



# LET US TAKE THE GUESSWORK OUT OF AUDIO

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# Who We Are

- Stetron is a global provider of audio solutions to companies big and small. We support innovation with a range of components that can be customized to meet individual requirements along with strong audio Engineering support.
- Audio components including **microphones (ECM's)**, **dynamic receivers** and **loudspeakers**.
- Application and design support to optimize acoustic performance.
- Technologically advanced products at competitive prices
- Stetron maintains a global presence with offices in Toronto Canada, Buffalo, NY, Taipei Taiwan, Ningbo and Foshan China.



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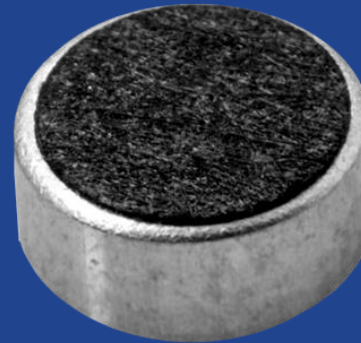
# Our Core Offering



Loudspeaker  
Drivers



Dynamic  
Receivers



Electret  
Condenser  
Microphones



Integrated Audio Solutions

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# THE FUTURE IS LISTENING

## Product Overview

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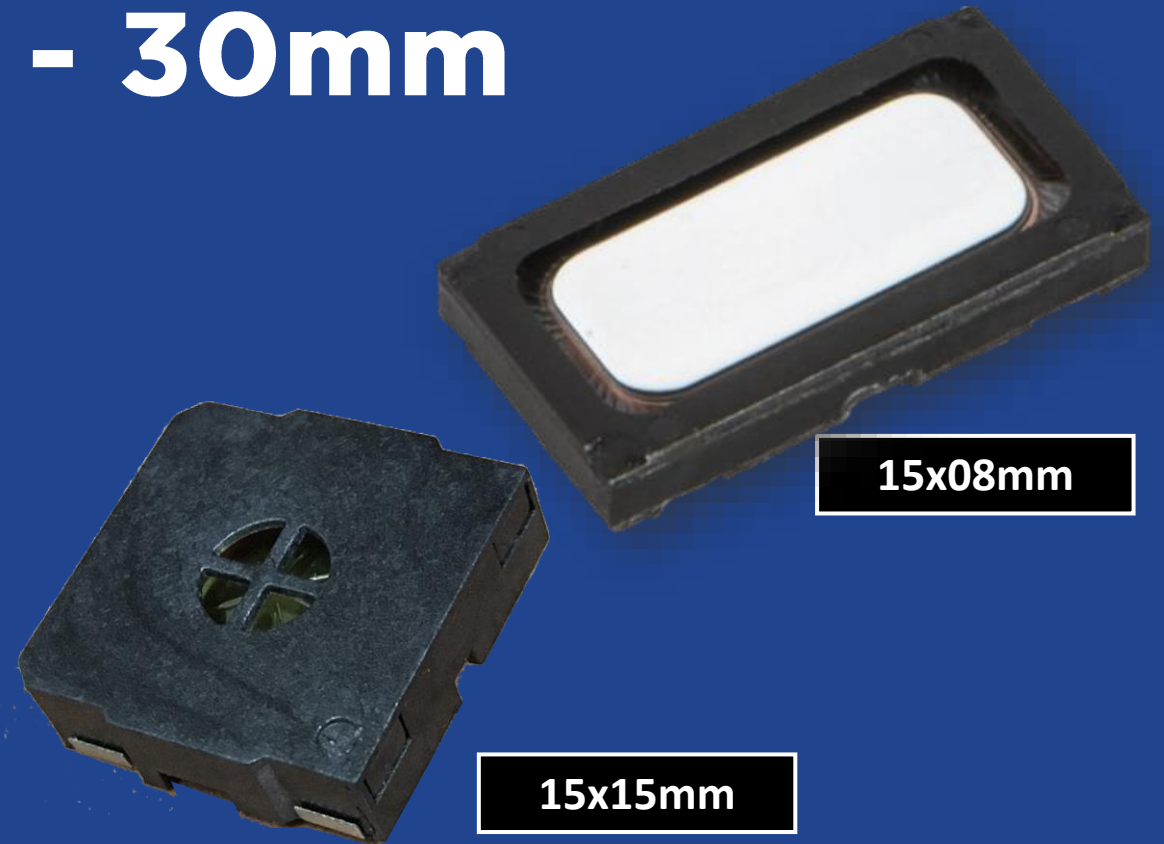


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# Micro-Speakers 10mm - 30mm

