

UNI-T®



• **UT568B** Acoustic Imager

Let flaws nowhere hidden

Main Features

Microphone Channels

With 138 build-in low-noise MEMS microphones array for precise sound source localization.

Bandwidth

Capturing an extended acoustic spectrum from 2kHz to 100kHz.

Analysis Software

Supports to check time-domain waveform, frequency spectrogram, and PRPD pattern.

Focusing Mode

Concentrating the area of the acoustic imaging cloud map to display within a small range can reduce the interference from other noise cloud maps.

Minimum Leak Rate

>0.15m/s (0.5MPa, 0.5m)
>0.2m/s (0.5MPa, 1m)

Camera Modes

Supports to take snapshots and videos for real-time monitoring dynamic measurement data.

Detection Distance

Covering distance range from 0.3 to 150m to meet comprehensive detection.

Dynamic Range Adjustment

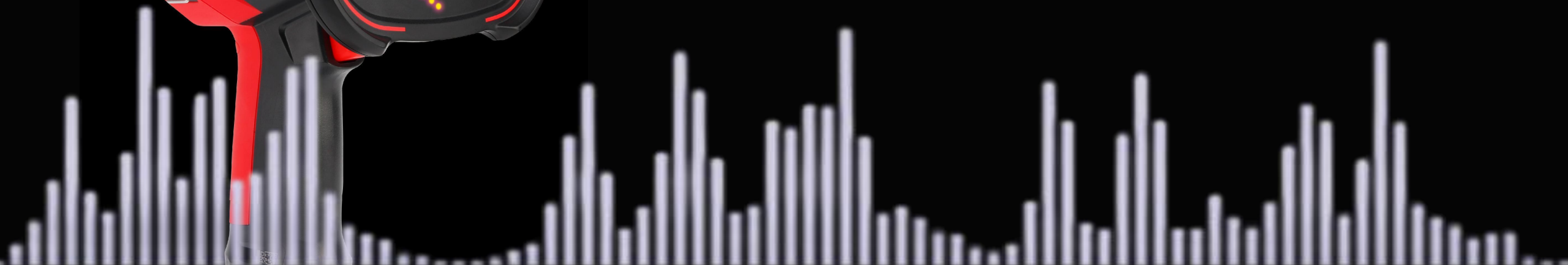
Easy to find out the tiny leaks.

High Sensitivity Digital Microphones

The more number of microphone channels, the richer the image details

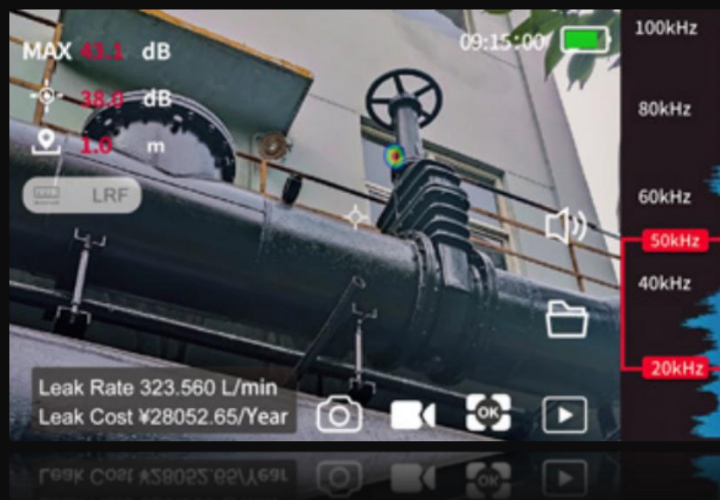
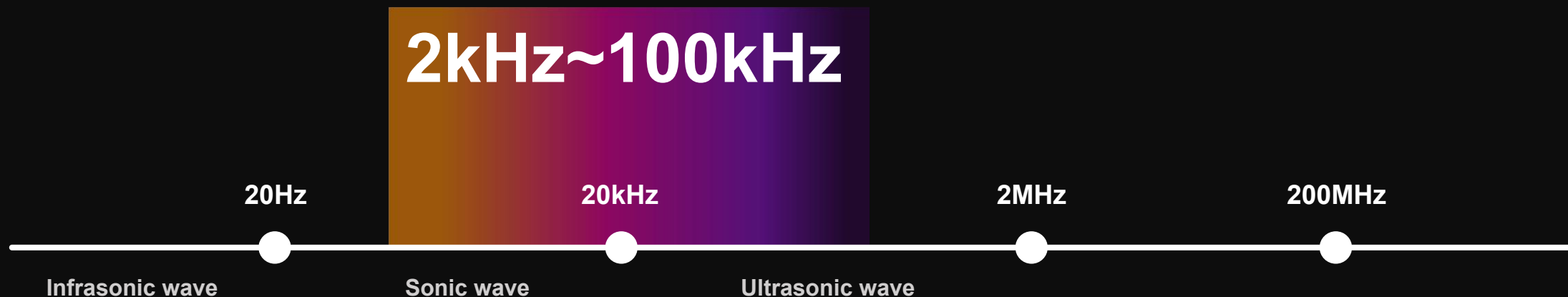


