



EPOS



EPOS BrainAdapt™ Technologies, Research & Findings

Audio Designed for Your Brain

Unleash Your Potential and Achieve More

EPOS designs, manufactures, and sells high-end audio and video solutions for business professionals around the world.

Based on decades of psychoacoustic research, EPOS designs audio and video solutions with unique algorithms and acoustics that provide the best conditions for the brain, enabling users to communicate and collaborate effectively with better concentration and less energy spent.

Owned by the world-leading hearing healthcare and audio technology group, Demant, and with headquarters in Copenhagen, Denmark, EPOS builds on more than 115 years' audio expertise and operates in a global market with offices and partners in more than 60 countries.



EPOS BrainAdapt™

Solutions built on EPOS BrainAdapt™ technology reduce cognitive load on the brain caused by poor audio, leading to better performance and improved communication. As part of the Demant Group, a world-leading hearing healthcare and technology group, EPOS has the data on how and when the brain performs best and integrates pioneering technologies into our product portfolio.

For professionals today, the benefits are many, including reduced listening effort, better speech recognition in noisy environments, improved memory recall and increased efficiency.

Audio Designed for Your Brain

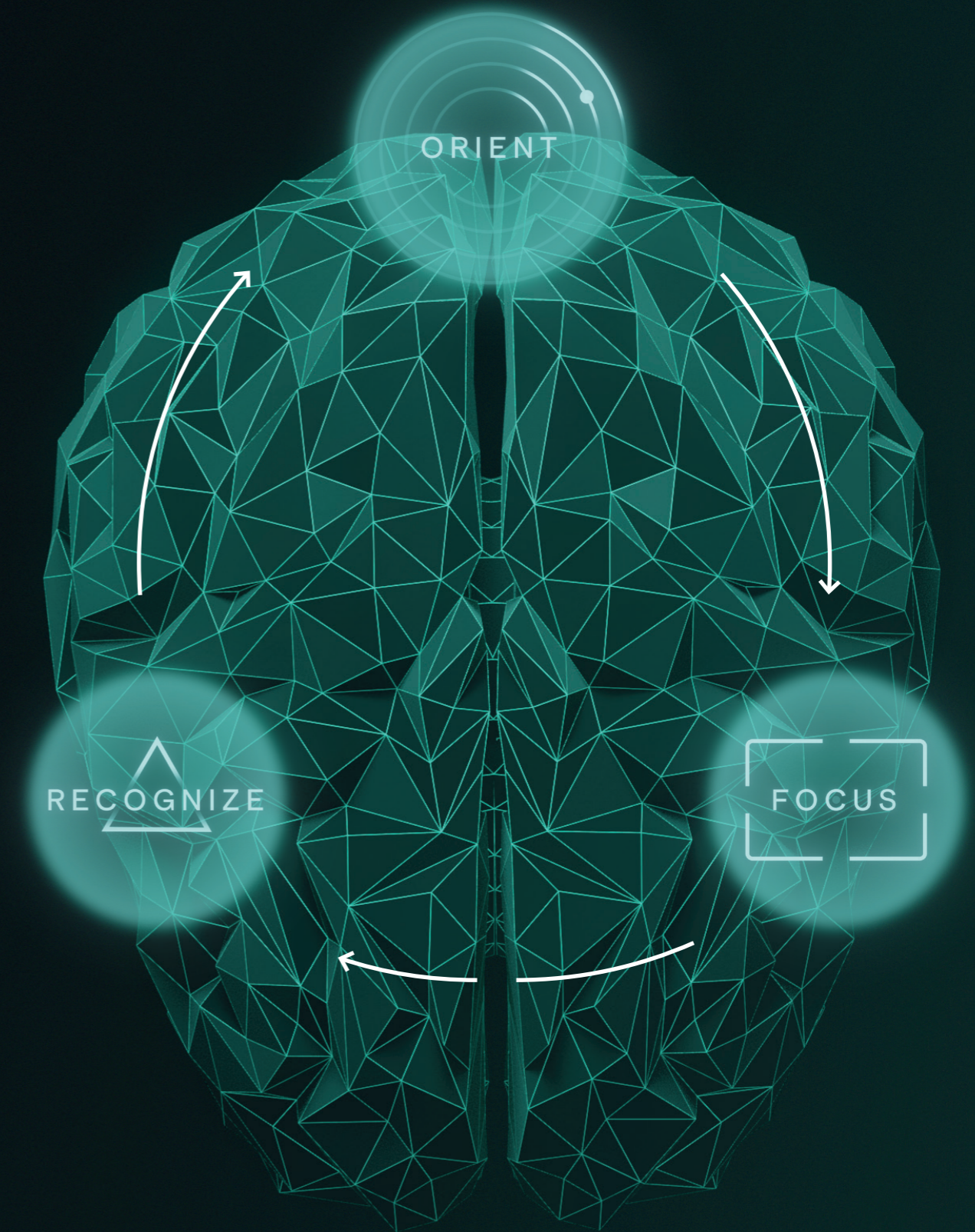
EPOS BrainAdapt™ is a group of pioneering technologies that work together to help improve cognitive performance.

