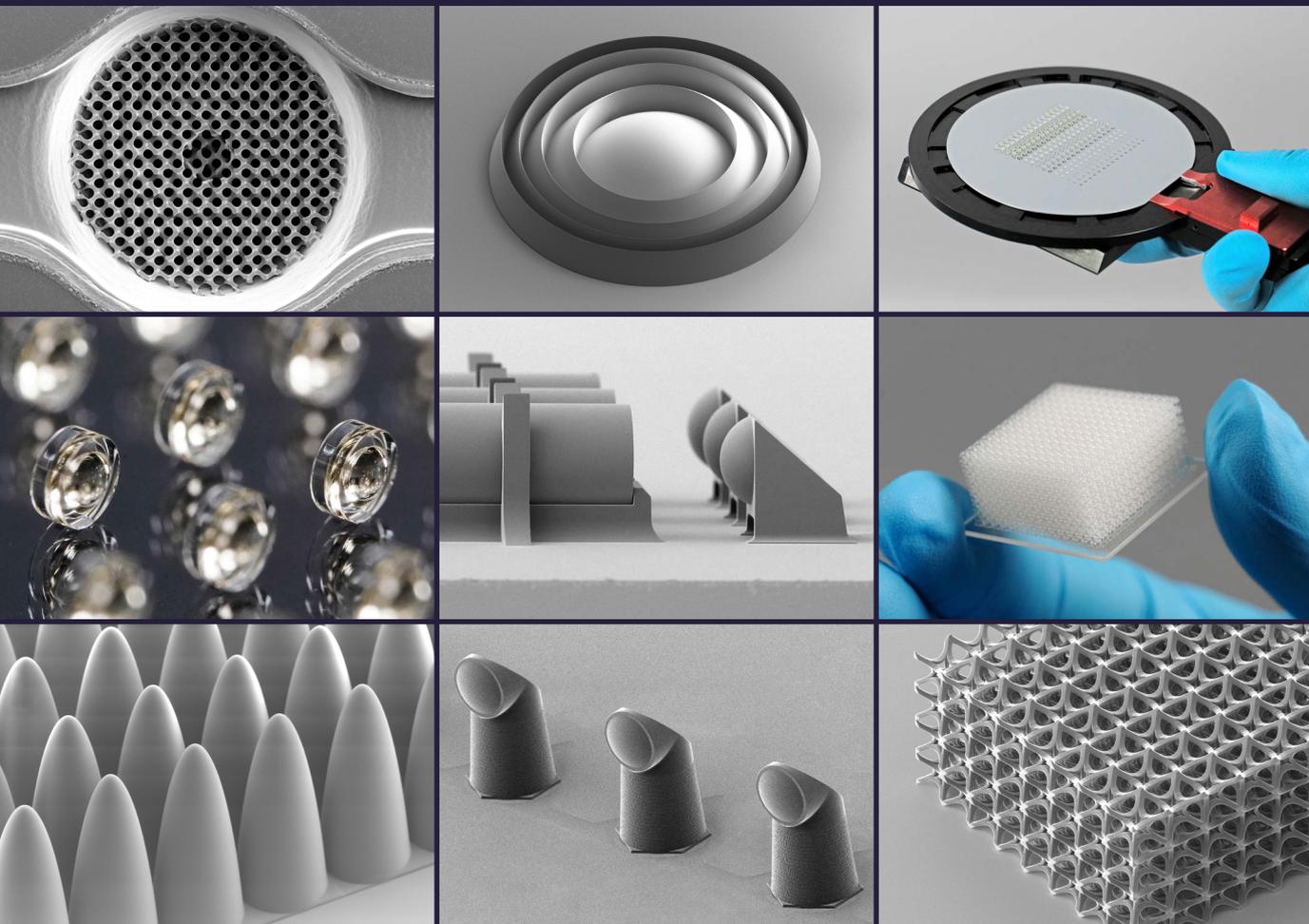




Quantum X

high-resolution 3D printers

Advanced nano- and microfabrication
from lab-scale research to production lines



The Quantum X platform

The next-generation microfabrication platform that unites highest precision, versatile material and substrate compatibility, 3D printing across nano to macro scales, and intuitive software.