138 Digital MEMS Microphone Channels



Bandwidth

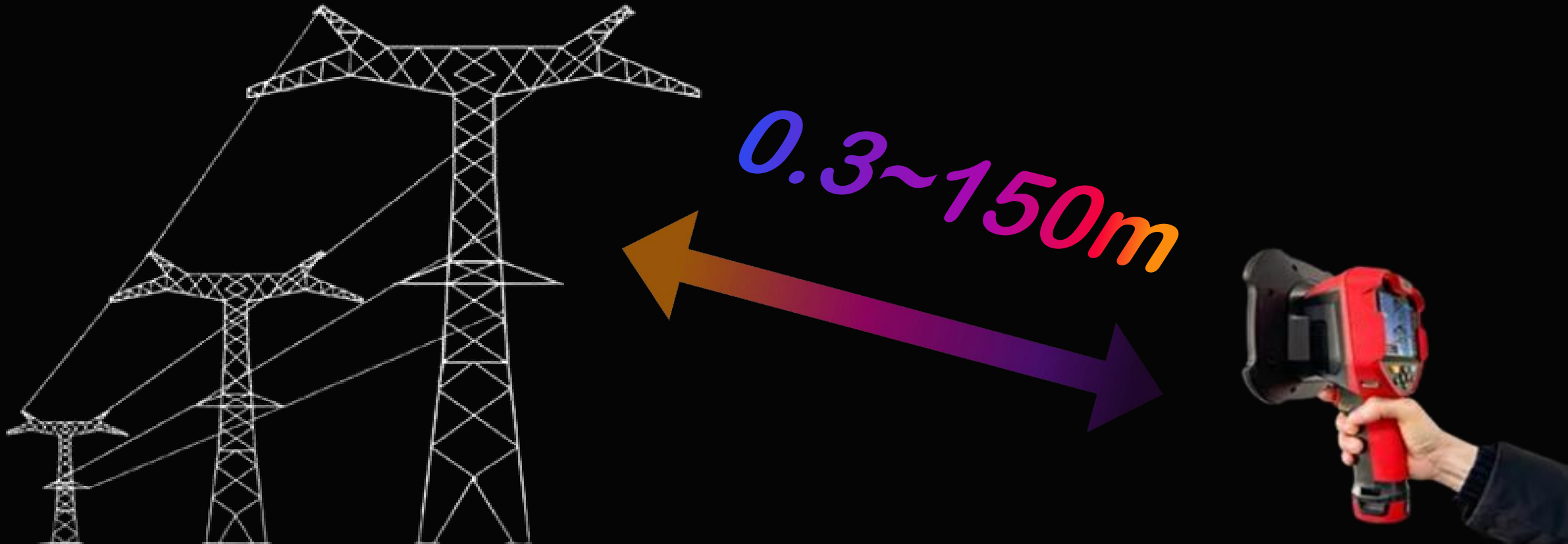
Display acoustic signal in a selectable bandwidth within the range between sonic wave and ultrasonic wave to avoid interference.



- Press & drag the centre areas of the select box to adjust the bandwidth range.
- Press & drag one side of the select box to set the upper/lower limits.

Detection Distance

Detecting targets at a safe distance, reducing the risk of approaching dangerous areas and ensuring the safety of operators. In inaccessible locations or complex environments, it can quickly scan larger areas, saving detection time and improving overall detection efficiency. It is suitable for scenarios such as large equipment, factories, long pipelines, etc.

