

# TABLETOP AUDIO



Zeeland, MI

# PROBLEM

- Social Venues such as wedding receptions, fundraisers and other social events desire ambient music as a backdrop for the event.
- PA equipment results in locations close to the speakers to be too loud and locations away from the speakers to be too quiet.
- There exists a need to have evenly distributed audio providing an appropriate ambient backdrop for social events.



# SOLUTION

## Table Tops **become** the speakers

- **Tabletop Audio™** with transducers attached to the bottom of table top surfaces enables the tabletop to become the speaker.
- **Patented Signal Processing** optimizes the sound for tables and environments.
- **WiFi Distribution and Battery Power** allow party hosts to place the tables in any location and add ambient music to each table.



# BENEFITS

We help party hosts offer patrons the ability to experience a uniform music backdrop experience at any location within the venue.

TableTop Audio Technology enables the following benefits:

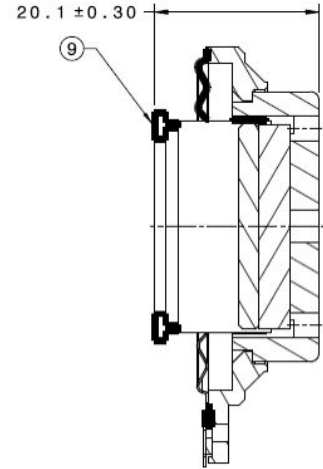
- **Uniform Audio Experience throughout the venue** vs. common PA Systems.
- **Unique experience to differentiate the event**
- **Versatile solution** allows custom placement of tables for each unique event while assuring a uniform audio experience.
- **Simplified Setup** using wifi distribution and battery power eliminates the hassle and potential safety issue of power wires routed to tables.

# TECHNOLOGY

Custom Designed Optimized Transducers vibrate the table, creating audio from its surface.

Proprietary design optimizes the performance of the tabletop surfaces.

- High Power
- Low Distortion
- Increased Output
- Optimized for the application



Section view A-A  
Scale: 2:1



Isometric view

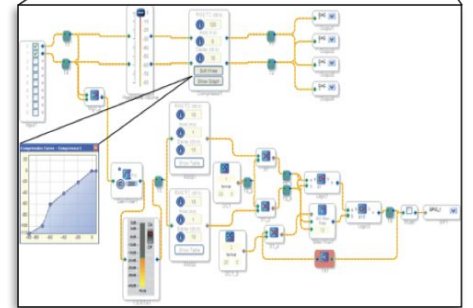


# TECHNOLOGY

## Bongiovi Digital Power Station (DPS) Technology

Patented audio processing algorithm re-masters audio in real time.

- The custom profile is created specifically to optimize for the table tops and venue environment.
- Provides superior sound quality, clarity and in high noise environments.



# TECHNOLOGY

## Audio Distribution

Digital WiFi transmission using scalable multicast technology.

- Long range digital WiFi transmission
- Utilizes native multicast one-to-many network technology for scalability
- Industry leading wireless access point supports up to 60 table receivers.
- Simply connects to the audio output of existing audio sources including tablets and smart devices.

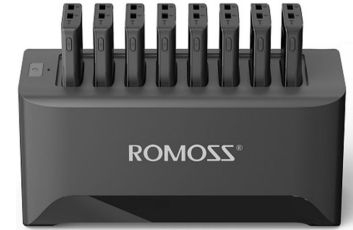


# TECHNOLOGY

## Power Source

Rechargeable High Capacity Li Polymer Battery.

- Samsung Cell Technology meets industry performance standards.
- 10,000 mAh Capacity for Long use between charges.
- Battery Level Indicator.
- Multi Battery charging stations.
- Link charging stations for efficient recharging.





# MANAGEMENT BIOS

## Rob Hamelink – Co Founder, Operations

- **25+ year career in Product Research and Development.** Work experiences include Ford Motor Company, General Motors, and Johnson Controls Automotive where he became Chief Engineer of Interiors Innovation. Co-founder of Bongiovi Aviation, audio supplier to the Private Jet Industry.
- **Responsibilities included leading a team of engineers and managing an annual development budget of \$2.5M,** Defined customer needs, technology roadmaps, innovation and product feasibility, intellectual property, and business growth opportunities.
- **Accomplishments include numerous Product innovations** including Integrated Audio in headliners; advanced displays, electronics and lighting integration; new manufacturing processes; and active noise cancellation and sound design synthesis for the vehicle cabins.
- **Holder of a number of granted and pending patents** in areas of audio , active noise cancellation, advanced display technologies, interior trim integration, and automotive aftermarket products.
- B.S. Physics, M.S. Mechanical Engineering

# MANAGEMENT BIOS

## Dr. Brian Servis – Co Founder, Engineering

- **Principal Acoustics Engineer in the automotive industry for more than 10 years:**  
Brings his wealth of knowledge in acoustics and its application to the vehicle cabin space to enable new applications in the transportation, marine, and industrial sectors.
- **Advanced Engineering Project Experience:** Included Providing microphone, speaker and call quality development support on Bluetooth hands-free telematics products. Supported projects such as Active Noise Cancellation and integrated audio solution.
- **Advanced technical degrees:** Bachelor's degree in Mechanical Engineering from the University of Southern California. Master's degree and Ph.D. from the School of Mechanical Engineering at Purdue University.
- **Patents granted and pending**

# CONTACT INFO

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Patents Granted and Pending