



TD2 Acoustic Camera

User Manual

About this manual

This manual is used as a guide and the photos, graphics, icons and illustrations provided in the manual are for explanation and illustration purposes only and may differ from the specific product, please refer to the actual product. This manual may be updated by FOTRIC without notice due to product version upgrade or other needs.

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In the event of a conflict between the above and applicable law, the provisions of the law shall prevail.

Preface

User Manual



Analysis Software



Symbols

 Warning	 Caution	 Note
potential death or serious injury inducing hazards.	potential danger of injury or property damage.	provides additional information to emphasize the main text.

Safety information

The purpose of this section is to ensure that the user uses the product properly to avoid danger or property damage.

Before using this product, please read this instruction manual carefully and keep it in a safe place for future reference.



Warning:

- Never disassemble or modify the acoustic camera battery. The battery is equipped with safety and protective devices which, if tampered with, may cause the battery to overheat and may also cause an explosion or burn. If the battery is leaking and the leak gets into your eyes, do not rub it, wash it with water and get immediate medical attention.
- If the unit is not working properly, contact your dealer or our company and do not disassemble or modify the unit in any way (unauthorized modifications or repairs cause problems at your own risk).



Caution:

- Protect the acoustic sensor array from stains, dust and liquids, otherwise it will affect the performance of the acoustic camera or even cause permanent damage.
- Avoid using the product in humid, dusty, extremely hot or cold environments, please refer to the product's parameter table for specific temperature and humidity requirements.
- It is strongly recommended to use the original power adapter, the specific requirements of the power

adapter are shown in the product data sheet.

- To prevent the potential danger of data loss, always make a copy (backup) of your data on a computer.
- When storing the acoustic camera, it is strongly recommended to use the original box and to keep it in a cool, dry, ventilated environment free from strong electromagnetic fields.
- When shipping the acoustic camera, it is strongly recommended that it be shipped protected in its factory packaging.

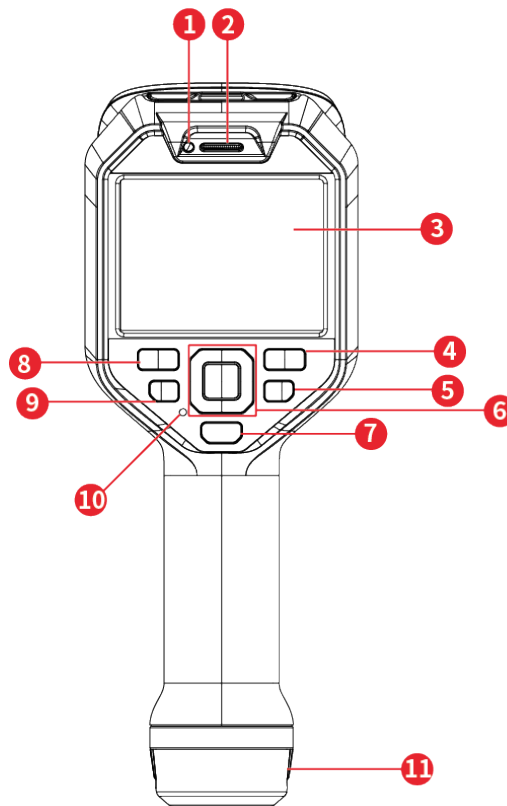
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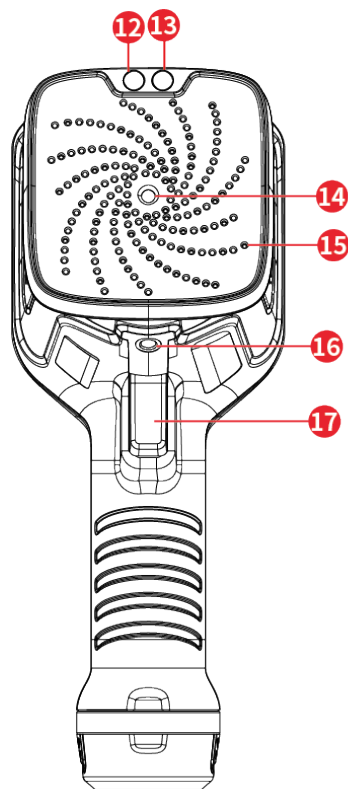
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1. Product Components

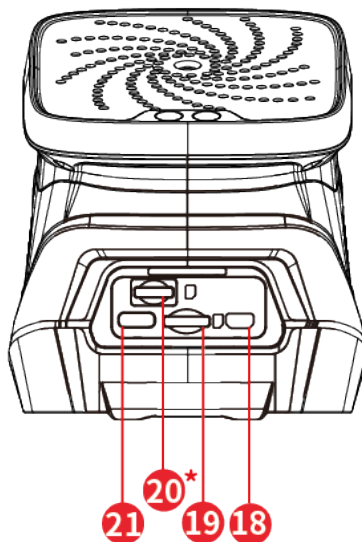
1. Front View



2. Rear View



3. Top View



Note

The appearance of different models of compact handheld acoustic imagers may vary. Please refer to the actual product.

Parts and interfaces

	Name	Function
1	Indicator LED	● Green, blinking: charging ● Green, glowing: fully charged
2	Speaker	Play voice, alarm
3	Touch Screen	● Display ● Touch screen operation
4	Gallery Button	Enter gallery
5	Back Button	Exit menu or back to the previous menu
6	Navigation Buttons	Menu mode ● Press ▲, ▼, ◀, ▶ to select parameters ● Press confirmation key to confirm
		Non-menu mode ● Press confirmation key to summon the menu
7	AI Programmable Button	● Short press: activate custom functions ● Long press: select custom functions
8	Power Button	● Short press: power on/off device ● Long press: sleep/wake screen
9	LED Button	Activate/deactivate LED flashlight
10	Microphone	Input voice information
11	Battery	Lithium battery, for power supply
12 & 13	LED Flash Light	● Flash light : serve as a flash light when taking photos ● For illumination in dark environment
14	Digital Camera	Digital visible-light camera

15	Acoustic Module	Microphone array
16	Tripod Connection Interface	For mounting on a tripod
17	Freeze and Capture Button	Freeze and capture images
18	Micro HDMI Interface	High resolution streaming interface, compatible to projecting to a HDMI screen
19	SD Storage Card Interface	For inserting the SD card
20*	Nano SIM Port (Optional)	For inserting Nano SIM card
21	USB Type-C Interface	For connecting to a USB Type-C cable

2.Preparation

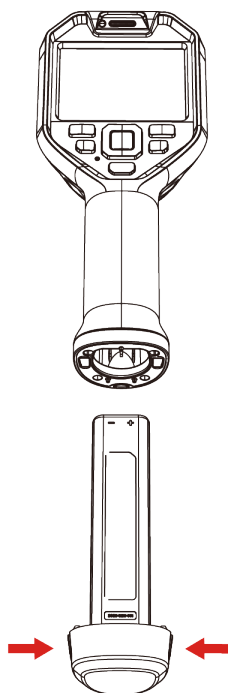
1. Inserting and Removing the Battery

1.1 Inserting the battery

Push the battery into the battery socket. When the battery is fully inserted, it will make a distinct 'click'.

1.2 Removing the battery

Turn off the device, squeeze the snatch of the battery and take it out.



2. Charging

When using the acoustic imager for the first time or when the power is low, please charge the acoustic imager.

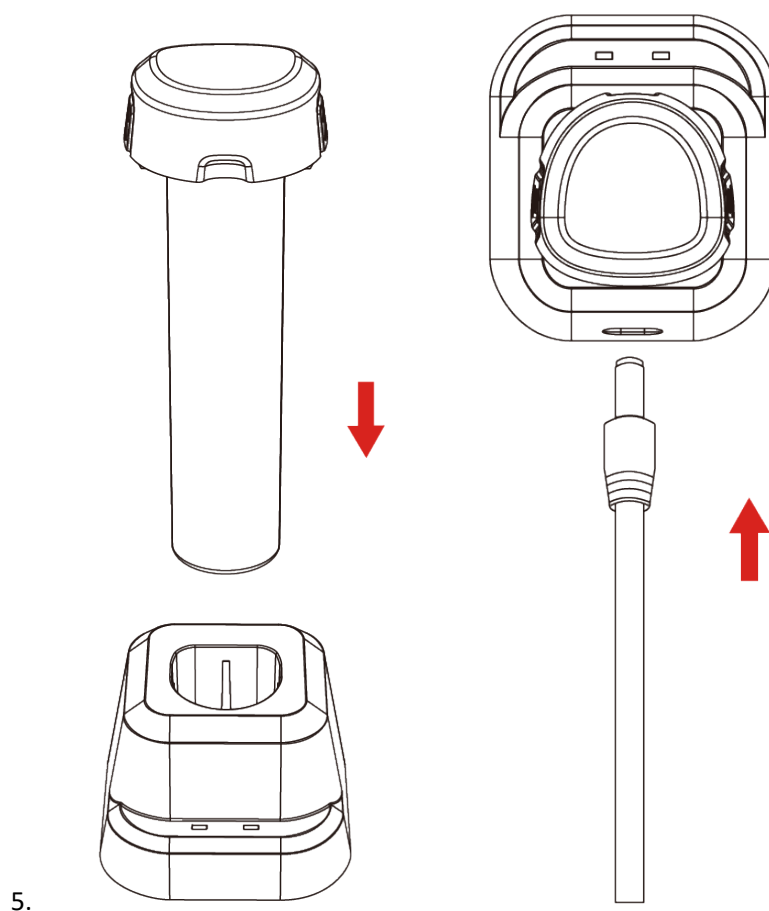
2.1 Charging through the charging dock

For quick charging take out the battery and mount it on the charging dock.

