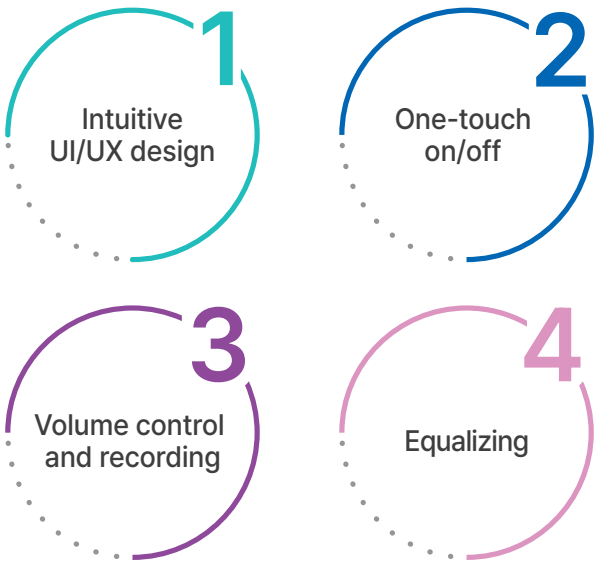




Product & Advantage



mpWAV ClearSense Audio
Comfortable and clean sounds
without any reluctance



[Conventional hearing aids]



mpWAV
ClearSense Audio

Yes ☐	Reluctance	No ☒
Necessary ☐	Adaptation training	Unnecessary ☒
Poor ☐	Performance	Excellent ☒

Check Points

- ✓ When wearing hearing aids, suddenly all the surrounding sounds become louder, so adaptation training is required. However, mpWAV ClearSense Audio doesn't require the training.
- ✓ With mpWAV's advanced sound enhancement technology, you can enjoy comfortable and clean sounds through your own earphones.

