

Press Release

www.nanonex.com 732-355-1600



Nanonex Forms Strategic Partnership With InterLitho To Bring World's Leading Interference Lithography Nanopatterning Systems To The North American Market

Princeton NJ, June 29, 2022. Nanonex Corporation, the inventor of nanoimprint lithography and the world's first and leading provider of nanoimprint lithography solutions, today announced its strategic partnership with InterLitho Technology Limited (InterLitho), a world technology pioneer of innovative interference lithography nanopatterning systems and nanofabrication solutions. With this partnership, InterLitho expands its reach throughout North America and Nanonex broadens its portfolio with InterLitho's cutting-edge interference nanopatterning systems.

InterLitho is a world industry leader in the design and manufacture of interference nanopatterning systems. It invented the world's first two-beam interference nanopatterning system which provides turn-key solutions for large-area, high-throughput, and versatile nanopatterning. Its fast-reconfigurable interference lithography nanopatterning system can create sub-50 nm structures over a wafer-scale area with a cost and processing time less than one-tenth of the best electron-beam writer.

Through Nanonex, InterLitho currently provides three series of interference nanopatterning systems to the North American market. Its *VIL series* is a fully automatic step-and-repeat interference nanopatterning system that allows the patterning of different nanostructures on the same substrate with independently set periodicity, lattice, and feature sizes. The system can produce various nanostructures such as 1D grating lines, 2D pillar/hole patterns, etc. with periods from 240 nm to 1500 nm on up to 8-inch large area through repeated exposures using patterning fields of standard 2cm-by-2cm square or user-defined shapes. It is perfect for making devices with different nano-scale features and patterning regions, such as AR displays. The *HIL series* is a powerful wafer-scale interference nanopatterning system that can produce, within minutes, versatile 1D or 2D nanopatterns down to sub-50-nm feature size with one single exposure. It is ideal for producing high-quality wafer-scale nanoimprint masters and is also a highly productive tool for device prototyping that demands large-area nanopatterns, especially when a fast turnaround time is critical. The *CIL series* is a cost-effective desktop interference nanopatterning tool with simple and easy-to-operate configurations. It is useful for patterning centimeter-scale 1D and 2D nanostructures and fits best for customers with a tight budget but who desire satisfactory nanopatterning quality. It's also suitable for educational training and basic R&D activities.

"We are thrilled with the new InterLitho partnership. It is an exceptional milestone for Nanonex and InterLitho. InterLitho's innovative interference nanopatterning systems are a valuable addition to our product portfolio," said Hua Tan, CTO of Nanonex. "Partnering with InterLitho expands our ability to provide a full package of nanopatterning solutions that best fit and support our customers. We look forward to additional growth and success as a result of this partnership."

About InterLitho Technology Limited

InterLitho Technology Limited (InterLitho) is a world technology pioneer of innovative interference lithography nanopatterning systems and nanofabrication solutions. It invented the world's first fast-reconfigurable interference lithography nanopatterning system for fast, low-cost, and large-area nanofabrication. The cutting-edge turn-key nanolithography systems will play a key role in the precise fabrication of nanostructured components used in AR glasses, head-up displays, 3D sensing, meta-optics, and many other emerging applications.

Originating from Princeton University, InterLitho's founder has around 20 years of experience in nanofabrication and nanotechnology. The company's core business includes manufacturing innovative nanopatterning systems, fabricating high-quality nanoimprint masters and fine stencil masks, and providing nanofabrication solutions from prototyping to mass production. The company works closely with customers to provide one-stop solutions covering the entire business cycle from initial idea generation, to process design and conceptual prototyping, and to mass production. Visit www.interlithotech.com for more information.