English

Instruction and operation manual

S531

Ultrasonic Leak Detector



Dear Customer,

Thank you for choosing our product.

Before you start up the device, please read this manual in full and carefully observe instructions stated. The manufacturer cannot be held liable for any damage that occurs as a result of non-observance or non-compliance with this manual.

Should the device be tampered with in any manner other than a procedure that is described and specified in the manual, the warranty is void and the manufacturer is exempt from liability.

The device is destined exclusively for the described application.

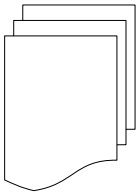
SUTO offers no guarantee for the suitability for any other purpose. SUTO is also not liable for consequential damage resulting from the delivery, capability or use of this device.

Table of Contents

1 Safety instructions 5
2 Registered trademarks.....7
3 Application.....8
4 Features.....8
5 Technical data.....9
5.1 General data.....9
5.2 Electrical data.....9
5.3 Performance data.....9
6 Scope of delivery.....10
7 Learning about the device.....11
7.1 Components.....11
7.2 Touch screen display.....12
7.3 Dimension and electrical ports.....14
8 Before you start for the first time.....15
8.1 Charging the device.....15
8.2 Performing initial setup.....15
9 Procedure of conducting a leak survey.....18
10 Setting up and Starting a leak survey.....19
10.1 Creating a survey.....19
10.2 Specifying the survey settings.....19
10.3 Starting the survey.....20
10.4 Stopping the survey.....20
11 Detecting leaks.....21
12 Recording leaks.....23
13 Managing leak records.....26
13.1 Viewing and deleting a leak record.....26
13.2 Downloading leak records to a PC.....26
14 Maintenance.....28
14.1 Self-test.....28
14.2 Updating the firmware.....28
14.3 Resetting the device.....30
14.4 Cleaning the sensor.....31
15 Optional accessories.....32
16 Disposal or waste.....32
17 Appendix: Headset overview.....33
17.1 Illustrations.....33
17.2 Headset operations.....33

17.3 Working as a wireless headset.....33
17.4 Working as a wired headset.....34
17.5 Pairing a new headset with the S531.....34
17.6 Care and maintenance.....34

1 Safety instructions



Please check if this instruction manual matches the product type.

Please observe all notes and instructions indicated in this manual. It contains essential information which must be observed before and during installation, operation and maintenance. Therefore this instruction manual must be read carefully by the technician as well as by the responsible user or qualified personnel.

This instruction manual must be available at the operation site of the leak detector at any time. In case of any obscurities or questions, regarding this manual or the product, please contact the manufacturer.



WARNING!

Compressed air!

Any contact with quickly escaping air or bursting parts of the compressed air system can lead to serious injuries or even death!

- Avoid that persons get hit escaping air or bursting parts of the system.



WARNING!

Laser pointer!

Do not point into the eyes with the laser. it can lead to serious injuries particularly on lens and retina or even blindness!

- Never look directly at the laser
- Never point the laser at persons.
- Never point the laser at smooth and reflective surfaces. This can lead to a reflection of the laser.



WARNING!

Voltage used for supply!

Any contact with energized parts of the product, may lead to a electrical shock which can lead to serious injuries or even death!



ATTENTION!

Permitted operating parameters!

Observe the permitted operating parameters, any operation exceeding this parameters can lead to malfunctions and may lead to damage on the instrument.

- Do not exceed the permitted operating parameters.
- Make sure the product is operated in its permitted limitations.
- Do not exceed or undercut the permitted storage and operation temperature and pressure.

General safety instructions

- It is not allowed to use the product in explosive areas.
- Please observe the national regulations before/during operation.

Remarks

- It is not allowed to disassemble the product.



ATTENTION!

Measurement values can be affected by malfunction!

The device must be used properly and frequently maintained, otherwise it may lead to wrong measurement values that can lead to wrong results.

- Avoid condensation on the leak detector sensor because this will affect the accuracy enormously.

Storage and transportation

- Ensure the transportation temperature is between -20 ... +50°C.
- For transportation it is recommended to use the packaging that comes with the leak detector.
- Please ensure that the storage temperature of the sensor is between -10 ... +50°C.
- Avoid direct UV and solar radiation during storage.
- For the storage the humidity must be <90%, no condensation.

2 Registered trademarks

SUTO®

Registered trademark of SUTO iTEC

MODBUS®

Registered trademark of the Modbus Organization, Hopkinton, USA

HART®

Registered trademark of the HART Communication Foundation, Austin, USA

PROFIBUS®

Registered trademark of the PROFIBUS User Organization, Karlsruhe, Germany

Android™, Google Play

Trademarks of Google LLC

3 Application

S531 is a hand-held ultrasonic leak detector that helps you quickly find and record leakages in compressed air or any gas systems.

When gases leak through tubes and tanks, an ultrasonic sound is produced. S531 can detect the sound from several-meter away, and transform the inaudible sound into a frequency that can be easily heard by ears.

In unpressurised systems, you can use an ultrasonic tone generator to generate sounds that can be detected by S531.

4 Features

- Finds leaks in the compressed air or gas system easily even from distance
- High resolution 3.5” color touch screen, easing operations in leak detection
- Wireless connection with headset
- Built-in camera to take photo of leak locations
- Voice recorder for voice memos
- Laser pointer to pinpoint leak locations
- Records leak information for statistics and repair
- Calculates air loss in l/min, m^3/h or cfm and in the local currency
- Integrated noise reduction technology
- Battery capacity for up to 8 hours

5 Technical data

5.1 General data

CE	
Principle of measurement	Ultrasonic leak detection
Measuring medium	Compressed Air, refrigerants and any compressed gases
Plug	3.5 mm stereo phone jack for headset
Operating temperature	0 ... +40°C
Battery life	About 8 hours with wireless off
Charging temperature	+10 ... +45°C
Charging time	Around 3 hours
Materials of the detector	PC + ABS
Dimensions	See section 7.3.
Interface	Wireless connection to headset USB port for charging and data exchange
Display	3.5” color LCD
Laser pointer	Wavelength: 640 ... 660 nm Output power: < 1.0 mW
Camera	5.0 megapixels
Headset	Noise isolated and wireless
Weight	3.65 kg (full set)

5.2 Electrical data

Power supply	Internal lithium-ion battery

5.3 Performance data

The table shows the detection distance of various hole diameters at different pressures in the lab environment and with the trumpet on.

