Be smart. **Measure it.**

S532

Acoustic Imaging Detector

LEAK DETECTION
Visualize compressed air leaks in real-time

PARTIAL DISCHARGE DETECTION
Identify particle discharge on high voltage systems

HIGH SENSITIVITY
64 MEMS microphones to locate even the weak leak

MASS STORAGE
Almost unlimited memory for records, photos and voice recording

LOSS CALCULATE
Calculates air loss in L/min or in local currency

ANALYSIS
Export data to LMS for statistics and repair

PHOTOGRAPH LEAK PARTS
Build in camera to take photo of leak locations

VOICE RECORDING
Voice recorder for voice memos

ADJUSTABLE FREQUENCY RANGE
Wide frequency range from 0KHz to 96 KHz

DETECT FROM DISTANCE
100m ultra long distance detection

Benefits

- Detect pressurized air leaks or partial discharges with ease, even from a distance.
- Integrate seamlessly with the SUTO Leak Management Software (LMS) for comprehensive leak surveys.
- This is the ideal solution for professional leak detection and partial discharge detection.
- Get a fast return on your investment.
- Simple to use, yet powerful in performance.

Detect and manage your leaks and partial discharge

Save your time and costs

The S532 is a professional-grade acoustic imaging detector that combines advanced technology with user-friendly features. This device is designed to find and record compressed air leakages and partial discharges in industrial settings.

Find and Record Compressed Air Leakages

- Equipped with 64 low-noise MEMS microphones.
- Adjustable bandwidth range for precise detection.

Identify Partial Discharges in Industrial Settings

- Effective in high voltage environments.

Visual Image Overlay

- 4.3" LCD touch screen
- Displays results overlaid on a visual image.
- Enables quick and precise problem identification.

User-Friendly and Lightweight Design

- Easy to handle and operate
- Designed for professional use

Mitigate Safety Risks and Streamline Troubleshooting

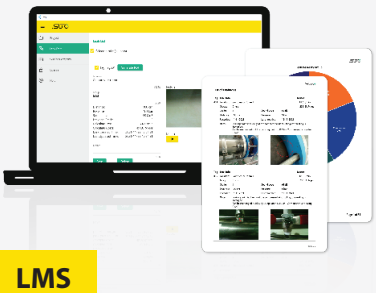
- Reduces costs associated with equipment failures and downtime
- Enhances overall operational efficiency.

Integration with SUTO Leak Management Software (LMS)

- Effective management of leakage detection and repair activities.
- Seamlessly exports data to LMS for comprehensive analysis.

S532

Acoustic Imaging Detector



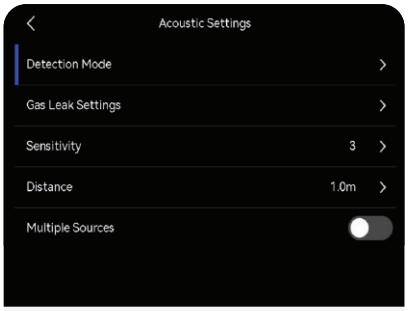
LMS

Leak Management Software (LMS)

LMS included for free

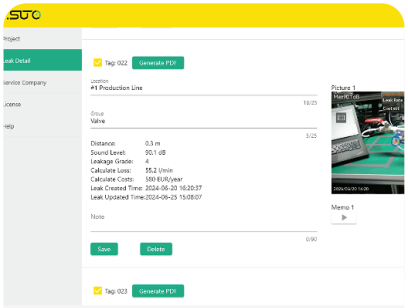
When purchasing a S532 set, one free LMS license is included. Start immediately creating powerful leak reports, without paying extra for additional software licenses.

Leak Detection



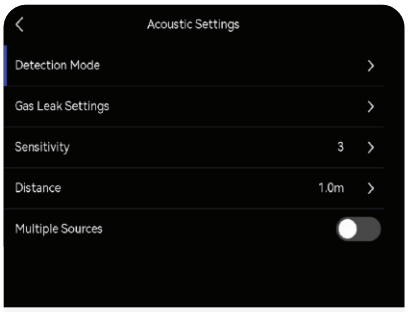
Customize your leak detection with tailored settings, including cost per loss, currency units, sensitivity, detection distance, and frequency range.

Simply hold the trigger button to capture images. Add voice memos and message notes for each leak.



Export your leak data to LMS to generate comprehensive leak reports. This is the best way to ensure efficient tracking and management.

Partial Discharge Detection



Adjust the partial discharge settings, including sensitivity, distance, and frequency.

Our advanced scanning feature makes it easy to discover partial discharges from a distance.

The S532 will deliver seamless operation, automatically identifying the type and strength level, and delivering instant results on the screen.

Cost Saving

Compressed air is one of the most expensive energy forms. In Germany alone, 60,000 pneumatic systems consume 14,000,000,000 kWh electricity every year. 15 % to 20 % of this could easily be saved (Peter Radgen, Fraunhofer Institute, Karlsruhe). A large portion of these costs are caused by leaks In compressed air systems, allowing the air to "escape" unused.