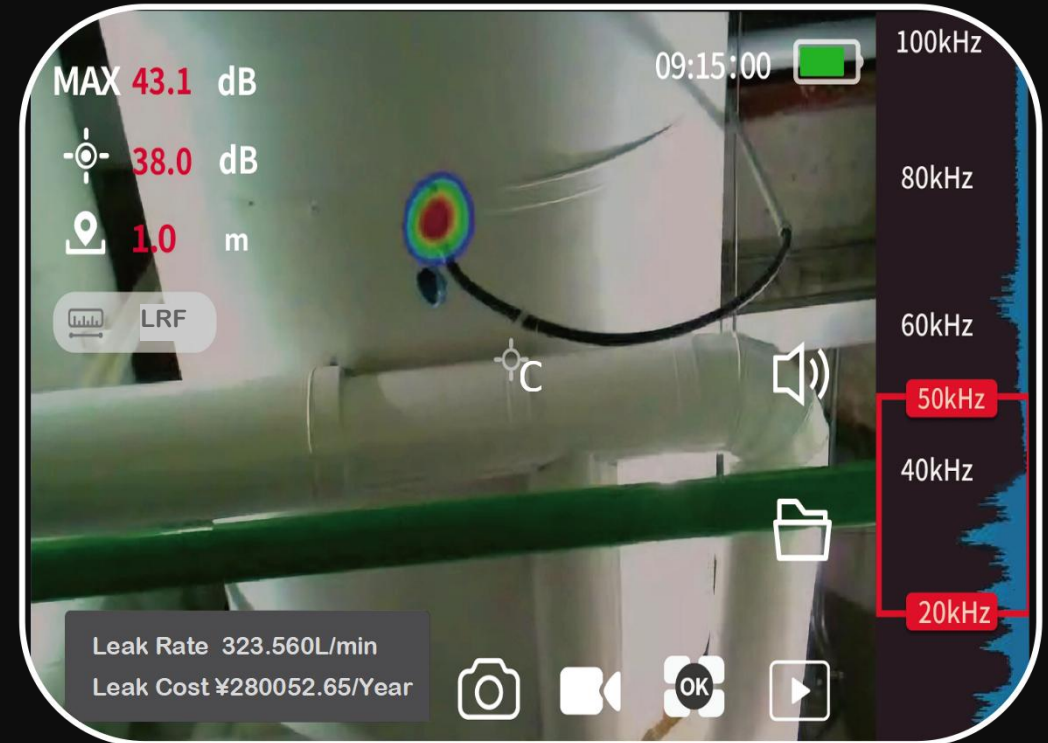


Measurement Modes

Partial Discharge Detection

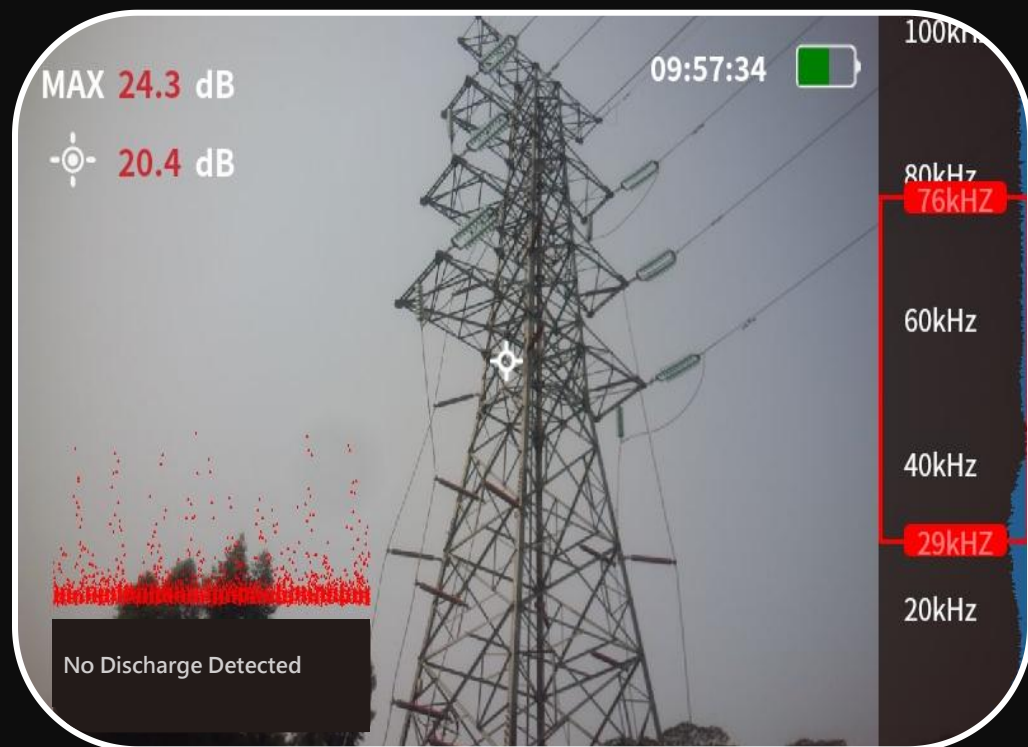


Gas Leak Detection



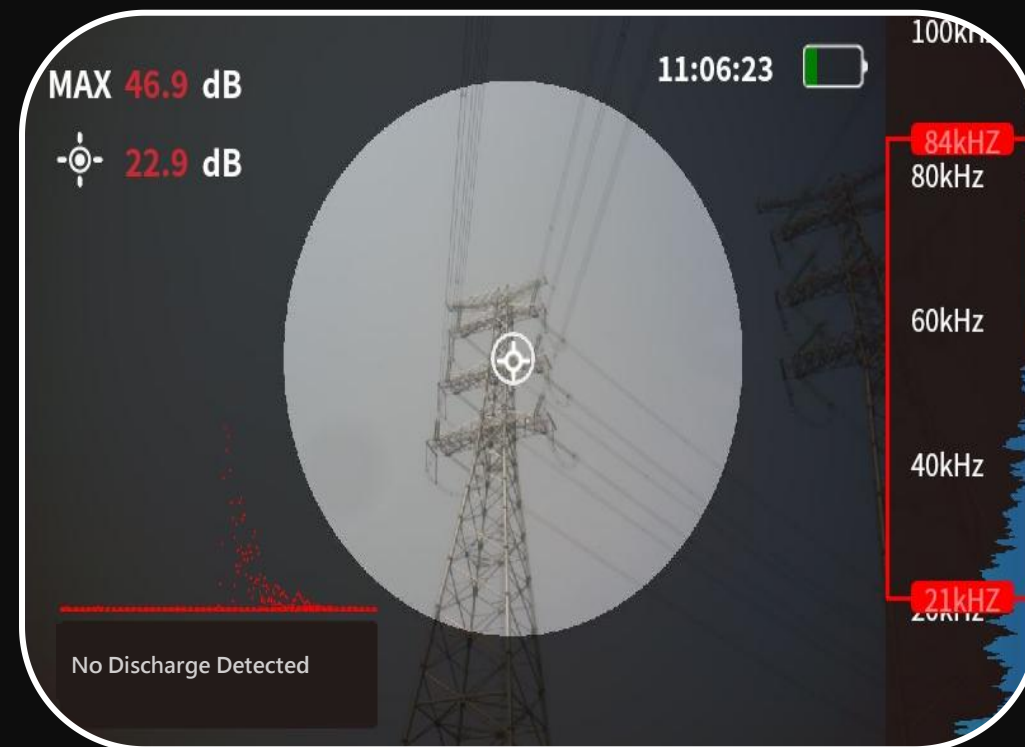
Imaging Display

Full-view Display



Providing a wide range of vision and imaging space, which is usually used in cases where large-area screening of partial discharge and gas leakage is required.

Focusing Display



Concentrating the area of the acoustic imaging cloud map to display within a small range can reduce the interference from other noise cloud maps.

Localization Modes

Featuring the ability to distinguish various sound sources, accurately locate the position and distribution strength of the sound sources.