Pressure / diameter	0.1 mm	0.2 mm	0.5 mm
0.5 bar	0.5 m	1.7 m	7 m
5.0 bar	3.6 m	11.5 m	18 m

6 Scope of delivery

The S531 layout in the transportation case is shown as below.



Please make sure that all components listed below are included in your package.

Qty	Description	Item No.
1	S531 leak detector	P560 0104
1	Noise isolated/canceling wireless headset (page 33)	A554 0119
1	Focus tube and focus tip (used for leak detection)	A530 0101
1	Trumpet (used to increase sensitivity and isolate from environmental noise)	A554 0123
1	Battery charger	A554 0117
1	Type-C USB stick	A554 0124
1	Transport case	A554 0118
1	Leak tags to mark found leaks, 100 pieces	A554 0122
1	Instruction manual	NA
1	Calibration certificate	NA

Optional accessories not included in the set:

1	Ultrasonic tone generator	A554 0103
1	Calibration for S531	R200 0070

7 Learning about the device

This chapter introduces the S531 components and their functions.

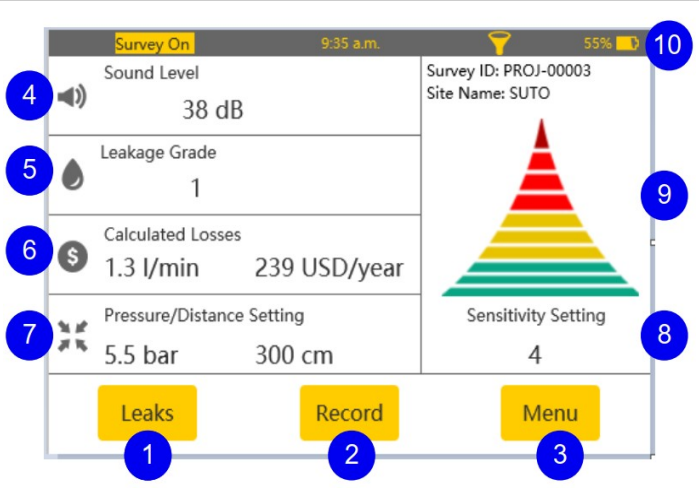
7.1 Components



Part	Function
1	**Power button**: Long press to turn S531 on or off. It also works as a shortcut button for taking photos in leak detection.
2	**Voice recording button**: Press to record voice memos in leak detection.
3	**Laser button**: Press to turn laser on or off.
4	**Sensitivity wheel**: Turn the wheel to fine tune the sensitivity level.
5	**Touchscreen**: for further functions
6	**Sensor unit**: To detect the ultrasonic sound level. To increase the sensor sensitivity, mount on the trumpet.

7.2 Touch screen display

The 3.5” touch screen enables you to record and manage leak records as well as configure S531 easily.



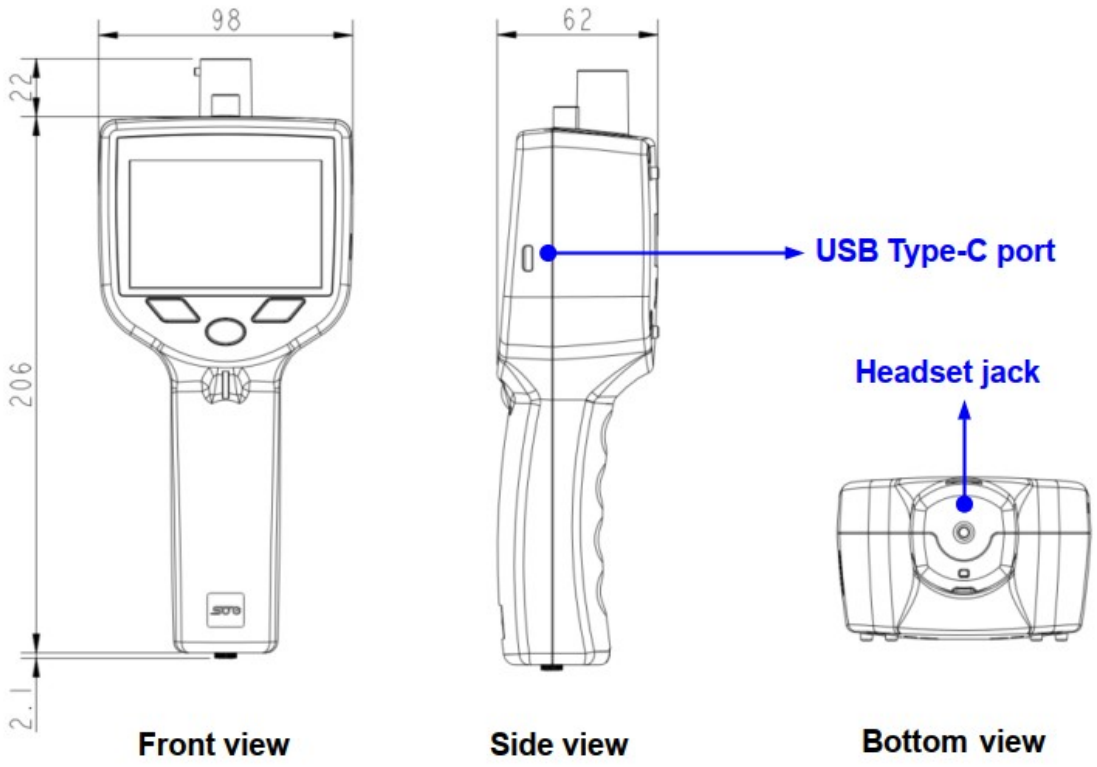
Part	Function
1	**Leaks button** Click to view and/or delete the leak records.
2	**Record button** Click to record a detected leak by recording voice memos and taking photos.
3	**Menu button** Click to perform additional actions. For more details, please see the following chapters.
4	**Sound Level** Shows the sound intensity in dB. Range: 0 … 99.
5	**Leakage Grade** Shows the grade of the detected leakage: • Grade 0: Leakage = 0 l/min • Grade 1: 0 < Leakage ≤ 1 l/min • Grade 2: 1 < Leakage ≤ 4 l/min • Grade 3: 4 < Leakage ≤ 9 l/min • Grade 4: Leakage > 9 l/min
6	**Calculated Losses** Shows the detected leakage and the loss amount in cash per year. Leakage is calculated based on the sound level detected as

