

**FOTRIC**

Sense the Digital Future

# See Sound

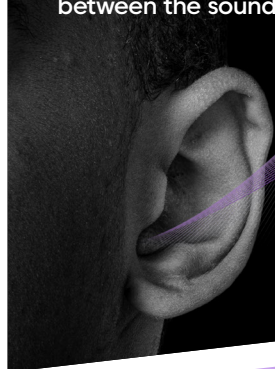


## FOTRIC TD2 Geek

Smartphone Acoustic Imager  
Real-time Sound Locating  
Plug and Shoot

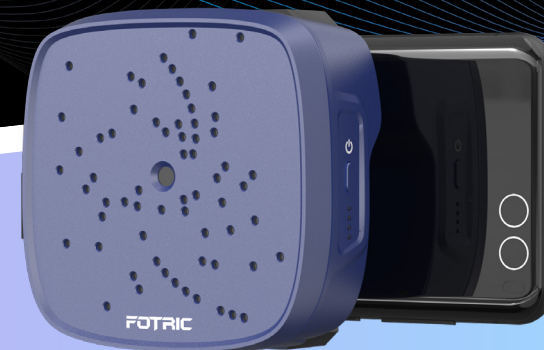
### Why do humans have two ears?

Ears are located on both sides of the head, we can hence determine the direction of a sound source by calculating the time and intensity differences between the sound from the left and right ear.



### Augment Your Hearing

TD2 Geek is like a hearing system with 64 "ears", which "listens" to sounds from different angles simultaneously through array microphones and reconstructs the direction of the sound source in three dimensions to see where it comes from.



### From the Human Ear to the TD2 Geek

The human ear can only hear sound frequencies ranging from 20Hz to 20kHz.

TD2 Geek supports wideband acoustic imaging from **2kHz to 50kHz**, breaking through the physical limits of the human ear and presenting sounds that are inaudible to us as images on the screen.



### From 'Hearing' to 'Seeing'

Imagine being able to see what you've only ever heard—that's exactly what an acoustic imager does. It uses an array of tiny microphones to capture sounds all around you, then calculates where each sound is coming from and how loud it is.

Those signals are turned into a colorful "sound map" over a real image, so you can literally watch where sounds come to live. It's like giving your ears a pair of eyes—suddenly, sound isn't just heard, it's seen.

# Hear Nature, Explore the Unknown

TD2 Geek lets you see positions of cicadas, birdsong, and discover the sound sources hidden in nature.



## Pet Rescue

A handy tool for finding stray cats and dogs



## Bird Locating



## Insect Tracking



## Ultrasonic Animal Exploration



## Ecological Sound Observation

# Recording the Wild, Make the Sounds of Nature Visible.



# Unlock the Rhythm



## See Your Voice Come Alive

Turn your vocal range into vivid sound waves and colors that reveal every pitch and tone.



## Watch Your Instrument Sing

Visualize resonance and balance to uncover your instrument's true sound quality.



## Map the Music Around You

See how sound flows through a room or theater and discover the perfect acoustic sweet spot.



## TD2 Geek Specifications

|                     |              |
|---------------------|--------------|
| Microphone Channels | 64           |
| Frequency Range     | 2k~50kHz     |
| Field of View       | 66°×52°      |
| Detection Distance  | 0.3~100m     |
| Digital Camera      | 5 megapixels |
| Enclosure Rating    | IP54         |

## 4-Hour Internal Battery

No Phone Drain,  
No Impact on Your  
Phone's Battery Life

# Deciphering the Sounds of the City



## Locating Wall Noises and Sounds

Find the sounds you can hear but can't see



## Electrical Noise Tracking

Detect high-frequency humming sounds from electrical equipment



## Mechanical Noise Investigation

Identify construction and abnormal machinery sound sources



## Locating Compressed Air Leaks

Visually locate leaky points for precise troubleshooting

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Compatible to Android