The Quantum X systems are high-resolution 3D printers engineered to support a wide range of cutting-edge applications in university labs, shared research facilities, and high-tech companies. They empower scientists, engineers, and production specialists leveraging high-precision 3D printing to fabricate functional microstructures, accelerate design iteration through rapid prototyping, scale up manufacturing with ultra-precise master templates, and directly print on chips and fibers, or enable wafer-scale production.

The Quantum X platform delivers reliable results at every stage, from experimental design to scalable fabrication, with outstanding accuracy, throughput, robustness, and repeatability. It combines streamlined workflows, modular configuration options, and smart automation features. Its versatility spans diverse applications including micro-optics, photonic integration, biofabrication, microfluidics, micromechanics, and more, enabling breakthroughs across science, research, and industry.

Choose your Quantum X system



Quantum X shape

High-resolution 3D printer

Most versatile, powerful system for advanced research in

- ▶ Micromechanics & MEMS
- ▶ Materials engineering
- ▶ Life sciences, microfluidics
- ▶ Optics – and more



Quantum X align

High-precision 3D optics printer

Aligned 3D printing for integrated photonics & optics applications, such as

- ▶ Optical interconnects on chips, fibers, etc.
- ▶ Lensed fibers and fiber arrays
- ▶ Imaging and beam-shaping optics
- ▶ Freeform micro-optics – and more



Quantum X bio

High-resolution 3D bioprinter

3D printing for life sciences and microfluidic applications, such as

- ▶ Cell culturing
- ▶ Tissue and vascular models
- ▶ Microfluidic elements, microneedles
- ▶ Biosensors – and more



Quantum X litho

Maskless lithography system

2.5D printing for rapid prototyping, patterning and mastering for

- ▶ Microlens / prism arrays
- ▶ Wafer-level optics
- ▶ Master templates for NIL & μ IM
- ▶ Microfluidics – and more

Key features

- ▶ Ultra-precise 3D and 2.5D printing across nano to macro scales
- ▶ High shape accuracy ($S_a \leq 200$ nm) and optical-quality surface finishing ($R_a \leq 5$ nm)
- ▶ Intuitive software with advanced control features for efficient operation
- ▶ Smart automation features and streamlined workflows for fast job setup, printing, and post-processing
- ▶ Cutting-edge performance with a broad range of Nanoscribe resins, such as transparent, biocompatible, and flexible materials
- ▶ Open material system for custom and third-party materials
- ▶ Versatile substrate support for glass and silicon slides and wafers, microfluidic chips, photonic chips, optical fibers, and more
- ▶ Modular and configurable system architecture for a variety of applications
- ▶ Ready-to-print system setups with validated materials and process recipes
- ▶ Scalable to industrial production with turnkey solutions for process-line integration

The Quantum X lineup at a glance

Quantum X shape Quantum X bio Quantum X align Quantum X litho

| | Quantum X shape | Quantum X bio | Quantum X align | Quantum X litho |
|--|-----------------|---------------|-----------------|-----------------|
| Focus applications | | | | |
| High-resolution 3D printing ▶ page 8 | ✓ | ✓ | ✓ | ✓ |
| High-resolution 3D biofabrication ▶ page 10 | ✓ | ✓ | – | – |
| Optics manufacturing ▶ page 12 | ✓ | – | ✓ | ✓ |
| Maskless lithography ▶ page 14 | ✓ | ✓ | ✓ | ✓ |
| Printing on dedicated scales | | | | |
| Nano SF Print Set ◆ nanoscale details | ✓ | ✓ | ✓ | ✓ |
| Micro MF Print Set ◆ microscale structures | ✓ | ✓ | ✓ | ✓ |
| Meso LF Print Set ◆ millimeter parts | ✓ | ✓ | ✓ | ✓ |
| Macro XLF Print Set ■ centimeter parts | ✓ | ✓ | – | – |
| Printing technology ▶ page 4+5 | | | | |
| Two-Photon Polymerization (2PP) | ✓ | ✓ | ✓ | ✓ |
| Two-Photon Grayscale Lithography (2GL®) | ✓ | ✓ | ✓ | ✓ |
| Aligned 2-Photon Lithography (A2PL®) | ✓ | ✓ | ✓ | ✓ |
| 3D printing by 2GL® | ✓ | ✓ | ✓ | ✓ |
| Specialized application sets | | | | |
| Fiber Printing Set | ✓ | – | ✓ | ✓ |
| Chip Printing Set | ✓ | – | ✓ | – |
| Bioprinting Set | ✓ | ✓ | – | – |
| Software ▶ page 6+7 | | | | |
| DeScribeX for 3D printing | ✓ | ✓ | ✓ | ✓ |
| GrayScribeX for 2.5D printing | ✓ | ✓ | ✓ | ✓ |
| nanoPrintX for 3D aligned & grayscale printing | ✓ | ✓ | ✓ | ✓ |
| nanoConnectX for remote control | ✓ | ✓ | ✓ | ✓ |