Part	Function
	well as the pressure and distance settings.
7	**Pressure / Distance Setting** Shows the latest settings for the pressure in the detected object and the distance between the S531 sensor and the leak point. You can change the settings by touching the numbers on the touch screen.
8	**Sensitivity Setting** Shows the sensitivity level. You can adjust the setting by turning the sensitivity wheel.
9	Indicates the intensity of the sound that the S531 detects: Red strongest, yellow the less, and green the least. You can see the actual sound level in DB in the **Sound Level** area.
10	**Status bar** Shows the status, including the following icons: • Survey on: Displayed when a survey is in progress. • Trumpet: Displayed when the trumpet is mounted on and well connected with the sensor. • Battery capacity indicator: Shows the battery percentage. • Laser: Displayed when the laser pointer is turned on.

7.3 Dimension and electrical ports

As shown in the following figure, S531 comes with two electrical connectors：

- USB Type-C port: On the right-hand side of the S531 body, used to charge the S531 and transfer data.
- Headset jack, At the bottom of the S531 handle, reserved to connect the wireless headset in case it has low battery.



8 Before you start for the first time

Before you use a new S531 to detect leaks for the first time, charge the device and perform the initial device setup.

8.1 Charging the device

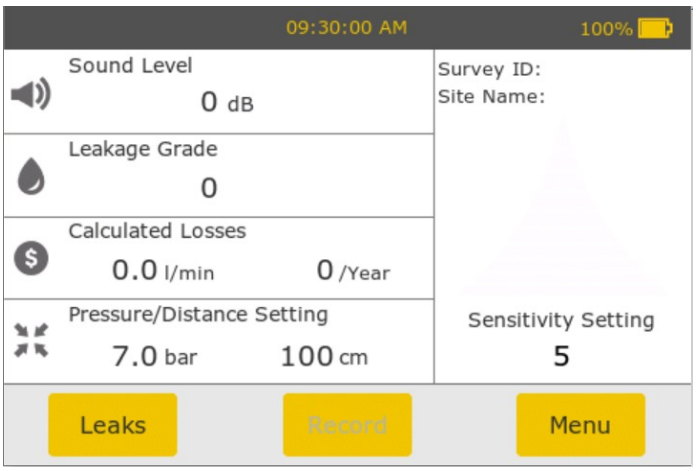
S531 is a battery-powered device and shipped with a partially charged battery. If the battery power is low, charge it via the USB Type-C port on the right-hand side of the device. Please use the USB cable and one of four charging adapters supplied in the delivery package to charge.

8.2 Performing initial setup

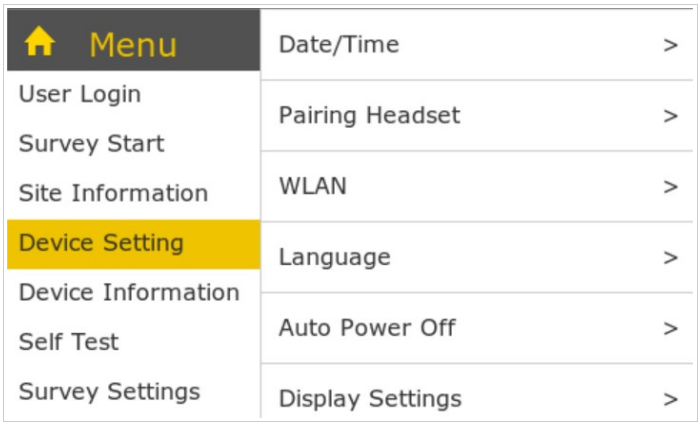
Steps:



1. Turn on the S531 by pressing the Power button for a few moments.



The start-up process starts. When the process is completed the home screen appears, as shown on the left.



2. Access **Menu** > **Device Settings**

3. Click **Language** and specify the device language.

4. Click **Date/Time** and specify the data, time, and time zone.

Note: Wrong settings will lead to wrong date and time in a leak record.

5. To enable the wireless headset, do the following:

   A. Click **Pairing Headset** and then turn on the **Wireless Headset** toggle.

   B. Power on the headset by pressing and holding the Power button for 3 seconds.

   After wireless connection is built, the message "EDIFIER W860NB connected" appears on the S531 screen.

Note: The headset is paired with the S531 before delivery. The S531 can work with only the wireless headset provided by SUTO. When you purchase a new headset from SUTO, you must pair it with your S531 on your own. For more information about the headset and its operations, see Appendix: Headset overview.

6. To enable the device to play the voice recordings from the wired headset, click **Speaker Settings**, and then turn on the <**Headset voice recording playback**> toggle. To adjust the volume, move the **Headset Volume** slide.

Note: The device cannot play the voice recordings through the wireless headset.

7. To enable the device play the voice recordings from the device speaker, click **Speaker Settings**, and then keep the <**Headset voice recording playback**> toggle turned off. To adjust the volume, move the **Internal Speaker Volume** slide.

