



PUIaudio

When You Need To
Be Informed

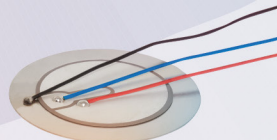
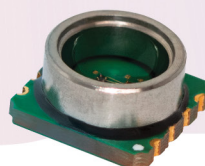
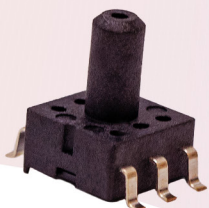
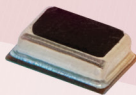


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About Us

About PUI Audio

Founded in 1972, we strive to provide the world with the most comprehensive line of high-quality audio, haptics and sensor components and innovative custom solutions, by applying our unique design approach and world-class customer care.

We believe integrity is the cornerstone of our success and strive to provide our employees a safe, clean, fulfilling, and enjoyable environment that allows them to achieve personal goals and advance their career development.

50+
Years
of audio experience

Experience You Can Trust

PUI Audio has 50+ years of experience in helping its customers find the right product for their application across multiple industries.

Our company history shows a commitment to driving the industry forward, and our focus on the future shows our willingness to push the boundaries of what is possible and develop new and innovative solutions.

Leading the Industry



1972

PUI Audio
Founded +
MFG Solid State
Buzzer

1973

Industry's first PCB
mounted electro-
mechanical buzzer

1975

Industry's first low
frequency panel
mounted audio
indicator

1976

Industry's first PCB
mounted piezo
ceramic audio
indicator

1978

Industry's first
externally driven
audio transducer

1993

Industry's first
surface mounted
transducers



2002

Industry's shortest
surface mount
transducer

2003

Industry's smallest
surface mount
transducer

2005

SM Transducer
Apple iPod

2011

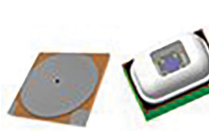
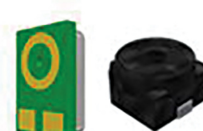
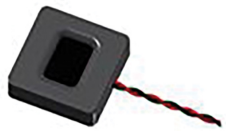
Programmable
Indicator

2017

Exciters Mobile
Speakers HD
Microphones
Ultrasonic Sensors

2018

PUI Audio Acquired
by Champlain
Capital



2019

DSM with Maxim
Speakers for
Ventilators

2020

MEMS Microphones
Smallest SMT (3x3)
Programmable
Indicator

2022

Introduced
Haptics Product
Platform

2023

Piezo Haptics &
Pressure Sensors

2024

Patented Haptics
Actuator

Future +

Many More
To Come



Our Focus

PUI Audio aims to be the global leader of innovative audio, haptic, and sensor solutions. When it needs to be informed across industries, PUI Audio ensures important information is heard, felt, or sensed clearly, quickly and efficiently.



Our Unique Approach

Headquartered in Dayton, Ohio—the birthplace of aviation—PUI Audio carries forward a legacy of innovation and engineering excellence. With a global distribution network, our solutions are in stock and ready to ship around the world.



Our Quality

The policy of PUI Audio is to be a growth-oriented world class provider of Quality products and services committed to satisfy applicable requirements, consistent with an acceptable return, to ensure a future for our stakeholders, while continually improving the quality of our top management system.



Our Core Values

We're guided by strong core values: customer-focused, passionate, responsive, accountable, ethical, and collaborative. These values drive our decisions, ensuring we always put our customers first.

Custom Solutions

PUI Audio has built our reputation on not just providing audio, haptics, and sensor components but also the expertise and engineering solutions you need to make them work for you.



Design

We work closely with engineers, designers, original equipment manufacturers, contract manufacturers, and consultants to deliver unique solutions using the latest in design and simulation software.



Prototype

After a preliminary design is agreed upon, PUI Audio builds a prototype in as little as 24 hours using one of three in-house 3D printers and assembles it in our engineering lab.



Test

When the prototype is complete, we test it for proof-of-concept using three different measurement systems for triple confirmation of performance and then send it to you for final evaluations.



Manufacture

Once you are happy with the design and performance, we work with the factory to ensure the best practices in manufacturability are used to deliver a solution that meets your needs.

Industries Served

PUI Audio aims to be the global leader of innovative audio, haptics and sensor solutions. When it needs to be informed, PUI Audio ensures important information is heard, felt and sensed clearly, quickly and efficiently.



Medical

PUI Audio can power the patient experience, ensuring vital information is communicated and understood, expediting needs and keeping the focus on patient care.

APPLICATION:

- Patient Monitoring Equipment
- Diagnostic Imaging Equipment
- Patient Entertainment
- Defibrillators



Security

PUI Audio can power the patient experience, ensuring vital information is communicated and understood, expediting needs and keeping the focus on patient care.