✓ included / preconfigured ✓ optional – not available

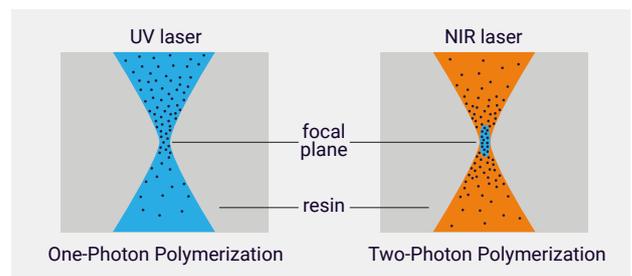
Key technologies

Two-Photon Polymerization technology is advancing rapidly, leading to groundbreaking innovations and setting new standards for high-resolution 3D printing.

Two-Photon Polymerization (2PP)

The key enabling technology of high-precision 3D printing

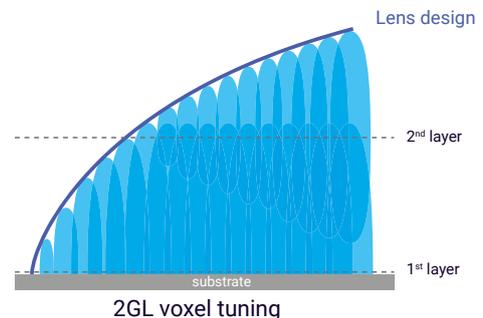
Two-photon polymerization (2PP) is based on the simultaneous absorption of two photons by a molecule, raising it to a higher energy state. Typically, this process takes place in a liquid photosensitive resin that is cured by UV light. Unlike single-photon absorption, which cures the resin throughout the exposed volume, 2PP uses lower-energy light (e.g., near-infrared) and cures the resin only when two photons are absorbed simultaneously. This nonlinear effect occurs only within the high-intensity focal volume of the pulsed light, enabling polymerization with submicron precision. The result: significantly smaller voxels and ultra-high resolution 3D structures.



Two-Photon Grayscale Lithography (2GL®)

High-speed 2GL voxel tuning for 2.5D printing

Two-Photon Grayscale Lithography (2GL®) is Nanoscribe's 2PP-based proprietary grayscale printing technology, enabling dynamic voxel size control. 2GL achieves height variations within a single scan plane, drastically reducing the number of layers – and thus print time – while delivering high shape accuracy, smooth contours, and high-resolution surface features.



3D printing by 2GL®

Launched in 2023, 3D printing by 2GL® takes Nanoscribe's grayscale technology to the third dimension. The high-resolution 3D printing process is based on dynamic modulation of laser power in real time while scanning at highest speed. This leads to highly precise sizing of the polymerizing voxel to perfectly match the contours of any 3D shape.

The proprietary 3D nanofabrication technology produces flawless, smooth surfaces without any slicing steps or voxel-related shape distortions, accurately representing the actual shape of any high-resolution 3D design.

Speed boost up to 60x

3D printing by 2GL® is the fastest 2PP-based 3D microfabrication technology available on the market today. Its dynamic voxel tuning requires far fewer print layers to achieve print results with optically smooth and nanostructured surfaces.

The fastest additive manufacturing technology for 3D nano- and microfabrication provides a massive acceleration in printing speed. The increase in throughput depends on the structure design but is 10 to 60 times the throughput of any current 2-photon lithography system while maintaining the same demanding print quality requirements.

Aligned 2-Photon Lithography (A2PL®)

Nanoprecise, automated alignment for 3D printing on fibers, chips, and wafers – enabling advanced nano- and microscale fabrication and integration.

