



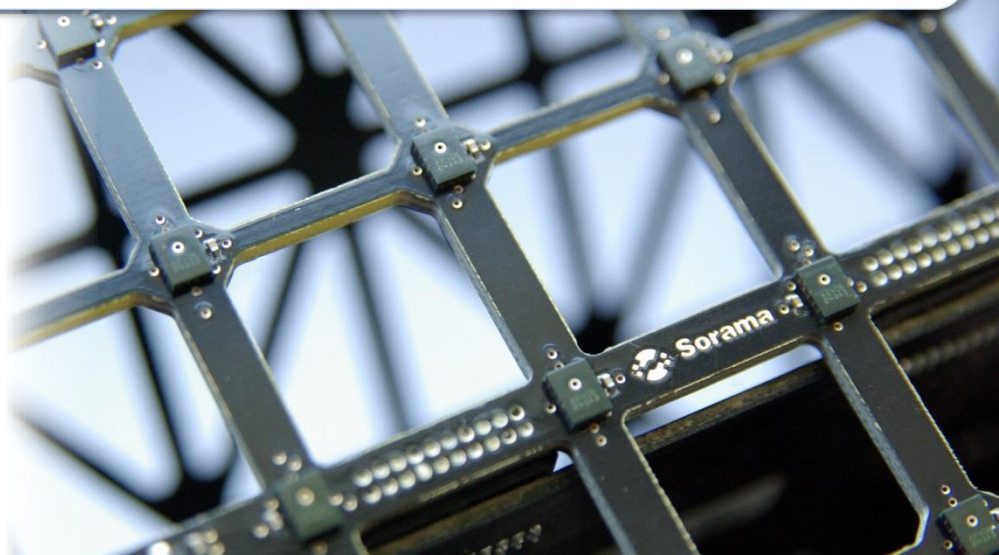
Sorama

make sound insightful

Sorama CAM⁶⁴ specifications

So·ra·ma [so-rah-mah] noun

1. lit.trans. Greek; concat. Sonos & Orama; create wide view of sound
2. Company name, founded in 2009 as spin-off of Eindhoven university of technology
3. Founder and patent holder: Rick Scholte (2017 NL Engineer of the Year)
4. Unique technology to visualize sound and vibrations



Sorama CAM⁶⁴ specifications

Physical Properties

Size	17 x 17 x 17 cm	LxWxD
Weight	0.3 kg	0.5 kg including stand
Connection	Ethernet and Power over Eth.	IEEE 1588V2 sync IEEE 802.3af-2003 PoE

Acoustic Properties

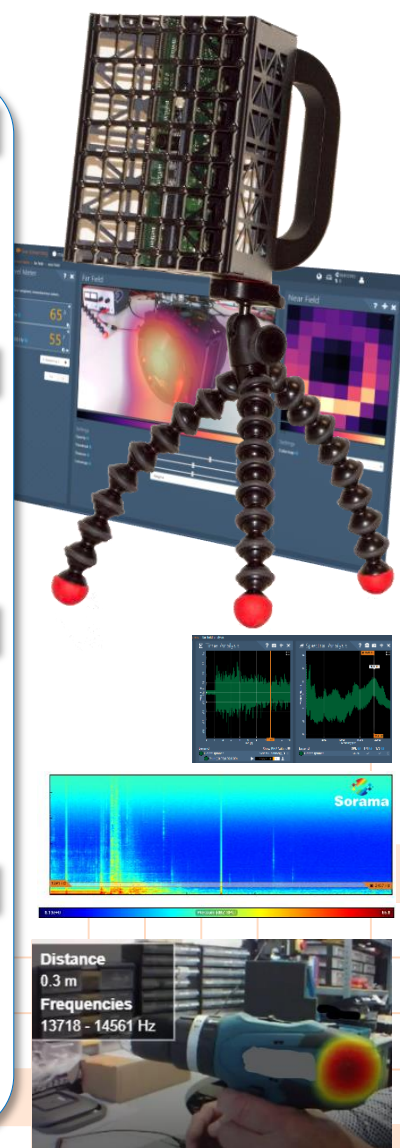
# of microphone channels	64	Parallel sampling
Frequency range	1 Hz – 20 kHz	$\Delta f = 1$ Hz
Spatial resolution	20 mm	Inter sensor distance
Measurement area	16 x 16 cm	

Microphones

Type	MEMS	Embedded ADC with PDM
SNR (A-weighted, at 1 kHz)	63 dB per channel	Max. 71 dB for device
Sensitivity	-26 dBFS +/- 1.5dB	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, $\Delta f = 1$ Hz
Spectrogram Analysis	0-10s+, 0-20 kHz	Streaming + recording
Beamforming (far-field)	1 kHz – 20 kHz	Streaming + recording
NAH (near-field)	1 Hz – 20 kHz	Stationary + transient



Minimum system requirements

Near-Field Acoustic Holography

Beamforming (streaming)

Operating system	Windows 7, 64 bits	Windows 7, 64 bits
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
Disc space	A typical measurement requires 50 MB	