APPLICATION:

- Metal Detectors
- Retail Alarms
- Elevators
- Smoke Alarms



Industrial

PUI Audio can power the patient experience, ensuring vital information is communicated and understood, expediting needs and keeping the focus on patient care.

APPLICATION:

- Charging Stations
- Gas Detection
- Elevators
- Construction Equipment



Consumer

PUI Audio can power the patient experience, ensuring vital information is communicated and understood, expediting needs and keeping the focus on patient care.

APPLICATION:

- Touchless Payment Systems
- Ovens
- Baby Rockers & Sleeping Beds
- Device Sterilizers

Our Products

Audio



We offer a broad range of innovative high quality audio components and added value solutions to OEMs in the medical, industrial, security, and consumer markets.

Haptics



We can help you optimize the best solution from our range of haptics technology platforms from eccentric rotating mass to piezoelectric actuators.

Sensors



Our MEMS pressure sensors demonstrate the ingenuity of integrating piezoelectric components onto a single silicon chip.



When It Needs To Be Heard

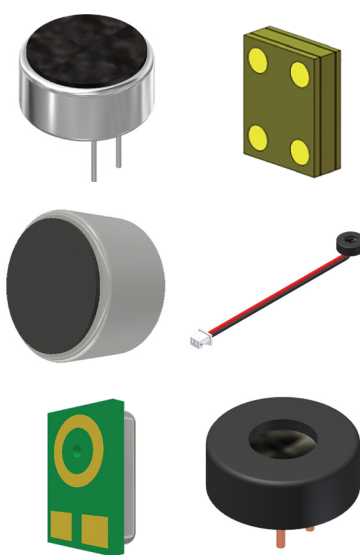
**More Than a Manufacturer.
We Are Your Partner.**

At PUI Audio, we design and manufacture high-quality audio components that meet the exacting demands of the audio industry. Our expertise in transformers, inductors, and coils enables us to deliver customized solutions that enhance sound quality and performance.

Speakers



Microphones



Buzzers



Speakers

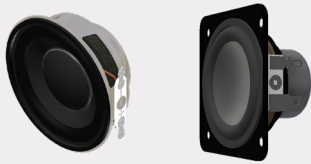


Discover PUI Audio's diverse speaker selection, from 10mm to 5-inch full-range speakers. Our speakers cater to various applications, including wide frequency range, music/voice reproduction, and IEC compliance, with options like in-ear receivers, passive radiators, and more, featuring IP ratings and high-temperature resistance.

Medical Speakers

(IEC 60601-1-8)

- A pulsed frequency between 150 Hz and 1 kHz
- At a minimum of four harmonics of the pulsed frequency between 150z Hz and 4kHz
- SPL of the harmonics ± 15 db of the pulsed frequency



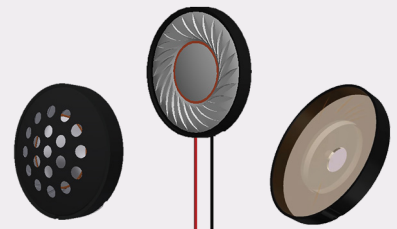
High Durability

- Suitable for harsh rugged environment
- IP Rated water resistant and waterproof
- Capable to withstand 105°C
- Immersion 1m deep for 30 min



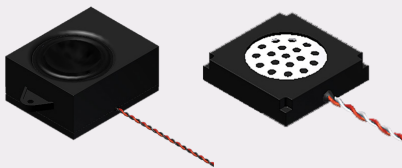
Receivers

- High quality audio
- Compact Profile 2-6mm tall
- In-ear monitoring systems
- Also Available custom IP rated



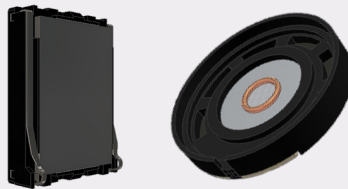
Speaker Systems

- Well designed optimal enclosure
- Maximize performance & output of speaker
- Various configurations



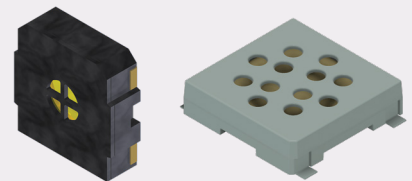
High Fidelity

- New 20-58mm speakers
- Slimmer profile
- Low resonant frequency
- Up to 12W
- Strong neodymium magnet



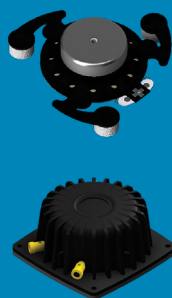
Surface Mount

- 13mm to 25mm
- Automated PCB assembly
- High temperature



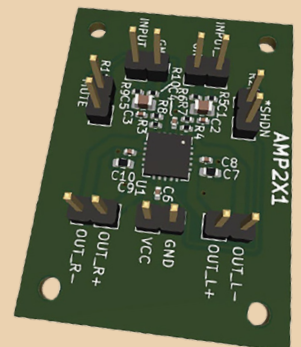
Exciters

Integrate audio discreetly with our Exciters, which transform objects into invisible speakers by transmitting vibrations through direct coupling. This innovative design ensures no low-frequency sound loss and is available in various sizes (20mm-4 inches) with a frequency range of 5Hz-20KHz.



