



# Acoustic Leak Detector

User Manual



Contact Us

# Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

## Laws and Regulations

- Use of the product must be in strict compliance with the local electrical safety regulations.

## Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- DO NOT drop the product or subject it to physical shock. Keep the device away from magnetic interference.

## Power Supply

- If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with *Limited Power Source*. Refer to the product label for the power supply output parameters.
- Input voltage for the device should meet the Limited Power Source (12 VDC, 1.6 A) according to the IEC62368 standard. Please refer to technical specifications for detailed information.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.

## Battery

- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only. Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically

- crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- The built-in battery cannot be dismantled. Please contact the manufacturer for repair if necessary.
- For long-term storage of the battery, make sure it is fully charged every 3 months to ensure the battery quality. Otherwise, damage may occur.
- Use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.
- In the first use, charge the device for more than 4 hours in the power-off status.

## Maintenance

- DO NOT maintain the camera when it is powered on, or it may cause electric shock!
- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Please notice that the current limit of USB 3.0 PowerShare port may vary with the PC brand, which is likely to result in incompatibility issue. Therefore, it's advised to use regular USB 3.0 or USB 2.0 port if the USB device fails to be recognized by PC via USB 3.0 PowerShare port.

## Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -10 °C to 50 °C (14 °F to 122 °F), and the operating humidity shall be 90% or less.
- Place the device in a dry and well-ventilated environment.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT expose the device in wet conditions.

## Technical Support

The <https://www.hikmicrotech.com/en/contact-us.html> portal will help you as a HIKMICRO customer to get the most out of your HIKMICRO products. The

portal gives you access to our support team, software and documentation, service contacts, etc.

## Emergency

If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

## Limited Warranty

Scan the QR code for the product warranty policy.



## Manufacture Address

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang 310052, China

Hangzhou Microimage Software Co., Ltd

# Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

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# 1 Overview

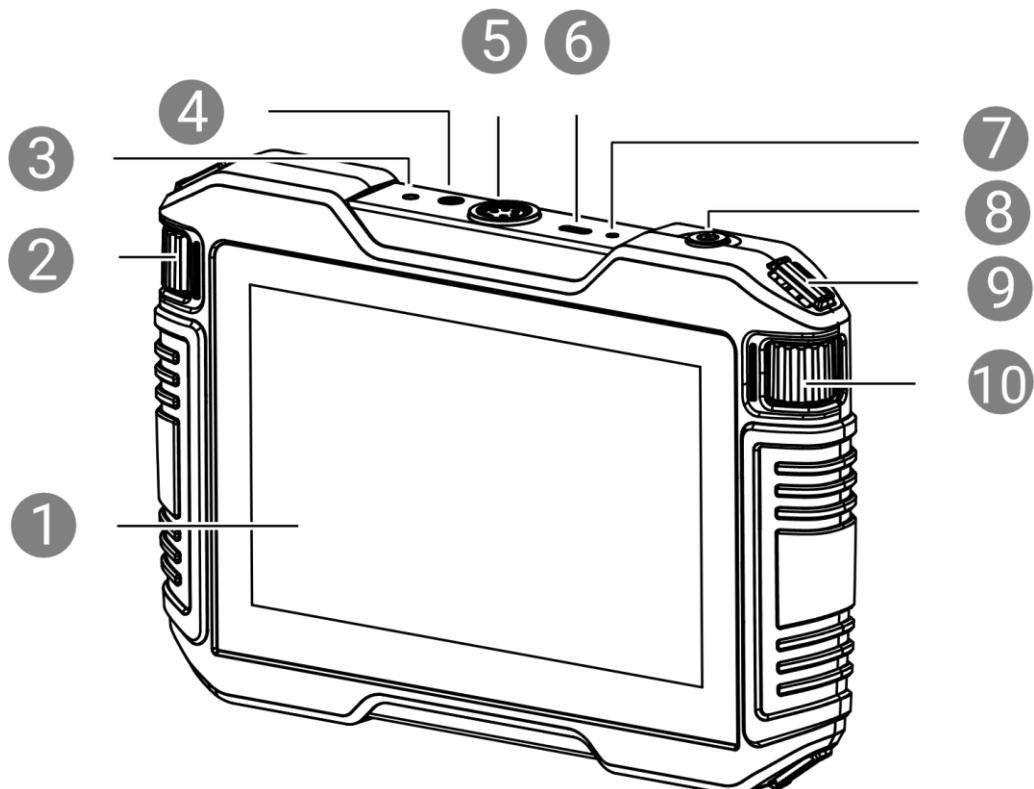
## 1.1 Device Description

The acoustic leak detector is a high-performance device designed for technicians and plumbers to find leaks in plumbing, water service, and residential or commercial properties.

