

FRAUNHOFER INSTITUTE FOR  
INTEGRATED CIRCUITS IIS

# FRAUNHOFER UPHEAR

IMMERSIVE SOUND CAPTURE  
FOR 360°-CAMERAS



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## SPATIAL AUDIO MICROPHONE PROCESSING

### **Capture Spatial Audio with any Microphone Array**

Fraunhofer upHear Spatial Audio Microphone Processing can be tailored to custom microphone arrays that have been designed to stay out of the field of view of 360°-cameras.

Fraunhofer upHear makes optimal use of each unique microphone configuration to render the captured sound to high-quality FOA, HOA, or audio channels.

### **Accurate Directional Sounds, Enveloping Ambience**

Professional content creators can rely on Fraunhofer upHear to capture the sound scene in studio-quality spatial audio. It excels in offering clearly localizable sound sources, as well as natural ambiances that carry the atmosphere of the set.

In post-production, the captured audio scenes can be seamlessly combined with additional sound elements, such as voice-overs and dynamic objects.

### **Features & Availability**

- Renders almost any microphone array to FOA, HOA, or audio channels.
- Includes advanced up-mixing of B-Format microphones (FOA) to HOA.
- Available as an optimized library (desktop/mobile) and as a DAW plug-in.