Amplifier Boards

Series of amplifier evaluation boards optimized for different power levels designed for fast and efficient speaker testing or as a turn-key, ready-to-implement audio amplifier solution in a larger overall design.



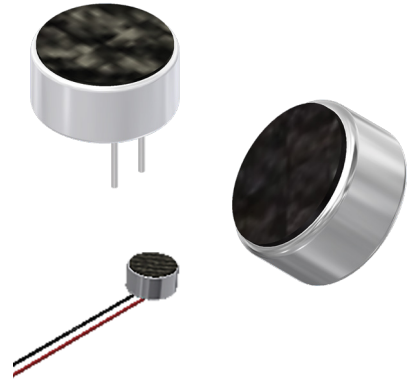
Microphones



Find your ideal microphone with PUI Audio's extensive lineup, featuring Electric, Analog MEMS, and Digital MEMS options. Our compact microphones (as small as 2.75 x 1.85 x 0.90mm) offer high performance, with SNR up to 80dB, low distortion, and suitability for omnidirectional, unidirectional, and noise-canceling applications.

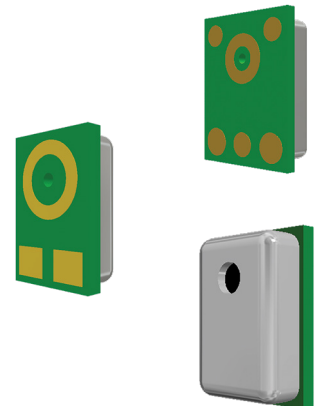
ECM Microphones

PUI Audio's Electric Condenser Microphones (ECMs) deliver clear, high-fidelity sound capture for a wide range of applications, including voice recognition, communication devices, medical equipment, and industrial monitoring. Engineered for low noise, high sensitivity, and durability, our ECMs are available in various sizes, directional patterns, and signal output configurations to meet diverse design requirements.



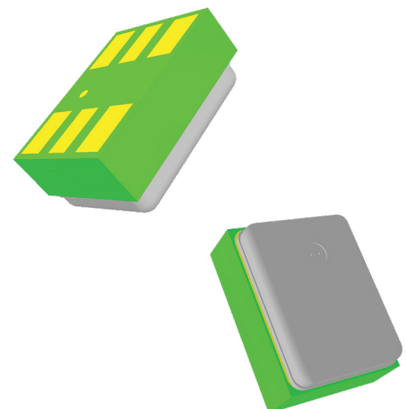
MEMS Microphones

PUI Audio offers premium, high-fidelity MEMS microphones with $\pm 1\text{dB}$ unit-to-unit consistency from 20Hz to 18kHz—up to 30kHz on select models. Available in both analog and digital options, they are optimized for cloud-connected and battery-powered devices, featuring low-power modes and left/right channel configuration for stereo recording. Some models also offer IP-rated waterproof designs for enhanced durability.



Bone Conduction Microphones

Bone Conduction Microphone: Patented surface-mount micro-electromechanical systems (MEMS) microphone enhances the hearing experience in the most challenging environments over standard microphones. It works by sensing vibration signals accurately and reliably transmitted through bone, eliminating surrounding noise. Its compact size allows for easy integration and design flexibility across various applications.



Buzzers

PUI Audio offers electromagnetic and piezoelectric buzzers, each tailored to specific needs. Electromagnetic buzzers are ideal for simple tone generation and low-cost applications, while piezoelectric buzzers are more durable, efficient, and generate higher frequencies, making them perfect for compact or battery-powered devices. Our indicators include an internal circuit for easy integration, while piezo benders and transducers require an external drive for operation.



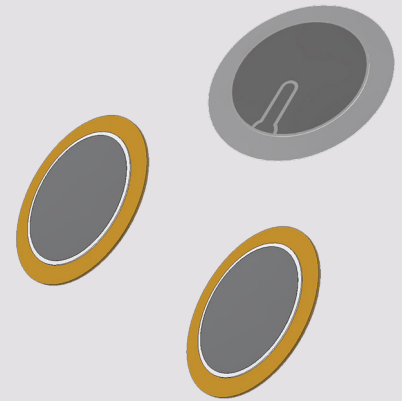
Indicators

PUI Audio indicators are a simple self-driven, drop-in solution for applications requiring a simple tone or siren sound. Choose electromagnetic types for richer sound quality and better low-frequency response, or opt for low profile piezoelectric types for sharp, high-pitched tones. Our indicators are available in sizes from 9.5mm to 155mm, with various mounting options and the ability to withstand harsh environments.