The device supports 4 levels of frequency range and sound amplification to help you locate the leakage points accurately.

With its handheld and pick-up sensors, the device can be used to find hidden leaks in more diverse scenarios.

## 1.2 Appearance



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Figure 1-1 Device Main Body

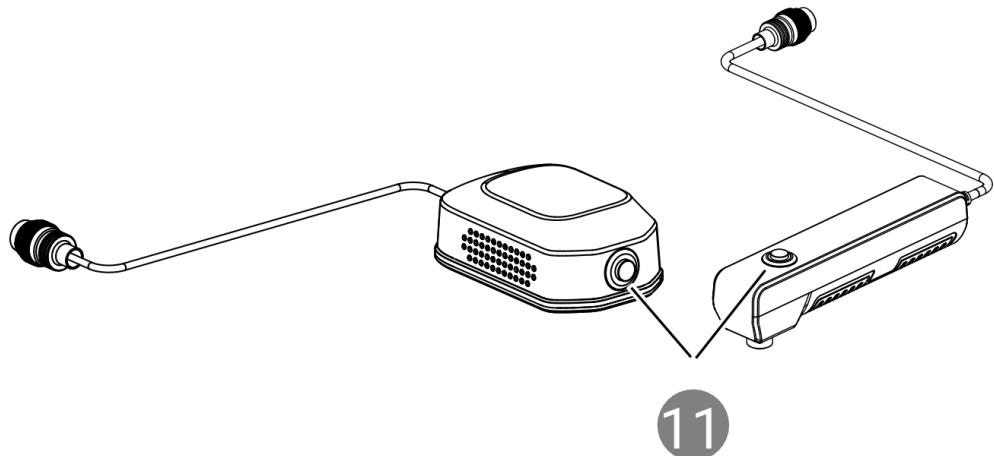


Figure 1-2 Handheld and Pick-up Sensor

Table 1-1 Buttons and Interfaces Description

No.	Component	Function
1	Touch Screen	Show the live view interface. Touch-screen operation.
2	Volume Wheel	Adjust the headset volume.
3	Reset Key	Press to reset the device.
4	Headset Jack	Connect the headset to the device.
5	Sensor Interface	Connect the handheld sensor or pick-up sensor to the device.
6	Type-C Interface	Charge the device or export files with Type-C cable.   The power delivered by the charger must be between min 6.7 Watts required by the radio equipment, and max 10 Watts in order to achieve the maximum charging speed.
7	Indicator	Indicate the charging status of the device. ● Solid red: charging normally ● Solid green: fully charged
8	Power Key	Press: standby mode/wake up device Hold: power on/off
9	Neck Strap Attachment Point	Mount the neck strap.

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No.	Component	Function
10	Frequency Wheel	Switch the frequency range according to the detection environment.
11	Sound Collection Button	<p>Hold to start receiving the audio signals from the handheld sensor or the pick-up sensor and release to stop receiving the audio signals.</p>  <p>The function is configurable. See <i>2.5 Adjust Function of Sound Connection Button</i> for instruction.</p>

## 2 Preparation

### 2.1 Assemble Accessories



- Tighten all the connectors to prevent to damage the equipment.
- Please assemble the accessories as request. If you need to detect the leaks in the wall, you can select to mount the pick-up sensor. If you need to detect the leaks under the ground, you can select to mount the handheld sensor.

#### 2.1.1 Mount the Neck Strap

1. Thread one end of the neck strap through an attachment point of the device and fasten it.
2. Repeat step 1 to finish mounting the neck strap.
3. Adjust the tightness accordingly.

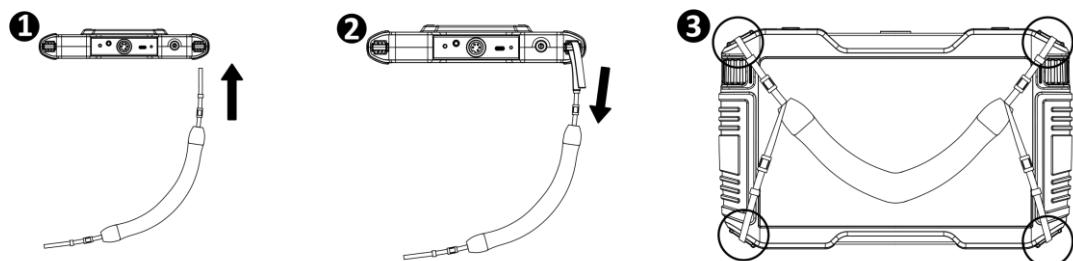


Figure 2-1 Mount the Neck Strap

#### 2.1.2 Mount the Handheld Sensor

Handheld sensor is often used to detect leaks in the wall.