The voltage of the charging dock is 5VDC, please use the USB-C cable and the adaptor that came with the device.

Operation Procedures

1. Mount the battery(s) to the charging dock.
2. Connect the charging dock to the power source. If the dock is functioning normally, the middle LED indicators will glow green.
3. The LED indicators on the side indicate the charging status of the battery:
 - Red: charging
 - Green: charged
4. When fully charged, take out the battery and disconnect the dock from the power source.

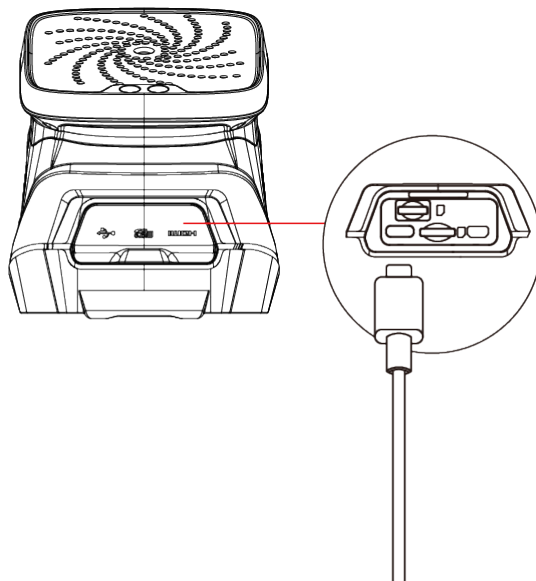


2.2 Charging directly with DC 5V

For expedient charging, directly charge the acoustic imager through a DC 5V power adapter.

Operation Procedures

1. Insert the battery
2. Lift the cover for power supply interface
3. Connect to a power source and start charging



3. Power On and Off

3.1 Power On

When sufficient battery power is available, press and hold the Power button to turn on. Once powered on, enters the real-time observation interface.



Note:

If battery power is low, charge or replace the battery promptly to avoid affecting usage.

3.2 Power Off

Turn off manually or set an automatic shutdown time.

Manual Shutdown

Press and hold the Power button to turn off.

Automatic Shutdown

Set the automatic shutdown time. If no touch screen operation, no button press, and no USB connection, automatically shuts down after the set time is reached.

4. Sleep and Wake

Put into sleep mode manually to save power and extend battery life.

Press the Power button briefly to put into sleep mode or wake up.

6. Connecting to External Devices and Storage Media

External Devices

Use a compatible HDMI cable to connect one end to the device's Micro HDMI interface and the other end to a display. The image will be projected onto the connected screen.

Storage Media

The device is equipped with a storage card to store captured inspection data, reports, and other files.



Note

The included storage card may vary; please refer to the actual device.

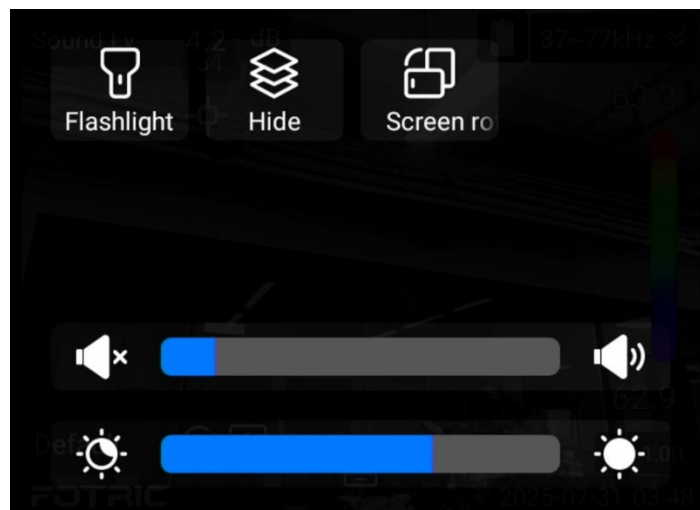
7. Mounting on a Tripod

If the user needs to make prolonged observation or measurements, we advise mounting the camera on a tripod. The device support connecting to a tripod via a UNC 1/4-20 interface. (16th item in the Parts and interfaces table.)

3. Acoustic Imaging Display

1. Swipe Down Menu

Users can swipe down from the top of the screen to bring up the system's drop-down menu. In this menu, users can toggle functions on or off or adjust settings through touch operations. When a function is turned on, its corresponding option will be highlighted. Users can quickly exit the drop-down menu by swiping up from the bottom of the screen.

**Note**

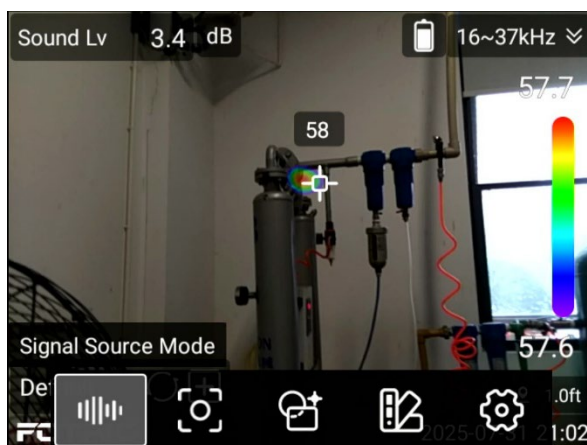
The interface displays different function switches depending on the specific model. Please refer to the actual device for details.

2. Sound Source Mode

The sound imaging device can detect sound sources in various modes, which can be switched according to your preferences. The specific operation steps are as follows:

1. Switch to the "AC" interface by tapping the "IR" button in the lower-left corner of the screen.
2. In the main menu interface, press the OK button or tap the main menu to bring up the device menu.

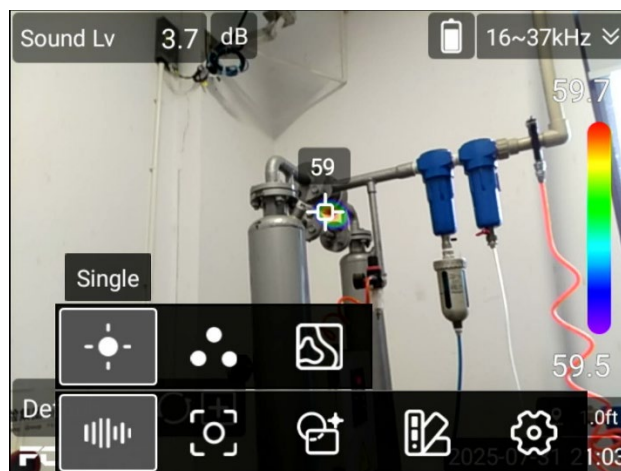
3. Device Menu → Sound Source Mode



2.1 Single Sound Source

Overlay the sound image of multiple high sound pressure areas on the visible light image. The specific operation steps are as follows:

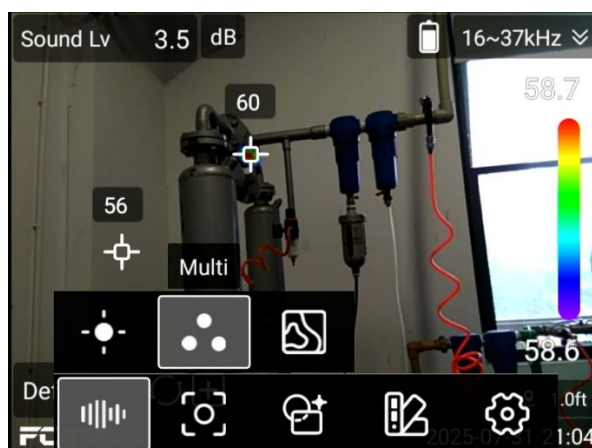
1. **Main menu interface:** Press the OK button or tap the main menu to bring up the device menu.
2. **Device menu → Sound source mode → Multiple sound sources**



