# S532

# Acoustic Imaging Detector

**.SUTO**

Be smart. **Measure it.**

S532

Max64.5dB | Leak Rate 57.2 L/min | Cost est. 601 EUR/yr

2024/06/28 17:07 | 11.0m

**LEAK DETECTION**
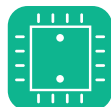Visualize compressed air leaks in real-time

**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.

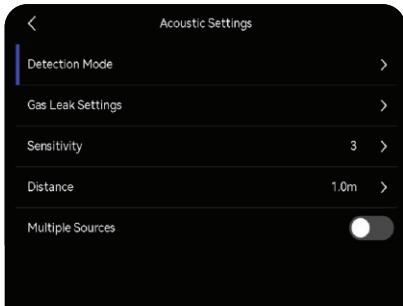**S532**

### 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.
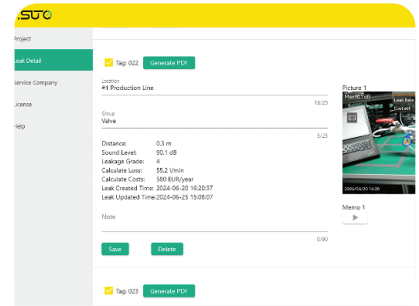
# Leak Detection



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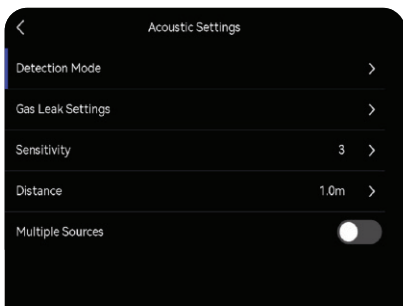


Simply hold the trigger button to capture images. Add voice memos and message notes for each leak.



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<br>High Limit: >120dB |
| Leak Rate | >0.008 l/min @ 6 bar from 0.5 m<br>>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;<br>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

127mm

292.2mm

110.7mm

# 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



Batteries    Charging base    Leak Tags

Charger    HDMI cable    USB cable    S532

**www.suto-itec.com**        **sales@suto-itec.com**