Morphotonics Joins Hands with Jupiter SR to Accelerate the Industrialization of Glasses-Free 3D Display

Significantly Reducing Mass Production Costs to Accelerate the Large-Scale Application of Glasses-Free 3D Display Across Various Industries

April 7, 2026, Suzhou, China — Morphotonics, a global leader in large-area nanoimprint technology, has officially entered into a strategic cooperation agreement with Jupiter Spatial Reality (hereinafter referred to as "Jupiter SR"), a full-stack solution provider for glasses-free 3D display.

Signing Ceremony Photo of the Morphotonics and Jupiter SR Teams

This partnership will leverage Morphotonics' leading large-area nanoimprint platform and technology, fully integrating both parties' industry expertise and resources in large-scale manufacturing, hardware and software, and content ecosystems. The collaboration will focus on two core areas: cost optimization and resolution enhancement for glasses-free 3D display products, aiming to accelerate the industrialization of glasses-free 3D displays.

In recent years, glasses-free 3D displays, with their delicate and realistic spatial presentation and outstanding immersive interactive experience, have continuously driven innovation in user display experiences, becoming a key growth engine for the development of the display industry. Industry data indicates that by 2030, the global market for glasses-free 3D displays is expected to reach USD 18.56 billion, with a compound annual growth rate of 30.3%. Behind this enormous market potential, high large-scale production costs and resolution limitations remain the main obstacles to the commercial adoption of glasses-free 3D displays.

Jupiter SR's 65-inch spatial reality display terminals

This partnership will focus on overcoming the aforementioned bottlenecks in the industry by leveraging the core strengths of both parties to achieve deep complementarity. Morphotonics will empower the collaboration with its high-throughput, low-cost, high-precision, and high-yield large-area nanoimprint technology, significantly reducing the mass-production cost of key optical components such as gratings and microlens arrays. Jupiter SR, with its long-standing expertise in glasses-free 3D displays, has established a full-chain technical capability covering production lines, manufacturing processes, optical path design, hardware integration, algorithm development, and application development. Together, the two companies aim to achieve the goal of glasses-free 3D screens with costs only 10% higher than comparable 2D screens, bringing higher-quality and more widely accessible glasses-free 3D display products to the market, and addressing the critical challenges of large-scale industry development.

This collaboration will deeply empower Jupiter SR's extensive product portfolio, covering existing products such as spatial-display 3D digital photo frames, 65-inch spatial reality display terminals, and derivative products of gratings and microlens arrays (such as 3D film frames), and will extend to the company's upcoming new products, aiming to provide high-quality, cost-effective spatial-display 3D products for consumer electronics, cultural tourism, commercial display, and other sectors.

Guan Yuxin, Chairman of Jupiter SR, stated: "The glasses-free 3D display industry is entering a critical stage of large-scale development. Through deep collaboration with Morphotonics, Jupiter SR has leveraged its advanced micro and nano-imprinting platform to successfully overcome optical manufacturing bottlenecks, reducing the cost of glasses-free 3D products by as much as 75%. This enables seamless switching from 2D to 3D and supports multi-view free viewing. This is not only a major milestone in Jupiter SR's technological roadmap, but also completes the industrial chain loop from micro-nano manufacturing to end-user applications. It will accelerate the transition of glasses-free 3D from high-end commercial use to widespread household adoption, leading the global display industry into a true era of three-dimensional visual experience."

Bryan Hu, General Manager of Morphotonics China, said: "Morphotonics is honored to establish a strategic partnership with Jupiter SR. Jupiter SR possesses profound technical expertise and innovative capabilities in the field of full-stack glasses-free 3D solutions, featuring in-house R&D capabilities across the entire industry chain—from hardware and software to terminal displays. Through this strategic collaboration, Morphotonics will fully leverage the scalable mass production advantages of our large-area nanoimprint platform and technology. Together with Jupiter SR, we will work in close synergy, complement each other's strengths, and accelerate the large-scale commercialization of glasses-free 3D products."

Looking ahead, both parties will take this strategic partnership as a starting point to continuously explore and expand the application of large-area nanoimprint technology across a broader range of optical fields. They will conduct systematic testing and collaborative innovation around imprint materials and process optimization, working together to accelerate the glasses-free 3D display industry toward a phase of large-scale adoption defined by high cost-effectiveness and high quality.

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About Jupiter SR

Jupiter Spatial Reality (Jupiter SR) focuses on the research and development of foundational technologies for spatial reality. Its comprehensive technology stack consists of three core pillars: optical hardware, display driver software, and proprietary 3D algorithms. Jupiter SR has independently developed light-field optical modules, cross-platform 3D players, and algorithm engines, aiming to deliver high-precision spatial visual experiences without the need for wearable devices. As a governing member of the UWA (UHD World Association), Jupiter SR is also committed to promoting global standards for the glasses-free 3D industry.

For more information, please visit: https://eu.jupiter-semi.com

About Morphotonics

Morphotonics is the global leader in large-area nanoimprinting technology, providing the manufacturing infrastructure that enables production of next-generation AI devices and systems. Its precise and scalable nanoimprinting platform enables cost-effective fabrication of micro- and nanostructures on large surfaces, delivering cutting-edge solutions that support the explosive growth of AI applications and content. This includes advanced screens for AI-generated content and AI smart glasses that embody next-generation AI hardware. A CES Innovation Award Honoree, Morphotonics serves leading brands across Europe, the United States, and Asia.

For more information, please visit: https://morphotonics.com/