



# STETRON PRODUCT GUIDE

Whether your application calls for the right Loudspeaker, Microphone, Dynamic Receiver or a Full Box Solution, we have the experience and knowledge to support you from concept through to production.

Product	Features	Applications
 <p><b>Micro-Speakers</b> 10mm - 30mm</p>	<ul style="list-style-type: none"> <li>▶ Ultra - slim profile</li> <li>▶ Compound Cone designs</li> <li>▶ Low THD</li> <li>▶ High SPL</li> <li>▶ Round, rectangular and oval form factors</li> </ul>	<ul style="list-style-type: none"> <li>▶ Mobile devices</li> <li>▶ Wearables</li> <li>▶ PNDs (GPS)</li> <li>▶ Notebook computers</li> <li>▶ Connected home</li> </ul>
 <p><b>Mid Size Speakers</b> 36mm - 57mm</p>	<ul style="list-style-type: none"> <li>▶ Low profile</li> <li>▶ Wide band and narrow band</li> <li>▶ Round, rectangular and oval form factors</li> <li>▶ Low THD</li> <li>▶ High SPL</li> </ul>	<ul style="list-style-type: none"> <li>▶ Telephony</li> <li>▶ BT sound box</li> <li>▶ Tablets</li> <li>▶ BT car kits</li> <li>▶ GPS</li> <li>▶ Multi Media</li> </ul>
 <p><b>Telecom Speakers/Receivers</b></p>	<ul style="list-style-type: none"> <li>▶ Up to 18kV ESD Tolerance</li> <li>▶ Rigid Quality Standards</li> <li>▶ Flat Frequency Response</li> <li>▶ Low THD</li> <li>▶ Wide band and narrow band</li> </ul>	<ul style="list-style-type: none"> <li>▶ Telephony</li> <li>▶ Conference units</li> <li>▶ Laptop Computers</li> <li>▶ Intercom</li> <li>▶ Instrumentation</li> <li>▶ Multi Media</li> </ul>
 <p><b>Commercial Sound</b></p>	<ul style="list-style-type: none"> <li>▶ Very Rugged Design</li> <li>▶ Smooth Response Wide Frequency Range</li> <li>▶ Low Resonance Frequency</li> </ul>	<ul style="list-style-type: none"> <li>▶ PA / Background Music / Paging</li> <li>▶ Residential / Business Medical / Municipal</li> <li>▶ Commercial Audio OEM's</li> <li>▶ Sound Masking</li> <li>▶ Multi Media</li> </ul>
 <p><b>High Temp, Waterproof Speakers and Microphones</b></p>	<ul style="list-style-type: none"> <li>▶ High Temperature per NFPA</li> <li>▶ Waterproof</li> <li>▶ Low Distortion</li> <li>▶ High SPL Output (Speakers)</li> <li>▶ High SPL Input (Microphones)</li> <li>▶ High SNR (Microphones)</li> </ul>	<ul style="list-style-type: none"> <li>▶ Respiratory Protection</li> <li>▶ Extreme High Temperature Applications</li> </ul>
 <p><b>Fire Alarm/Evacuation Speakers</b> 2" to 4"</p>	<ul style="list-style-type: none"> <li>▶ Extensively Tested, Qualified for UL &amp; ULC Component Compliance</li> <li>▶ UL1480(2005)</li> <li>▶ ULC</li> <li>▶ UL217 520Hz Smoke alarm Standard</li> <li>▶ High Output, Flat Response, Low Distortion</li> </ul>	<ul style="list-style-type: none"> <li>▶ Indoor</li> <li>▶ Outdoor</li> </ul>
 <p><b>Customized Enclosure Systems</b></p>	<ul style="list-style-type: none"> <li>▶ Woofer</li> <li>▶ Tweeter</li> <li>▶ Passive Radiator</li> <li>▶ Mid Range</li> <li>▶ 3D print or CNC prototyping</li> </ul>	<ul style="list-style-type: none"> <li>▶ Any application requiring an enclosure for a loudspeaker</li> </ul>
 <p><b>Electret Microphones</b> 4mm - 10mm</p>	<ul style="list-style-type: none"> <li>▶ Omni / Uni Directional and Noise Cancelling</li> <li>▶ SMT, Pin and Wire type</li> <li>▶ High sensitivity and SNR</li> <li>▶ Waterproof to IPX 8</li> <li>▶ High Input SPL</li> </ul>	<ul style="list-style-type: none"> <li>▶ Telephony</li> <li>▶ Wearables</li> <li>▶ BT car kits</li> <li>▶ GPS</li> <li>▶ Mobile devices</li> <li>▶ Fire and safety</li> <li>▶ Multi Media</li> </ul>
 <p><b>Dynamic Receivers</b> 29mm - 40mm</p>	<ul style="list-style-type: none"> <li>▶ Low profile</li> <li>▶ Wide band and narrow band per TIA</li> <li>▶ Low THD</li> <li>▶ High SPL</li> <li>▶ Encapsulated</li> <li>▶ HAC compatible</li> </ul>	<ul style="list-style-type: none"> <li>▶ Telephony</li> <li>▶ Headsets</li> <li>▶ Gaming</li> <li>▶ Hearing impaired devices</li> </ul>



# STETRON

Stetron is an audio solutions provider to companies worldwide. We support innovation with a range of Engineering & Design services along with components that are standard or custom designed to meet your needs.

## WHAT WE DO

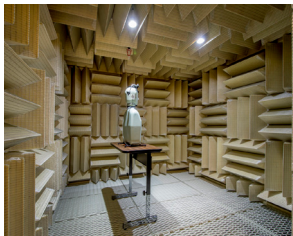
### DESIGN



Equipped with the right tools and software for every step of the process, Stetron can create a **custom, high-performing component** from your checklist of acoustic needs and design parameters.

The entire design process is transparent and collaborative, enabling our clients to fully comprehend the final design and its technology.

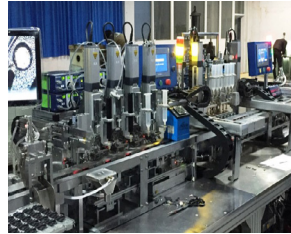
### TESTING



We take audio performance seriously. That's why **all of our factories are fully-equipped with an anechoic chamber** to accurately measure and test your product before deployment.

Using a combination of software and hardware tools, 100% of the acoustic testing is done in-house, allowing for quick changes and solutions to every design.

### MANUFACTURING



In order to achieve the highest level of consistency with our audio components, **Stetron's manufacturing process includes:**

- 12 Full and semi-automated production lines
- 30,000 m<sup>2</sup> of production space
- 100% production line testing
- Strict quality control

### LOGISTICS



Stetron has over **50 years of experience** shipping products around the world.

We efficiently integrate a complex flow of operations to quickly fulfill orders and deliver product globally to the destination of your choice.

## OUR CORE OFFERING



Speakers



Microphones



Dynamic Receivers



Integrated Audio Solutions

## ENGINEERING SERVICES

### LAB FACILITIES

- › Anechoic Chamber
- › Standard IEC268-5 Baffle
- › B&K Artificial Ears and HATS
- › Klippel, Clio and SoundCheck Audio Measurement System

### 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 & comparison

### STANDARD SERVICES

- › Acoustic component recommendation
- › Component performance verification
- › Component prototyping support

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