Acoustic Camera
Bionic M-112 Array

Features

- Far field analysis (beamforming)
- Near field analysis (holography)
- Fully integrated design (no frontend necessary)
- High dynamic range and resolution
- Very small package volume
- 40° Resolution at 600 Hz with beamforming
- From 40 Hz with holography
- Handheld

Sample Rate
Mic. Frequency Range
Operating Range
Analysis Dynamic Range
Measurement distance
Resolution
Interface
Operating Temperature
Operating Humidity

48 kHz
10 Hz to 24 kHz
< 33 dB to 120 dB
up to 40 dB
0.2 m to ∞
24-Bit Ethernet
-40 °C to +60 °C Non Condensing

Bionic M-112 Array

Microphones: 112
Diameter: 1 m

Application

- NVH
- Squeak and rattle
- Noise leakage detection
- Environmental and building acoustics
- Engine noise
- Automotive (exterior)
- Machine acoustics
- For transient and stationary noise sources

Beampattern

-3dB width: ±2.13321°
max side lobe: -21.7749 dB

Bionic M-112 Array

Array Size: Diameter 1000 mm
Array Material: Composite Material
Weight (excl. Tripod): 3.3 kg
Microphones: 112

In cooperation with CAE Software und System GmbH

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