

Audyssey

MultEQ

MultEQ™ Multiple Listener Audio System Calibration

by

Audyssey Laboratories

MultEQ, the patent pending technology from Audyssey Laboratories, automatically eliminates frequency response distortions inherent in every acoustical environment. From home audio to car audio and home theater-in-a-box (HTiB) products to professional sound systems, MultEQ delivers the highest quality audio in the most demanding environments.

Based primarily on pattern recognition and the human hearing system, MultEQ successfully corrects "Room Acoustic Distortion" or "RAD". With MultEQ the entire audio system is automatically calibrated to ensure not only that the primary listener is delivered the highest quality audio, but simultaneously everyone in the room. Listening to movies and other multichannel audio is a group experience, and MultEQ is the first audio technology to successfully address and correct multiple listener problems for this situation.

Key Features

- Corrects for "Room Acoustic Distortion" (RAD)
- Utilizes patent pending "Acoustical Correction Technology" (A.C.T.)
- Augments existing audio processing
- Automatically adjusts output delays and levels for correct arrival times and loudness
- Automatically configures bass management
- Quick and easy setup taking about 1 minute per position (MultEQ only)
- Reasonable MIPS requirements of less than 12-13 MIPS per channel

Applications

- AV Receivers
- Home Theater-in-a-Box (HTiB)
- Mini/Micro Systems
- Automotive Receivers



Acoustical distortions are heard throughout the room



The distortions at multiple listening positions are corrected with Audyssey MultEQ

MultEQ™ For The Best Audio Everywhere

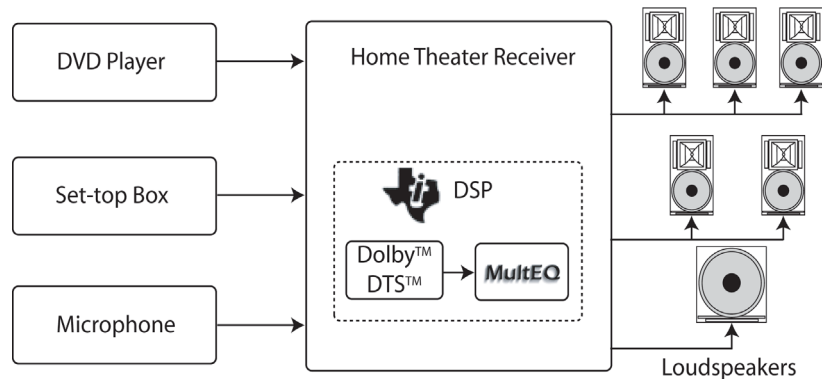
Sound produced by even the highest quality loudspeakers is distorted by room acoustics. In addition, most audio systems are not properly setup or do not have the ability to accommodate multiple listeners. Current methods focus on only one listener or use simple spatial averaging across multiple positions. MultEQ's "Acoustical Correction Technology" (A.C.T.) optimizes sound system performance for all listeners in a room thus negating the audio sweet spot. MultEQ is also system independent, which means it can be incorporated into any amplifier/speaker combination with dramatic results.

Simple Integration

Audyssey Laboratories currently offers two MultEQ software plug-in modules:

MultEQ™ and MultEQ LE™

Both MultEQ versions are easily integrated into the audio processing chain and are currently available for Texas Instruments TMS320DA61x DSP devices. MultEQ requires the integration of a microphone into the system with a user interface. This allows consumers the ability to easily and automatically fine tune component systems. MultEQ LE is the best choice for integrated systems where the loudspeakers and electronics are known, such as HTiB systems. MultEQ LE requires no setup procedure. Both versions require less than 5.5% (per channel) of the DA610 225 MHz processor, utilizing 12-13 MIPS.



For additional technical and licensing information regarding MultEQ and MultEQ LE please contact Audyssey Laboratories at 310-268-8095 or e-mail Audyssey Laboratories at sales@audysseylabs.com or visit our web site at www.audysseylabs.com.

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