8. To adjust the volume of the leakage sound, click **Speaker Settings**, and move the **Sensor Headset Volume** slide.

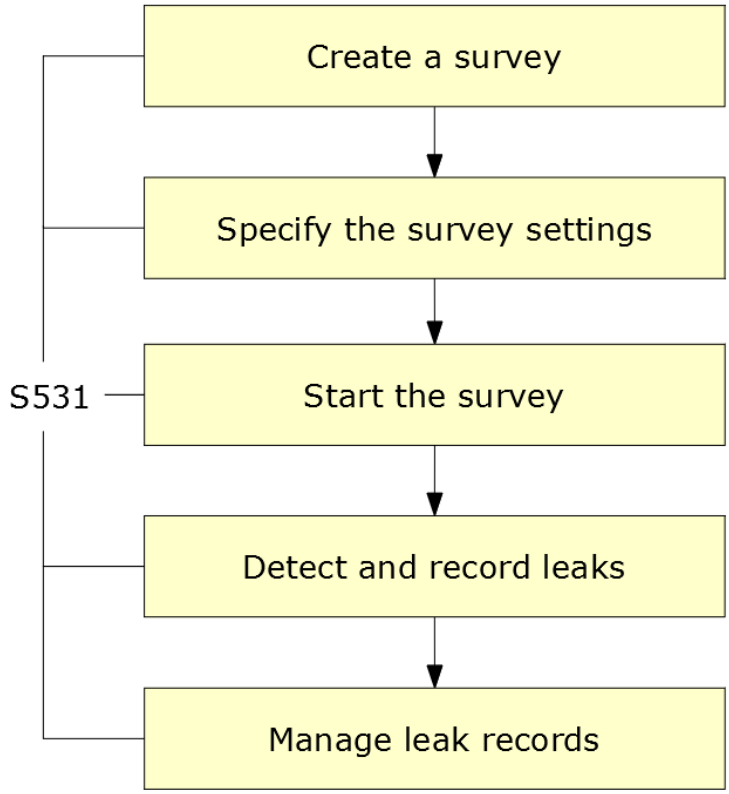
Note: The leakage sound is converted from the ultrasound of the leak, and can be played only through the headset.

9. Click **Display Settings** and adjust the display brightness.

10. Click **Beeper Settings** and adjust the volume of pressing buttons.

Note: By clicking the  icon on the top left side, you can return to the home screen.

9 Procedure of conducting a leak survey



Steps:

1. Creating a survey
2. Specifying the survey settings
3. Starting the survey
4. Detecting leaks and Recording leaks
5. Managing leak records

10 Setting up and Starting a leak survey

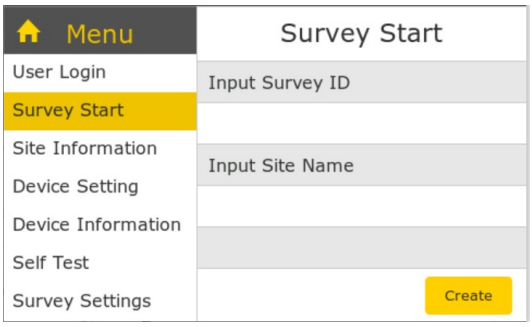
A leak detection project is managed by "survey". To conduct leak detection, the first step is to create and start a leak survey. Detailed steps are as follows:

1. Creating a survey
2. Specifying the survey settings
3. Starting the survey

10.1 Creating a survey

To conduct a leak survey for a site, you must first create the survey in the S531.

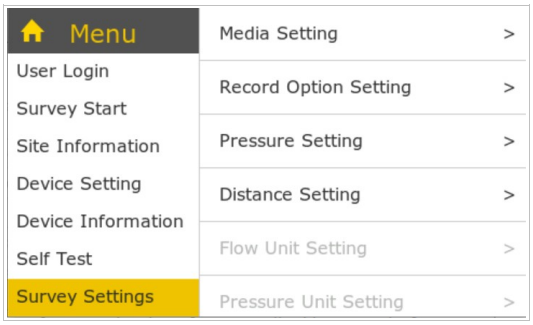
Steps:



1. Access **Menu** > **Survey Start**.
2. Enter the survey ID and site name.
3. Click **Create**.
4. In the *Confirmation* pop-up window that appears, check the input information, and if correct, click **Yes**.

10.2 Specifying the survey settings

After you create a survey, specify the site-specific survey settings, such as media, pressure, distance, and units of flow, pressure and currency.



1. Access **Menu** > **Survey Settings**.
2. Click **Media Setting**, and configure the gas media to be detected.
3. Click **Pressure setting**, and Configure the pressure of the to-be-detected media.
4. Click **Flow Unit Setting**, and select from m3/h, l/min and cfm (default: l/min).

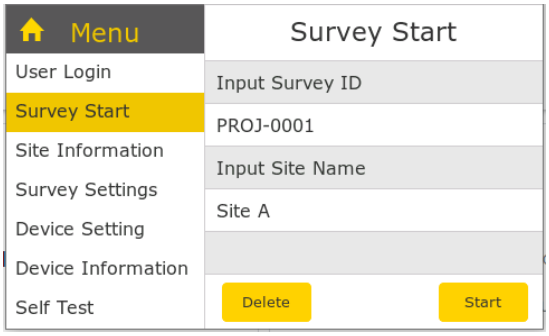
5. Click **Pressure Unit Setting**, and select from bar, psi, MPa (default: bar).

6. Click **Cost Setting**, and configure cost related settings, such as the operating hours per year (default: 6400), currency unit in the alphabetical code stipulated in ISO 4217 (*for example*, USD for the US currency and CNY for the Chinese currency. Default: USD), and cost per cubic meter (default: 0.02).

Note: Once the survey is started, the currency unit cannot be changed. To change it, you must create a new survey.

10.3 Starting the survey

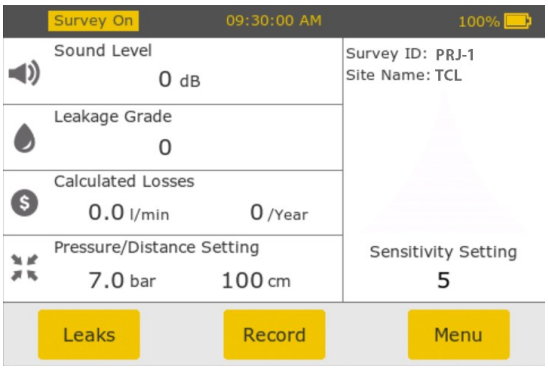
After you create a survey and specify its settings, now you can start the survey to enable the leak detection and recording on the S531.



1. Access **Menu** > **Survey Start**.

2. On the *Survey Start* screen that appears, click **Start**.

3. In the *Confirmation* pop-up window, check the survey information. If correct, click **Yes** to confirm.



Now the *Record* button on the home screen is enabled and the "Survey On" status is shown on the left top of the screen.

10.4 Stopping the survey

Stop the survey to trigger the S531 to store the leak records detected in this survey into a CSV file.

1. Access **Menu** > **Survey Stop**.
2. Click **Stop**.

   The *Record* button is disabled on the screen.

11 Detecting leaks

After you start a survey, now you can use the S531 to detect and record leaks for the survey.

The following steps describe a recommended procedure of detecting a leak.



