SONOTEC

NEW!
SONASCREEN® IR
with Thermal
Camera

Acoustic Camera

SONASCREEN®

For Preventive Maintenance

MADE IN GERMANY

Preventive Maintenance

SONASCREEN® & SONASCREEN® IR
Acoustic Camera for Preventative Maintenance

Application areas
Leak location and detection of partial discharges

72 sealed microphones
For detecting acoustic signals

Wide frequency range
Up to 100 kHz for capturing audible sound and ultrasound

Touch display
7" multi-touch display
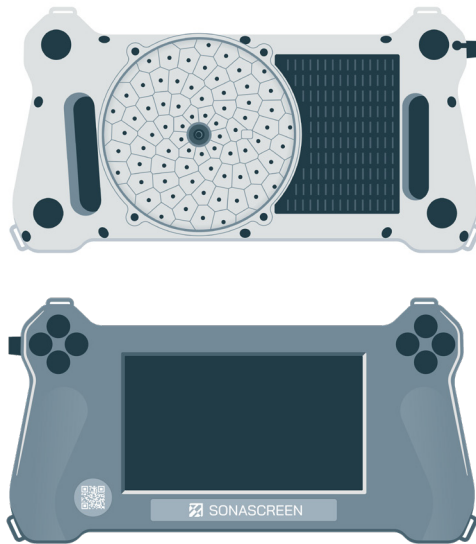
Intuitive operation
Leak and partial discharge modes, as well as adjustment options and filters, such as distance adjustment, dynamic filter and scaling modes

Flashlight function
Using LEDs

IP54
Best suited for indoor and outdoor industrial operations

Integrated infrared sensor (*IR version)
Creation of thermal images

For any technician to use

Simple

Through visual presentation of defects

Intuitive

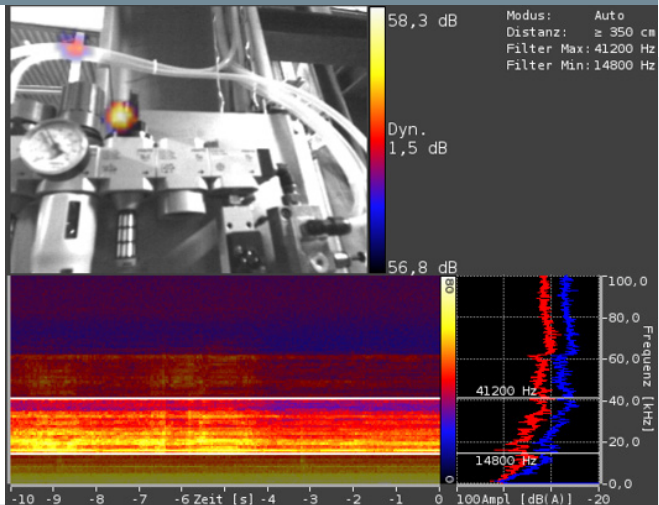**Through acoustic results in real-time with 100 frames per second**
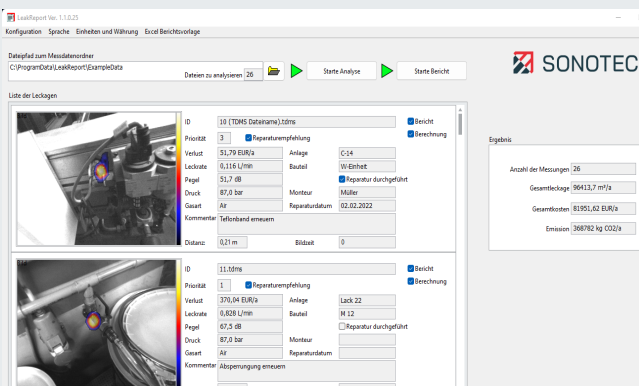
Fast

Leak Detection
Increase Your Energy Efficiency!

