent grounding of the amplifier. The two positive and negative, balanced low-level inputs each also can be used for unbalanced (normal phono-plug type) connections, which permits matching the M200's phase to that of the satellite amplifier/speaker combination used.

While an optimum system would be a pair of M200s and a pair of satellites, the inputs include the provision for internally mixing the left and right channels in the M200, allowing a single M200 to be used with a pair of satellites. Multiple M200s may be used in a single system to increase acoustic power output, and the input mixing provision allows a third (or 5th, etc.) M200 to be used in addition the pair (or 4, etc.) used in the Left and Right

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channels. A subwoofer level control provides for precise subwoofer/satellite level matching, regardless of the system configuration.

The high quality active crossover circuits provide high-pass outputs for driving the satellite amplifier(s) or active speakers such as those made by Meridian. The fixed subwoofer-to-satellite crossover point of 150Hz provides freedom from low-frequency localization, and results in an optimally reduced burden of LF reproduction for the satellite speakers. This results in much higher output capability for the satellite speakers, which often are smaller speakers having restricted low-frequency excursion and power handling abilities.

The M200's enclosure is made from high-density MDF particle board, with extensive internal bracing and damping to suppress resonances. The cabinet is finished in black ash veneer, and it has a black plate-glass top. The M200's compact dimensions of approximately 11" W x 27" H x 17" D allow it to be conveniently placed nearly anywhere in a room, and it also serves as an excellent stand for a compact satellite speaker.

Given its compact dimensions, the performance of the M200 is all the more impressive, with a typical in-room frequency response from 18Hz to 150Hz. The M200 is designed to provide accurate bass for all systems, including those with overall peak output capabilities to above 110dB SPL.

The Suggested Retail Price of the M200 has not been determined. Price and availability will be announced as soon after CES as possible.

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