Single Sound Source



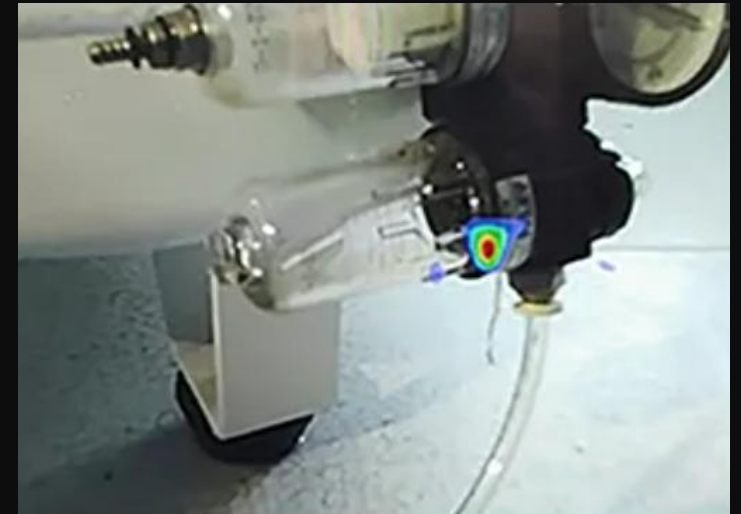
Only the sound sources with the loudest sound pressure level is shown.

Multiple Sound Source



Show multiple sound sources with relatively high sound pressure level.

Hologram



Show all sound sources whose sound pressure level greater than the threshold.

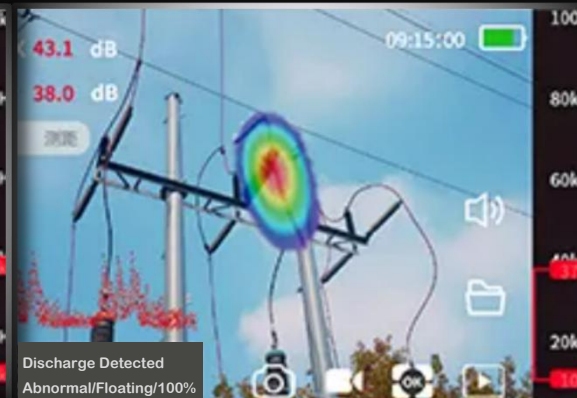
Dynamic Range

This feature enhances the applicability of the product and the operational convenience for users. Users can switch between different sizes of cloud maps based on task requirements, observation priorities, and factors such as obtaining more effective acoustic processing from the data, in order to observe acoustic phenomena, imaging, and analysis from different scales.