Aligned 2-Photon Lithography (A2PL®) is Nanoscribe's proprietary technology for automatically aligned, high-precision 3D printing on various substrates such as optical fibers, photonic chips, and wafers. Based on Two-Photon Polymerization (2PP) and enhanced by 2GL® printing, A2PL enables the fabrication of aligned micro-optics and optical interconnects for advanced photonics packaging and integration. Automatic alignment routines detect fiducials and surface features with nanometer precision in all three dimensions, to ensure accurate structure placement.

On-fiber printing

A dedicated fiber illumination unit enables fiber core detection with submicron precision. Micro-optics are automatically aligned along the fiber's optical axis for precise, application-ready integration.

On-chip printing

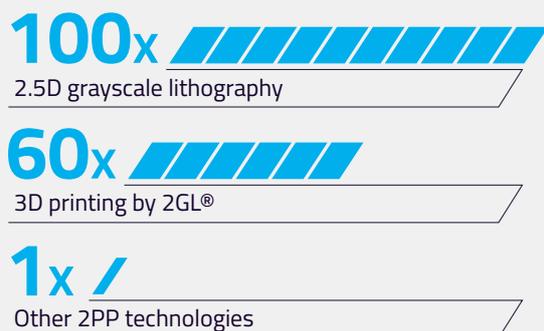
A confocal detection module captures high-resolution 3D topographies of chip surfaces. It outperforms conventional camera-based approaches by identifying fiducials and alignment markers with lateral accuracy down to 100 nm.

Powered by nanoPrintX

The alignment workflow is seamlessly integrated into nanoPrintX. The software matches detected features such as chip layouts or fiber facets to the digital model, enabling precise structure placement, minimizing coupling losses.

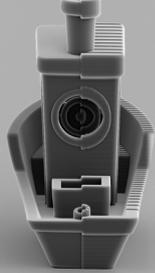
Speed. Without compromise.

Our breakthrough 2GL® technology enables ultra-fast grayscale printing of 2.5D and 3D structures with superior quality and shape accuracy, which is essential for optics manufacturing and precision components.



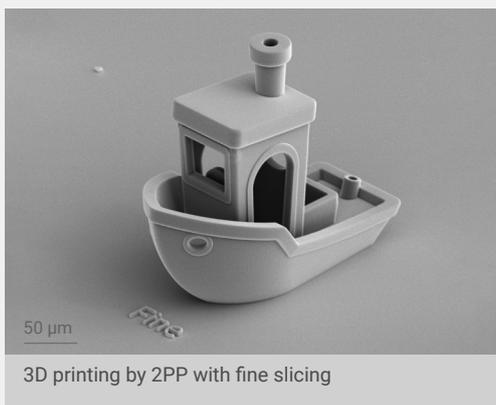
3D printing by 2GL

3D printing by 2PP



50 µm

Prints with the same slicing distance and time.



50 µm

3D printing by 2PP with fine slicing



50 µm

3D printing by 2GL with coarse slicing
10x faster than classic 2PP with superior quality

Performance by software

Transform your 3D designs into high-precision prints – faster and easier than ever. Our software solutions unlock advanced features, automate key steps, and ensure reliable results.

Basic print job preparation

DeScribeX is designed for print jobs with classic 2PP-based 3D printing

DeScribeX is the intuitive print job preparation software for creating individual 3D print jobs for Quantum X systems. Its integrated import wizard makes loading STL files fast and effortless. Pre-installed print parameter presets provide reliable starting points, enabling successful prints in just a few steps.

A DeScribeX key feature is the “what you see is what you print” approach: a detailed 3D preview and print simulation

shows parameters such as print time, scan speed, and laser power – allowing for full control and predictability. DeScribeX combines ease of use with powerful features like adaptive slicing for surface refinement and parameter sweeps to optimize settings for new materials and applications.

Grayscale print job preparation

GrayScribeX is designed for 2.5D grayscale lithography print jobs

GrayScribeX is a dedicated software tool for preparing 2D and 2.5D grayscale print jobs on Quantum X systems. You can import 16-bit grayscale images or CAD models, which are automatically converted into height-encoded grayscale representations.

