

Акустическая камера второго поколения с функцией тепловидения SONASCREEN 2

Технические характеристики

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SONASCREEN® 2

The most advanced acoustic camera on the market



- **Areas of application**
Leak detection, partial discharge detection, tightness testing, and bio-acoustics
- **Most sensitive camera available**
176 microphones with 200 kHz for capturing acoustic signals
- **Wide frequency range**
Up to 100 kHz for the detection of audible and ultrasonic signals
- **High acoustic frame rate**
Capture fast events with a frame rate of 100 fps
- **Intuitive operation**
Different application modes with preset settings for intuitive operation without extensive training
- **Audio converting**
For precise monitoring of the visually displayed ultrasonic signal
- **In-depth recording and analysis**
The only camera that enables further processing of the recorded raw data
- **Flashlight function**
- **2-in-1 device**
Acoustic camera and thermal imaging camera in one device
- **Touch display**
7" multi-touch display with very high resolution
- **GPS module**
For easy positioning and orientation during partial discharge measurements*
- **IP54 protection class**
Ideally suited for both indoor and outdoor industrial applications



Any
technician
can use

SIMPLE

Visual
presentation
of defects

INTUITIVE

Real-time
acoustic results
at 100 frames
per second

FAST



Detection of Partial Discharges

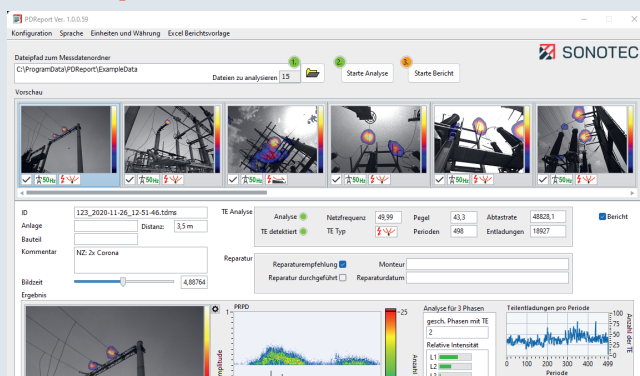
Increase your operational safety and system reliability!



- Detect and differentiate electrical partial discharges in the ultrasonic range at the earliest stage
- Phase-resolved display of different partial discharge types as live PRPD
- Visualization of several partial discharges in one image
- Detection of partial discharges from a safe distance, even over long distances



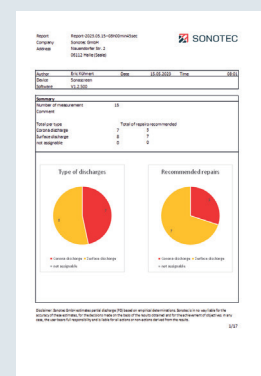
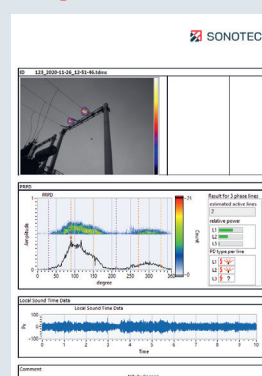
PDReport Software



- Free software for the analysis and rating of electrical partial discharges
- Automatic line frequency detection
- Export as PDF



Reports

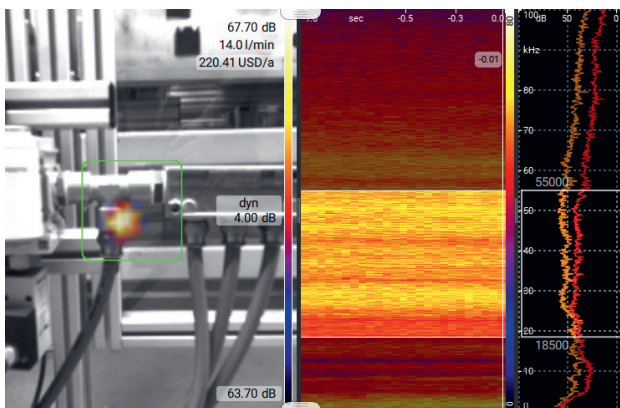


- Documentation of defects and creation of repair orders
- Automatic differentiation between corona and surface partial discharge
- Display of the acoustic signal as PRPD

