News Release

June 2, 2025

Nippon Electric Glass Co., Ltd.

Que UTG—World-first Earphones Incorporating Ultra-thin Glass Diaphragms Launched

Ultra-thin glass developed by Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan; President: Akira Kishimoto; “NEG”) has been adopted for the diaphragm of SIVGA's new earphones, Que UTG, which went on sale on May 23, 2025. Que UTG is the world’s first earphone product* to combine a flat diaphragm made of special glass with a dynamic (moving coil) type structure.

*According to NEG research as of June 2025, based on product information from major earphone manufacturers and articles from domestic and international specialized media.

Photo: Que UTG (left) and ultra-thin glass diaphragm (right)

■ Features of the ultra-thin glass diaphragm

Ultra-thin glass, a type of special glass, is a material with completely different functionality and properties from those of common glass used for windowpanes and glassware. The use of ultra-thin glass for the diaphragm offers the following benefits:

- The diaphragm has a faster attack time* than that of existing materials, such as paper and metal, so the sound reaches you crisply and clearly.
- The material itself has a low level of inherent sound characteristics (high internal loss), so its decay time* is also fast, contributing to little sound distortion.
- Being lightweight and easy to vibrate, the diaphragm accurately reproduces delicate sound nuances.
- The glass surface is strengthened through a special chemical treatment to withstand the intense oscillations of deep bass sounds.
- High resistance to environmental changes such as temperature and humidity reduces deterioration over time.

Ultra-thin glass has excellent properties as a diaphragm and is attracting attention from the business sector as a new material with great potential.

* The term *attack time* refers to the duration from the start to peak of sound level, or quickness of response. A fast attack time gives the sound better definition and crisper attack for percussion and stringed instruments. In contrast, the term *decay time* refers to how quickly a sound fades away after audio reproduction. A fast decay time means no unnecessary sound remains and the next sound can be heard clearly, resulting in a tighter sound with less distortion overall.

■ The ultra-thin glass developed by NEG, three-dimensionally molded into a diaphragm by Glass Acoustic Innovations

The glass was three-dimensionally molded by Taiwan's Glass Acoustic Innovations Co., Ltd. (GAIT). GAIT possesses advanced technical capabilities and multiple glass diaphragm molding patents. NEG and GAIT entered into a strategic partnership in 2023.

■ Que UTG

Que UTG will be sold through 01Diverse Inc., SIVGA's distributor in Japan, and is priced at JPY15,980 (tax included).

Product Webpage
https://01diverse.jp/products/sivga-que-utg

[Company Profile]

Nippon Electric Glass Co., Ltd. is a world-class specialty glass manufacturer headquartered in Otsu City, Shiga Prefecture. Special glass that creates novel functionality is transformed into a variety of products, such as sheets, tubes, fibers, and powder, and is used in a wide range of fields, including semiconductors, displays, automobiles, electronic devices, medical care, and energy. The special glass developed using the technology and track record that we have honed over our 70-year history is highly regarded in a wide range of fields, from everyday life to cutting-edge industry.

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Founded: December 1, 1949
Business details: Production and sale of special glass products; manufacture and sale of glassmaking machinery
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