

AUDYSSEY



## Set the volume you want. Audyssey Dynamic Volume keeps it there.

*Hands Free Listening* is finally here, eliminating the annoyance of constantly changing the volume on the remote control.

### **As a Result**

Dialogue is more intelligible. Loud passages maintain impact. Soft whispers are clearly heard. The sophisticated technology behind the scenes mimics what you would do with the volume control, but it is one step ahead adjusting the volume without you noticing that it's happening. And when the volume level changes, Audyssey Dynamic EQ, an integral part of Dynamic Volume, makes sure that the frequency response and surround envelopment are adjusted to be consistent at all volume levels.

### **Another Audyssey First**

From the same research team and company that developed the ground-breaking room correction technology MultEQ, comes Audyssey Dynamic Volume. Audyssey solved this decades-old problem by taking a fresh and unique approach. A multi-year research study was conducted that tracked the actions of typical listeners and professional mixers over thousands of hours in different environments. A multi-terabyte database of listener volume-changing behavior was compiled. From this research, a model was developed to reverse engineer this behavior, freeing listeners from their remote controls. Dynamic Volume offers dramatic improvement in the way people enjoy movies and television in their homes.

### **About Dynamic Volume™**

The listening experience is greatly diminished when there are significant shifts in volume between television programs, commercials, and within program material. The user must constantly adjust the volume to maintain the desired listening level so dialog is clear and sound effects and commercials are not overwhelming.

Audyssey Dynamic Volume monitors the volume of program material moment-by-moment, maintaining the desired listening level for all content while optimizing the dynamic range to preserve the impact. With this innovative technology, the user no longer has to constantly reach for their remote control volume button.

## Background

There are two main causes of differing volume levels within broadcast, commercials, and DVD content:

- *Lack of volume standards among broadcast, content and equipment companies.*
- *Poor translation of content produced on systems with wide dynamic range and reproduced on systems with limited dynamic range such as TVs, HTiBs, and home theater systems not playing at full reference volume.*

Attempts at solving this problem have been largely ineffective for several reasons:

- *Most are designed to only look at the signal levels and not the perceived loudness*
- *Those that look at loudness do not make use of the correct psychoacoustic models*
- *They have no knowledge of the actual sound pressure level in the room*
- *They typically look at only a small number of frequency bands*
- *They perform simplistic dynamic range compression methods with fixed time constants*

As a result, these attempts at leveling volume produce plainly audible artifacts, such as sudden increases and drops in level, that detract even further from the listening experience.

## Conclusion

Audyssey Laboratories was founded on the principle of producing the best possible translation of music, movies and television programs for the home. Its flagship technology, Audyssey MultEQ®, measures and removes the distortion caused by room acoustics. Audyssey Dynamic EQ™ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Bass XT delivers deeper bass response from smaller subwoofers by actively monitoring the incoming signal and pushing subwoofer excursion to maximum levels at all volume settings. And now, Audyssey Dynamic Volume delivers consistent volume playback levels, anticipating sudden spikes and dips in volume and compensating for them in real time. This newest technology frees listeners from having to constantly reach for the remote control when watching TV or DVD movies.

### Dynamic Volume Off | Dynamic Volume On

