

Product Datasheet - Technical Specifications



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FOTRIC

Sense the Digital Future

Empower Your Phone with Acoustic Vision

Light and Compact

64 Microphone Channels

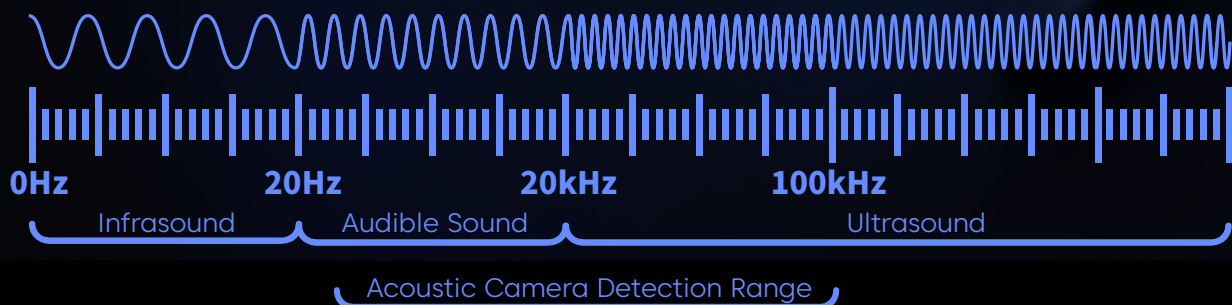


FOTRIC TD2e Geek
Smartphone Acoustic Imager

What is Acoustic Imaging?

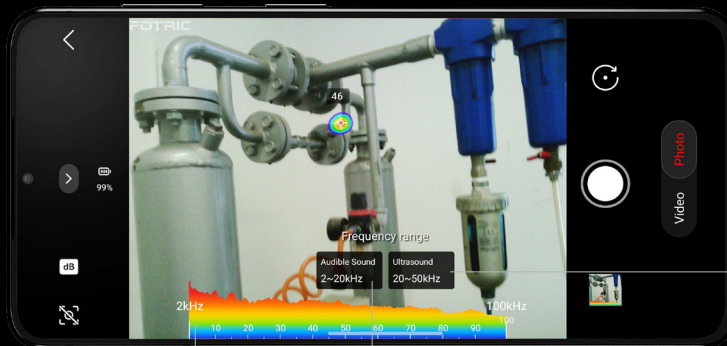
Limitation of Human Perception

The human ear can only perceive sounds in the range of 20 Hz to 20 kHz. However, hidden faults such as gas leaks, bearing wear, and electrical discharges often emit much higher frequency ultrasound (>20 kHz) — sounds that are imperceptible to the human ear and beyond the capabilities of traditional stethoscopes or microphones.



Multi-Range Frequency Coverage, Unlocking Ultrasonic Waves Beyond Human Hearing

Supports flexible frequency switching for different equipment and conditions, enabling precise sound source detection while suppressing environmental noise for more accurate identification of gas leaks, partial discharge, and mechanical faults.



Ultrasound
20~50kHz

20–50 kHz

Effectively suppresses environmental noise, making it ideal for high-precision detection scenarios such as gas leaks and partial discharge.



2~100kHz
Full-Range Manual
Frequency Adjustment

Audible Sound
2~20kHz

2–20 kHz

Ideal for mechanical fault diagnosis, equipment anomaly localization, and operating condition monitoring.

Professional Acoustic Imaging

64

Microphone
channels

2k~100kHz

Frequency Range

15Hz

Frame Rate

58°*45°

Field of View

200kHz

Sampling Rate

0.3~60m

Working Distance



Acoustic Image Focus

Eliminate Background Noise Interference

Plug-in and Shoot

101*77*22mm

Size

200g

Weight

≥4h

Continuous Operation

Android

Platform

Instant Share

Available for Images,
Videos and Reports

Ergonomic Handle

Come with anti-slip grip components

Video Recording

Support Image and
Video Capture

Adjustable Frequency Range

Options include Audible, Ultrasound
and Customize.



