



Unlock the next dimension of sound

OZO Audio enables consumers to capture and share the full richness of their experiences on a range of consumer devices. The key features of OZO Audio are: Audio 3D, Audio Focus, Audio Zoom and Audio Windscreen. Furthermore, the new release of OZO Audio features an industry first capability of post-capture editing with Audio Tune.

- **Audio 3D** captures true-to-life audio with the highest spatial accuracy, transforming moments into immersive experiences.
- **Audio Focus** makes it possible to focus on the sounds that matter by prioritizing audio from any chosen direction during capture or playback while attenuating sounds from other directions.
- **Audio Zoom** allows for dynamically adjusting audio focus during visual zooming.

- **Audio Windscreen** lets users capture crystal-clear audio quality in less than ideal conditions by detecting and suppressing wind noise.
- **Audio Tune** lets users fine-tune their content with post-capture explore and edit capabilities that allow them to customize the audio soundscape.

OZO Audio can be integrated into consumer devices of any size, shape and design, whether it's a smartphone, camera, video or audio recorder. Spatial sound experiences captured with OZO Audio are always playable and can be shared with virtually any device and on social media.

Benefits

Superior spatial sound capture

Audio 3D captures sound with the best audio quality and highest spatial precision—within one degree of accuracy.

Focus on sounds that matter

Audio Focus enables the ability to emphasize sound from any direction, and attenuating noise and ambient sounds.

Get up close to the things you want to hear

Dynamically adjust audio focus to the area of a zoomed video with Audio Zoom.

Remove unwanted wind noise with Audio Windscreen

Identify and minimize distracting wind noise when capturing videos.

Always playable, shared everywhere

OZO Audio uses widely supported standard formats, enabling playback on any device and social media, including VR experiences.

Any shape, any size, any design

Integrate spatial audio across a range of products, starting with two mics.

Integration optimization

Optimized implementation for mobile and consumer electronic devices.

Integration support

Proven reference implementation provided for prominent hardware platforms.

Designed for a superb headphone experience

Immersive, binaural sound for headphone playback, and head-tracking support in VR.

Loudspeaker playback

Multichannel loudspeaker output for home theater use.

Post-capture editing and browsing

Explore and edit audio post-capture. Fine tune soundscape for any parameter in the capture features (Audio 3D, Audio Focus, Audio Zoom, Audio Windscreen and Audio Tune).

Features and formats

Product integration

Flexible microphone positioning in product mechanics that makes adaptation easy for different microphone setups. Technology scales up for different needs with the number of microphones:

- 2 mics: spatial capture
- 3 mics: 360 spatial capture
- ≥4 mics: full 3D spatial capture (azimuth and elevation)

Proven technology integrated into mass production devices

Support for mass production microphones (MEMS)

Customer support provided from concepting phase to product integration

Cross-platform SW implementation

Example applications and reference software to enable seamless product integration

OZO Audio

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
Advanced audio focus control with Audio Focus and Audio Zoom
Accurate wind noise detection and control with Audio Windscreen
Comprehensive post-capture editing capability for all OZO Audio features with Audio Tune

Output for playback and/or sharing

Binaural stereo, head-tracking support in VR
Stereo
OZO Audio format
Ambisonics (FOA and HOA)
Multichannel (5.1, 7.1, 5.1.2, etc.)

OZO Audio format

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

Universal playback

Input

OZO Audio format
Loudspeaker signals
Ambisonics

Product technology delivery and support

SW library for device integration, including example applications and reference SW
Optimized implementation for customer hardware
Integration support depending on customer needs
Audio quality assurance support
ISO 9001 certified quality-management system