



Sorama
make sound insightful

SORAMA CAM64 Specification sheet



SORAMA CAM64

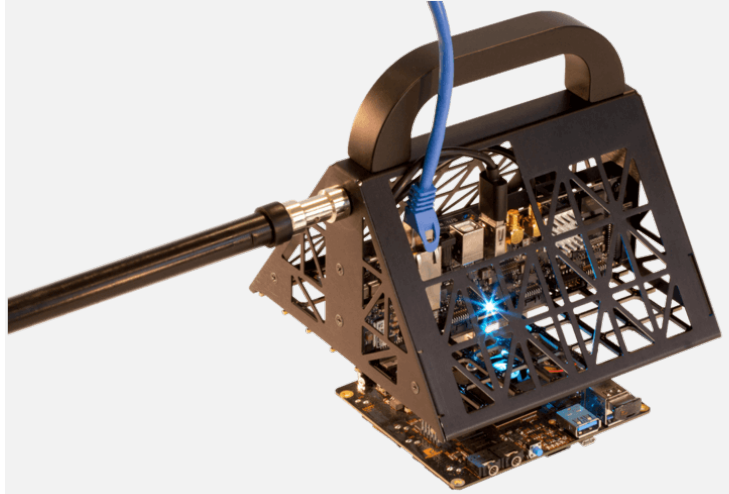
The Sorama CAM64 is the market-leading compact multi-channel sound measurement instrument. Its 64 microphone channels deliver an unrivalled spatial accuracy.

CAM64 is the easy-to-use sound measurement system that converts noise and vibration data into easy-to-interpret visual information. Without any need for academic acoustic support.

The Sorama CAM64 makes you an expert-in-a-day. The offered features are specifically interesting for flexibility in hand-held beamforming. The array-size makes it a suitable instrument for Near field vibration analysis on objects up to 16 x16 cm.

Main specifications:

- 64 microphones on a 16 x 16 cm area
- integrated HD video camera
- Near- and far-field sound imaging
- *Optimal* Far Field beamforming frequency range: 1.2kHz - 15kHz
- Near Field Acoustic Holography frequency range: 25 Hz - 23.400 Hz



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	$\Delta f = 1 \text{ Hz}$
Spatial resolution	20 mm	Inter sensor distance
Measurement area	16 x 16 mm	

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, $\Delta f = 1 \text{ Hz}$
Spectrogram Analysis	0-10s+, 0-20 kHz	Streaming + recording
Beamforming (far-field)	250 Hz – 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	

*Dependent on external factors