1. After a survey is started, the home screen is shown as the left-hand side.

Notes:

- The laser pointer is off by default.
- You can change the sensitivity by turning the sensitivity wheel.



2. To turn on the laser, press the **Laser** push button as shown on the left-hand side.

Note: To avoid laser injury, the S531 allows you to turn on the laser only when the home screen is displayed on the touchscreen. If you enter other screens, the laser will be automatically turned off.



3. Point at a suspected leak with the laser. The leakage grade and leak amount are shown on the touch screen.



4. Mount the trumpet on the sensor and locate the rough leak range.



5. When you are close to the leak point, mount the focus tube and focus tip onto the sensor, and scan with the focus tip until the exact location is found.

Note: The focus tube and tip are used for leak detection, not for leak measurement.

12 Recording leaks

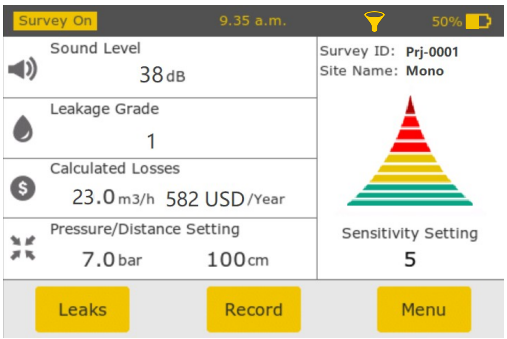
Once you detect the exact position of a leak point, you can start to record the leak data.

ATTENTION!

The calculation of leak losses depends on many factors including pressure, distance, background noise and so on. To get accurate results, we recommend you record leaks at a fixed distance of not more than 1 m and with the trumpet on.

You can detect leaks from a distance, but keep in mind that recording loss estimation is best done at a close distance.

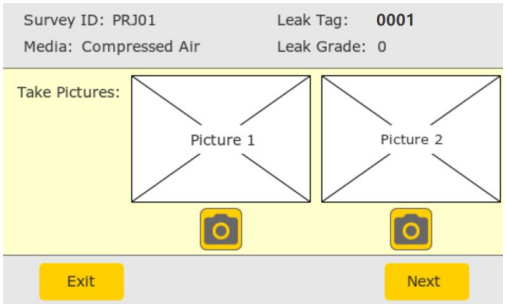
Recommended steps:



1. Keep the trumpet mounted on.

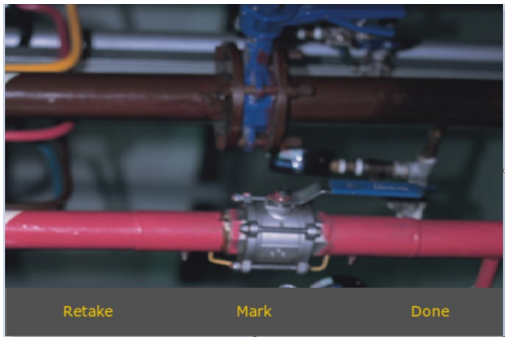
2. Touch the distance value on the screen and enter an estimated value for the distance between the sensor and the leak point. Not more than 1 meter is highly recommended.

3. Ensure that the pressure value is correct. Otherwise, revise it on the touchscreen.



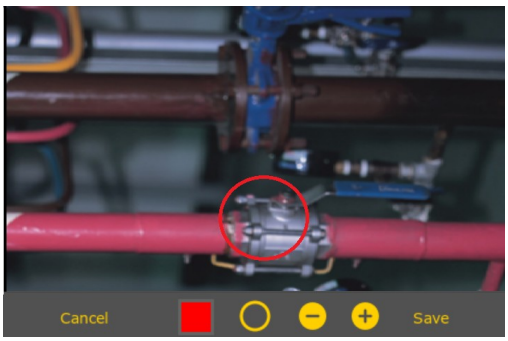
4. When you find the exact position, click the **Record** button on the screen.

As shown on the left, a leak record is created for the leak point. This record is assigned with a unique leak tag (*for example*, 0001) and has the leak loss calculated.



5. Point the S531 towards the leak point, and click the **Camera** icon or press the push button to take a photo of the detected leak point.

6. To highlight areas in the photo, click **Mark.**



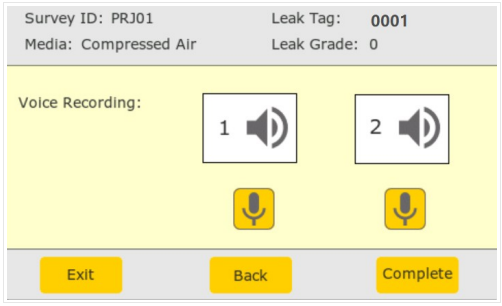
7. Tap the red **Square** icon until it switches to the desired color, and then click the **Circle** icon to add an circle in the chosen color to the photo.

8. Drag the circle to the area that you want to highlight. To adjust the circle size, click the + or – icon.

9. Click **Save** and then **Done** to save the photo.

Note: A maximum two photos are allowed for a leak record.

