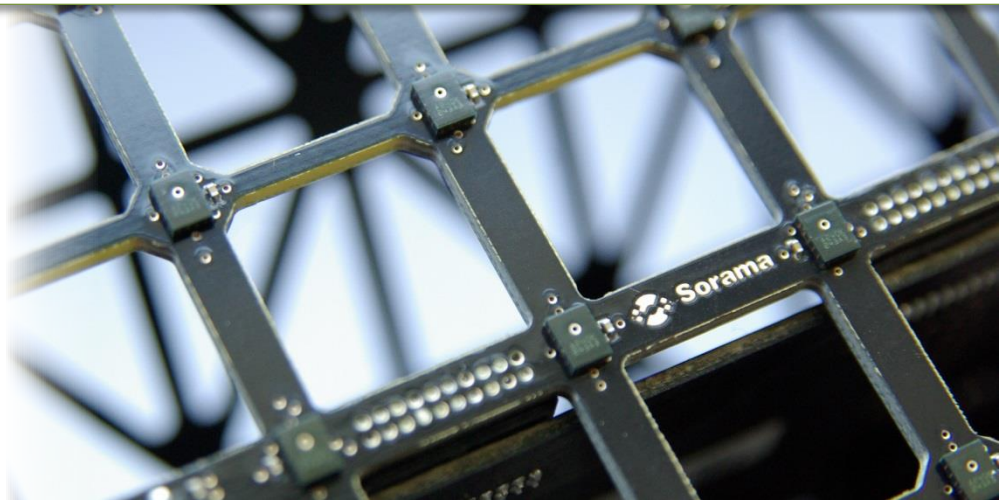
Sorama

visualising sound and vibrations

Sorama CAM^{64} specifications

So·ra·ma CAM·64 [**so-rah-mah cam sixty-four**] noun

1. lit.trans. Greek; concat. Sonos & orama; create wide view of sound
2. low-threshold, plug-and-play sound camera
3. non-specialist acoustic engineering tool
4. spin-off of Eindhoven university of technology
5. unique technology to visualise sound and vibrations

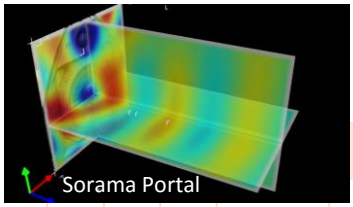


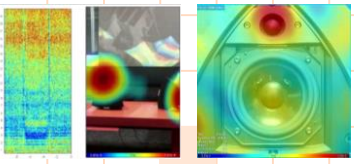
Sorama CAM64 specifications

version 20151012

Physical Properties		
Size	17 x 17 x 17 cm	LxWxD
Weight	Tbd., exp. < 1 kg	
Connection	Ethernet or USB 2.0	
Acoustic Properties		
# of microphone channels	64	Parallel sampling
Frequency range	1 Hz – 20 kHz	Δf = 1 Hz by default
Spatial resolution	20 mm	Inter sensor distance
Measurement area	16 x 16 cm	
Microphones		
Type	Akustica AKU242	Embedded ADC with PDM
SNR (A-weighted, at 1 kHz)	63 dB per channel	Max. 71 dB for device
Sensitivity	-26 dBFS +/- 1.5	At 1 kHz, 94 dB SPL
Acoustic Overload Point	116 dB SPL	At 1 kHz, <10% THD
Measurement Features		
Spectrum Analysis	SPL 1 Hz – 20 kHz	dB/dB(A) SPL, Δf = 1 Hz
Spectrogram Analysis	0-10s+, 0-20 kHz	Streaming + recording
Beamforming (far-field)	1 – 20 kHz	Streaming + recording
NAH (near-field)	1 Hz – 20 kHz	Acoustic holography

CAM64 with stand





Minimum system requirements	Near-Field Acoustic Holography	Beamforming (streaming)
Operating system	Windows 7	Windows 7
Processor	Intel i3 or AMD A8	Intel i5 or AMD A10
Memory	4 GB RAM	4 GB RAM
Graphics card	Integrated GPU	Integrated GPU
Screen resolution	1280 x 720 pixels	1280 x 720 pixels
Connections	1 x free USB 2.0 and ethernet port Working internet connection	1 x free USB 2.0 and ethernet port Working internet connection
Disk space	A typical measurement requires 500 MB	

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