Calculation example at 0.6 MPa:

1 hole of 1mm diameter = 270 EUR/year

Option

Ultrasonic tone generator to be used in pressure less systems. The generator emits ultrasonic waves which can be detected by the S532.

Seamless Connection with Leak Management Software (LMS)

1 Initiation

Enter your own company information like company name, address and contact person etc. to be later printed automatically on your reports.

2 Planing

Create a new project on the fly directly via the user interface of S532. Define project name, cost and unit settings on site via the touch screen user interface.

3 Execution

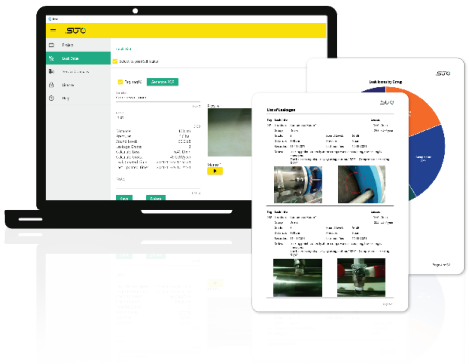
Use the S532 to perform the leakage survey on site, record the found leaks, which saves the flow, costs of leak loses, take photos of the leaks and record voice memos. All to be used later in generating powerful reports.

4 Preparation

After uploading the data to LMS software, users are enabled to easily check the leakage data, add useful information and/or correct date if needed.

5 Reporting

Generate powerful reports by a simple click of one button. The reports are with your own logo and company info, so you do not have to spend any more time to sort the data and create reports in an external tool, like ord or Excel.



Applications

The Acoustic Imaging Detector S532 is suitable for a wide range of applications in industrial settings, including:

- **Compressed Air Systems:** Detecting and managing leaks in compressed air systems to reduce energy wastage and operational costs.
- **High Voltage Systems:** Identifying partial discharges in high voltage systems to prevent equipment failures and enhance safety.
- **General Industrial Maintenance:** Streamlining maintenance activities by providing precise detection and recording capabilities.

Technical Data

Acoustic	
Microphones	64 low-noise MEMS microphones
Bandwidth	0 kHz to 96 kHz
Distance	0.3m~100m
Acoustic Image Palette	White Black, Black White, Rainbow, Fusion, Ironbow, Red Black, Rain, Blue Red
Dynamic Range	Low Limit: <-15dB High Limit: >120dB
Leak Rate	>0.008 l/min @ 6 bar from 0.5 m >0.013 l/min @ 5 bar from 1 m
Discharge Detection	Automatic detection 50 / 60 Hz
Discharge Type	Corona Discharge, Particle Discharge, Floating Discharge, Surface Discharge

Data Storage and Communication	
Storage Media	Removable 64 GB SD Card
Image Storage Capacity	20,000 images
Annotations	Voice note: max. 60 seconds; Text note: max. 255characters
Video Storage Capacity	60 hours
Video File Format	MP4

General	
Display	800 × 480 Resolution, 4.3'LCD Touch Screen
Digital Zoom	1.0x to 16.0x continuous
USB Interface	USB Type-C
HDMI Interface	HDMI-D
Battery Operating Time	Approx. 3.5 hours
Battery Type	Dis-mountable and Rechargeable Li-ion Battery
Battery Charging Time	5 hours to full charge
Protection level	IP54
Power Supply	5V DC/2A (Charging via USB)
Working Temperature Range	-20 °C to 50 °C
Storage Temperature Range	-20 °C to 60 °C
Approvals	CE, UKCA, RCM, ICES, KC
Relative Humidity	<90 % non-condensing
Weight	Approx. 940 g
Dimension	292.2 × 127 × 110.7 mm (11.50 × 5.00 × 4.36 in)

Dimensions

Ordering

Please use the following tables to assist in placing your order with our sales staff.

S532 Acoustic Imaging Detecor

Order No.	Description
P601 0105	S532 Acoustic Imaging Detector Set Accessories including:
A654 0001	Battery packs, exchangeable, set of 3 pcs., 3.6V, 6230 mAh (22.43Wh)
A654 0002	MIC protective case, protect the MEMS microphones
A654 0003	Charger, input 100...240V AC, output 12 VDC, 2A
A654 0004	Charging base, input 12 VDC, 2A
A654 0005	Transport case S532
A554 0122	Leak tags to mark found leaks, 100 pieces
M599 7045	LMS (Leak Management Software), local installation, 1 license (bound to local PC), no subsciption, one-time payment

S532 Accessories

Order No.	Description
A554 0133	Ultrasonic Transmitter

Scope of delivery

At www.nordicfiltration.com you will find a wide selection of filtration products ready for you to order.

Nordic Filtration offers a wide selection of filtration products for water treatment. We have stock in Denmark from where we distribute all of our products to Scandinavia and the the rest of the world.

You can buy our products on local websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our website (www.nordicfiltration.com).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

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