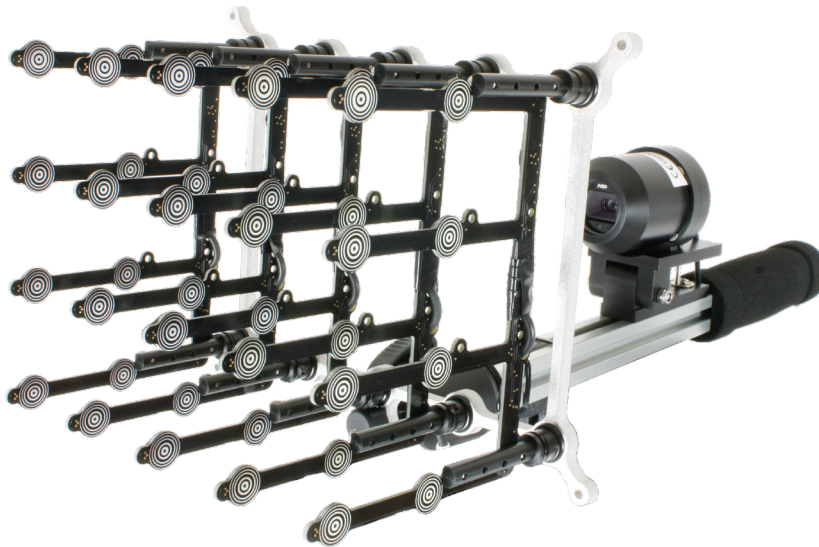


Intensity Camera

Intensity Array



The CAE Intensity Array is an one dimensional sound intensity measurement system that is able to detect the source of very low frequencies. The output of the analysis is the sound intensity for each probe mapped on a picture. This measurement system is able to map stationary as well as transient noise sources.

Intensity measurement systems have a very high dynamic range as there is no algorithm and no beampattern limiting this range.

Features

- Online and offline intensity analysis
- Localization in small spaces
- Ultramobile
- Easy to use
- Intensity measurement
- Usage from 40 Hz to 4 kHz

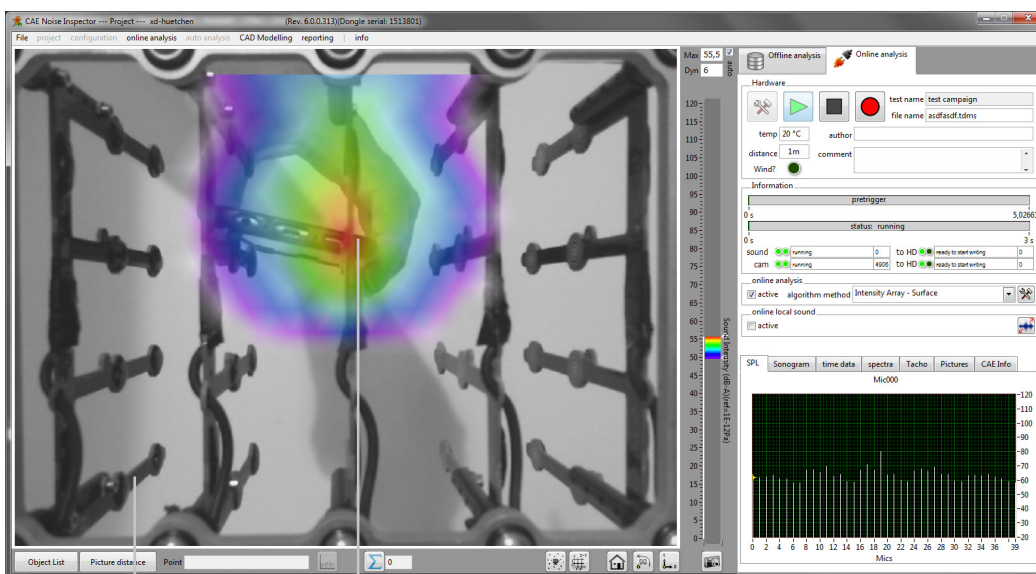
Application

- Noise leakage detection
- Engine noise
- Machinery acoustic
- Cabin acoustics
- Automotive (interieur)
- For transient and stationary noise sources

Intensity Array

Array Size	160 mm x 120 mm
Array Material	Composite Material
Weight (excl. Tripod)	0.8 kg
Intensity Probes	20
Sample Rate	48 kHz
Mic. Frequency Range	10 Hz to 24 kHz
Operating Range	< 33 dB to 120 dB
Analysis Dynamic Range	up to 30 dB
Source distance	0.01 m to ∞
Resolution	24-Bit
Interface	Ethernet
Operating Temperature	-40 °C to +60 °C
Operating Humidity	Non Condensing

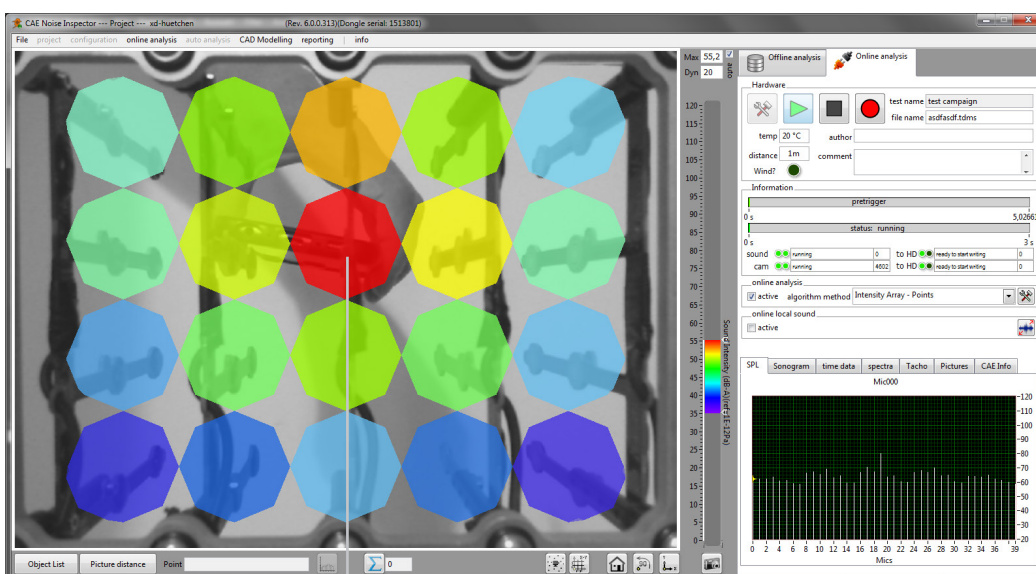
Typical intensity map for a point source (surface view)



2 microphones result in 1 intensity probe

Surface View for easier detection of sound sources

Typical intensity map for a point source (points view)



Intensity amplitude is shown for each probe (color)