1. Insert the aviation connector of the handheld sensor into the sensor interface of the device.
2. Turn the aviation connector clockwise to tighten it.
3. (Optional) Turn the listening stick clockwise to tighten it.



The listening stick is optional. Use the stick to reach down some narrow gap.

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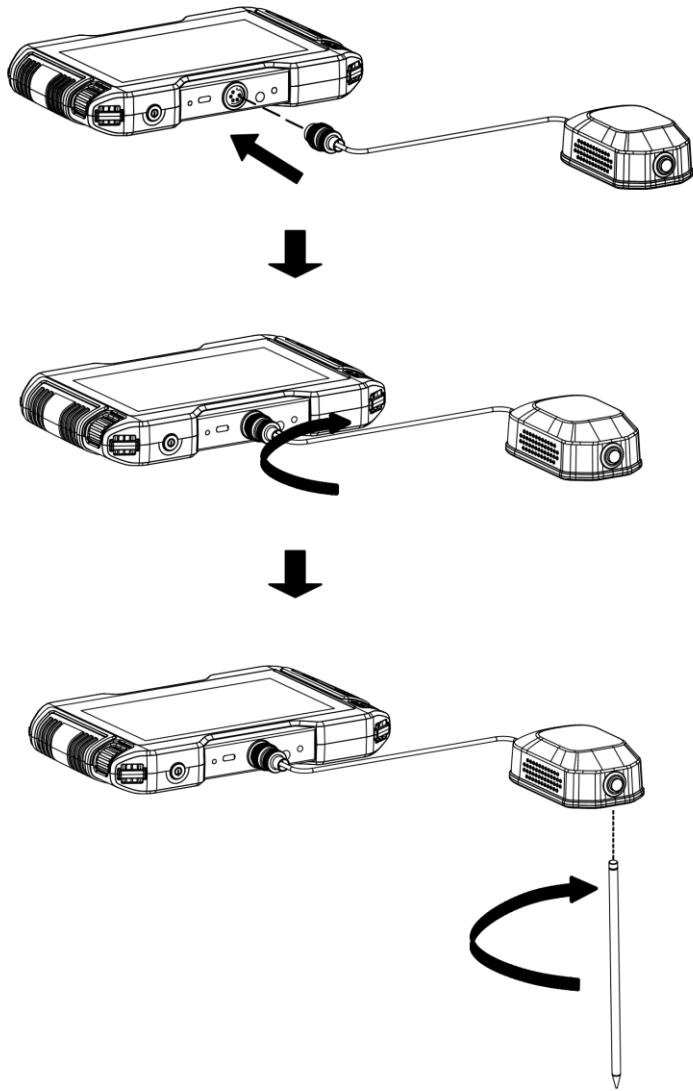


Figure 2-2 Mount the Handheld Sensor

## 2.1.3 Mount the Pick-up Sensor

Pick-up sensor is often used to detect leaks under ground.

1. Connect two aviation connectors of the sensor connection cable with the handle grip and the pick-up sensor.
2. Turn clockwise to tighten them.

3. Insert the aviation connector of the handle grip into the sensor interface of the device.
4. Turn the aviation connector clockwise to tighten it.

