Ultrasound Measurements

Ultrasound Field Characterization

The small size and the linear frequency response of the detection principle make the Optical Microphone the perfect tool for soundfield characterization — time signals, frequency distributions and ultrasound field maps of several different ultrasound emitters, such as PMUTs, can be characterized using a single sensor.

Measurements in High Electromagnetic Field

All optical components in the sensor head as well as the optical fiber cabling are insensitive to strong electromagnetic fields. Thus, soundfield measurements can be conducted in applications that are out of reach for classical microphones due to strong EM or radioactive fields.

Ultra-high Sound Pressure Levels

The Laser Microphone Ultra was designed to measure extremely high sound pressure levels (up to 180dB SPL). All our microphones are immune to damage from excessive acoustic pressure levels within the ultrasound field.

Dr. Müller Instruments GmbH & Co. KG Hasengarten 35 61440 Oberursel Germany
Phone: +49–6172–380 3727 E-Mail: info@Mueller-Instruments.de www.Mueller-Instruments.de