



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 Audio Tune feature provides the industry first capability of post-capture editing OZO Audio captured content. The new release of OZO Audio also introduces Audio Framing and Audio Detect to smartly utilize spatial audio in applications.

- **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 emphasizing audio from any chosen direction during capture or playback while attenuating sounds from other directions.
- **Audio Zoom** allows for dynamically zooming in with audio similarly to 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.
- **Audio Framing** opens up new possibilities for applications by mapping the sonic landscape and providing information about the strongest audio sources.
- **Audio Detect** gives voice assistants the capability to perform in real-world conditions.

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. Head-tracking support when combined with OZO Playback.

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 and Audio Windscreen).

Audio-enabled differentiation for apps

Indication the amount of detected wind noise, automatically changing between front and back camera, and many other innovative features are made possible by OZO Audio.

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: Audio 3D, limited Audio Zoom, Audio Windscreen, Audio Detect
- ≥ 3 mics: All OZO Audio features

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 technology

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 controls for Audio Focus and Audio Zoom

Accurate wind noise detection and automatic 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 (OZO Audio format), head-tracking support with OZO Playback

Stereo

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

Spatial listening experience with all players

Head-tracking support and superior loudspeaker listening experience with OZO Playback

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