Small



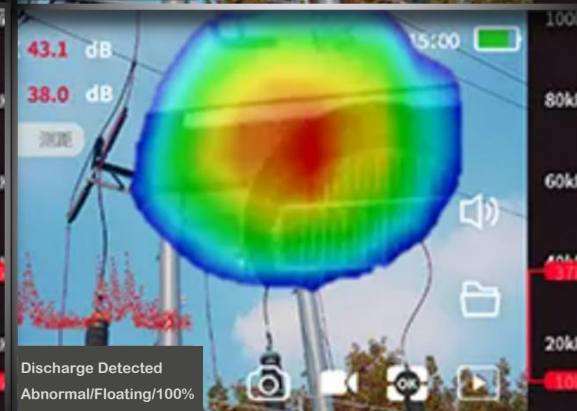
Medium



Large

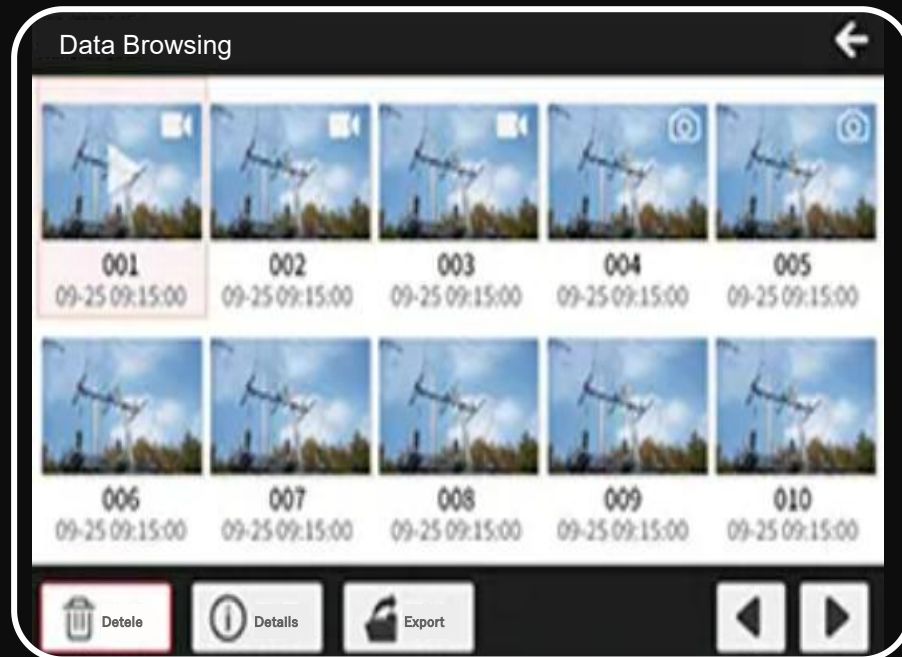


Extra Large



Camera Modes

Capable of recording real-time images and dynamic behaviors of sound sources, adding annotations for easy subsequent analysis; it can also be used for long-term monitoring, allowing for comparison of detection results at different times (with a 128GB TF card ensuring sufficient storage space).



Data Storage



Data Browsing

LED Supplementary Lighting

In a dim environment, users can adjust the brightness of the fill light according to actual detection needs, and provide illumination for the scene by supplementing light to reduce image blur, helping to locate problem areas or fault points.



Detachable Li-ion Battery Pack

UT568B is equipped with 2 detachable & rechargeable Li-ion battery pack to ensure battery duration ability.

