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	3 kg (7 lb)
	Waterproof	IP54
	Anti-theft system	Kensington lock
	Battery life	Min. 2.5 h
	Tripod socket	1/4 inch
	Buttons	8 configurable + power on/off
	Base	4 rubber nubs
	Temperature range	-30°C to +60°C (-22°F to 140°F)
Display	Size	7 inch / 15.5 x 8.6 cm
	Resolution	800 x 480 px
	Touch	10 finger capacitive touch
Embedded Controller	Processor	ARM A53 4x1.2 GHz with 1 GB RAM
	Internal storage	32 GB
	OS	Linux for ARM
Interfaces	USB	For data export
	Ethernet	LAN (for running software on laptop/PC)
	Audio	3.5 mm for headphones
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	Battery	Li-ion rechargeable battery (48 Wh)
	Supply	Power adapter
	Input	19V
	Management	Smart: work and charge simultaneously

Software features

OS	Linux (on SoundCam), Windows (for laptop/PC)
HMI	Touchscreen, headphones
Online Performance	Up to 100 acoustic fps, up to 50 optical fps
	Acoustic pictures, optical pictures, FFT and spectrogram
	Listen to local sound
	Place marker while measuring
	Buffer recording
Offline Features	Offline mode for analysis
	View acoustic results picture by picture
	Save and reload
	Replay
	Listen to local sound
Export	Video
	Sound
	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.