Sound Wave Deflection Metamaterial Technology

The Clearest Sound Precisely Directed.

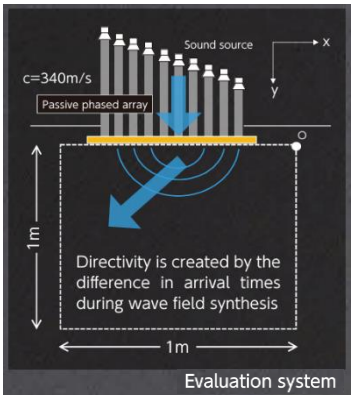
Verification of passive phased array using acoustic metamaterial

Directivity Emphasized by Adjusting Phase Difference and Sound Pressure Level

Features

- Acoustic metamaterials that demonstrate unique soundisolation characteristics

  Reduction of the load on a circuit by giving directionality to sound waves without relying on signal processing



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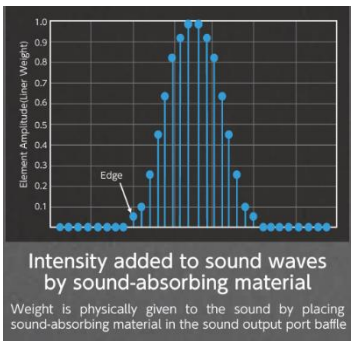
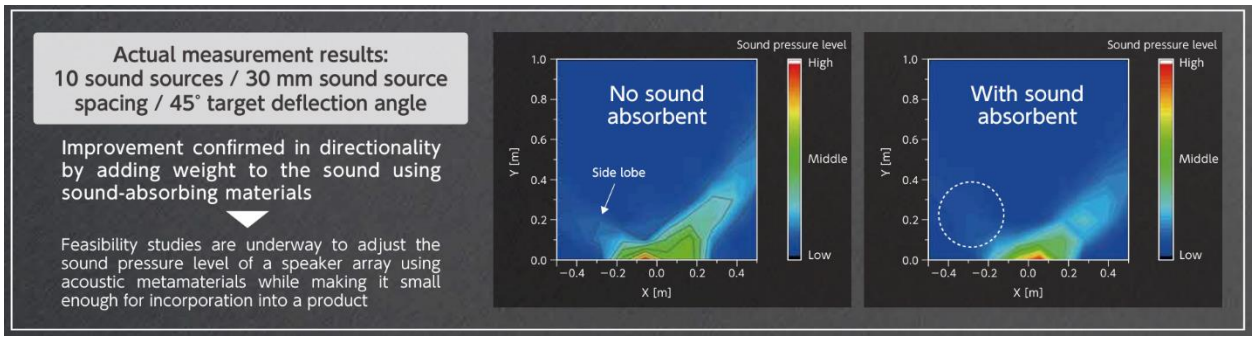
Features

- Verification began with phased array speakers, that deflect sound waves by phase control using multiple speakers placed side by side Sound-absorbing material is placed at the sound output to add weight to the sound and to prevent side lobes that can be a problem with phased array speakers





Applications

- Audio guidance in art museum, etc.

*Created with the assistance of Professor Komatsuzaki of Dynamic Design Lab., Kanazawa University

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