2.2 Multi Sound Source

Overlay the sound image of multiple high sound pressure areas on the visible light image. The specific operation steps are as follows:

3. **Main menu interface:** Press the OK button or tap the main menu to bring up the device menu.
4. **Device menu → Sound source mode → Multiple sound sources**

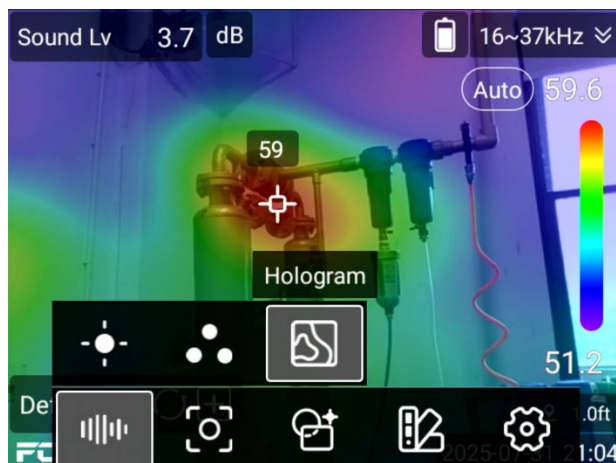


1.3 Hologram

Adjust the sound pressure threshold and overlay the sound image of the areas above the threshold on the visible light image. The specific operation steps are as follows:

1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu.

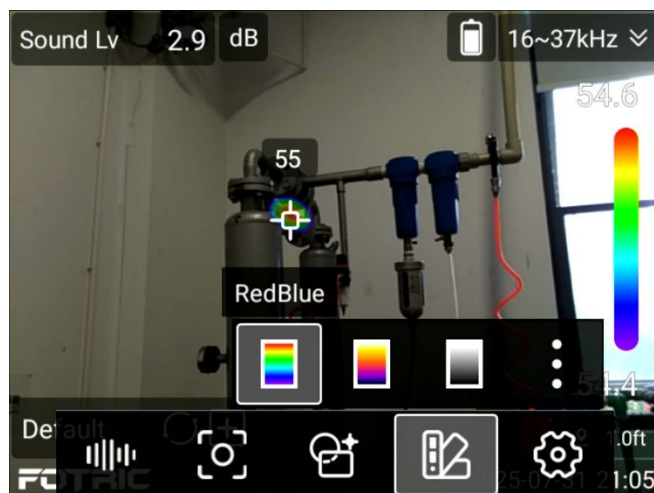
2. Device menu → Sound source mode → Hologram



3. Palettes

The color palette can be changed to display different high sound pressure areas, and it supports adjusting the transparency with three available color palettes. The specific operation steps are as follows:

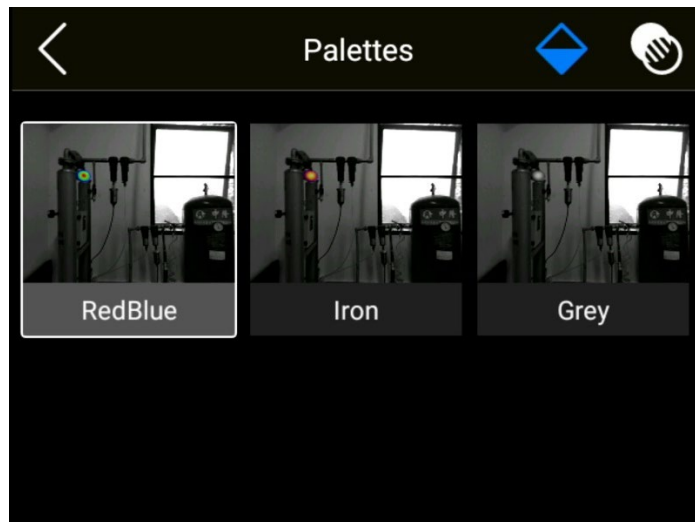
1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu.
2. **Device menu → Color palette** (adjustable: red-blue, iron red, gray-white).
3. **Device Menu → Palette → More** → Tap the icon in the upper right corner to adjust the transparency of the palette.



4. Black and White Background

During acoustic imaging detection, the color visible light image can be displayed as a black-and-white grayscale visible light image. The specific steps are as follows:

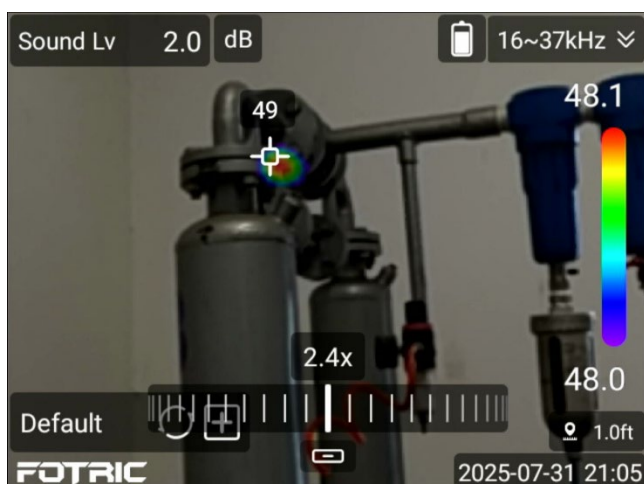
1. In the main menu interface, press the OK button or tap the main menu to open the device menu.
2. Navigate to **Device Menu → Palette → More → Tap the second icon in the upper right corner to switch the image to a black-and-white background**



5. Digital Zoom

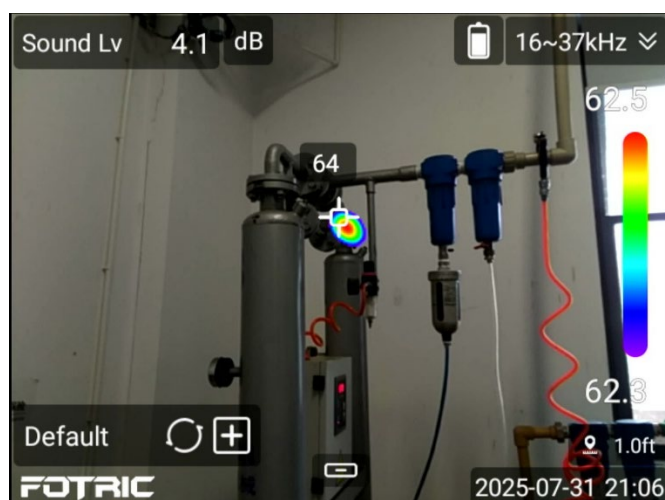
The device's digital zoom function allows control over image zoom display. The specific steps are as follows:

1. **Zoom In:** Use two fingers to touch the screen and spread them apart.
2. **Zoom Out:** Use two fingers to touch the screen and pinch them together.
3. When the zoom level exceeds 1x, a zoom slider wheel will appear:
 1. Adjust the zoom level by sliding the wheel on the touch screen or using the left/right directional keys.
 2. Press the OK button or the Back button to hide the zoom slider wheel.
 3. Alternatively, tap the zoom level value again to reactivate the zoom adjustment slider.



6. Sound Pressure Tracking

To automatically track the maximum sound pressure using special markers and overlay the acoustic image of the strongest sound pressure area on the visible light image,



4. Acoustic Measurement Analysis

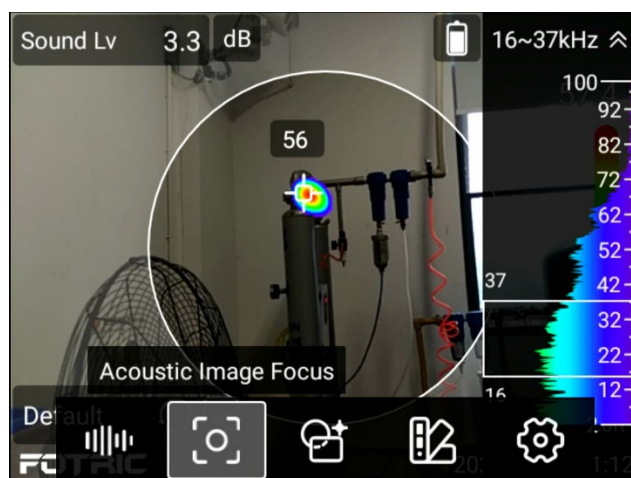
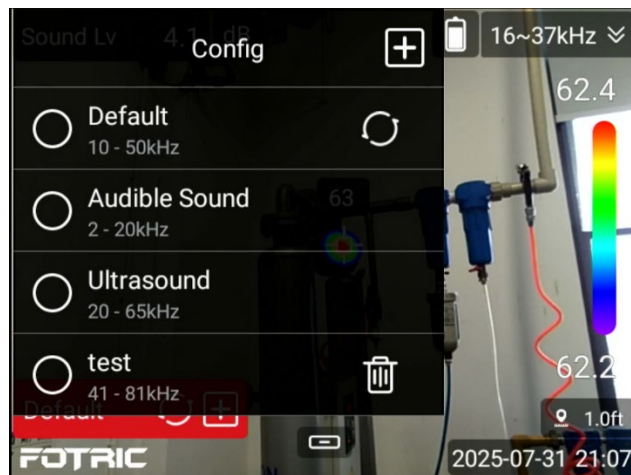
1. Frequency Range Selection

Supporting Pre-configured Frequency Ranges for Different Scenarios and Manual Adjustment of Frequency Bands.