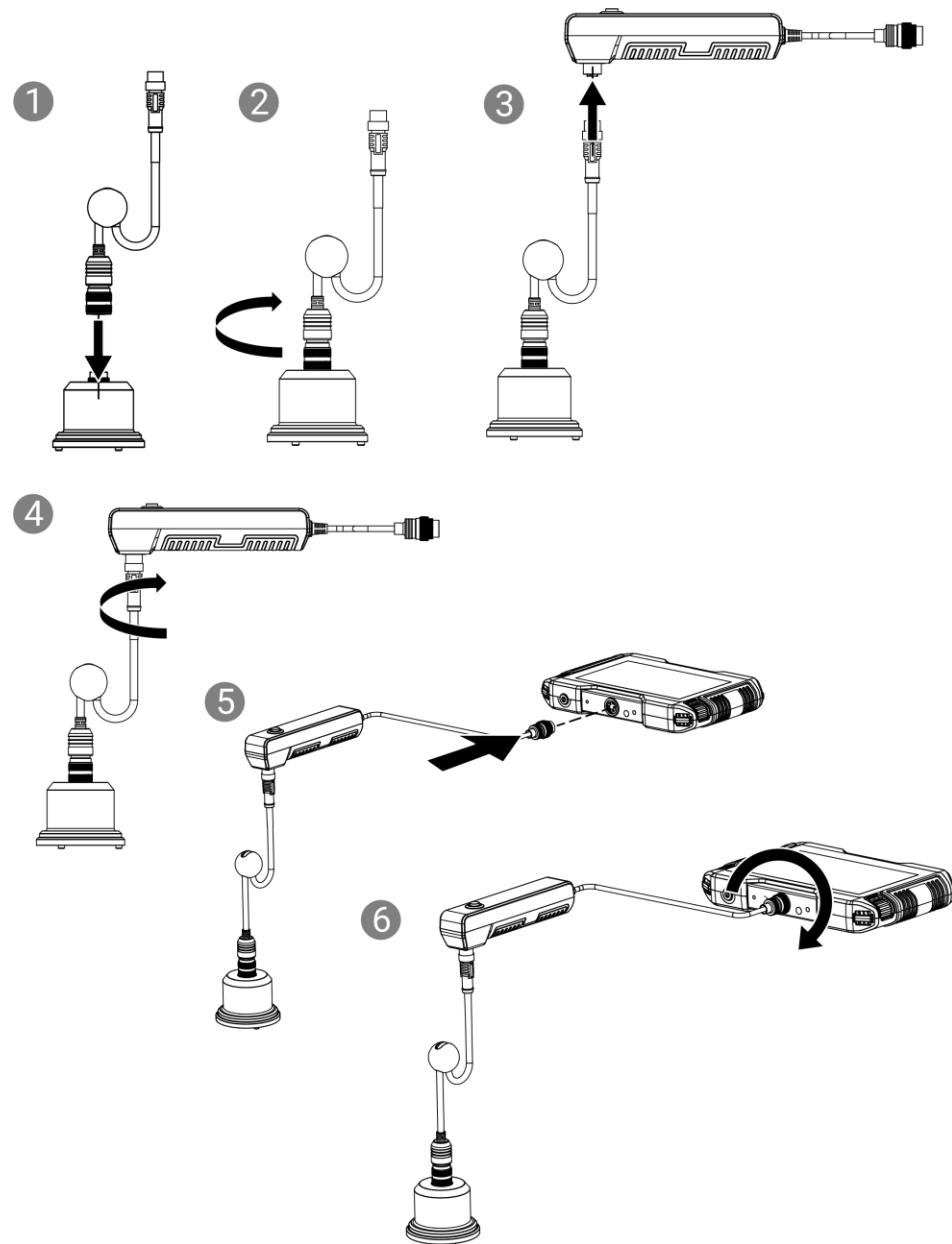


Figure 2-3 Mount the Pick-up Sensor

## 2.2 Device Power On/Off

Hold  for at least 3 seconds to power on/off the device, or set up **Auto Power-off** from **Local Settings > Device Settings > Auto Power-off**.

When auto sleep is enabled, the device turns off when there is no operation to device for the set duration.

## 2.3 Device Sleep and Wake Up

The device support sleep mode to dim the screen for battery saving.

Press  to manually enter sleep mode, or set up Auto Sleep from **Local Settings > Device Settings > Auto Sleep**.

When auto sleep is enabled, the device dims the screen when there is no operation to device for the set duration.

To wake up the device, press .

## 2.4 Swipe-down Menu

Swipe down from the top of the screen to call the swipe-down menu.

In swipe-down menu, you can switch display theme (day or night), adjust screen brightness, view the storage usage, etc.

## 2.5 Adjust Function of Sound Connection Button

The default setting for the button (No. 11 in Figure 1-2) is holding to connect and releasing to disconnect the sound signal.

You can adjust the function of button operation from **Local Settings > Audio Settings**.

*Path:*

- Sensor Button: Hold to Connect > press and hold the button to collect the sound.
- Sensor Button: Hold to Disconnect > press and hold the button to stop collecting the sound.

## 3 Find Leaks

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The probable leaks found by the device are for reference only. It is recommended to carry out repairs when the leaks are confirmed.

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General steps for finding leaks are as follows.

1. Refer to 2 Preparation to choose and assemble the sensors and accessories.
2. Place the sensor/listening stick on the detection surface.
3. Connect the sound signal through the sound connection button. Button function is configurable, refer to 2.5 Adjust Function of Sound Connection Button
4. Use the headsets to listen to the sound, and check the sound volume, frequency and diagrams on screen.