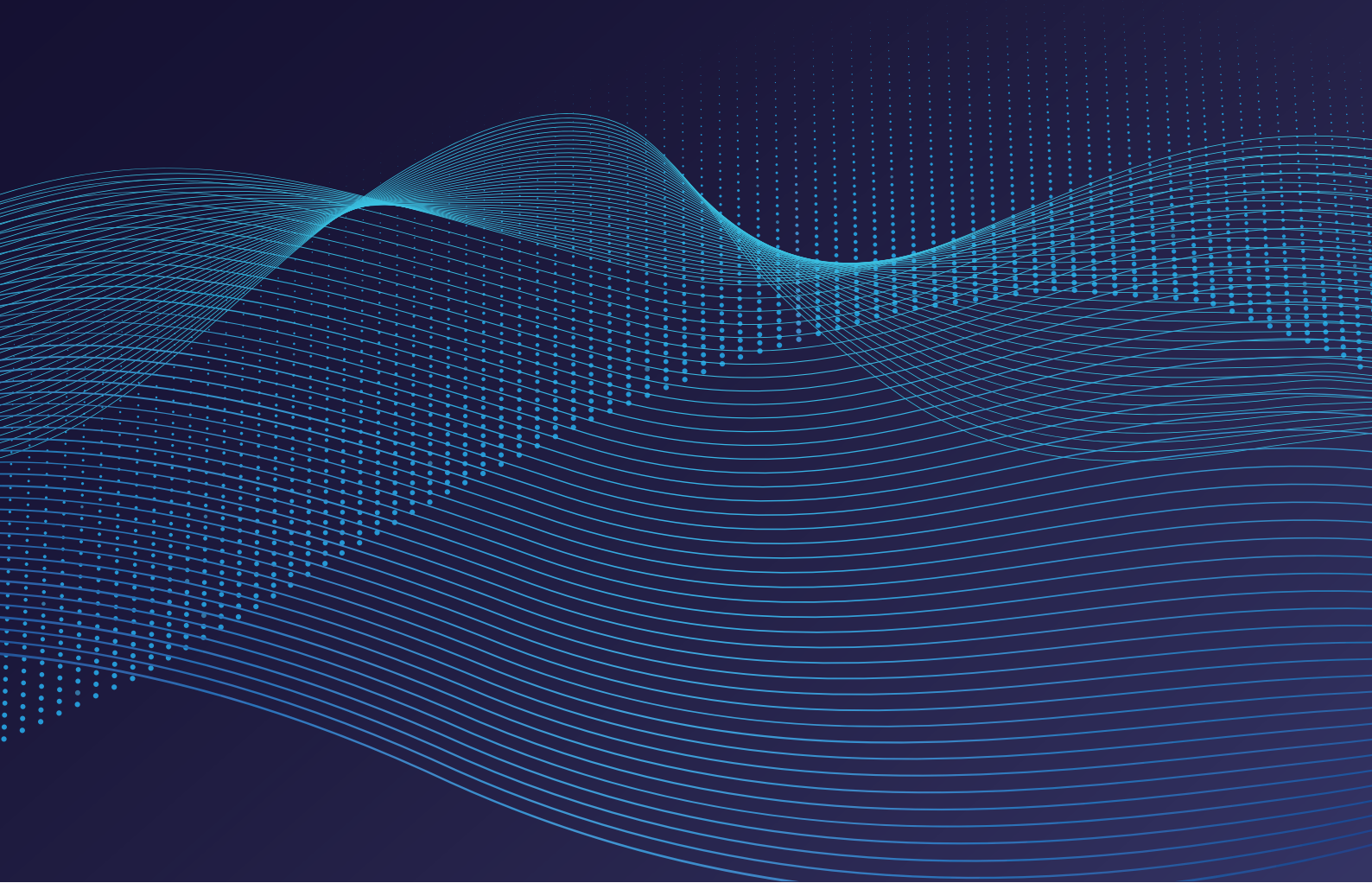


'ClearSense Audio'
Double winner of CES2024 Innovation Awards

'Mobile Devices, Accessories & Apps' and 'Digital Health'

We promise the best masterpiece with mpWAV's distinctive technology.

Create the Best
Human-Oriented
Masterpiece Wave.



ClearSense Audio (Hearing Assistant App)



<https://youtube.com/@mpwav>

contact@mpwav.com

<https://mpwav.com>

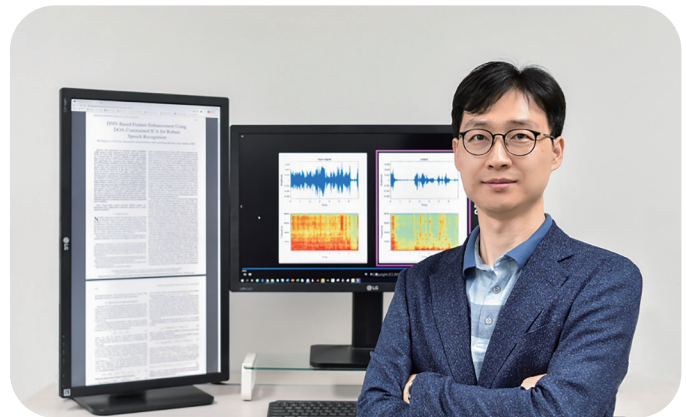


Greetings

Hello, everyone.

This is **mpWAV**, the creator of the best human-oriented masterpiece wave.

With mpWAV's distinctive technology, we introduce a new level of Hearing Assistant that you have never experienced before. Not only those with severe hearing loss who always need hearing aids, but also the general public can conveniently get help when and where they want, just like when talking with people in a noisy environment.



We will continue to make every effort to create the masterpiece wave that can impress our customers. We promise to be with you as the masterpiece products worthy of the reputation **"Sound is mpWAV."**

History

2024

Jan. Participated in CES2024 exhibition booth

2023

Dec. **Winner of AccessABILITY Awards for CES 2024 by USA TODAY's product review site, Reviewed**

Nov. **Double winner of CES2024 Innovation Awards** in 'Mobile Devices, Accessories & Apps' and 'Digital Health'

Sep. Korean Governmental (NRF – Future Promising Converging Technology Pioneer) 5-year project awarded

May. **Venture Enterprise certified**

Apr. Korean Governmental (NRF – Next-Generation Promising Seed Technology Comm. Fast Track) 4-year project awarded

Korean Governmental (MSS – Export Voucher) project awarded

Mar. ADD(Agency for Defense Development, Korea) service order awarded

2022

Dec. **Winner (Minister Award) of the 2022 AI Grand Challenge 3rd Competition**

May. Korean Governmental (MSS – Startup Growth Technology Development – Stepping Stone) project awarded

Mar. Korean Governmental (IITP) project awarded (Advancing of video/speech recognition technology for life-saving drones)

2021

Dec. **2nd place in the 2021 AI Grand Challenge 3rd Competition**

Mar. Korean Governmental (IITP) project awarded (Development of video/speech recognition technology for life-saving drones)

2020

Dec. **Transferring 8 patents from Sogang University Industry-Academic Cooperation Foundation**