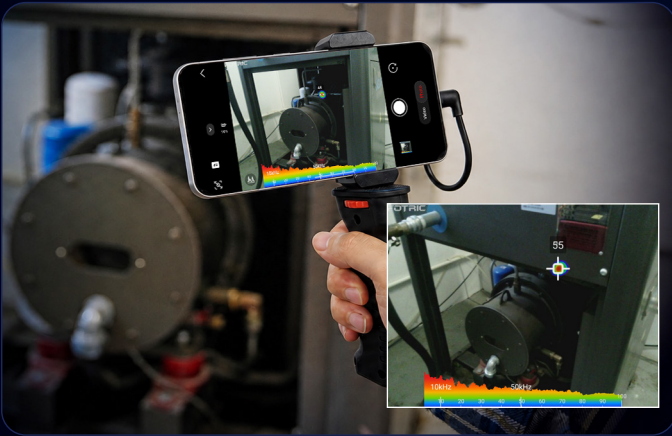
Applications



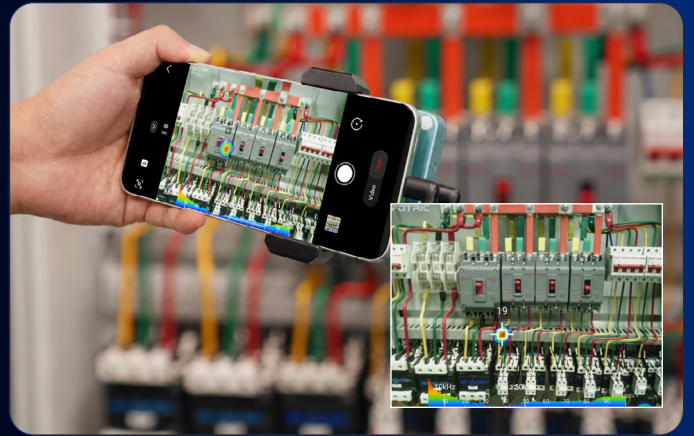
Compressed Air Leak/Vacuum Leak Inspection



HVAC Air Leak Inspection



Mechanical Equipment Fault Diagnosis



Partial Discharge Inspection



Manufacturing Line Quality Inspection



Vehicle Air Tightness Inspection

More Applications

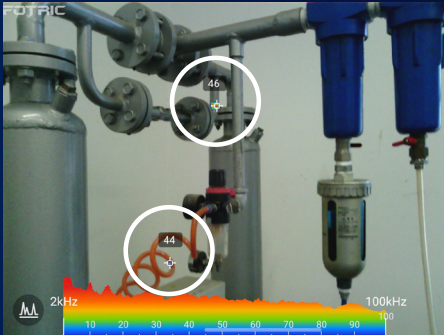
Scientific Laboratory, City Noise Monitoring, Animal Detection. Air Tightness Test, Industrial Site Noise Monitoring.

Multiple Image Modes

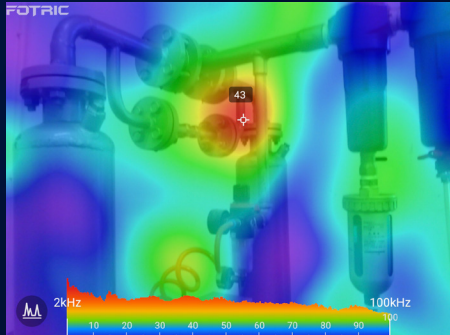
The imager supports multiple image modes, including single-source, multi-source, and holographic views, allowing users to adapt to varying noise complexities and detection targets on-site.



Single Source Mode



Multiple Source Mode



Hologram Mode

Specifications

Basic Parameters

Microphone Channel	64
Field of View (FOV)	58° *45°
Localization Error	<0.05m@1m, 40kHz
Sampling Rate	200kHz
Frame Rate	15Hz
Working Distance	0.3~60m

Measurement Analysis

Frequency Range	2k~100kHz
Frequency Selection	Support manually filter frequency range

Image Display

Display Mode	Single source, multi-source, hologram
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Data Connection

USB Interface	USB Type-C type; USB 2.0 compliant
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Power System

Battery	3.6V, 3200mAh rechargeable lithium battery
Battery Operation Time	Continuous work ≥ 4h
Charging Method	Support USB direct charging

Reliability and Certificates

Drop	Designed for 1m drop resistant
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Physical Parameters

Size	101mm*77mm*22mm
Weight	200g
Casting Material	Aluminum alloy

Warranty

Warranty	1 year
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Software

Software	Download 'FOTRIC Manisen' or 'FOTRIC Genie' from Google Play Store
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Product Configuration

Standard Configuration	Main unit, USB Type-C cable, Quick start Manual, Magnetic ring, Ergonomic handle, Softbag, Package box.
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