The device supports quick inspection and inspection modes for collecting and analyzing sound from one site or multiple sites.

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Due to version difference, the screenshots in this manual may be slightly different from the actual device.

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### 3.1 Quick Inspection

Collect sound from one suspicious leaking area.

1. Tap
2. Adjust the frequency range by the scrolling the frequency wheel (No.10 in Figure 1-1)
  - All Freq: 150 Hz to 7500 Hz
  - Low Freq: 150 Hz to 3000 Hz
  - Mid Freq: 3000 Hz to 6000 Hz
  - High Freq: 4500 Hz to 7500 Hz

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Due to version difference, the frequency level name may be displayed as All, Low, Mid, and High.

3. Place the sensor or the listening stick on detection surface.
4. Connect the sound signal through the sound connection button. The screen shows the collected sound volume.



Button function is configurable, refer to *2.5 Adjust Function of Sound Connection Button*.

5. Disconnect the sound signal. The screen shows the total volume of the possible leak.
6. You can save screenshot or record site audios during the collection. See *3.9 Capture Screenshot* and *3.10 Record Audio* for instructions.



Figure 3-1 Quick Inspection

- 1 Scroll the wheel on right to adjust frequency
- 2 Hearing protection is automatically enabled when sudden loud sound occurs.
- 3 Total volume displayed in line chart, histogram, or number
- 4 Capture screenshot (only supported by certain models)
- 5 Suspected leaks mark in SuperDetect mode (SuperDetect is only supported by certain models)
- 6 Record audio (only supported by certain models)



When SuperDetect is enabled, the color of both vol. after NR and the monitoring area turn to orange if a probable leak is recognized by the device.

## 3.2 Inspection on Multiple Sites

The inspection mode is used when you need to collect sounds of multiple sites to find the most probable leak.



1. Tap
2. Adjust the frequency range by the scrolling the frequency wheel.
3. Place the sensor, and collect sound from one site.
  - 1) When the sound signals are connected, tap on a bar to start connecting sound.
  - 2) When the sound volume is stable, tap the bar again to stop.
  - 3) The height of the bar stands for the volume.

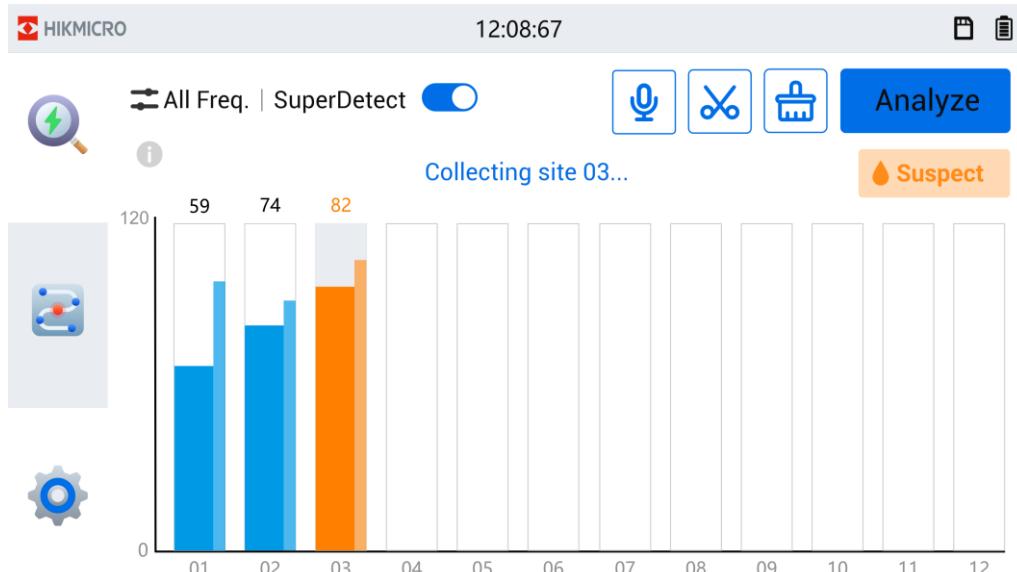


Figure 3-2 Collecting Sounds in Inspection Mode

4. Repeat above steps to collect sounds from other sites.



- Recollect at a site: tap on the bar again to clear the data and recollect.
- Clear all data: tap 

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5. After finishing collecting all sites, tap Analyze. Device analyzes all collected data, and prompts the probable leak site number.