## Features

- Very Rugged Design
- Compound Cone designs
- Low THD
- High SPL
- Round, rectangular and oval form factors



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# Mid Size Speakers 36mm - 57mm

## Features

- Low profile
- Wide band and narrow band
- Low THD
- High SPL
- Round, rectangular and oval form factors
- Low  $F_o$



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# Large Size Speakers 57-200mm



103mm x 103mm



132mm x 45mm



Available as 66mm or 77mm

## Features

- High Power
- High Output
- Round, rectangular and oval form factors
- Wideband up to 20kHz

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# Dynamic Receivers 6mm – 40mm

## Features

- Low profile
- Wide band and narrow band per TIA
- Low THD
- High SPL
- Encapsulated
- HAC Compatible



**32mm**  
Encapsulated



**32mm**



**Other Form Factors**  
Also Available

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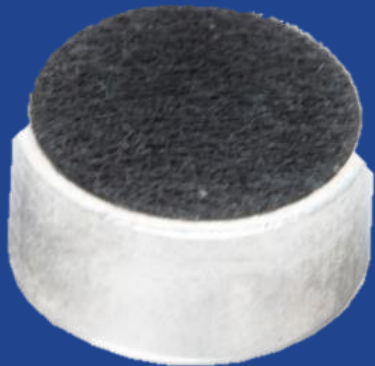




# Electret Microphones 4mm-10mm



10x5mm



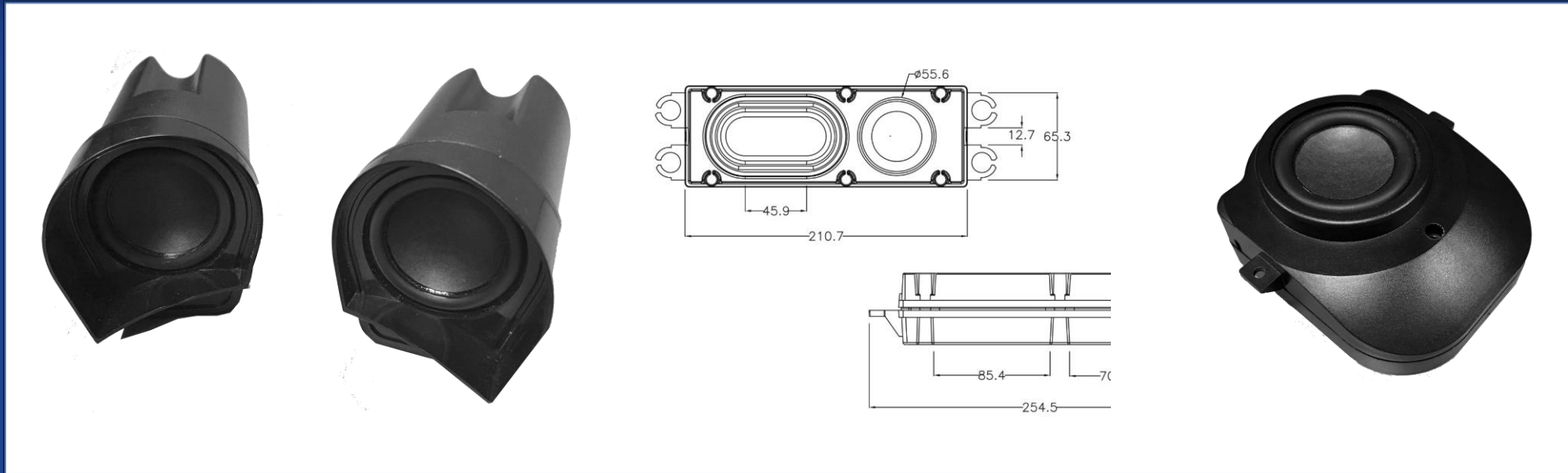
4x1.2mm

## Features

- Omni and Uni directional
- Noise cancelling
- SMT, Pin and Wire type
- High sensitivity and SNR
- Water proof to IPX 8 – 200M
- Phase Control
- High Input SPL

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# Integrated Audio Systems

- We can create custom enclosures for:
  - Woofer
  - Tweeter
  - Passive Radiator
  - Mid Range
  - 3D Print or CNC Prototyping

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# Telecom Speakers, Receivers and Microphones

## Features

- Up to 18kV ESD Tolerance
- Rigid Quality Standards
- Flat Frequency Response
- Low THD

## Applications

- Telephony
- Conference units
- Laptop Computers
- Intercom
- Instrumentation
- Headsets

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# Fire and Emergency Evacuation Speakers

