

TOOLS FOR NOISE SOURCE LOCALISATION



Location: FlandersMake@KULeuven

DESCRIPTION

This set of tools allows identifying noise sources in mecha(tro)nic systems or industrial installations. It consists of an acoustic camera with 40 microphones and various one- and three-dimensional sound intensity probes, such that radiated noise can be visualized in up to three dimensions. After characterisation of the dominant noise sources, we can assist in suggesting appropriate countermeasures to efficiently reduce the noise issue.

TECHNICAL SPECIFICATIONS

CAE Systems Noise Inspector acoustic camera	
Type	Microphone array with 40 MEMS microphones
Dynamic range (upper limit)	120 dB
Simcenter Soundbrush	
Type	3D P-P probe with four 1/4" microphones
Frequency range	50 - 5000 Hz
Dynamic range (upper limit)	150 dB
Bruël & Kjaer 3584 intensity probe	
Type	P-P probe with two 1/2" microphones
Frequency range	30 - 10000 Hz
Dynamic range (upper limit)	162 dB
G.R.A.S. 50AI-L intensity probe	
Type	P-P probe with two 1/2" microphones
Frequency range	30 - 10000 Hz
Dynamic range (upper limit)	152 dB
Microflown PU-Match intensity probe	
Type	P-U probe
Frequency range	20 - 10000 Hz
Dynamic range (upper limit)	110 dB

OUR OFFER

Localisation and identification of acoustic sources in mecha(tro)nic systems.

INTERESTED?

Contact contact_DMMS@flandersmake.be for more information.