Figure 3-3 Analyze Collected Data

6. You can save screenshot or record site audios during the sound collection. See [3.9 Capture Screenshot](#) and [3.10 Record Audio](#) for instructions.

### 3.3 Adjust Volume

Plug the 3.5 mm headset connector to the headset jacket to listen to collected audios. Scroll the wheel on left of the device to adjust the volume.

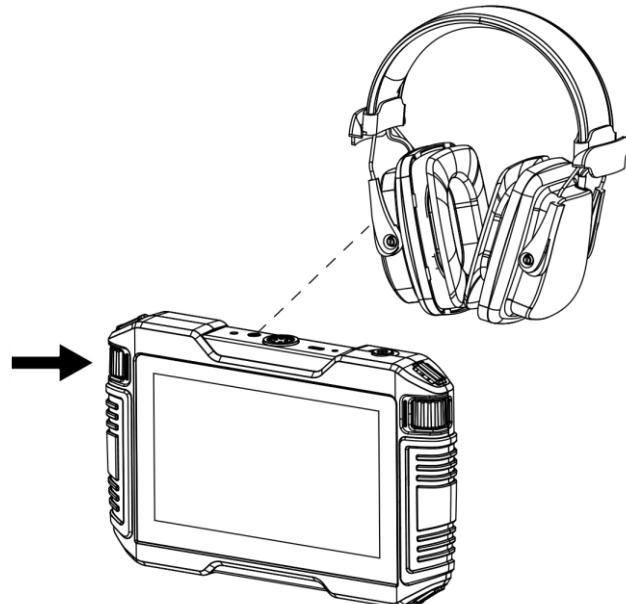


Figure 3-4 Adjust Volume



Move headsets away from the sensor, if high pitched noise occurs.

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### 3.4 Hearing Protection

Turn on the device's hearing protection function. It can protect your ears from damage when high-pitched noises occur in the environment.

Turn on Hearing Protection via **Local Settings > Audio Settings > Hearing Protection**. Tap again to turn it off.



When hearing protection is triggered, the device cuts off audio and prompts *Protection*.

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### 3.5 Set Max. Volume

The device supports configuring volume limits for leak detection scenarios. Max. Volume is adjustable via **Local Settings > Audio Settings > Max. Volume**. After adjustment, the audible volume and the upper limit displayed on the interface will change.



- Adjustable range for maximum volume: 120 to 400.
- Default maximum volume: 120.

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## 3.6 Adjust Noise Reduction Level

Device supports noise reduction (NR) function. NR level is adjustable via **Local Settings > Audio Settings > Noise Reduction Level**.

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Please set the Noise Reduction Level to **Low** when the leak volume is weak.

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## 3.7 Display Volume after NR



The function is available for some models in the series.

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After enabling Volume after NR, the device analyzes the sounds and discriminates the probable leak volume from environmental noise.

Go to **Local Settings > Audio Settings > Vol. after NR** to enable/disable the function.

With the function enabled, the volume of sound is displayed with 2 values, the total volume and the volume after noise reduction treatment.

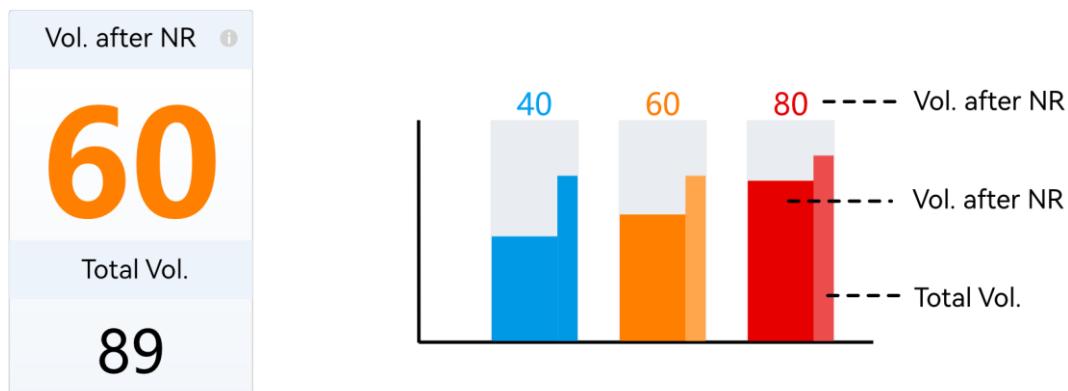


Figure 3-5 Volume after NR in Quick Inspection and Inspection Mode

### 3.8 SuperDetect

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The function is available for some models in the series.