SONASCREEN® 2 Acoustic Camera

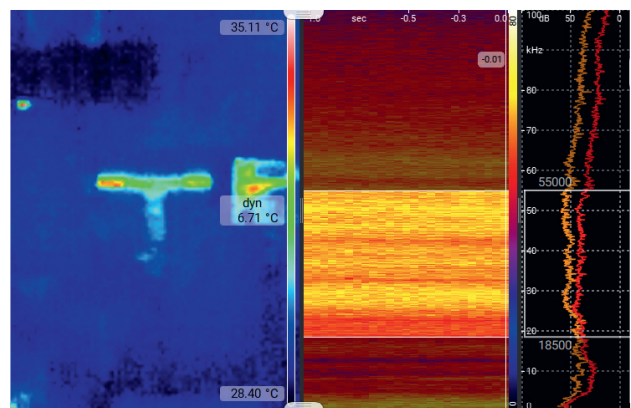
Setting new standards in hardware, performance, and accessibility

- The SONASCREEN® 2 acoustic camera generates acoustic images from the audible and ultrasonic frequency range
- The device locates (ultra)sound sources in real time and displays the results on the screen
- In addition, the camera provides acoustic feedback via headphones
- At the same time, the built-in IR module adds the functionality of a thermal imaging camera to the device
- Thus, ultrasound becomes both audible and visible - and the detection of anomalies and damaged parts is enhanced by combining acoustic and thermal images



Visualization of a leak in the acoustic image

- The combination of acoustic and thermographic imaging enables a deeper understanding of the recorded events



Visualization of the same leak in the thermal image

- The parallel evaluation of acoustic and thermal images allows a more comprehensive diagnosis and analysis

Different Modes

Equipped for any application



Easy

Simplified mode with reduced range of functions for easier operation



Pro

Expert mode with extended range of functions and adjustable measurement parameters



Leakage

Optimised mode for quick and easy detection of leaks incl. live loss indicator



Partial Discharge

Optimised mode for the detection of different types of partial discharges incl. live PRPD display



Network

Remote control of the camera via the included PC software*

Technical Data

General Data	
Size	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	~3,5 h; fully charged in 1,5 h; additional ~6,5 h with external battery (optional)
Buttons	8 configurable + power on/off
Tripod Mount	1/4"
Operating Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Display Size	7" / 15 cm × 9.4 cm
Resolution	1280 px × 800 px
Touch Display	10 finger capacitive touch
Internal Storage	1 TB M.2 SSD
Ports	
USB A 3.0	Data export
Ethernet	LAN (to run the PC software)*
Audio	3.5 mm jack for headphones
USB C	Charging and data export*
Sensors	
Microphones	176 digital MEMS
Frequency Range	1 Hz to 100 kHz
Sample Rate	200 kHz
Acoustic Image Resolution	100 fps
Sound Pressure	Max. 120 dB
Resolution	24 bit
Detection Range	Up to 150 m (492 feet)
Optical Camera	
Type	Digital
Resolution	640 × 480 px with 56 fps
Lighting	4 LEDs
Aperture Angle	70° × 55° (FoV horizontal × vertical)
Shutter	Global Shutter
Additional Sensors	
ToF (Time of Flight)	Distance measurement for <1.5 m*
GPS	Position incl. orientation*
Power Supply	
Input	19 V with power adapter

Functions	
Features Camera	Acoustic images, optical images, FFT and spectrogram; listening to local sound (broadband or frequency-filtered); placing markers during measurement; buffer recording, trigger recording (SPL or frequency-triggered); long-term measurements (average and peak hold); time evaluation: fast, slow, impulsive
Features PC-Software	Display acoustic results frame by frame; save and reload; replay in real time or in slow motion; listen to local sound. slow motion; listen to the local sound
Export	Photo, video, audio, measured data
Intuitive Usability	Distance setting; frequency filter (narrow band, 1/3 octave and octave), Dynamic filter and lower cut-off frequency; 3 scaling modes: Off, Auto, Smart (CREST factor)
Languages	German, English, Spanish, Croatian, Italian, Japanese, Korean, Polish, Turkish, Chinese

Thermal Imager	
Sensor Technology	Microbolometer
Spectral Range	Long-wave infrared, 8 µm to 14 µm
Resolution	160 × 120 px
Effective Frame Rate	8.7 Hz
Thermal Sensitivity	<50 mK
Measurement Range	-10 °C to 400 °C (Room temperature)

* This function will be activated in a future software update.

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