1. Main menu interface: Press the OK button or tap the main menu to bring up the device menu

2. Device Menu → Settings → AC Device Set → Enable Frequency Configuration

3. Return to the real-time screen and tap the bottom left corner to customize the frequency band range



Click on the top right corner of the screen  to reveal FFT(Fast Fourier Transformation) diagram.

2. Measurement Tools

The device allows for measurement of specific locations, boundaries, or areas by setting points, circles.



2.1 Add Spot

The specific steps are as follows:

1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu
2. **Device menu → Settings → AC Device Set → Measurement Enhancement → Enable Measurement Tool**
3. **Return to the main interface → Device menu → Measurement Tools → Add Spot.**
4. Tap the selected measurement point, drag it or use the directional keys to move and adjust the spot's position.

2.2 Add Circle

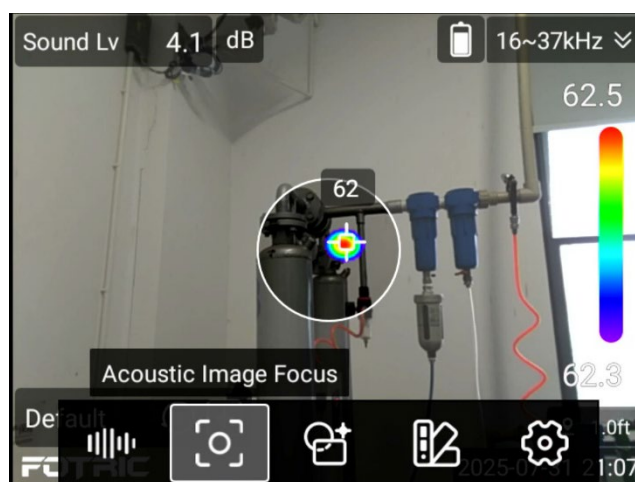
The specific steps are as follows:

1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu.
2. **Device menu → Settings → AC Device Set → Measurement Enhancement → Enable Measurement Tool**
3. **Return to the main interface → Device menu → Measurement Tools → Add Circle.**
4. Tap the selected measurement circle, drag it or use the directional keys to move and adjust the position of the measurement circle.

3. Acoustic Image Focus

To shield surrounding areas and focus on a specific region's acoustic image, minimizing noise interference and emphasizing key positions, please conduct the following steps:

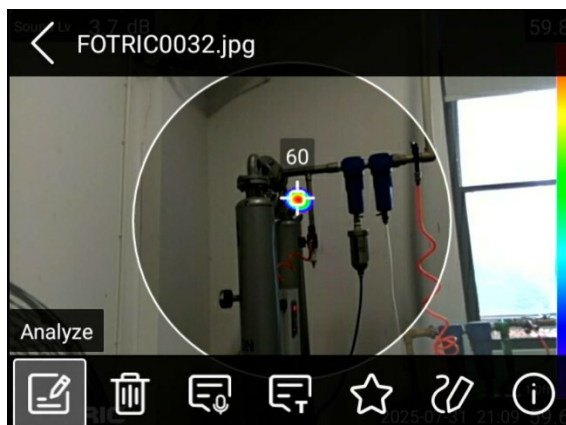
1. In the main interface, press the OK button or tap the main menu to bring up the device menu
2. **Device menu → Acoustic Image Focus**
3. **Device menu → Settings → AC Device Set → Acoustic Image Focus Range** (The user can adjust the size of the focus ring)



4. On-device Analysis

The device supports quick analysis of acoustic images and holographic acoustic videos to promptly identify, analyze, and resolve issues. The specific operation steps are as follows:

1. Press the gallery button to enter the gallery homepage.
2. Use the touch or directional buttons to select the acoustic image or radiometric video to be analyzed.
3. Press the OK button to enter the gallery preview interface.
4. Press the OK button again to bring up the gallery preview menu.
5. Click the "Analyze" button to enter the gallery analysis interface.
6. Analyze the acoustic image data and save the results.
7. Press the back button to exit.



5. Analysis Software

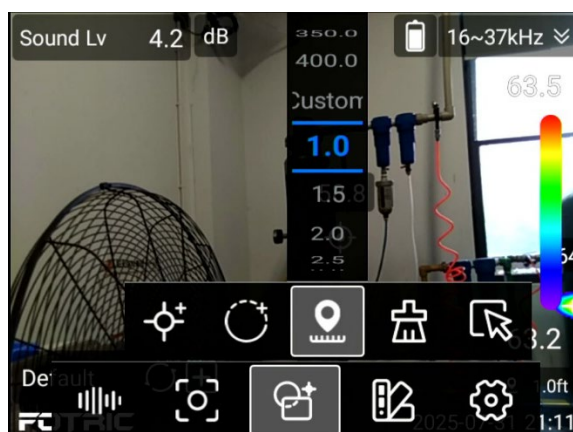
The device supports professional analysis software, which allows for real-time control and display of acoustic images, analysis of acoustic image data, and quick batch generation of professional reports. For detailed operations, please refer to the user manual of the analysis software.

5. Acoustic Imaging Basic Parameters

1. Distance

The distance to the sound source is calculated in real-time through the acoustic sensor's received sound signals. The specific operation steps are as follows:

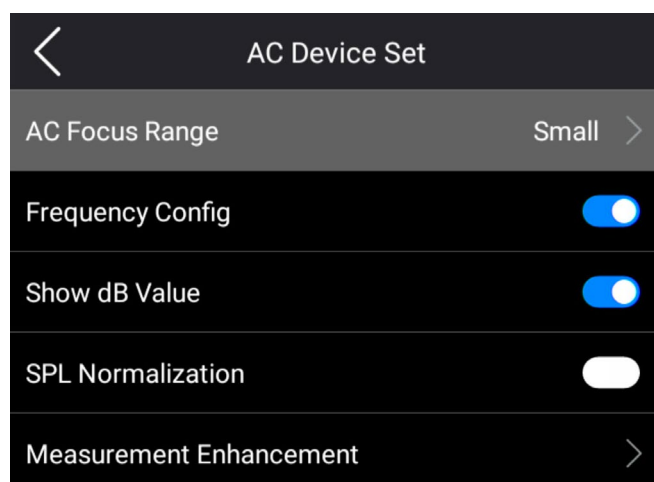
1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu.
2. Device menu → Target distance (adjust based on the test scenario).



2. AC Device Set

AC Device Set includes: Leakage Evaluation Parameters, AC Focus Range, Frequency Config, Show dB values, AC frequency, SPL Normalization, and Measurement Enhancement. The specific operation steps are as follows:

1. In the main menu interface, press the OK button or tap the main menu to bring up the device menu
2. **Device Menu → Settings → AC Device Set**
3. Enter the AC Device Set page where the user can configure each parameter as needed



6. Capture Functions

1. Freeze Interface

In infrared image, visible light temperature measurement (T-DEF®), and picture-in-picture modes, when taking a single frame, the freeze frame function can be enabled for preview.

Operation Steps: In single-frame capture mode, press the snapshot button to enter the freeze frame for the image.

Voice Annotation:

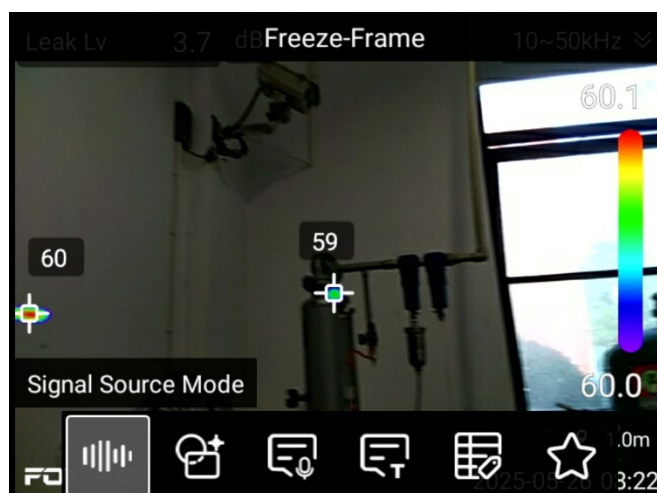
Please refer to **Capture Functions → 6 Voice Annotation**.