- → Display of multiple leaks in one picture
- → Leak detection in compressed air, gas and vacuum systems
- → 35% cost savings on compressed air generation
- → Simple and fast finding of leaks
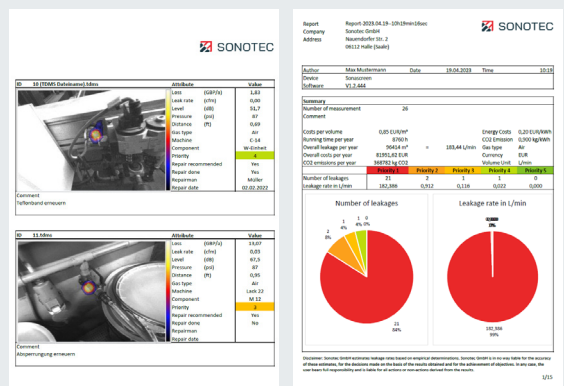- → See and hear leaks at the same time

Software LeakReport

- Free software to create and edit reports, with location description, loss assessment, and repair status
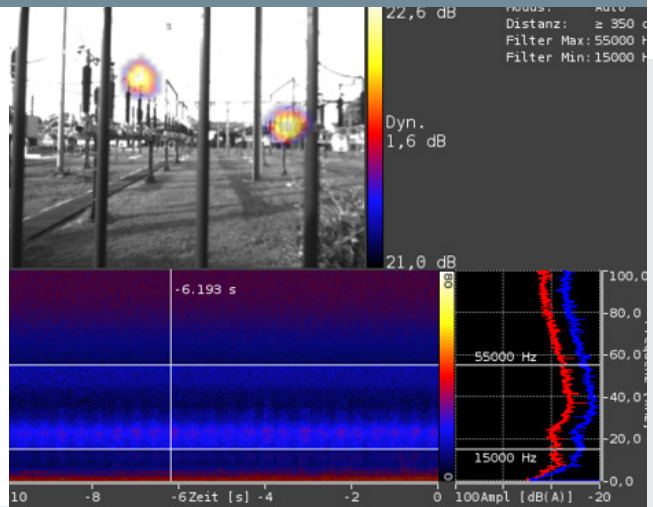- Export to Excel and PDF

Reports

- Overview of all leaks for the compressed air audit
- Necessary repairs can be then carried out from the documented leaks

Detection of Partial Discharges
Increase Your Operational Safety!

- → Detect electrical partial discharges at the earliest stages
- → Recognizing typical acoustic partial discharge signatures
- → Display of multiple partial discharges in one picture
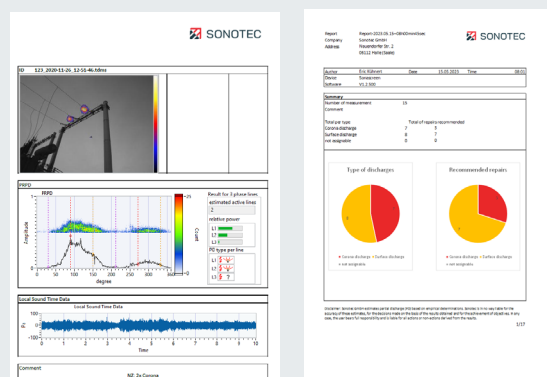- → Detection of partial discharges at a safe distance

PDReport Software
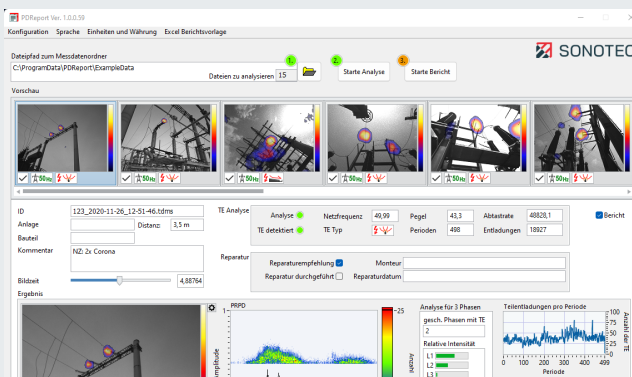
- Free software for the analysis and rating of electrical partial discharges
- Export to Excel and PDF

Reports

- Documentation of the defect and creation of repair orders
- Automatic differentiation between corona and surface partial discharge
- Display of the acoustic signal as PRPD

SONOTEC

SONASCREEN® IR: Acoustic Thermal Imager

Simple. Intuitive. Fast.