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SuperDetect is a device function to recognize gas leak or water leak automatically during sound collection. SuperDetect is available both in Quick Inspection and Inspection mode.

1. Turn on the function by the following ways.
  - Tap SuperDetect toggle on inspection page.
  - Go to **Local Settings > Audio Settings > SuperDetect** to enable the function.

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When SuperDetect is ON, the frequency is locked to All Freq.

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2. In , follow the steps in 3.1 *Quick Inspection* to find leaks. When a probable leak is recognized by the device, the color of volume turns to orange and an orange Suspect icon shows on screen.
3. In , follow the steps in
4. When *SuperDetect* is enabled, the color of both vol. after NR and the monitoring area turn to orange if a probable leak is recognized by the device.
5. Inspection on Multiple Sites to collect sounds. When a probable leak is recognized by the device, the volume bar of the site turns to orange and an orange Suspect icon shows on screen.

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Turning ON/OFF SuperDetect in Inspection mode will clear the collected site data.

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### 3.9 Capture Screenshot

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The function is available for some models in the series.

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In  and , tap  to capture screenshot.

- Tap  to save the screenshot. The screenshots are saved in storage of the device. Refer to 3.11 View and Export Local Files to view and export the files.
- Tap  to delete the screenshot.

## 3.10 Record Audio

In Quick Inspection and Inspection mode, tap  to start record an audio file. Tap  to stop recording.

The audio files are saved in storage of the device. Refer to 3.11 View and Export Local Files to view and export the files.



- The function is available for some models in the series.
- Recording audio when the sound signal is connected.
- The maximum length of an audio file is 1 minute. Recording stops when it reaches the limit.

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## 3.11 View and Export Local Files

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The function is available for some models in the series.

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Screenshots, audio files, and logs are saved in device storage. Connect the device to a PC by a USB cable to view and export the files.

1. Connect device to a PC by a USB cable.
2. Select USB Drive in the pop-up window on device.
3. Open the USB drive folder in your PC. Screenshots and audio files are saved in the DCIM folder, and log files are saved in the log folder.
4. View the files and copy the desired ones to your PC storage.

## 4 Cast Screen

The device supports standard UVC protocol for live streaming on PC. Download and install a UVC protocol-based player to your PC in advance.

1. Connect device to a PC by a USB cable.
2. Enable cast screen function on device. Due to software version difference, choose one of the following ways that is available on your device.
  - Select Cast Screen in the pop-up window on device.
  - Enable Cast Screen in swipe down menu or from **Local Settings > Connections > Cast Screen**.
3. Launch the UVC protocol-based player. Device screen will be casted to the player.

## 5 System Settings

### 5.1 Language

Language settings are available when you start the device for the first time and after restoring device settings.

Or you can change the language from **Local Settings > Device Settings > Language**.

### 5.2 Switch to Dark Mode

Dark mode and bright mode are available for the screen theme.

Theme mode change can be done on swipe down menu or from **Local Settings > Device Settings > Dark Mode**.

### 5.3 Adjust Screen Brightness

Screen brightness can be adjusted on swipe down menu or from **Local Settings > Device Settings > Screen Brightness**.

Slide the blue bar to change the brightness.

### 5.4 Set Display Information

Choose to display or hide time, data, and status icons in screen from **Local Settings > Display Settings**.

### 5.5 Set Time and Date

Time and date settings are available when you start the device for the first time and after restoring device settings.

Or you can change the settings from **Local Settings > Device Settings > Time and Date**.

## 5.6 Device Initialization

### 5.6.1 Restore device settings to factory

There are two ways to restore device settings.

- Press the reset button on device (No.3 in Figure 1-1).
- Go to **Local Settings > Device Settings > Device Initialization > Restore Device**

### 5.6.2 Format Device Storage

Go to **Local Settings > Device Settings > Device Initialization > Format Storage**.



Do this with caution. Storage once formatted, data cannot be restored.

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## 5.7 Update Firmware

Upgrade the firmware via an upgrade file.



- Please download the upgrade file from the official website <http://www.hikmicrotech.com> or contact the customer service and technical support to get the upgrade file first.
- Make sure that the device battery is fully charged.
- Make sure that Auto Power-off function is turned-off to avoid accidental suspension during upgrading.

1. Connect the device to your PC with the supplied USB cable.
2. (Optional) For some models, select USB drive mode in the pop-up window on device.
3. Copy the upgrade file and paste it to the root directory of the device.
4. Disconnect the device from your PC.