A smart algorithm translates gray values into precise height profiles and applies calibrated print parameters

accordingly. Objects can be easily added, duplicated, removed, rescaled, or arranged in arrays – enabling complex layouts with multiple structures in a single job. Field-proven print parameter presets ensure reliable results and reproducible results across a wide range of applications.

Aligned 3D printing with nanoPrintX

nanoPrintX is Nanoscribe’s powerful software for creating complex, alignment-sensitive 3D print jobs. Based on a scene graph concept, it organizes all print-relevant objects and operations hierarchically in a tree-like data structure. This enables precise control over what to print, where, how, and in which spatial orientation. The intuitive interface, paired with a central rendering canvas, provides real-time visual feedback on the spatial positioning and alignment of all components, both relative to each other and to predefined fiducials or substrates.

Each node in the scene graph represents a print-relevant object or operation with fully customizable properties. Multiple design files can be imported, grouped, duplicated as arrays, or merged into a single print object – providing exceptional versatility for advanced microfabrication workflows.

nanoPrintX is compatible with 2PP-based 3D printing and unleashes its full potential with 3D printing by 2GL®. It enables advanced applications such as fabricating optical couplers directly on fiber arrays or printing freeform optics precisely positioned on the edge of photonic chips.

Printer control at your fingertips

Print management with live monitoring and intuitive navigation

The Quantum X platform features an integrated touchscreen for intuitive print job management and real-time monitoring. It displays essential system information such as hardware status and live print progress. Three built-in cameras provide visual feedback before, during, and after the printing process. A virtual navigation camera view with a 3D model of the setup enables precise positioning

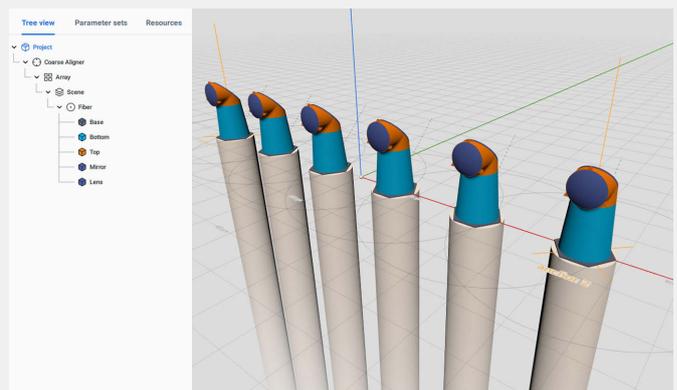
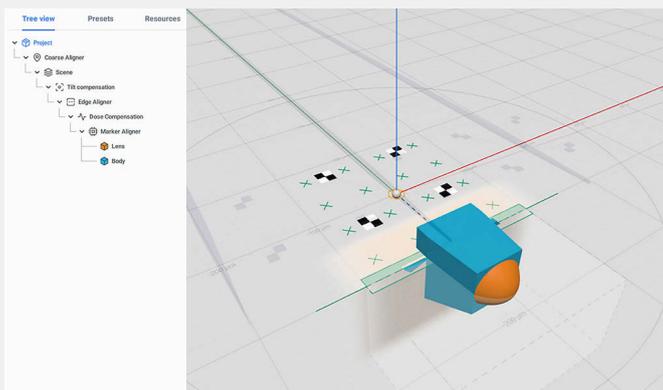
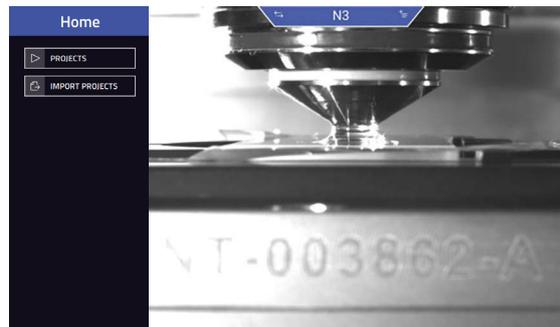
on the substrate, especially useful when working with specialized substrates or the bioprinting chamber. The system also supports automatic collision prevention. With a simple tap, prints can be aligned precisely to any position, even for complex structures, ensuring accuracy and confidence in every step.