We Hear with Our Ears but Listen with Our Brain

Your brain is constantly scanning the surroundings, orienting itself in its environment, distinguishing relevant sound from disturbing noises and choosing where to focus.

Orient, focus, recognize – this is the process the brain performs to make sense of sound.

Sounds that cannot be recognized are perceived as noise and noise stresses your brain, causing it to become tired and unfocused.



EPOS BrainAdapt™ Technologies

EPOS Industry Leading Voice Pick-up

Built on EPOS BrainAdapt™ technology and powered by EPOS AI™ users can count on clear, efficient conversations.



IMPACT 1000 Series

IMPACT 800 Series

IMPACT 700 Series

EPOS Adaptive Active Noise Cancellation

Built on EPOS BrainAdapt™ technology and powered by EPOS AI™ users can count on blocking out distractions.



IMPACT 1000 Series

IMPACT 800 Series

ADAPT 600 Series

EPOS Industry Leading Voice Pick-up

In a study evaluating the performance of EPOS voice pick-up technology in IMPACT 1000, IMPACT 800 and IMPACT 700 Series, researchers found that it not only reduces listening effort users spend during a conversation, but that it creates a call experience for users as if they were in a quiet environment.

The Benefits to Users:

Users spent
21%
less listening
effort during
the conversation

Users reported
that concentrating on the
conversation was
18%
less difficult

Conversations between
two people were
10%
more efficient, based on
analysis of the conversation
dynamics.



EPOS Adaptive Active Noise Cancellation

In two separate studies evaluating the performance of EPOS noise reduction technology in IMPACT 1000, IMPACT 800 and ADAPT 600 Series, researchers found that it significantly improves the accuracy with which users can recognize speech in noisy environments.

The Benefits to Users:

Users spent
67%
less listening
effort

Users were
48%
better at understanding
the other speaker

Users were
10%
better at remembering
what was said

EPOS BrainAdapt™ dual task study the effect of noise attenuation on listening effort, efficiency, and reaction time, while performing a dual task. Read the whitepaper [here](#). BrainAdapt™ [here](#)

EPOS BrainAdapt™ New Evidence: The effects of noise attenuation on listening effort and arousal. Read the whitepaper [here](#).

EPOS Research and Scientific Approach

Since 2022, in collaboration with researchers from Oticon in the Centre for Applied Audiology Research (CAAR) in Denmark, EPOS has conducted and published multiple scientific studies evaluating the effects of EPOS BrainAdapt™ technology. Findings from this research play a crucial role in the development of EPOS technologies and are continually integrated into the design and tuning of acoustics and sophisticated algorithms to provide the best conditions for the brain.



EPOS Noise Reduction Technology

2022

The effects of noise attenuation on listening effort and arousal

How does EPOS noise reduction technology affect the effort users spend listening to speech?

Read the whitepaper [here](#)

EPOS Noise Reduction Technology

2023

The effect of noise attenuation on memory recall

How does EPOS noise reduction technology affect our ability to understand speech and remember what is said?

Read the whitepaper [here](#)

The effect of noise attenuation on listening effort, efficiency and reaction time, while performing a dual task

How does EPOS noise reduction technology affect our ability to listen to speech and perform a secondary task simultaneously?

Read the whitepaper [here](#)

EPOS Microphone Voice Pick-up Technology

2024

The effects of industry leading voice pick-up on conversation quality and efficiency

How does EPOS voice pick-up technology affect our communication with others?

Read the whitepaper [here](#)

THE POWER OF AUDIO

EPOS

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