DATASEA

Datasea Announces Breakthrough in Acoustic-Driven Brain–Computer Interface Technology

Developing Healthcare and Intelligent Interaction Through Core Acoustic Innovation

BEIJING, December 11, 2025 /PRNewswire/ — Datasea Inc. (NASDAQ: DTSS) ("Datasea" or the "Company"), a global technology enterprise specializing in acoustic high-tech innovations and AI multimodal digital solutions, today announced progress in its research and development efforts related to brain–computer interfaces (BCI) technologies. The Company's Real-Time Closed-Loop Vibration-Enhanced BCI System and Acoustic-Coupled EEG Signal Enhancement System have successfully completed engineering-stage development. These technologies enable an integrated technical framework supporting brain-signal acquisition, decoding, feedback modulation, missing-signal reconstruction, and acoustic-field enhancement.

The Company believes this development provides a technical basis for potential future applications in areas such as healthcare, neuromodulation, and intelligent interaction, subject to further development, validation, and regulatory review.

Core Technological Highlights: Application of Acoustic Technology in **Non-Invasive BCI**

Through the application of its acoustic technologies in the BCI field, Datasea focuses on improving the unstable signal quality and insufficient decoding accuracy.

1. Establishing New Capabilities in Dynamic Decoding and Closed-Loop Optimization

Traditional BCIs rely on static algorithms that struggle to adapt to rapid fluctuations in EEG signals. Datasea's real-time closed-loop vibration enhancement approach is designed to support dynamic decoding and feedback-based optimization, with potential benefits including:

- Improved interpretation of key brain signals, such as motor intention;
- Enhanced performance in complex or noisy environments;
- Automatic algorithm adjustment for improved real-time responsiveness.

2. Acoustic-Coupled EEG Signal EnhancementEEG signals are highly susceptible to interference during acquisition.
Datasea's acoustic-coupled enhancement technology is intended to:

- Assisst in detecting and reconstructing missing or weakened EEG segments more effectively;

- improve signal-to-noise ratio (SNR) and data completeness;
- Support more consistent performance in operation in real-world application scenarios.

Potential Application Areas

With system-level integration completed at the engineering stage, Datasea expects that its technologies may support further development toward practical applications, including:

- Improved rehabilitation outcomes for motor recovery and neuromodulation;
- Non-invasive consumer and wellness devices;
- Human–machine interaction for intelligent devices and accessibility tools;
- Broader integration within the Company's acoustics and AI technology portfolio.

Datasea plans to accelerate commercialization across multiple industries, subject to continued technical verification, regulatory considerations and market conditions.

Market Context

According to industry research reports published by **Grand View Research (2024)** and **Fortune Business Insights (2024)**:

- The global BCI market is projected to exceed **USD 15–20 billion by 2030**;
- Non-invasive BCI is expected to be a fast-growing segment due to its safety, accessibility, and broader application potential;
- Healthcare rehabilitation, consumer electronics, and intelligent wearables are anticipated to be the key demand drivers over the next decade.

The Company believes these trends support continued long-term research interest in BCI-related technologies.

CEO Statement

Ms. Zhixin Liu, Chief Executive Officer of Datasea, commented:

"We believe this progress in Datasea's acoustic technologies for brain–computer interfaces marks the successful completion of our core EEG technology chain and

establishes a distinctive and robust competitive advantage through sound-wave coupling and closed-loop vibration enhancement.

We believe Datasea's technologies—including our BCI innovations—hold significant commercialization potential and strong industry value across healthcare, intelligent interaction, and the broader future of human–machine integration.

Under our strategic framework of 'Acoustic Technology + Multi-Scenario Applications,' we believe the Company will continue to advance innovation and accelerate the deployment of acoustics-driven solutions across a wide range of industries.

Going forward, we remain committed to driving technology transfer, expanding partnerships, and opening new application scenarios, thereby creating sustainable and high-quality long-term growth for our shareholders."

About Datasea Inc.

Datasea Inc. ("Datasea") is a leading provider of products, services, and solutions for enterprise and retail customers in two innovative industries, acoustic high tech and 5G-AI multimodal digitalization. The Company's advanced R&D technology serves as the core infrastructure and backbone for its products. Its 5G multimodal digital segment operates on a cloud platform based on AI. Datasea leverages cutting-edge technologies, precision manufacturing, and ultrasonic, infrasound and directional sound technology in its acoustics business to combat viruses and prevent human infections, and it is also developing applications in medical ultrasonic cosmetology. In July 2023, Datasea established a wholly-owned subsidiary, Datasea Acoustics LLC, in Delaware, in a strategic move to enter the U.S. markets and to mark its global expansion plan. For additional information, please visit www.dataseainc.com.

Cautionary Note Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934 and as defined in the U.S. Private Securities Litigation Reform Act of 1995. These forward-looking statements can be identified by terminology such as "will", "expects", "anticipates", "future", "intends", "plans", "believes", "estimates", "target", "going forward", "outlook," "objective" and similar terms. Such statements are based upon management's current expectations and current market and operating conditions, and relate to events that involve known or unknown risks, uncertainties and other factors, all of which are difficult to predict and which are beyond Datasea's control, which may cause Datasea's actual results, performance or achievements (including the RMB/USD value of its anticipated benefit to Datasea as described herein) to differ materially and in an adverse manner from anticipated results contained or implied in the forward-looking statements. Further information regarding these and other risks, uncertainties or factors is included in Datasea's filings with the SEC, which are available at www.sec.gov.

Datasea does not undertake any obligation to update any forward-looking statement as a result of new information, future events or otherwise, except as required under law.

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