

S532

Acoustic Imaging Detector



LEAK DETECTION

Visualize compressed air leaks in real-time



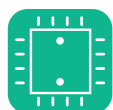
PARTIAL DISCHARGE DETECTION

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

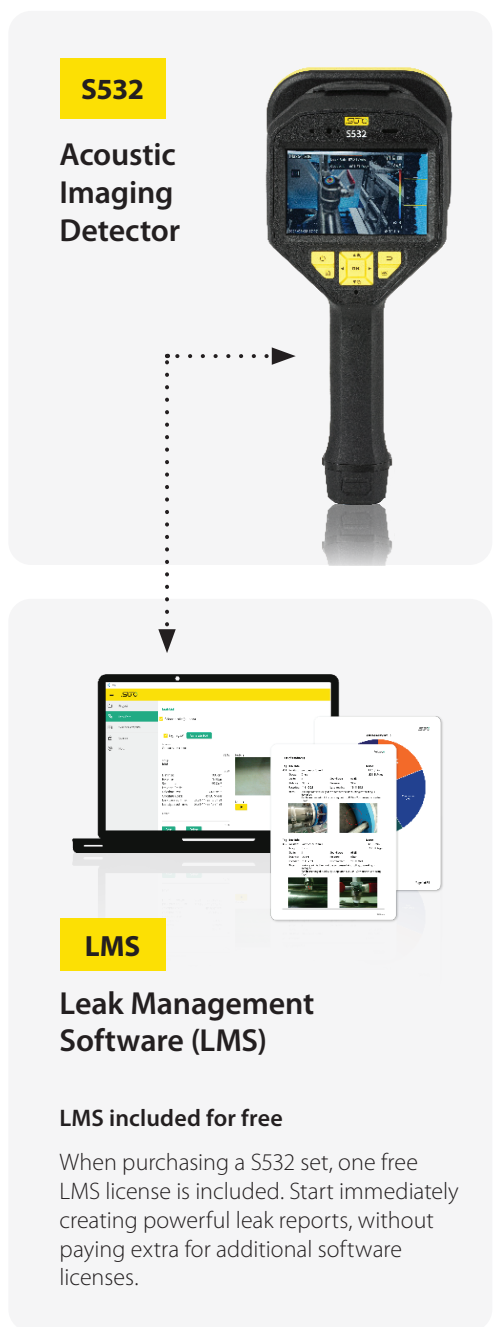
- ▶ Easy to handle and operate
- ▶ Designed for professional use

Mitigate Safety Risks and Streamline Troubleshooting

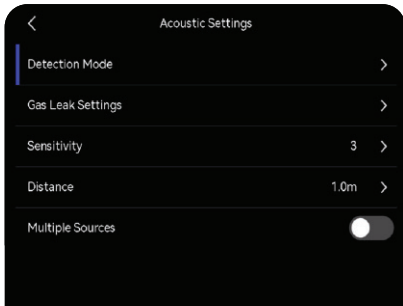
- ▶ Reduces costs associated with equipment failures and downtime
- ▶ Enhances overall operational efficiency.

Integration with SUTO Leak Management Software (LMS)

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



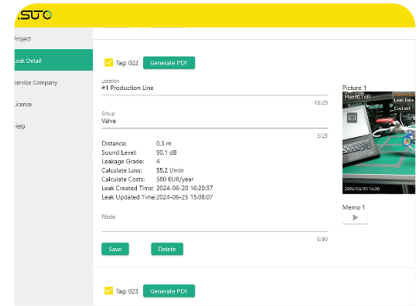
Leak Detection



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

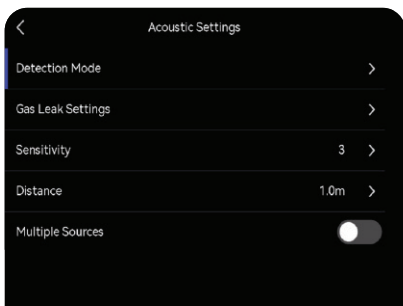


Simply hold the trigger button to capture images. Add voice memos and message notes for each leak.



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)



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 subscription, one-time payment

S532 Accessories

Order No.	Description
A554 0133	Ultrasonic Transmitter

Scope of delivery