10. Click the **Next** button.

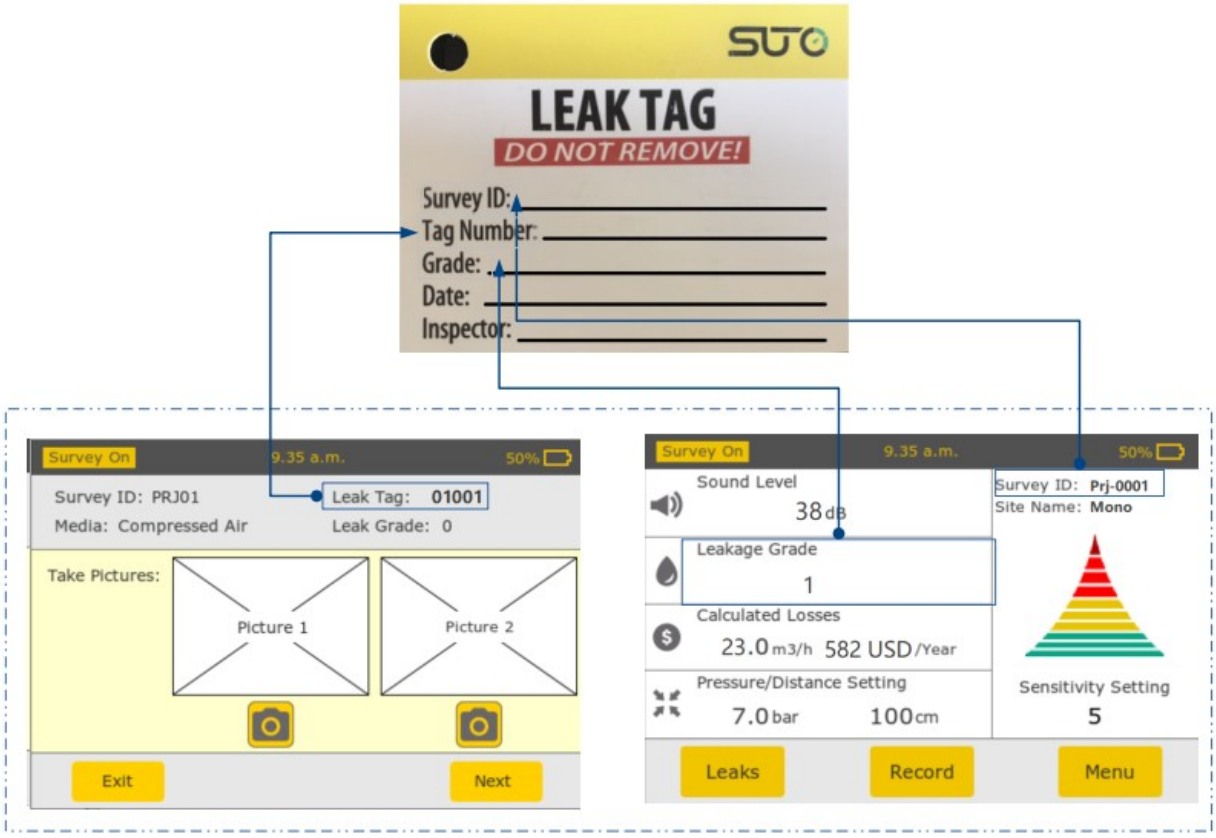


11. On the left-hand screen that appears, click the **Microphone** icon or press the push button on the device to record a voice memo for the leak point.
Two voice memos are allowed for a leak, and each can last up to 1 minute.

12. Click the **Complete** button.

13. In the *Confirmation* pop-up that appears, click the **OK** button to save the record and exit.

14. Fill out the paper leak tag, and then tie it near the leak point.



Note: To view detailed information in a leak record, click the **Leaks** button on the home screen. For more information, see Chapter 13 Managing leak records.

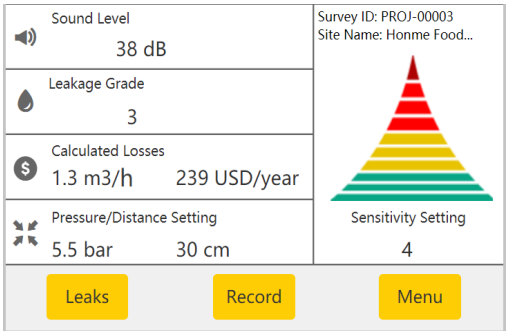
13 Managing leak records

After a leak is recorded in the S531, you can review the leak record, and if needed delete the leak and record again.

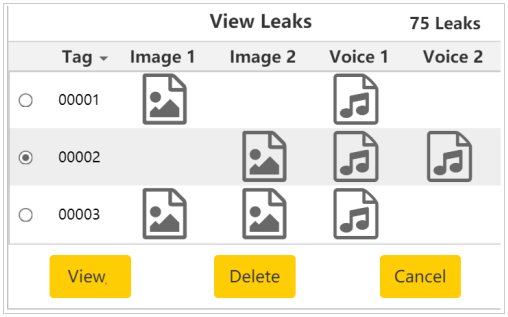
To analyze leaks, you can also download all leak data in a survey from the S531 to a PC.

13.1 Viewing and deleting a leak record

You can view a leak record in the S531, and if you are not satisfied with the leakage data, you can delete the leak record and record again.

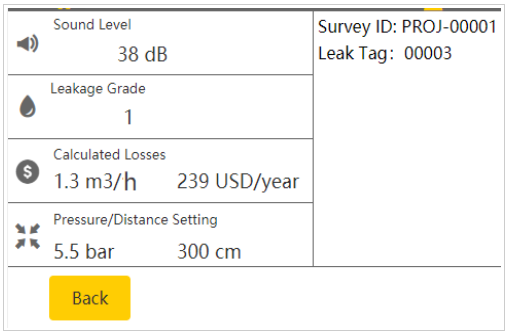


1. On the home screen, click the **Leaks** button.
The *View Leaks* screen appears with the list of leak records displayed.



2. To review a photo or a voice recording in a leak record, click the corresponding icon on the screen.

3. To view the leak data stored in a record, select the record, and then click the **View** button.



4. View the detailed leak data.

5. (Optional) If you find the pressure or distance setting is not correct, return to the *View Leaks* screen and delete the record. Then you can perform a detection again on the home screen.

13.2 Downloading leak records to a PC

The S531 enables you to download the leak records to a PC for further analysis. In the S531, leak records detected in different surveys are stored in the sub-folders under the .\records folder by the survey ID.

Steps:

1. Access **Menu**> **Survey Stop**, and then stop the current survey.

   Note: If you do not stop the survey, the .CSV files cannot be updated. If you ever deleted or added any leak records, make sure that you stop the survey before downloading leak records.

2. Connect the S531 to a PC using the supplied USB cable.
3. On the PC, double click **My Computer**.

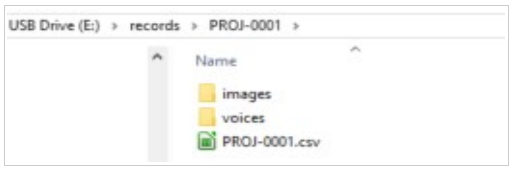
   Note: On the PC, the S531 is identified as a USB drive. When the S531 is connected to a PC for the first time, the S531 driver will be automatically installed on the PC.

4. Access the S531 USB drive.
5. Enter the **.\records** folder.

   This folder contains detected data of all surveys. Each of its sub-folders corresponds to a survey and is named with the survey ID.