Text Annotation:

Please refer to **Capture Functions → 7 Text Annotation**.

Favorites:

Please refer to **Capture Functions → 9 Favorites**



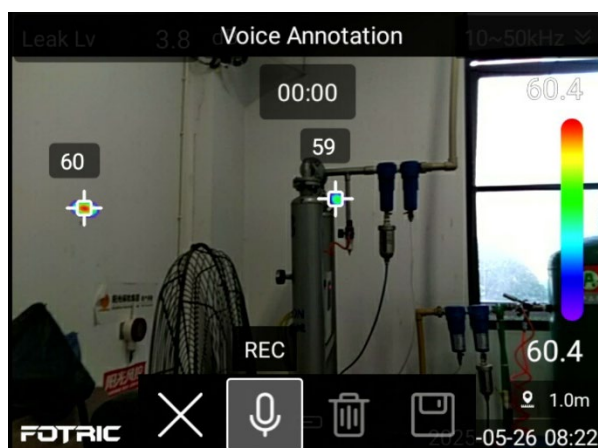
The freeze function on the device depends on the specific model. Please refer to the actual device for details.

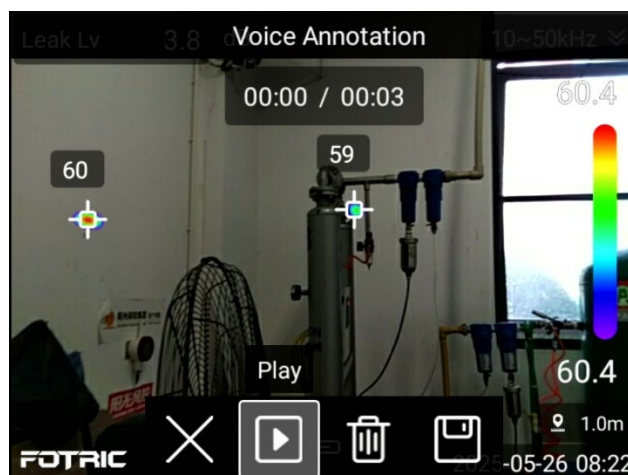
2. Voice Annotation

Record Voice Annotation with a maximum duration of 120 seconds and save it to the acoustic image and full radiation video.

Steps for operation:

1. Freeze the screen or preview the gallery, press the OK button or tap the main menu to bring up the device menu.
2. In the device menu, go to Voice Annotation.
3. Tap  to start recording the voice annotation.
4. Tap  to stop recording the voice annotation.
5. Tap  to play the recorded voice annotation.
6. Tap the button to delete the recorded voice annotation.





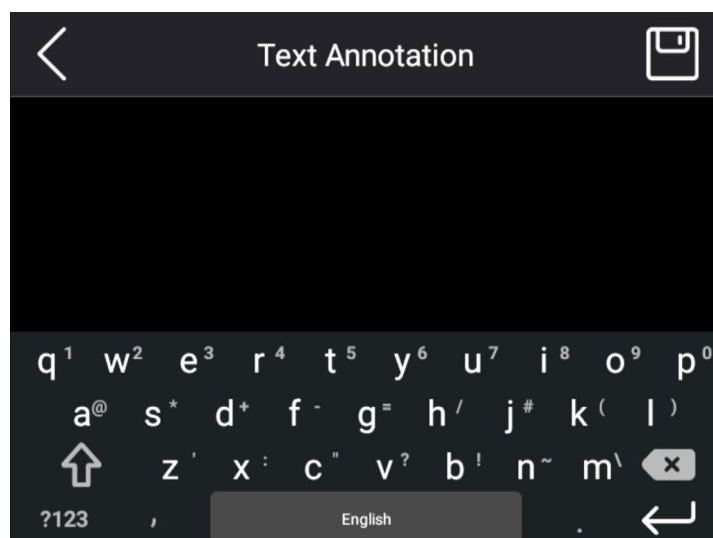
NOTE

The voice annotation function on the device may vary depending on the specific model. Please refer to the actual device.

3. Text Annotation

Steps for operation:

1. Freeze the screen or preview the gallery, press the **OK button** or tap the **main menu** to bring up the device menu.
2. In the device menu, go to **Text Annotation**.
3. After successfully inputting through manual keyboard entry, OCR text recognition, QR code scanning, or tap the **Save** button. The content will be saved successfully, and a text note icon will appear in the top left corner of the image.



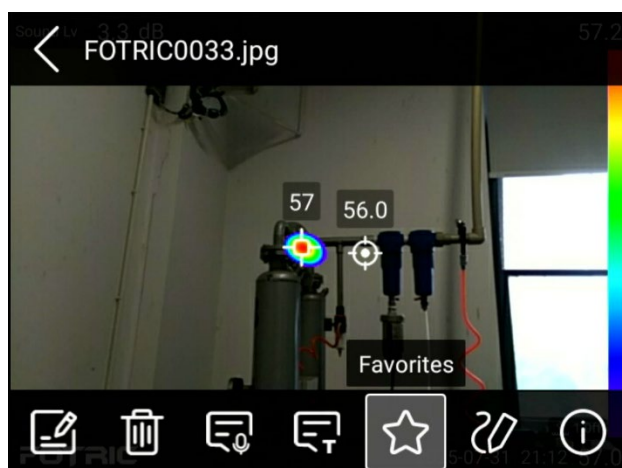
**NOTE**

The voice note function on the device may vary depending on the specific model. Please refer to the actual device.

4. Favorites

Operation Steps:

1. Freeze the screen/gallery preview, press the OK button or touch the main menu to bring up the device menu.
2. **Device menu** → **Favorites**
3. Press the OK button or touch the favorite icon, and the favorite icon will appear in the top-left corner of the image.

**NOTE**

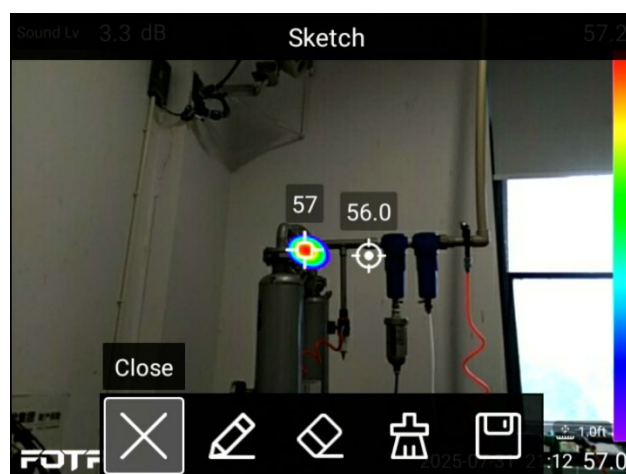
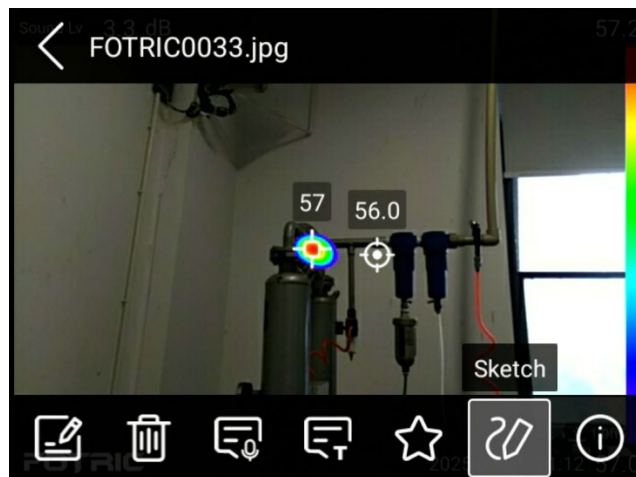
The collection function on the device depends on the specific model; please refer to the actual device for details.

5. Sketch

Make sketched by dragging your finger on the display screen and save it to the acoustic image.

Operation steps:

1. Enter the sketch interface through the Add after saving/Gallery preview interface...;
2. Select the graffiti pen of the corresponding color as needed to draw;
3. Select the eraser to erase the excess graffiti part, click the Save button, and the sketch is successfully saved to the acoustic image.