→ The SONASCREEN IR acoustic camera generates acoustic images from the audible and ultrasonic frequency range

→ The device locates (ultra) sound sources in real time and expands its capabilities with a thermal imaging camera

→ The camera also provides acoustic feedback via headphones

→ Make ultrasound audible and visible, now with added thermal imaging

NEW!
SONASCREEN IR with Thermal Camera
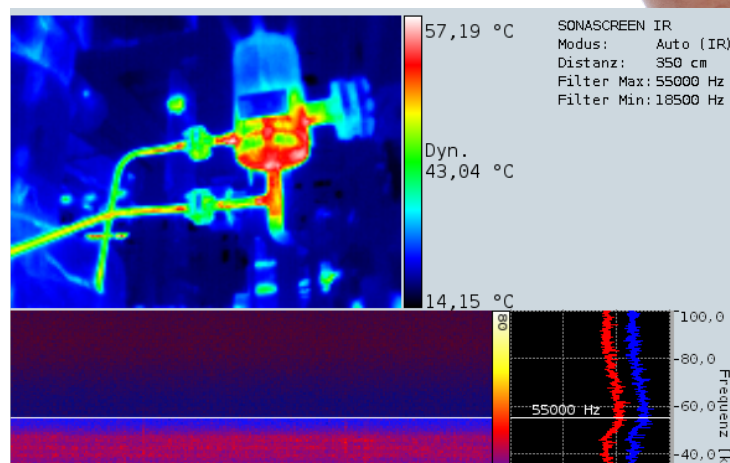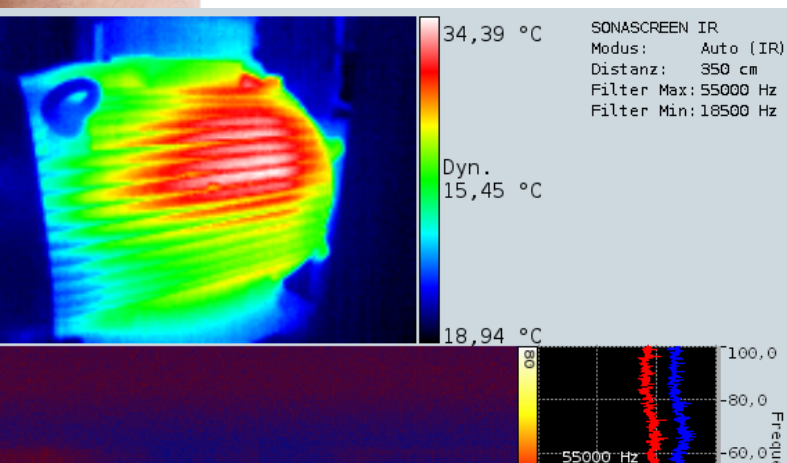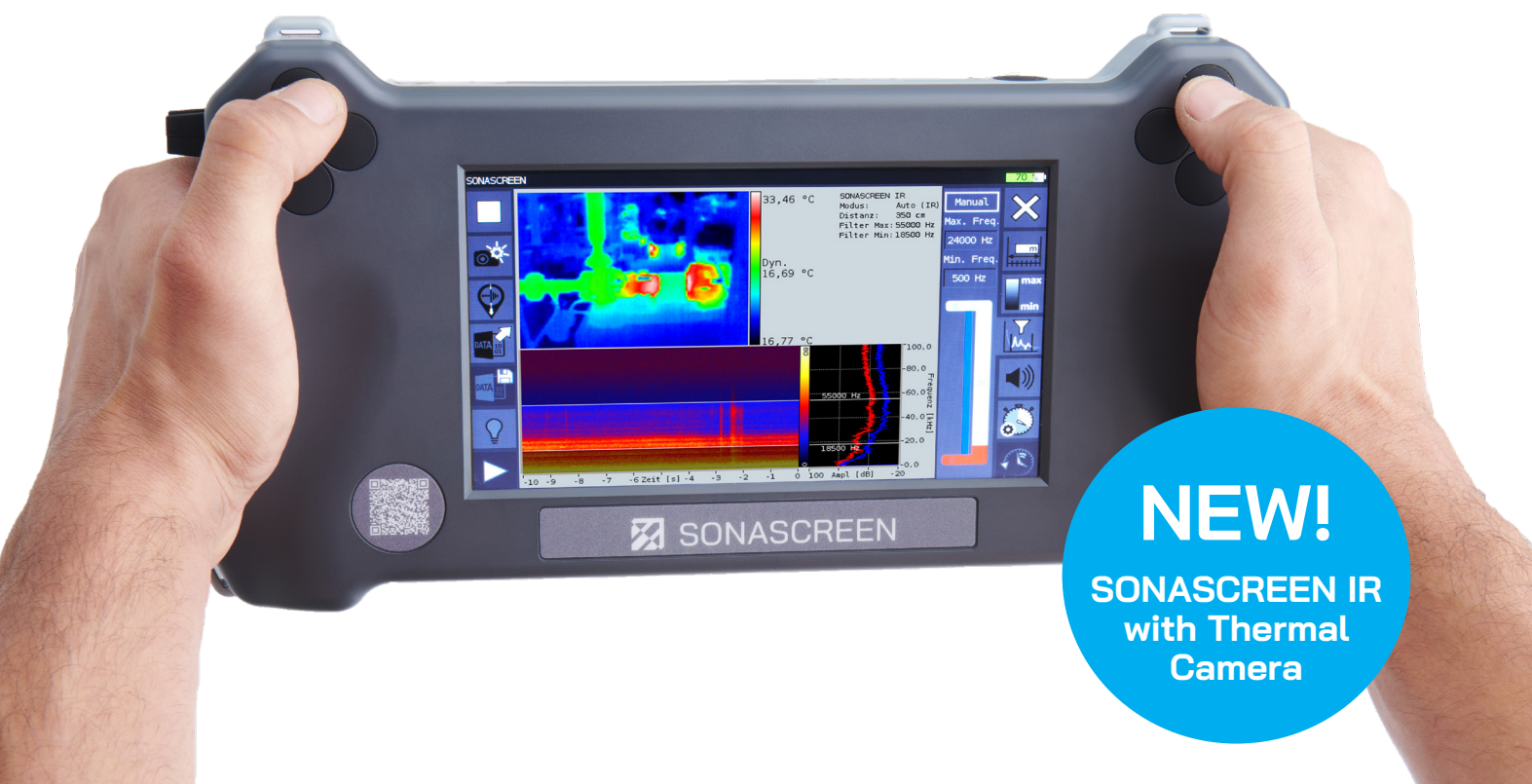
Technical Data