Nov. Incorporated

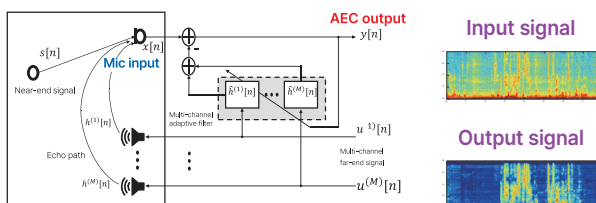


Technologies



① mpWAV's Key Technologies

[Multi-Channel Echo Cancellation]

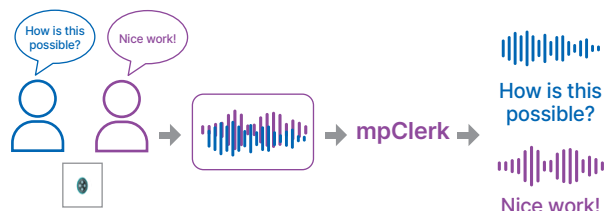


Input signal

Output signal

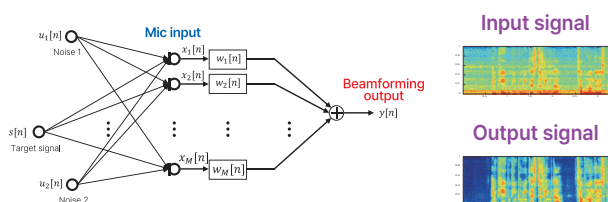
- Removes music and prompt sounds emitted from various devices such as AI speakers, smart TVs, smart cars, robots, and IoT devices
- Enables voice interfacing without muting or lowering the volume of the sounds

[Sound Source Separation]



- Ability to separate sound sources from multiple speakers
- Minimizes distortion in each estimated sound source during separation
- Automatic meeting minutes generation or automated documentation of conversation content

[Beamforming]

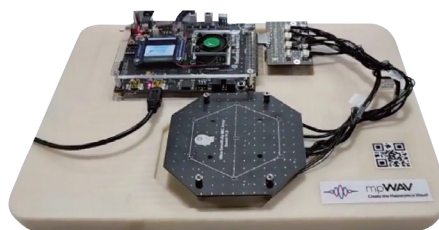


Input signal

Output signal

- Removes noise and reverberation while minimizing speech distortion, without tuning for the number and arrangement of microphones
- Eliminates the need for retraining speech recognition models

[Hardware Design for Speech Processing]



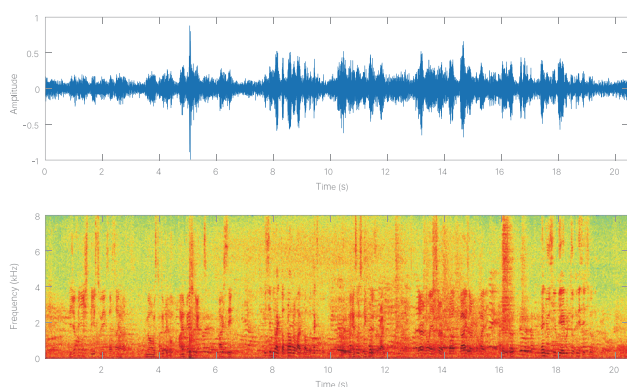
- Hardware design of voice interface using a digital MEMS microphone array
- Full-digital FPGA design for speech processing
- Integrated solution combining hardware and software

② mpWAV ClearSense Audio (Hearing Assistant App)

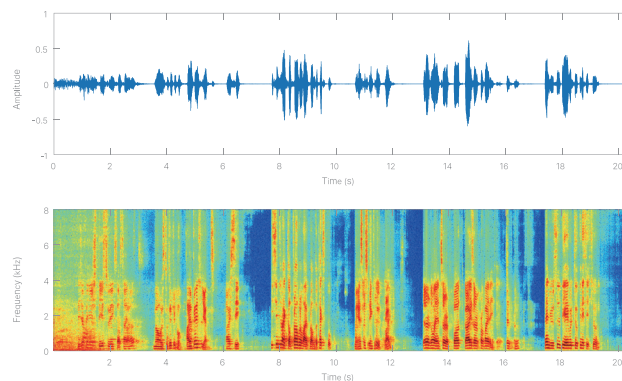
Video



Microphone input signal



ClearSense Audio



We introduce a new level of Hearing Assistant with over 10 domestic and international patents.