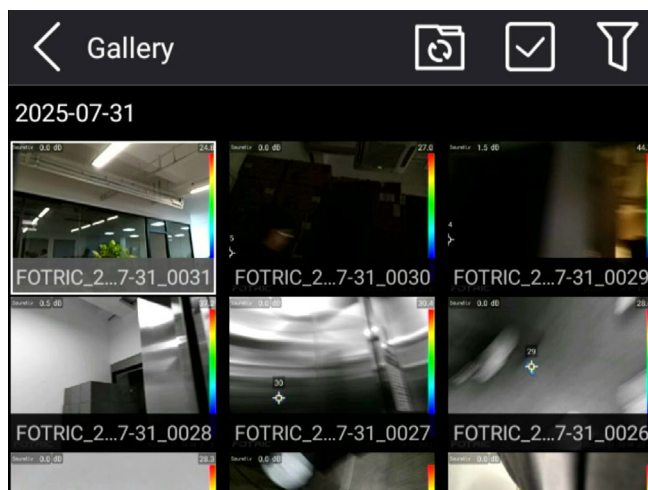


6. Gallery

The files are saved on the SD storage card, and the user can view all the saved files through the gallery.

Operation Steps:

1. Press the Gallery button on the device to enter the gallery interface.
2. Press the Back button on the device to return to the live view interface.



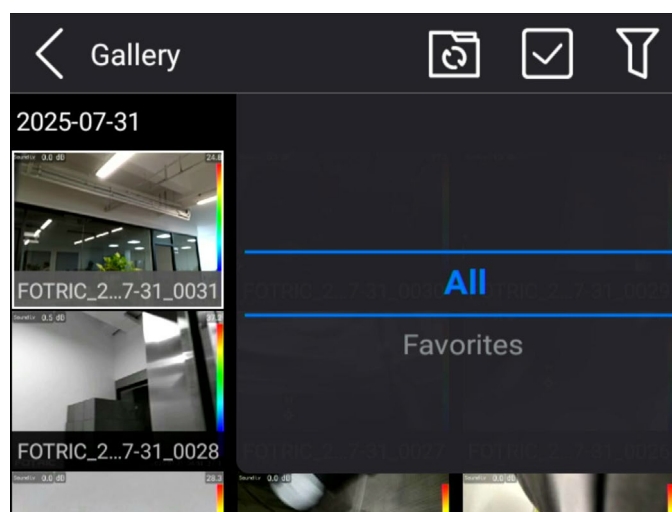
Generate Report: 9.12 On-device Report

Delete

- Click the selection icon /button at the top of the gallery, or press the selection icon  at the top and then press the OK button.
- Select one or more files, then click the delete icon/button at the top of the gallery, or press the delete icon at the top and then press the OK button.
- Click the confirm button to successfully delete the selected files

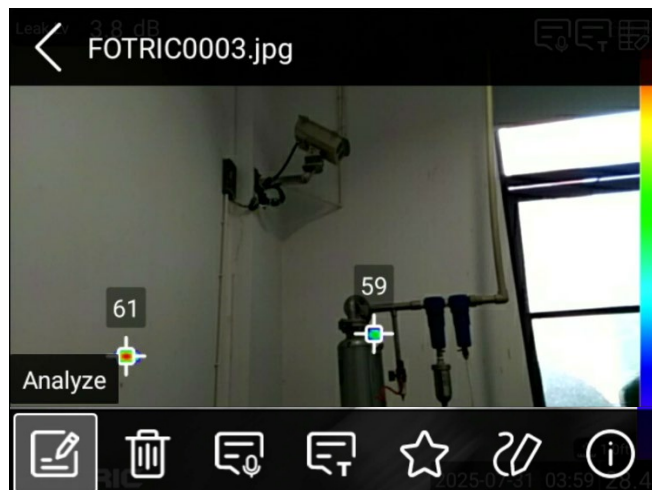
Filtering

- Click the filter icon/button at the top of the gallery, or press the filter icon at the top and then press the OK button.
- Select "Favorites" to successfully filter out the files marked as favorites.



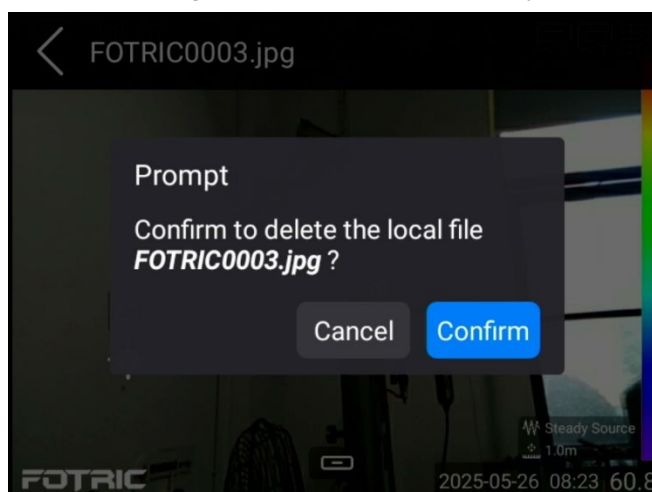
Gallery Preview

The acoustic image has been selected. Touch the acoustic image or press the OK button to enter the gallery preview interface



Delete Function:

Click the delete button, and the image or video will be successfully deleted



7. Connection

1. USB Interface

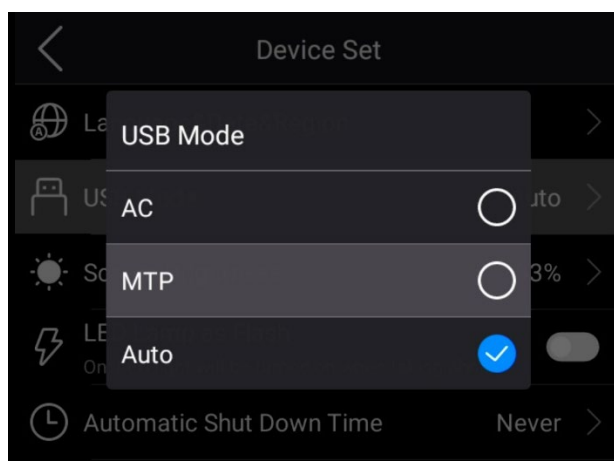
USB Interface

The device can be connected to a computer using a USB cable. Once the connection

is established, image and video files can be transferred from the storage card to the computer.

USB Mode:

1. Open the interface box cover and connect the USB cable to the USB Type-C interface in the connector cover. Connect the other end of the USB cable to the computer.
2. On the main menu interface, press the OK button or tap the main menu to bring up the device menu.
3. Go to **Device Menu** → **Settings** → **Device Set** → **USB Mode: AC**. The device has not yet established a connection with the computer



USB Mode: File Transfer (MTP)

1. Open the cover of the device interface box and connect the USB cable to the USB Type-C interface in the connector cover. Then, connect the other end of the USB cable to the computer.
2. On the main menu interface, press the OK button or tap the main menu to bring up the device menu.
3. **Device menu** → **Settings** → **Device Settings** → **USB Mode Selection: File Transfer (MTP)**, the device successfully establishes a connection with the computer.
4. On the computer, open the SD card's Gallery folder, and use drag-and-drop to move the desired files to the computer.
5. Import the images into the computer analysis software for further analysis.

USB Mode: Auto

1. Open the cover of the device interface box and connect the USB cable to the USB Type-C interface in the connector cover. Then, connect the other end of the USB cable to the computer.

2. On the main menu interface, press the OK button or tap the main menu to bring up the device menu.
3. **Device menu → Settings → Device Set → USB Mode Selection: Auto.**
4. When the device is powered on, a prompt will appear: "USB cable detected. Do you want to switch to file transfer (MTP) mode?"
5. Confirm: Successfully switched to file transfer (MTP) mode, and the device successfully establishes a connection with the computer.

Cancel: Did not switch to file transfer (MTP) mode, and the device did not establish a connection with the computer.

2. HDMI Interface

Use the device-compatible HDMI cable to connect the device to the computer. The device's interface image will be synchronized and displayed on the computer screen.

8. Auxiliary Functions

1. LED Lamp

Support for **Flashlight illumination** and **Flash mode**.

Flashlight Illumination:

Open the device's flashlight from the main menu interface drop-down menu and use it as a flashlight.

Flash Mode:

1. In the main menu interface, press the OK button or touch the main menu to bring up the device menu.
2. **Device menu → Settings → Device Settings → LED light as flash.**
3. Once enabled, the LED light will function as a flash when pressing the shutter button for single-frame capture, or the LED light will continuously function as a flash during timed continuous capture for image saving.

