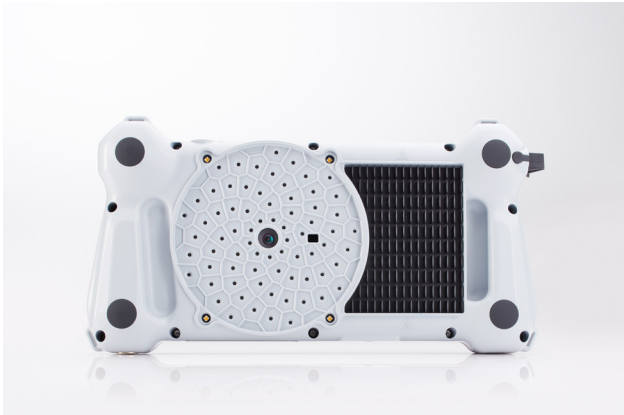




SONASCREEN® Acoustic Camera

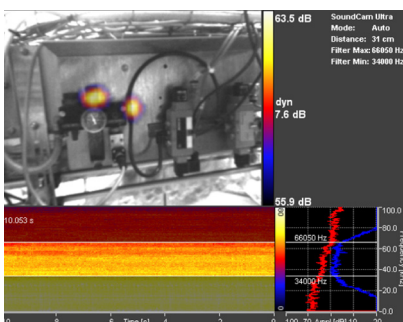


The handheld acoustic camera SONASCREEN generates acoustic images from both the audible and ultrasound frequency range. The device locates sound sources in real time and displays the results immediately on the screen. Furthermore, the camera provides audible feedback through industrial headphones. We make ultrasound audible and visible.

Key Features

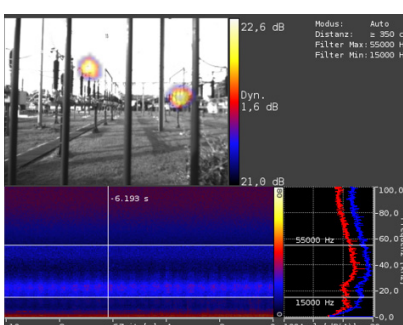
- 72 MEMS microphones
- 24 bit resolution
- Real-time acoustic results at 100 fps
- Sampling rate of 200 kHz
- Wide frequency range: 10 Hz to 100 kHz
- Optical camera
- Integrated data acquisition and analysis software
- Handheld device with IP54 protection
- Integrated LED lights
- 8 configurable buttons for fast control
- Low weight and small size

Applications



Leak Detection

- Broadband ultrasound
- Adjustable bandpass filter to adapt industrial environments with disturbing ultrasound
- Show multiple leaks in one image
- Reporting software for complete leak detection audits
- Provide a gross loss estimation



Partial Discharge

- Detect partial discharge in the ultrasonic range
- Recognize typical forms of partial discharge in the spectrogram
- Show multiple partial discharges in one image

Technical Data

Hardware Features	
Dimension	31 × 16 × 5.5 cm (12.2 × 6.3 × 2.2 inch)
Weight	1.5 kg (3.3 lb)
Protection Class	IP54
Operation	One or two-handed
Battery	Life ~ 3.5h; fully charged in 1.5h
Buttons	8 configurable, power on/off
Environment Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Charging Temperature	0 °C to 45 °C (32 °F to 113 °F)
Storage Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Display	
Size	7 inch / 15.5 cm × 8.6 cm
Resolution	800px × 480px
Touch	10 finger capacitive touch
Embedded Controller	
Processor	ARM A53 4×1.2GHz with 1GB 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	72 digital MEMS
Frequency Range	From 1Hz up to 100kHz
Sample Rate	200kHz
Sound Pressure	Max. 120dB
Resolution	24 bit
Detection Range	Up to 150m
Optical Camera	
Type	Digital
Resolution	320×240 (50fps) or 640×480 (16fps)
Lighting	4 LEDs
Aperture Angle	70° (FoV horizontal)
Shutter	Global Shutter
Power Supply	
Battery	Li-ion rechargeable battery (48 Wh); Work and charge simultaneously
Input	19V with power adapter

Software Features	
Operation System	Linux (camera), Windows (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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Applications

- Leak detection
- Partial discharge detection
- Tightness testing



Innovative Technologies
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TAURUS POWERTRONICS PVT LIMITED

Corp. Off.: No. 26, "Mahadimane", 12th Main, 1st Block, Rajajinagar, Bengaluru - 560 010. INDIA., Tel : + 91 80 2301 2301, Mob.: +91 95827 12715
Email : info@tauruspowertronics.com, enquiry@tauruspowertronics.com, Tollfree : 1800 425 2112, WhatsApp : +91 73496 44344
Sales & Service Off.: No. 648/54, KLE College 2nd Block, Rajajinagar, Bengaluru - 560 010. INDIA , Tel : + 91 80 2352 2136/74

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www.tauruspowertronics.com