SOUNDCAM

The First Handheld Sound Camera for Everyone

What is SOUNDCAM?

SOUNDCAM is the first camera that images sound and is affordable for everyone. The system is intuitive and as easy to use as a smartphone. SOUNDCAM locates sound sources in realtime and immediately displays the results on the screen.

Human beings best process information in a visual way. SOUNDCAM visualizes complex acoustic information and creates a connection between hearing and seeing. Analyzing and understanding sound has never been easier!

Hardware

Physical Properties	Dimensions	34 x 34 x 9.5 cm (13.4 x 13.4 x 3.8 inch)
	Weight	appox. 3 kg (7 lb)
	Waterproof	IP54
	Anti-theft system	Kensington lock
	Battery life	min 2.5 h
	Tripod socket	1/4 inch
	Buttons	4 + power on/off
	Base	4 rubber nubs
	Temperature range	-40°C to +60°C (-40°F to 140°F)
Display	Size	7 inch / 15.5 x 8.6 cm
	Resolution	800x480
	Touch	10 finger capacitive touch
Embedded Controller	Processor	ARM A53 4x1.2 GHz
	RAM	1 GB
	OS	Linux for ARM
Interfaces	USB	for data export or keyboard/mouse
	Ethernet	LAN (for running software on laptop/PC)
	Audio	3.5 mm for headphones, etc.
Sensors	Microphones	64 digital MEMS
	Frequency range	10 Hz - 24 kHz
	Sound pressure	max. 120 dB
	Sample rate	48 kHz
	Resolution	24 bit
Optical Camera	Type	digital
	Resolution	320x240 (50fps) or 640x480 (16fps)
	Lighting	4 LEDs
	Aperture angle	± 38°
	Shutter	global shutter
Power	Supply	power adapter
	Battery	Li-ion battery
	Power Path Management	work and charge simultaneously (charger + PPM is integrated; no external charger unit necessary)

Software features

OS	Linux (Windows software also available)
HMI	Touchscreen or mouse and keyboard, Headphone
Online Performance	Up to 100 acoustic fps, up to 50 optical fps
	Acoustic pictures, optical pictures, sonogram and spectrum
	Listen to local sound
	Place marker while measuring
	Recording 10s./30s./60s. buffer or manual
Offline Features	Offline mode for analysis
	View acoustic results picture by picture
	Save and reload
	Replay
	Listen to local sound
Export	mp4 (video)
	wav (sound)
	jpg (picture)
Intuitive Usability	Distance settings
	Frequency filter
	Dynamic filter
	Different scaling modes (off, auto and smart)

It is now your turn to analyse sound and make the world a calmer, better place.