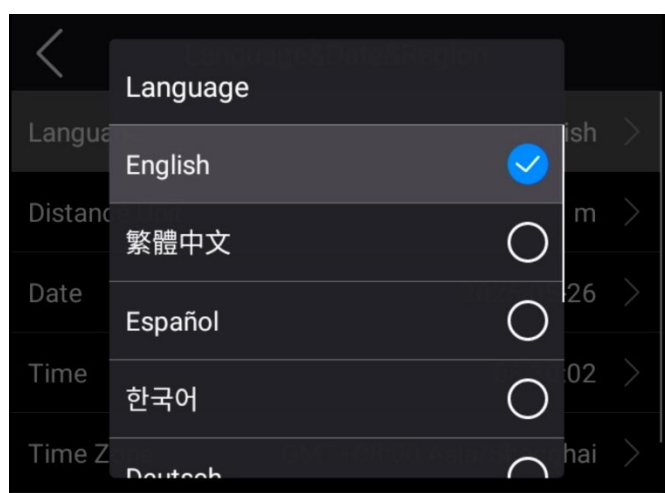


2. Language

The supported languages include: Simplified Chinese, English, Traditional Chinese, Japanese, Spanish, Korean, German, Portuguese, Italian, French, and Thai.

Operation steps:

1. In the main menu interface, press the OK button or touch the main menu to bring up the device menu.
2. **Device menu** → **Settings** → **Device Settings** → **Language&Time&Region** → **Language**.
3. The default languages are Simplified Chinese and English. Select a language to switch to that language.



NOTE

The default language on the device depends on the specific model. Please refer to the actual

device for confirmation.

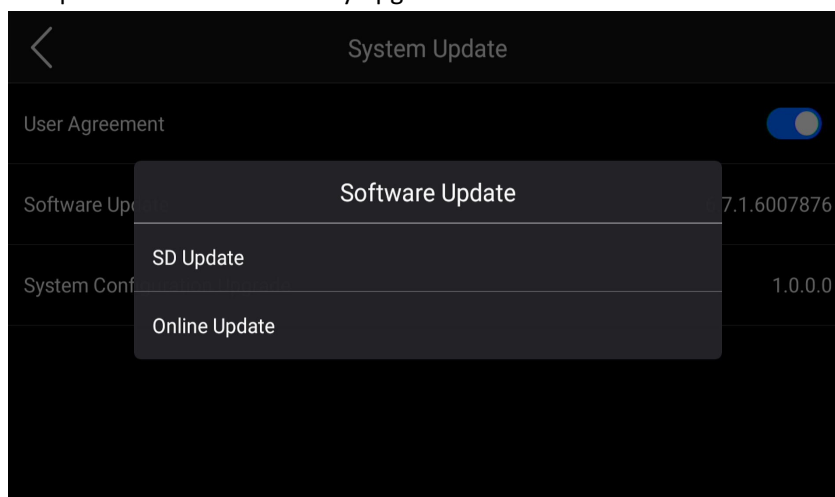
3. Software and Firmware Upgrades

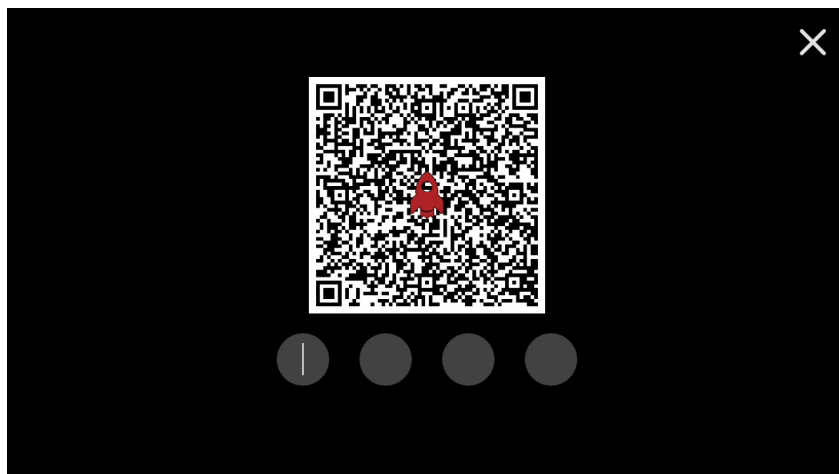
Supports offline upgrades, and system configuration offline upgrades.

Software Update	
User Agreement	☒
APP Update	6.11.0.6012207
System Update	3.2.0.11
AC Firmware Update	3.1.4.0
System Configuration Upgrade	1.0.0.0

Offline Software Upgrade:

- The upgrade package (.epk file) has been placed in the device's storage card in the corresponding "update" folder.
- On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
- **Device Menu → Settings → Device Set→ About→ System Update**
- Agree to the user agreement and click "**System update.**"
- Click "**SD Update,**" and a QR code scanning interface will appear.
- Use smartphone to scan the QR code. After the upgrade verification is successful, a verification code will be displayed. Enter the code in the device's QR code interface to proceed with the upgrade. Once the upgrade is completed, the device will restart, and the software version will be updated to the successfully upgraded version.

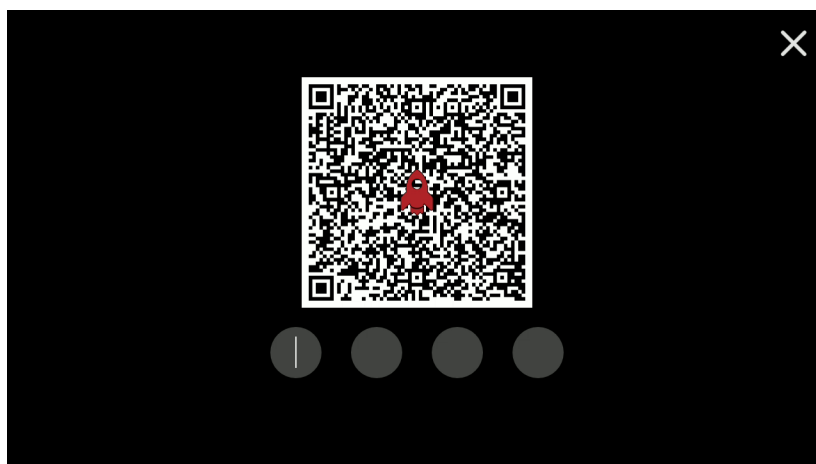




Offline System Configuration Upgrade:

- The upgrade package (.epk file) has been placed in the device's storage card in the corresponding "update" folder.
- On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
- Device Menu → Settings → Device Settings → Device Information → System Upgrade.
- Agree to the user agreement and click "System Configuration Upgrade."
- Click "SD Update" and a QR code scanning interface will appear.
- Use a smartphone to scan the QR code. After the upgrade verification is successful, a verification code will be displayed. Enter the code in the device's QR code interface to proceed with the upgrade. Once the upgrade is completed, the device will restart, and the device configuration version will be updated to the successfully upgraded version.

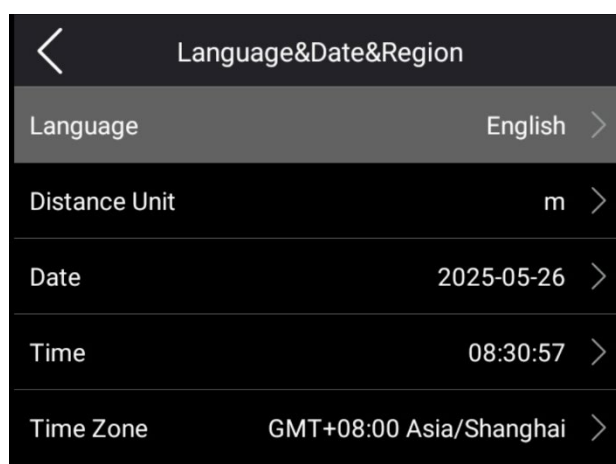




4. Device Set

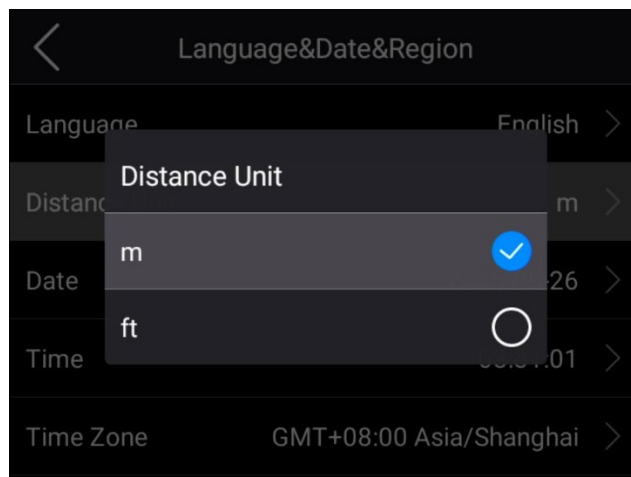
Set the language, time, and region, USB mode, screen brightness, location information, LED light as flashlight, auto shutdown time, volume, reset, and view device information.