Piezo Benders

Simplify your design with PUI Audio's piezo benders, offering a space-saving solution for applications requiring multiple tones, high output, and low power consumption. Available in sizes from 8mm to 65mm, with resonant frequencies from 1kHz to 18kHz, these versatile elements can be used in media players, smoke detectors, switches, contact microphones, and actuators.



Transducers

PUI Audio's transducers give designers precise control over tone and volume, leveraging their own drive circuit or processor. Choose from electromagnetic types for rich sound and better low-frequency response, or piezoelectric types for sharp, high-pitched tones. Our transducers come in sizes from 3.2mm to 85mm, with various mounting options and harsh environment durability.



haptics

What's the Buzz About

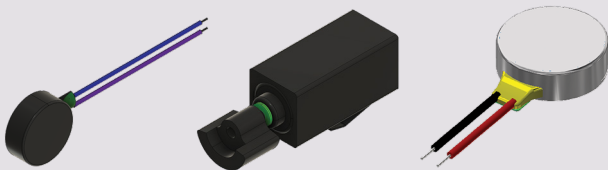
We Can Help You Select the Most Effective Haptics Solution.

Elevate user experience with PUI Audio's haptic solutions, delivering nuanced vibration patterns and realistic tactile feedback. Our precision-engineered actuators and drivers enhance engagement in wearable devices, gaming controllers, and more.



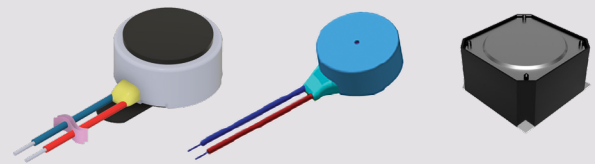
Eccentric Rotating Mass (ERM) Haptics

Feel the buzz through cylindrical, coin or surface mount actuators.



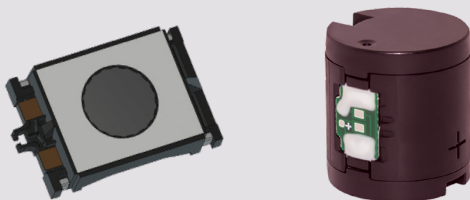
Linear Resonant Actuator (LRA)

Experience a Smooth, Refined Touch with Coin-Style or Surface-Mount Haptics



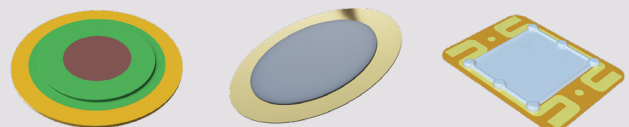
Voice Coil Actuators

Where Audio Meets Tactile Innovation



Piezo Haptics

Feel Focused, High-Fidelity Vibration through Bender, Cymbal and Flexible Form Factors



sensors

Coming to Your Senses

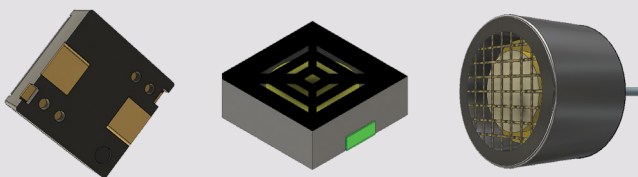
Empowering Innovation in Audio and Sensing Solutions

Unlock new possibilities with PUI Audio's sensor solutions, designed to detect and measure vital signals, movements, and environmental changes. Our sensors provide accurate and reliable data, enabling innovative applications in health monitoring, motion tracking, robotics, and IoT devices.



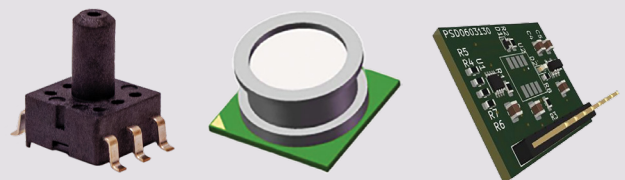
Ultrasonic

PUI Audio offers comprehensive ultrasonic solutions, including transmitters, receivers, and transceivers, with frequencies ranging from 40KHz to 295KHz. Our compact components (5mm to 18mm) offer various mounting options, ideal for distance detection, object detection, and flow measurement.



MEMS Pressure Sensors

MEMS Pressure Sensors: Our MEMS pressure sensors are available in small, surface-mount packages ranging from 1.5 mm to 7 mm, with pressure ranges from -40 kPa to 700 kPa in analog or digital output, with some models featuring waterproof capabilities. Our sensors are calibrated and compensated to deliver excellent linearity, high sensitivity and stability.





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