



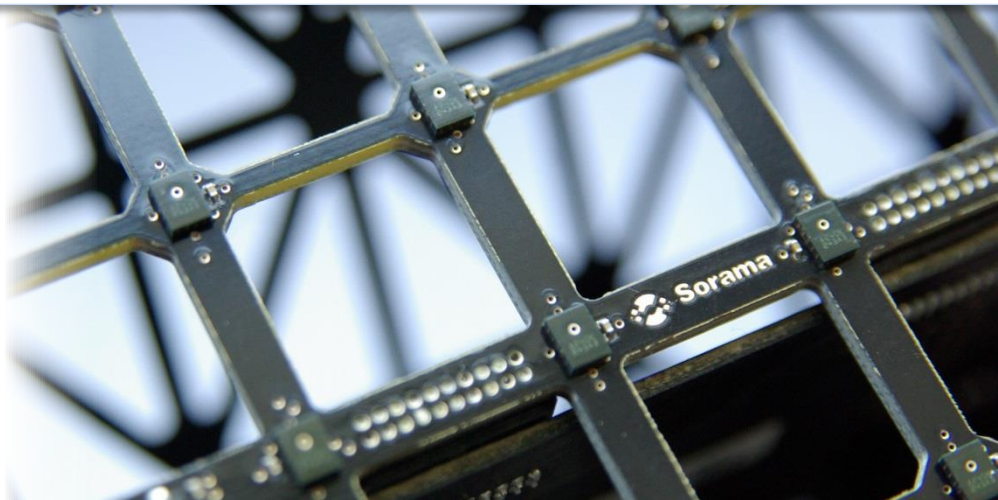
Sorama

Make the World Sound Right

Sorama CAM^{1K} 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 visualise sound and vibrations



Sorama CAM^{1K} specifications

Physical Properties

Size	640x785x130 mm	LxWxD
Weight	5.5 kg	
Connection	Ethernet and Power over Eth.	IEEE 1588V2 sync IEEE 802.3af-2003 PoE

Acoustic Properties

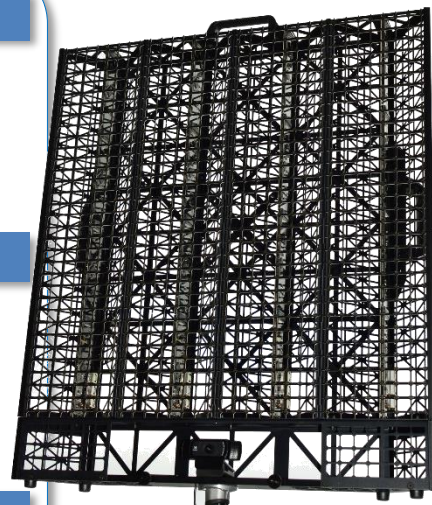
# of microphone channels	1024	Parallel sampling
Frequency range	1 Hz – 20 kHz	$\Delta f = 1$ Hz
Spatial resolution	20 mm	Inter sensor distance
Measurement area	640 x 640 mm	

Microphones

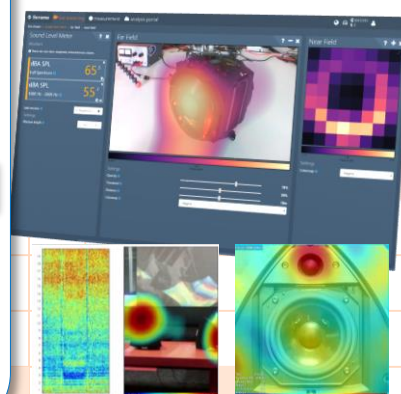
Type	Akustica AKU242	Embedded ADC with PDM
SNR (A-weighted, at 1 kHz)	63 dB per channel	Max. 93 dB for device
Sensitivity	-26 dBFS +/- 1.5dB	At 1 kHz, 94 dB SPL
Acoustic Overload Point	116 dB SPL	At 1 kHz, <10% THD

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 – 20 kHz	Streaming + recording
NAH (near-field)	1 Hz – 20 kHz	Stationary + transient



CAM^{1K} with Sorama Portal screenshot



Minimum system requirements

Near-Field Acoustic Holography

Operating system	Windows 7, 64 bits
Processor	Intel i5 (2014 gen) or comparable
Memory	4 GB RAM
Graphics card	Integrated GPU
Screen resolution	1280 x 720 pixels
Connections	1 x free ethernet port (or USB 2 or 3 dongle) Working internet connection
Disc space	Typical recording requires 500 MB

Beamforming (streaming)

Operating system	Windows 7, 64 bits
Processor	Intel i5 (2014 gen) or comparable
Memory	4 GB RAM
Graphics card	Integrated GPU
Screen resolution	1280 x 720 pixels
Connections	1 x free ethernet port (or USB 3 dongle) Updates require internet connection

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