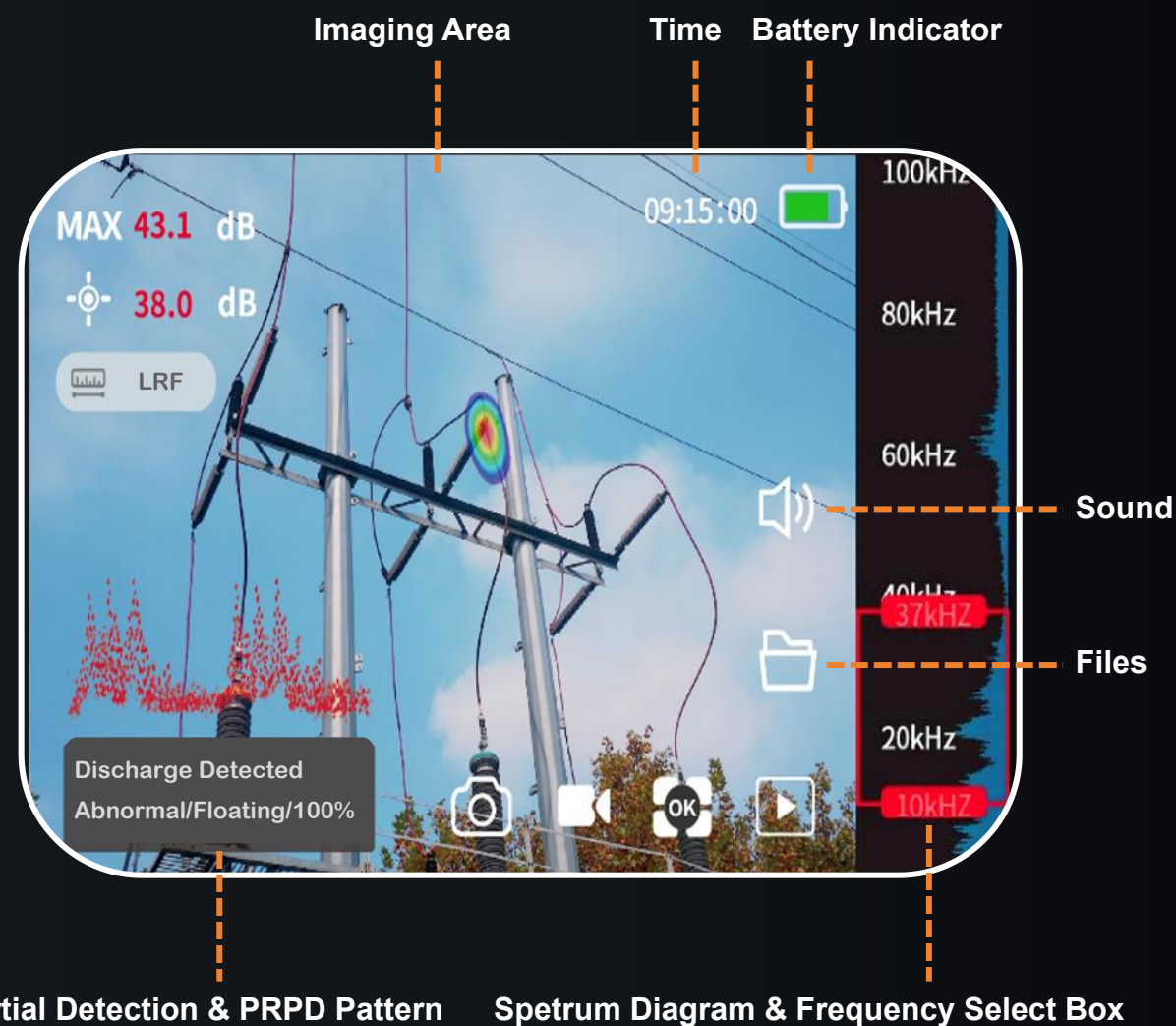
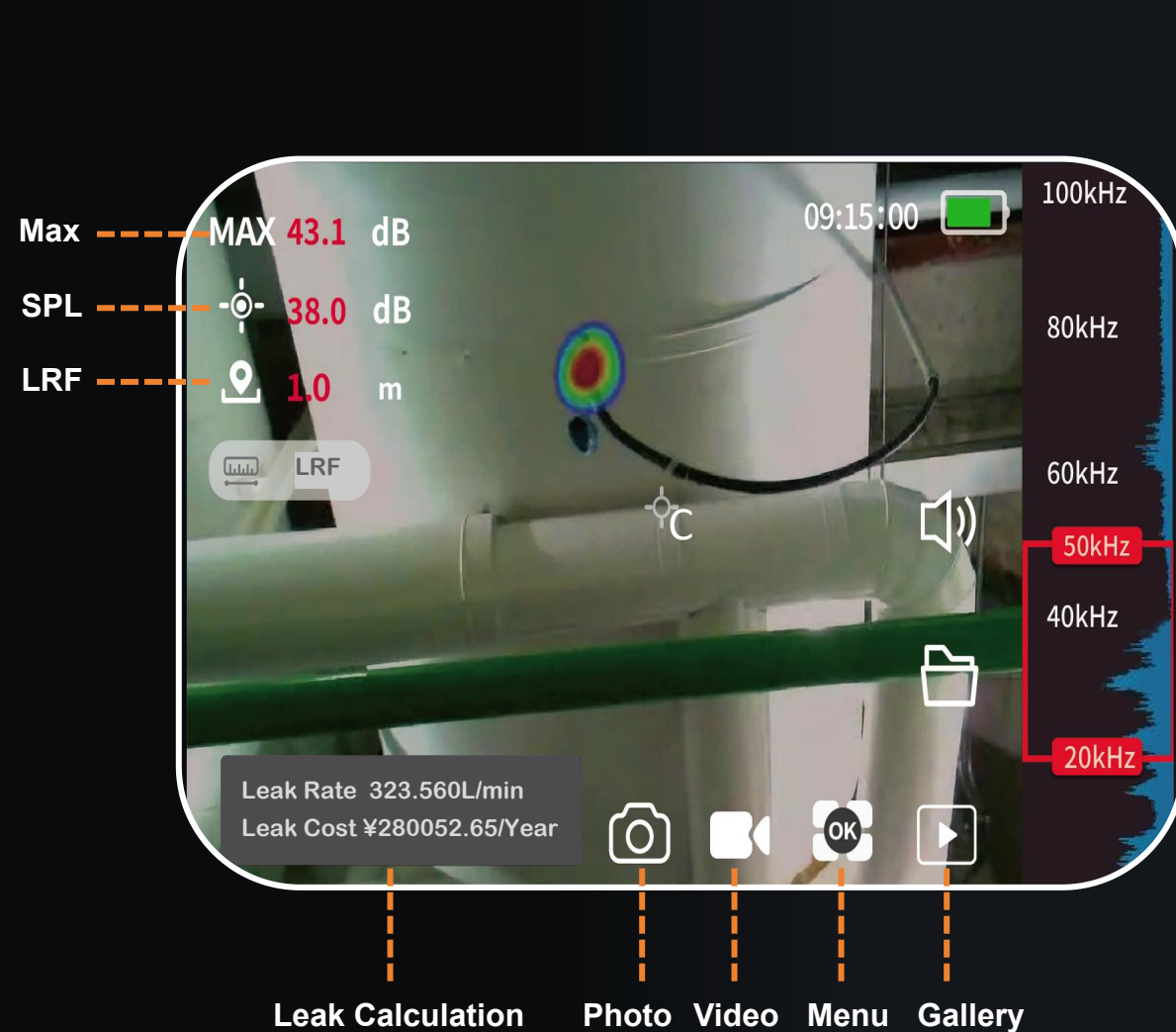