5. Reboot the device and then it will upgrade automatically. The upgrading process will be displayed in the main interface.



After upgrading, the device reboots automatically. You can view the current version in **Settings > Device Settings > Device Information**.

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## 5.8 View Device Information

Go to **Local Settings > Device Settings > Device Information** to view the device information, such as, model, serial number, firmware version, IP address, etc.

## 5.9 Save Log

Device supports saving operation logs for trouble shooting. The logs are saved in log folder under the root directory of the device storage. Connect the device to a PC to export the logs.

1. Go to **Local Settings > Device Settings > Save Log** to enable the function.
2. Device starts saving operation logs. It stops when you turn off the function or when the device restarts or powers off.



You need to enable the function again if you need the device to save logs after a restart.

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3. Visit the device storage and copy the log files (in log folder) to your PC and send the file to our technical support. See *3.11 View and Export Local Files* for instructions.

# Legal Information

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### About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the [HIKMICRO website \(<http://www.hikmicrotech.com>\)](http://www.hikmicrotech.com).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

## Regulatory Information

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These clauses apply only to the products bearing the corresponding mark or information.

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### EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS).



Directive 2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)



Regulation (EU) 2023/1542(Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info).

Hereby, Hangzhou Microimage Software Co., Ltd. declares that this device (refer to the label) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:  
<https://www.hikmicrotech.com/en/support/download-center/declaration-of-conformity/>

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## RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.

## Industry Canada ICES-003 Compliance/Conformité Industrie Canada ICES-003

This device meets the CAN ICES-003 (B) / NMB-003 (B) standards requirements.

Cet appareil répond aux exigences des normes CAN ICES-003 (B)/NMB-003 (B).

## KC

B 급 기기: 이 기기는 가정용(B 급) 전자파적합기기로써 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

## INFORMATIONEN FÜR PRIVATE HAUSHALTE

### 1. Getrennte Erfassung von Altgeräten: 1. Getrennte Erfassung von Altgeräten:

Elektro- und Elektronikgeräte, die zu Abfall geworden sind, werden als Altgeräte bezeichnet. Besitzer von Altgeräten haben diese einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen. Altgeräte gehören insbesondere nicht in den Hausmüll, sondern in spezielle Sammel- und Rückgabesysteme.

### 2. Batterien und Akkus sowie Lampen:

Besitzer von Altgeräten haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, die zerstörungsfrei aus dem Altgerät entnommen werden können, im Regelfall vor der Abgabe an einer Erfassungsstelle vom Altgerät zu trennen. Dies gilt nicht, soweit Altgeräte einer Vorbereitung zur Wiederverwendung unter Beteiligung eines öffentlich-rechtlichen Entsorgungsträgers zugeführt werden.

### 3. Möglichkeiten der Rückgabe von Altgeräten:

Besitzer von Altgeräten aus privaten Haushalten können diese bei den Sammelstellen der öffentlich-rechtlichen Entsorgungsträger oder bei den von Herstellern oder Vertreibern im Sinne des ElektroG eingerichteten Rücknahmestellen unentgeltlich abgeben. Rücknahmepflichtig sind Geschäfte mit einer Verkaufsfläche von mindestens 400 m<sup>2</sup> für Elektro- und Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m<sup>2</sup>, die mehrmals pro Jahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen. Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m<sup>2</sup> betragen oder die gesamten Lager- und Versandflächen mindestens 800 m<sup>2</sup> betragen. Vertreiber haben die Rücknahme grundsätzlich durch geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer zu gewährleisten. Die Möglichkeit der unentgeltlichen Rückgabe eines Altgerätes besteht bei rücknahmepflichtigen Vertreibern unter anderem dann, wenn ein neues gleichartiges Gerät, das im Wesentlichen die gleichen Funktionen erfüllt, an einen Endnutzer abgegeben wird.

### 4. Datenschutz-Hinweis:

Altgeräte enthalten häufig sensible personenbezogene Daten. Dies gilt insbesondere für Geräte der Informations- und Telekommunikationstechnik wie Computer und Smartphones. Bitte beachten Sie in Ihrem eigenen Interesse, dass für die Löschung der Daten auf den zu entsorgenden Altgeräten jeder Endnutzer selbst verantwortlich ist.

### 5. Bedeutung des Symbols „durchgestrichene Mülltonne“:



Das auf Elektro- und Elektronikgeräten regelmäßig abgebildete

Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das jeweilige Gerät am Ende seiner Lebensdauer getrennt vom unsortierten Siedlungsabfall zu erfassen ist.



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