SOUNDCAM ULTRA Product data

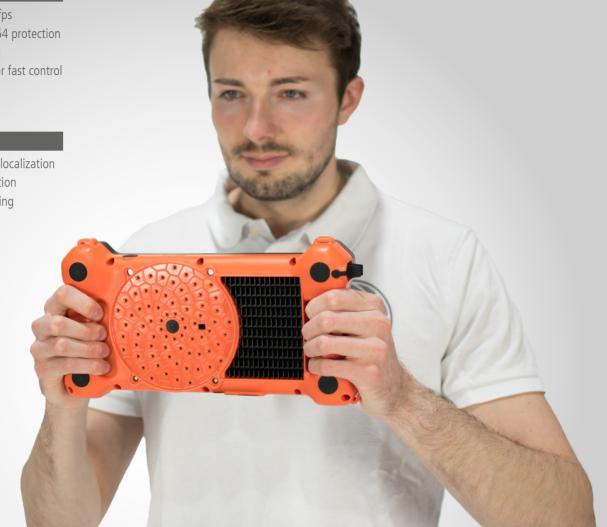


Highlights

- 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) |

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