OZO Audio is an advanced spatial audio technology with 3D capture and playback capabilities.

Advanced psychoacoustic technology allows sound to be captured and played back just like it would in real life, transporting you and amplifying your experiences in every direction. Audio Focus mode lets you accentuate the right sounds you need while reducing ambient sounds or background noise. OZO Audio is adaptable to virtually any form factor. Whether it’s a smartphone or a camera, OZO Audio is the ideal solution for manufacturers looking to entice new customers with world-class immersive 3D audio. OZO Audio capture technology delivers on immersiveness—which means your device will be 100% ready for the kinds of experiences consumers are craving.

**Quality**
- Best spatial audio capture quality with device integrated microphones
- Full 3D audio capture
- Scalable solution for various product and microphone configurations

**Efficient OZO Audio distribution format**
Selectable playback mode (binaural, 5.1 etc) in playback device

**Universal format compatibility**
Stereo playback in all devices without additional audio tracks

**Headphone playback (binaural) with headtracking**
Most Immersive VR audio experience

**Loudspeaker playback**
Multichannel loudspeaker output for home theatre use

**Content sharing**
Compatible with leading social media VR experiences

**OZO Audio Focus Capture**
Emphasize desired sound sources, and attenuate noise and ambient sounds

**Audio Enhancement tools**
Audio quality optimization in all usage conditions

**Integration optimization**
Optimized implementation for mobile and consumer electronic devices

**Integration support**
Proven reference implementation provided for prominent HW platforms
FEATURES AND FORMATS

Product integration
Flexible microphone positioning in product mechanics – easy adaptation for different microphone setups.
Technology scales up for different needs with number of microphones:
- 2 Spatial capture
- 3 360 spatial capture
- ≥4 Full 3D spatial capture (azimuth and elevation)
Proven technology integrated to mass production devices.
Support for mass production microphones (MEMS)
Customer support provided from concepting phase to product integration.
Cross platform SW implementation

OZO Audio Capture
Audio input
- 2 or more microphone channels
- 48 kHz, 16/24/32 bits
- Support for different device orientations
Processing
- Accurate state-of-the-art spatial audio analysis
- Audio capture enhancements such as automatic level control and noise reduction
Output
- OZO Audio Format

OZO Audio Format
- Standard compliant MP4 file format
- Most data efficient spatial audio content format
- Full spatial experience with OZO Audio enabled players
- High quality stereo output with any legacy player supporting AAC

OZO Audio Playback
Input
- OZO Audio Format
- Loudspeaker signals
- Ambisonics
- Audio objects
Output for playback and/or sharing
- Binaural, headtracking support
- Stereo
- Multichannel (5.1, 7.1, 5.1.2 etc.)
- Ambisonics (FOA and HOA)
Enhancements
- OZO Audio Focus
- Automatic level control
- Bass level control
- Noise reduction
- Audio effects
Product technology delivery and support
- SW library for device integration.
- Optimized implementation for customer HW.
- Integration support depending on customer needs.
- Audio quality assurance support.
- ISO 9001 certified quality management system