Model No. UT-M23



Note: Charging base is optional.

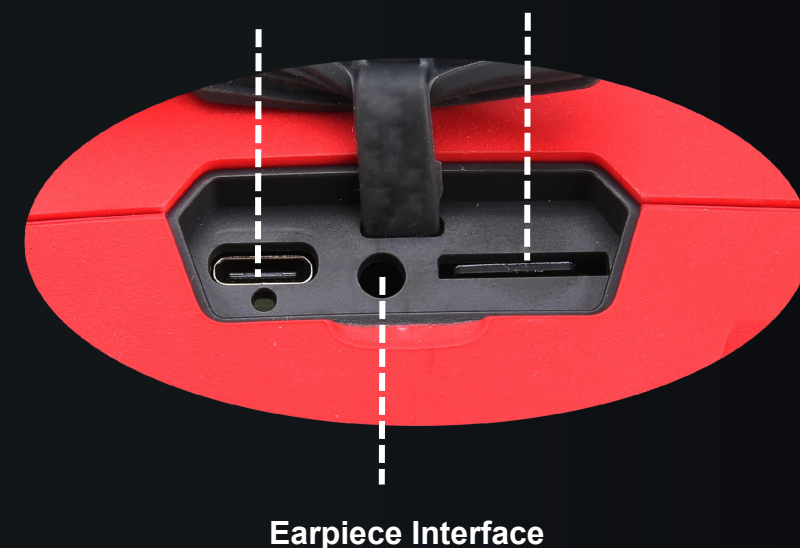
Operation Interface



Button Panel



Data Communication Interface SD Card Slot



Specifications

Model No.	UT568B
Technical Data	
Microphones channels	138
Microphones type	High sensitivity digital MEMS microphones
Array plane size	Approx. 150mm
Microphones sensitivity	-26dBFS@1kHz
Sound pressure sensitivity	Lower limit: <20dB Upper limit: >120dB
SNR(Signal to noise ratio)	64dB@1kHz
Bandwidth	2kHz~100kHz
Sound sampling rate	200kHz
Minimum leak rate	>0.15m/s (0.5MPa, 0.5m), >0.2m/s (0.5MPa, 1m)
Detection distance	0.3~150m
Acoustic imaging frame rate	25FPS
Display	4.3" Touch display screen
FOV	60°(H) x 40°(V)
Digital camera resolution(pixels)	13MP
Working temperature	-20~50°C

Model No.	UT568B
Functions	
Discharge detection type	Corona, Floating, Surface
Display mode	Single, Multi, Hologram
Threshold adjustment	Flitering background noise
LRF	30m
Auto enhancement	√
Photo capturing / video recording	√
Wireless connection	Wi-Fi & Bluetooth
Annotation	Text & voice
General Characteristics	
USB	Type-C
Communication interface	Data transmission & report generating
Storage capacity	128GB SD card
Image format	JPG
Video format	MP4
Audio format	WAV
Languages	ZH,EN
Weight	1.35kg
Dimension	163mm×286mm×140mm

- **UT568B Acoustic Imager**----- 1 pcs
- **UT-M23 Li-ion Battery Pack**----- 2 pcs
- **Power Adapter**----- 1 pcs
- **Type-C USB Cable**----- 1 pcs
- **Earpiece**----- 1 pcs
- **SD Card Reader**----- 1 pcs
- **SD Card (128GB)**----- 1 pcs
- **Quick start guide**----- 1 pcs