6. Enter a survey folder as needed.

   A survey folder stores all leak data that the S531 has recorded for this survey, and is structured as below.



   - *<SurveyID>.csv* stores leak data recorded in this survey.

     Note:The CSV file is generated only after the survey is stopped.

   - The *images* folder contains all photos taken in this survey.

     Note: One camera snapshot produces photos in two resolutions, *.JPG format for the high resolution and *.bmp for the low resolution.

   - The *voices* folder contains all voice recordings taken in this survey (*.WAV format).

     The image and voice files are named in the form of *<Leak Tag No>A* or *<Leak Tag No>B (for example, 00001A.jpg and 00001B.wav)*.

7. Copy the desired survey folders to the local.

14 Maintenance

This chapter describes the basic maintenance operations.

14.1 Self-test

When a certain peripheral does not work normally, use the self-test function to test and locate errors. The peripherals supported include:

- Display
- Microphone
- Speaker
- Camera

Access **Menu** > **Self Test**, and perform self-test on a peripheral as needed.

14.2 Updating the firmware

S531 firmware consists of device firmware and sensor firmware. When a new version of the device or sensor firmware is launched, you can download it from our Website upon notice, and then update the firmware on your own.

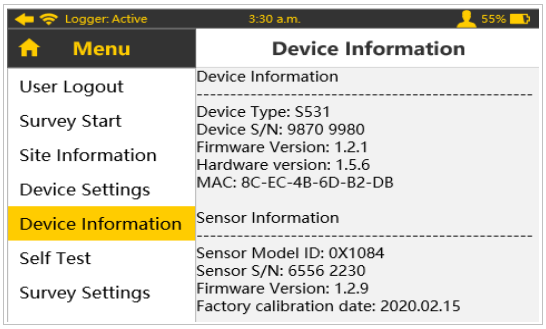
The steps for updating these two types of firmware are basically the same. The following gives an example of updating the device firmware.

Notes:

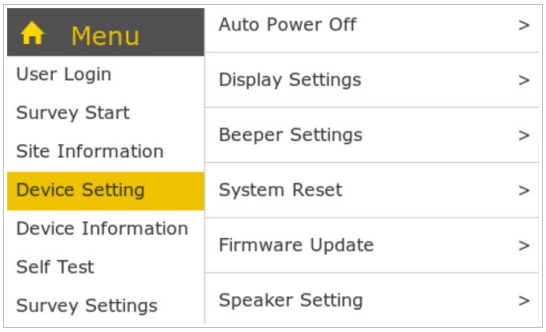
- After the device firmware is updated, it has the following impacts:
  - The user settings are reset to the factory defaults.
  - The leak data (except the photo, voice recording and CSV files) before the update will be deleted from the S531. To avoid losing the leak data, before the update, please generate the leak data into a CSV file by performing Stopping the survey.
- The sensor firmware update does not have the preceding impacts.

Preparation: Copy the new firmware to the root directory of the Type-C USB stick that is supplied in the delivery package.

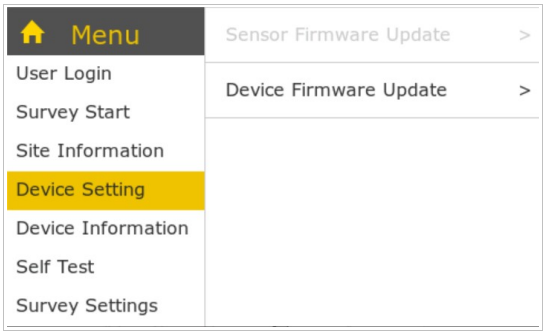
Steps:



1. Access **Menu** > **Device Information** to view the current firmware version.

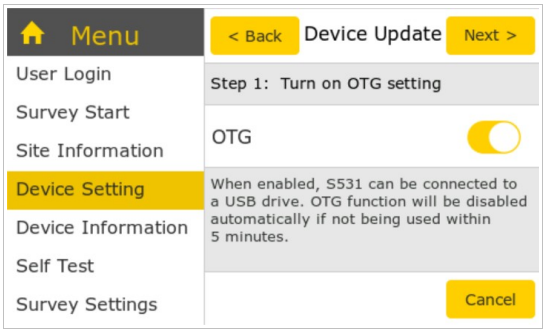


2. Access **Menu** > **Device Setting** > **Firmware Update**.



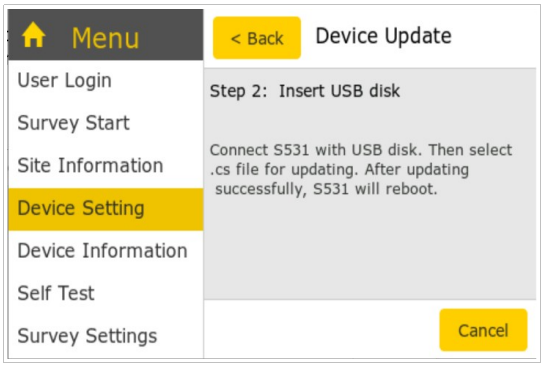
3. On the screen that appears, click **Device Firmware Update** as needed.

Note: To update the sensor firmware update, click **Sensor Firmware Update**.

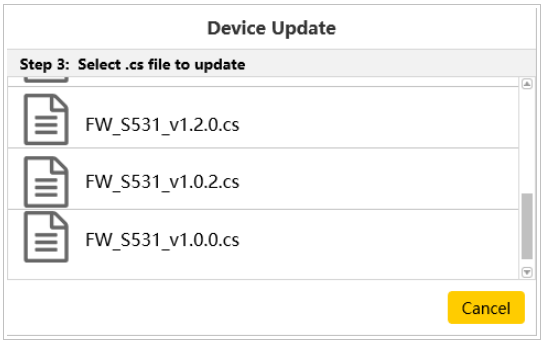


4. On the Device Update screen, turn on the **OTG** toggle.

5. Click the **Next >** button on the top right corner to proceed.

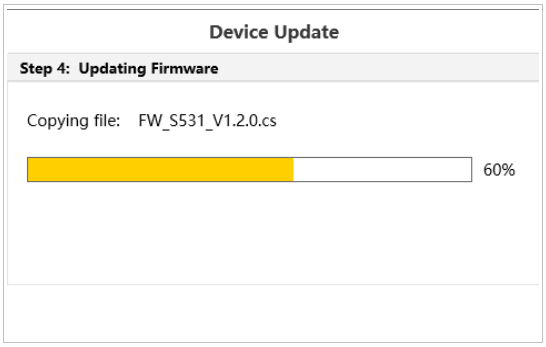


6. Insert the prepared USB stick to the S531.



7. On the screen that appears, you can see the files in the root directory of the USB stick. Navigate to the desired firmware file and single click to select.

