



About QSurround[®] 5.1

QSurround[®]5.1 also known as QMSS[™] (QSound Multi-Speaker System) is QSound Labs' stereo-to-surround synthesis algorithm. QSurround 5.1 creates a stunning surround effect with distinctly different outputs for 4 or 5 full-range speakers from ordinary stereo program content.

Although multi-speaker surround systems are increasingly common in the home, the relatively small amount of multi-channel content available today often means the consumer ends up listening to plain stereo instead of taking full advantage of their hardware. To maximize the consumer's enjoyment of surround sound systems, QSound developed the Surround 5.1 stereo-to-surround synthesis algorithm.

By using the inherent left/right pan information in a stereo signal to "steer" image components to multiple speakers, QSurround 5.1 creates stunning surround effects with distinctly different outputs for 4 or 5 full-range speakers, and also derives a discrete subwoofer channel. QSurround 5.1 can even create a remarkable synthesized stereo image from monophonic content.

Unlike other approaches, which merely copy the stereo signal in the rear channels, or use budget reverberation in the rear to provide some contrast with the front, QSurround 5.1 generates a unique signal for each channel, rendering distinct and dramatic positioning. As a result, the original stereo image is effectively wrapped around the listener, without sacrificing clarity or detail.

Implementation Platforms

- Portable DSP algorithm
- Host PC algorithm
- QS7785 Analog IC
- STMicroelectronics
- Texas Instruments
- Zoran

QSurround[®] 5.1 Applications



Contact Us

QSound Labs, Inc.

400 - 3115 - 12th Street NE
Calgary Alberta Canada T2E 7J2

Tel: +1-403-291-2492

Fax: +1-403-250-1521

Email: info@qsound.com

Visit our website for a complete list of regional sales representatives in your area.

www.qsound.com



The QSurround 5.1 Competitive Edge

- Unmatched surround expansion of the stereo image
- High quality distinct outputs generated for each speaker without smeared sonic imaging
- Efficient resource utilization with small software footprint
- Patented technology