SOUNDCAM ULTRA Product data

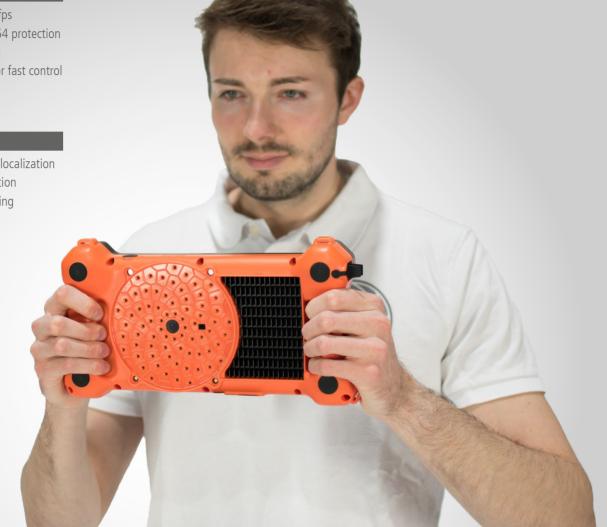


Highlights

- Real-time results at 100 fps
- Handheld device with IP54 protection
- Integrated object lighting
- 8 configurable buttons for fast control
- Analysis up to 100 kHz
- Low weight

Applications

- Compressed air/gas leak localization
- Partial discharge localization
- Condition based monitoring
- Animal studies
- Non destructive testing







What is SoundCam?

SoundCam Ultra is the first camera that images audible sound and ultrasound. The device locates sound sources in realtime and immediately displays the results on the screen. It is as easy to use as a smartphone.

Its light weight and ergonomic design makes a convenient fit for every maintenance and service tool-kit. The SoundCam Ultra can be used in a broad frequency range up to 100 kHz, which makes it suitable for a wide range of applications e.g. for compressed air leaks and partial discharge localization.

The SoundCam Ultra visualizes complex acoustic information. Analyzing and understanding sounds has never been easier!



	ardware
Dimensions	31 x 16 x 5.5 cm (12.2 x 6.3 x 2.2 inch)
2	1.5 kg (3.3 lb)
5	I.5 Kg (5.5 lb) IP54
	Two or one-handed
	Life ~ 3.5 h; fully charged in 1.5 h
	1/4 inch
Dattonio	8 configurable + power on/off
1 0 1	-20°C to 50°C (-4°F to 122°F)
	0°C to 45°C (32°F to 113°F)
	-30°C to 60°C (-22°F to 140°F)
0120	7 inch / 15.5 x 8.6 cm
	800 x 480 px
Touch	10 finger capacitive touch
Processor	ARM A53 4x1.2 GHz with 1 GB RAM
Internal storage	32 GB or 512 GB
OS	Linux for ARM
USB	For data export
Ethernet	LAN (for running software on laptop/PC)
Audio	3.5 mm for headphones
Microphones	72 digital MEMS
Frequency range	Up to 100 kHz
Sample rate	200 kHz
Sound pressure	Max. 120 dB
Resolution	24 bit
Type	Digital
Resolution	320x240 (50fps) or 640x480 (16fps)
Lighting	4 LEDs
5 5	70° (FoV horizontal)
	Global shutter
onaccor	Li-ion rechargeable battery (48 Wh)
,	19V with power adapter
1	Smart: work and charge simultaneously
	Processor Internal storage OS USB Ethernet Audio Microphones Frequency range Sample rate Sound pressure Resolution Type

Software features	
OS	Linux (on SoundCam), Windows (for Laptop/PC)
HMI	Touchscreen, headphones, buttons
Protection	Password (unauthorized access protection)
Online Performance	Up to 100 acoustic fps, up to 50 optical fps
	Acoustic pictures, optical pictures, FFT and spectrogram
	Listen to local sound (broadband or frequency filtered)
	Place marker while measuring
	Buffer recording, trigger recording (SPL or frequency)
	Long term measurements (average and peak-hold)
	Time weighting: fast, slow, impulse
Offline Features	View acoustic results frame by frame
	Save and reload
	Replay in real-time or slow motion
	Listen to local sound
Export	Screenshots, video, sound
Intuitive Usability	Distance settings
	Frequency filters (narrow band, 1/3-octave and octave)
	Dynamic filter and low cut-off
	3 scaling modes: off, auto, smart (crest factor)

CAE Software und Systems GmbH



Tel.: +49 5241/21142-0 | Fax: +49 5241/21142-29 info@cae-systems.de | www.cae-systems.de