8. In the *Confirmation* pop-up that appears, click **Yes** to start the update.



9. Wait until the firmware update is completed.
After the update process is completed, the S531 restarts automatically.

14.3 Resetting the device

In case you want to restore the ex-factory settings, you can perform the system reset.

Access **Menu** > **Device Settings** > **System Reset**. It takes about five seconds to complete the reset process.

Note: After the device is reset, all settings will be reset, but the leak records including photos and voice recordings will not be deleted.

14.4 Cleaning the sensor

To clean the sensor and its accessories, you are recommended to use moist cloth only.



ATTENTION!

Do not use isopropyl alcohol to clean the sensor and its accessories!

15 Optional accessories

Ultrasonic tone generator is an optional accessory that is used in pressure-less systems. The generator emits ultrasonic waves that can be detected by S531.



Specification

- Frequency: 40 kHz ± 10%
- Automatically shut-down after 10 min ± 20%
- Power supply internal: E-Block 6LR61 9 V



Application example

To detect leaks at a tank, place an ultrasonic tone generator inside the tank, the ultrasonic that is produced by the generator can flow through leaks and be detected by S531.

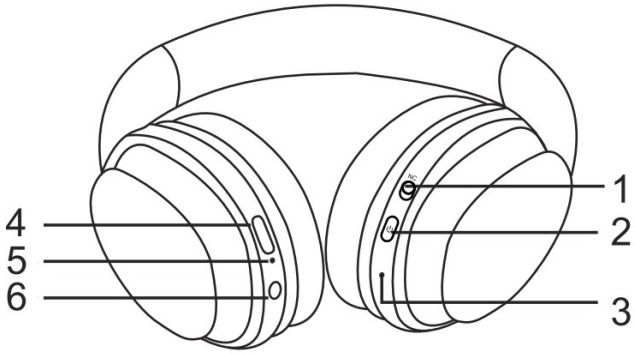
16 Disposal or waste



Electronic devices are recyclable material and do not belong in the household waste.
The sensor and its accessories and packings must be disposed according to your local statutory requirements.
The dispose can also be carried by the manufacturer of the product. Please contact the manufacturer for details.

17 Appendix: Headset overview

17.1 Illustrations



Part	Description
1	Noise cancellation toggle Green: Noise cancellation is on.
2	Power button
3	Indicator (see section 17.2.)
4	Micro USB charging port
5	Charging indicator: - Flashing red: low battery - Solid red: charging. Turned off when fully charged.
6	3.5 mm connector

17.2 Headset operations

Function	Operation	Indicator
Power on	Press and hold the power button for 3 seconds.	Blue light constantly lit for 1 second
Power off	Press and hold the power button for 3 seconds.	Red light constantly lit for 1 second

17.3 Working as a wireless headset

The headset is paired with S531 device before delivery. Do the following to set up the wireless connection:

1. Press and hold the power button for 3 seconds to power on the headset.
2. Enable the wireless headset function in the S531 by below steps:

A. Navigate to **Menu** > **Device Setting** > **Pairing Headset**.

B. Switch on the **Wireless Headset** toggle.

After successfully connected, the message "EDIFIER W860NB connected" appears on the S531 screen.

Note: For the purpose of automatic wireless connection, please do not press and hold the power button in the headset for more than 3 seconds. A long press for 5 seconds brings the headset into the pairing mode. In this mode the headset cannot connect to the S531 automatically.

17.4 Working as a wired headset

When the headset runs out of battery, use the audio cable provided in the delivery package to connect the headset to the S531.

17.5 Pairing a new headset with the S531

If you purchase a new headset from SUTO, you must pair the new headset with your S531. Detailed steps are as follows.

1. Press and hold the power button for 5 seconds to to enter the pair mode.

   When pairing, blue and red light blinks alternately.

2. In the S531, enable the wireless headset function using below steps:

   A. Navigate to **Menu** > **Device Setting** > **Pairing Headset**.

   B. Switch on the **Wireless Headset** toggle.

3. Click **Refresh**. The S531 scans for a new headset and shows "**EDIFIER W860NB**".

4. Click "**EDIFIER W860NB**" to pair with this headset.

   When the S531 and the headset is paired, the S531 screen shows "EDIFIER W860NB connected". You can hear a prompt tone in the headset and its blue indicator blinks slowly.

17.6 Care and maintenance

- Keep the product away from humid places to avoid damaging the internal circuit.
- Do not put the product in places exposed to sun or in high

temperature. High temperature will shorten service life of electronic components, damage battery and deform plastic components.

- Do not put the product in cold places to avoid damaging the internal circuit board.
- Do not dismantle the product. Non-professional personnel ma damage the product.
- Do not drop, vibrate strongly, strike the product with hard objects to avoid damaging the internal circuit.
- Do not use drastic chemicals or cleaner to clean the product.
- Do not use sharp objects to scratch product to avoid damaging the shell and affecting the product appearance.



WARNING!

To guarantee your personal safety, please do not wear or keep headphones in the vicinity (closer than 10 cm) of a pacemaker.



ATTENTION!

The maximum charging voltage is 5 V.
Inappropriate charging may cause severe damage, fire or electrocution hazard.

SUTO iTEC GmbH
Grißheimer Weg 21
D-79423 Heitersheim
Germany

Tel: +49 (0) 7634 50488 00
Fax: +49 (0) 7634 50488 19
Email: sales@suto-itec.com
Website: http://www.suto-itec.com

SUTO iTEC (ASIA) Co., Ltd.
Room 10, 6/F, Block B, Cambridge Plaza
188 San Wan Road, Sheung Shui, N.T.
Hong Kong

Tel: +852 2328 9782
Fax: +852 2671 3863
Email: sales@suto-itec.asia
Website: http://www.suto-itec.com

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