Language&Time&Region Settings: Set language, Temperature Unit, Distance Unit, Date, Time, Time Zone, and Date Format.



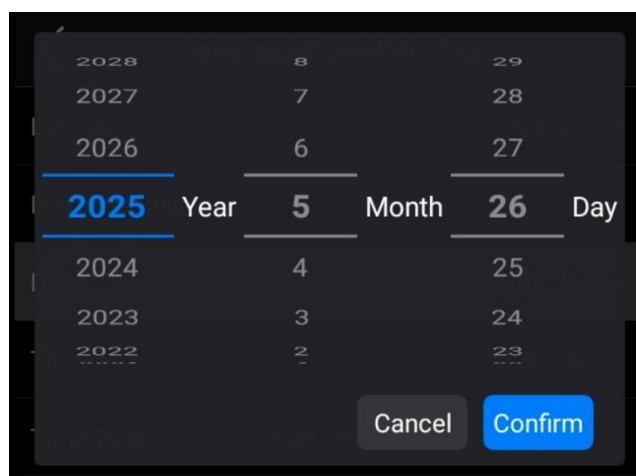
Language Setting: Refer to section 12.8 Supported Languages.**Set Distance Unit:**

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. Device Menu → Settings → Device Set → Language&Time&and Region → Distance Unit.
3. Set the distance unit parameter.



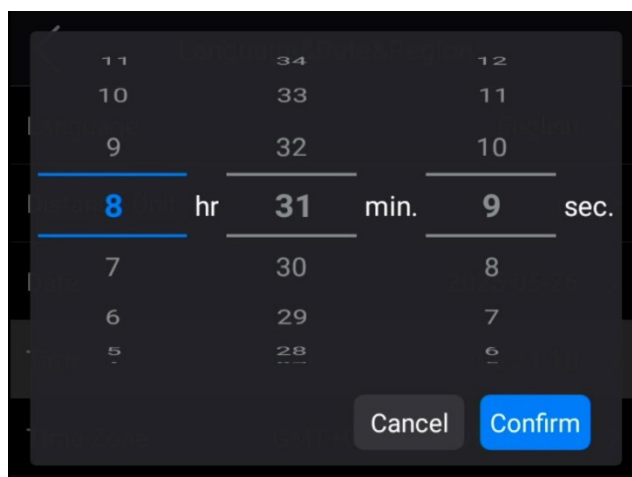
Set Date:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Language&Time&Region → Date**
3. Set the date parameter.



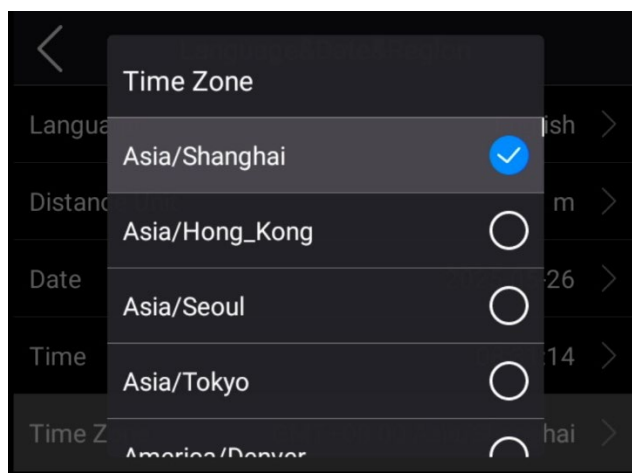
Set Time:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Language&Time&Region → Time**
3. Set the time parameter.



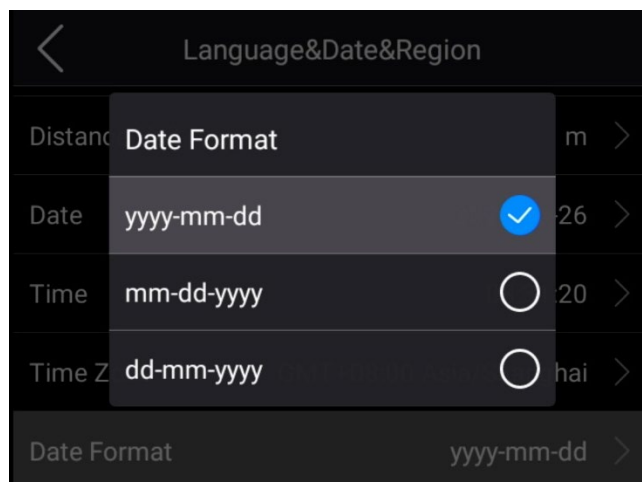
Set Time zone:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Language&Time&Region → Time zone.**
3. Set the time zone parameter



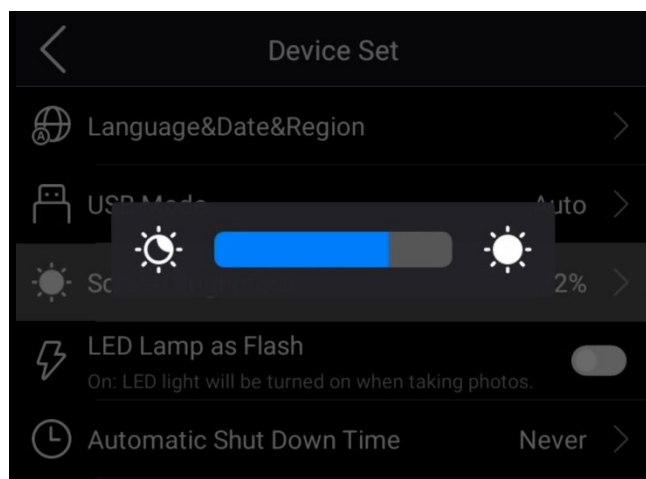
Set Date Format:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Language&Time&Region → Date Format.**
3. Set the date format parameter.



Screen Brightness:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Screen Brightness.**
3. Slide the screen or press the left/right buttons to adjust the screen brightness.



Location Information:

Refer to 13.6 Compass

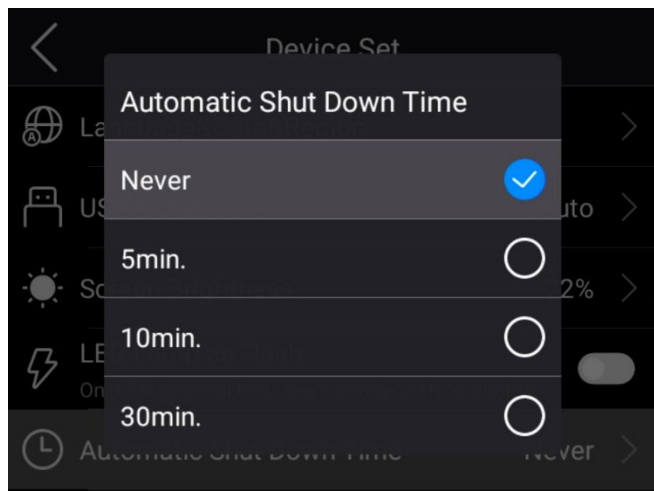
LED as Flashlight:

Refer to 13.7 LED Lamp

Auto Shutdown Time:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Automatic Shutdown Time.**

3. Set the auto shutdown time, which specifies how long the device will stay on after inactivity before automatically shutting down.

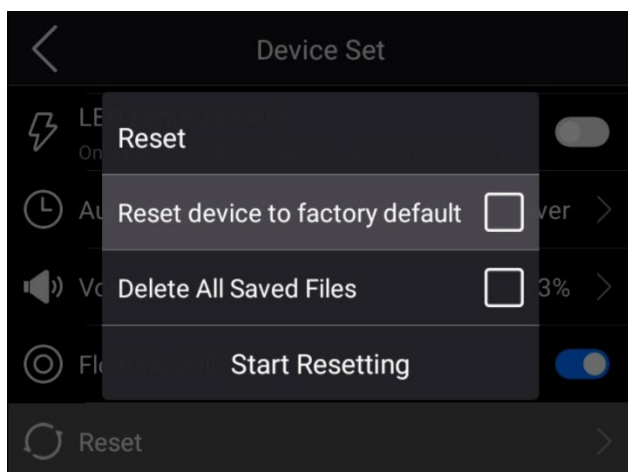


Volume:

1. On the main menu interface, press the OK button/touch the main menu to bring up the device menu.
2. **Device Menu → Settings → Device Set → Volume.**

Reset

Reset parameters to the factory default settings, or delete all saved files.



Device Information

View model, serial number, application version, system version, lens, battery level, remaining SD storage capacity, status information (IMEI, IP address, MAC address, Bluetooth address), system update.

