



## Listening just got a new meaning

OZO Playback brings an ultimate listening experience for mobile devices. Its adaptive stereo widening technology will surround the listener with sound when any type of audio content is played back through the device's stereo speakers. The stereo widening enhances the listening experience in music, videos and games. It expands the stereo image in such a way that it appears to surround the listener in a much wider angle than the space between the physical locations of the device speakers, while keeping the vocals and the dialogue clear.

### Benefits

#### Makes the device sound big

The stereo widening enhancement offers the best quality for listening to any stereo audio content with the integrated stereo speakers on the device.

#### Get immersed with audio

After being surrounded by the rich audio playback, playing games or watching movies will never be the same anymore.

#### Optimized for all types of content

Different processing modes can be tuned, for example for music and movie consumption.

#### Complements OZO Audio capture solution

Content captured with OZO Audio-processed soundtracks sound even better with loudspeaker playback.

#### Tuned for optimal quality

The enhancement is carefully tuned for each product for reproducing the details of the stereo mixing and the sound spectrum of the playback content.

#### Loud and clear

Bass enhancement and dynamic range control maximizes the loudness of the playback, enabling the best possible performance also in noisy conditions.

**Features and formats**

**Product integration and support**

Stereo widening can be tuned flexibly to both symmetric and asymmetric speaker positioning

- Symmetric speakers enable optimal stereo quality
- Asymmetric speakers can be tuned to overcome the limitations set by the differences between the speakers and their positioning (for example, using of front-firing earpiece speaker and side-firing bottom speaker)

Android (ARM) audio processing SW library implementation with API specification and documentation for easy integration

Integration documentation, example code about the library API usage

Guidelines for optimal speaker selection and integration

ISO 9001 certified quality-management system

Audio quality assurance support

**Stereo widening**

Audio input

PCM stereo/2-channel audio, floating point format, 44.1 and 48 kHz

Processing

High-quality audio processing, optimized for preserving the stereo quality, spectrum, and loudness during the playback via the device speakers

Runs on ARM application processor

Support for multiple listening modes

Output

PCM stereo/2-channel audio, floating point format, 44.1 and 48 kHz

High-quality playback taking the best out of the stereo speakers on the device

Individual tuning optimized for each device characteristics