## Various Sizes Available from 2" - 8"

- Indoor/Outdoor
- UL1480(2005)
- ULC
- UL217 520Hz smoke alarm Standard.
- High output, flat response, and low distortion
- Extensively tested, qualified for UL & ULC component compliance



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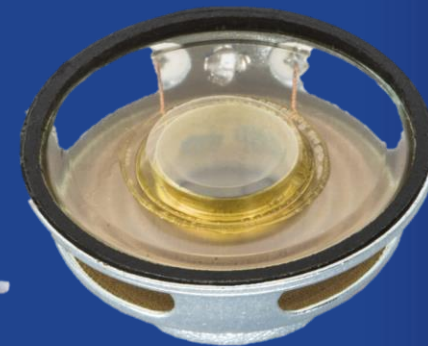
## Markets We Serve

# High Temp, Waterproof Speakers and Microphones for Respiratory Protection Applications

- Stetron supplies speakers and microphones for communications systems for use in harsh or hazardous environments.

- Key Features:

- High Temperature per NFPA
- Waterproof
- Low Distortion
- High SPL Output (Speakers)
- High SPL Input (Microphones)
- High SNR (Microphones)
- Small Footprint
- Low Profile



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Markets We Serve

# Speakers for Medical Applications

## Features

- High Output SPL
- Low Profile Options
- Low Fo
- Small Footprint
- Water Resistant

## Applications

- Nurse Call
- Ventilators
- AED
- PERS
- Medical Monitors

Ideal for medical applications requiring IEC 60601-1-8.

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## Standard Services

- Acoustic component recommendation
- Component performance verification
- Component prototyping support
- Comprehensive audio component evaluation and suggestions for performance optimization.



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## Lab Facilities

- Anechoic Chamber
- Standard IEC268-5 Baffle
- B&K Artificial Ears and HATS
- Klippel, Clio and SoundCheck Audio Measurement System
- Constant calibration of test equipment ensures complete confidence in test results.
- B&K Handset Positioner
- B&K Measurement Microphones
- Simulation Software (Winspeakerz)



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# Design Support

- Customized acoustic component design
- Component and System Simulation
- “Fast to Market” Project Optimization
  - CNC samples – Component
  - SLA, CNC, 3D capabilities
- Benchmark product investigation and comparison
- Various enclosure concepts including ported, sealed and passive radiator designs.

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# Audio Test and Measurement Solutions

- Services Include:
  - Application Engineering
  - Enclosure Design
  - Prototyping
  - End to End Product Design
  - Acoustic Testing



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# Integrated Audio Solutions

- We can develop enclosure solutions of various types such as ported, sealed, and passive radiator builds for audio sub-assembly.
- Software simulations and rapid prototyping:
  - Proof of concept
  - 3D prints and CNC To optimize all manufacturing functions, we conduct a full DFM review before transitioning into production.
- Agile product development ensures optimal cost with quickest turnaround.



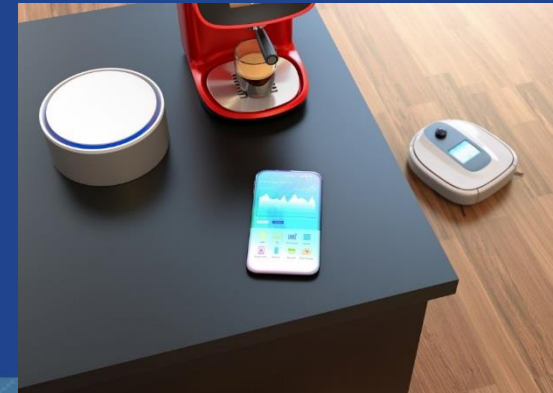
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# Future Direction: Our Technology and Our Vision

To competitively offer the acoustical characteristics of Hi-Fi loudspeakers,  
into smaller sized speakers.

Low profile, Low F0, high output and low THD.



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# Stetron Value Proposition

- Deliver superior, standard and custom high-end solutions
- Achieve standard price point through volume
- Differentiate through technical superiority
- Extensive testing and modeling support
- Support partner “fast to market” design cycle collaboration
- Optimized performance and cost
- Local N.A. & Asian audio engineering, test support
- Excellence in service and support

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# Resources Review

- Audio Engineering Design Capability
- Anechoic Test Chambers
- Sophisticated Audio Analysis Software
- Speaker Modeling Capabilities
- Enclosure Design Capabilities
- Extensive Environmental test facilities
- Consulting Services

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# Contact Us

- Email Us: [contact@stetron.com](mailto:contact@stetron.com)
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