Hardware Features

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 ~ 3.5 h; fully charged in 1.5 h
Buttons	8 configurable, power on/off
Environment Temperature	-20 °C to 50 °C (-4 °F to 122 °F)

Display	
Size	7 inch / 15.5 cm × 8.6 cm
Resolution	800 px × 480 px
Touch	10 finger capacitive touch

Embedded Controller	
Processor	ARM A53 4 × 1,2 GHz with 1 GB RAM
Internal Storage	32 GB
OS	Linux for ARM

Sensors	
Microphones	72 digitale MEMS
Frequency Range	From 1 Hz up to 100 kHz
Sample Rate	200 kHz
Resolution Acoustic Image	100 fps
Sound Pressure	Max. 120 dB
Resolution	24 bit
Detection Range	Up to 150 m

Optical Camera	
Type	Digital
Resolution	320 × 240 (50 fps) or 640 × 480 (16 fps)
Lighting	4 LEDs
Aperture Angle	70° (FoV horizontal)
Shutter	Global shutter

Power Supply	
Input	19 V with power adapter

Software Features

Software Features	
Operation System	Linux (camera), Windows (laptop/PC)
HMI	Touchscreen, headphones, buttons
Protection	Password (unauthorized access protection)
Features Camera	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
Features PC-Software	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)

IR module (only included in IR version)	
Spectral range	Long-wave infrared, 8 µm to 14 µm
Resolution	160 × 120 Pixel
Effective Frame Rate	8,7 Hz
Thermal Sensitivity	<50 mK
Measurement Range	High gain mode: -10°C to 140°C Low gain mode: -10 °C to 400 °C (room temperature) -10°C to 450°C (typical)
Optimal Operating Temperature Range	-10 °C to 80 °C
Input Noise Level	2nV/√Hz**

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