Seamless remote operation

nanoConnectX for full printer access – from setup to monitoring, anytime and anywhere

With nanoConnectX, you can prepare, start, and monitor print jobs remotely – whether from your office or from any location. The software mirrors all control functions and displays features of the Quantum X system's front panel touchscreen, including system settings, print progress status, and live camera views. This seamless integration

supports efficient workflows in shared lab spaces, multi-user environments, and production setups. Whether managing a single system or coordinating across teams, nanoConnectX ensures streamlined control, operational flexibility, and real-time insights – wherever you are.



Quantum X shape

Achieve unparalleled performance in 3D microfabrication with the versatile and high-resolution 3D printer for science, R&D, and shared labs across multiple applications from micromechanics to MEMS and more.

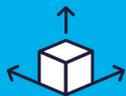


The most versatile high-resolution 3D printer

Quantum X shape is a highly configurable 3D printer based on Two-Photon Polymerization (2PP), designed for research-driven environments such as universities, R&D centers, and multi-user labs. It supports advanced 2PP-based technologies, including 2GL[®] and A2PL[®], enabling high-performance fabrication across a wide range of applications. From micromechanics and MEMS to micro-optics, materials engineering, and life sciences, the system produces complex 2.5D and 3D geometries with submicron precision and accuracy.

Reshaping precision, scale & usability

Quantum X shape offers outstanding versatility and flexibility for science and research applications. It covers multiple orders of magnitude – from nanometer-scale structures to centimeter-sized objects – and supports highly specialized use cases through interchangeable configuration sets tailored to specific scale and material requirements. With a wide range of compatible printing materials and substrates, automated and efficient workflows, and reliable process stability, the system ensures reproducible results from one-off research samples to more structured experimental series.

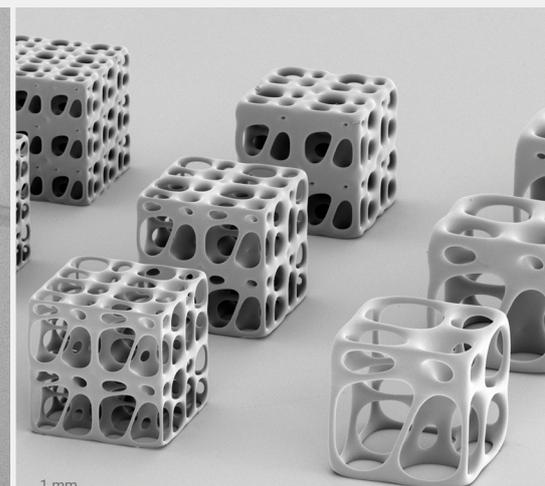
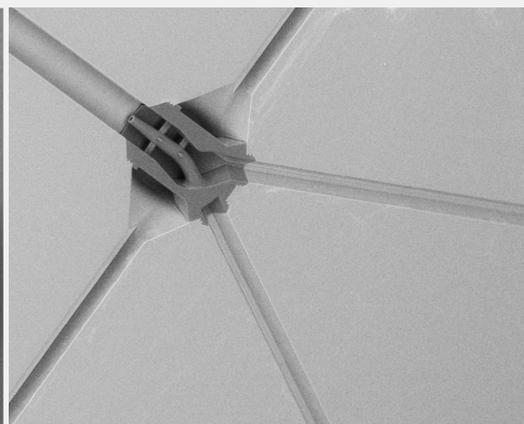


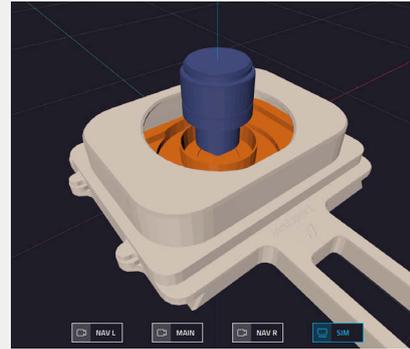
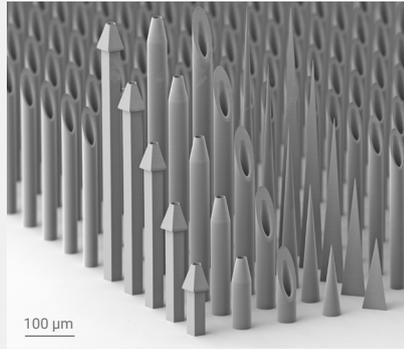
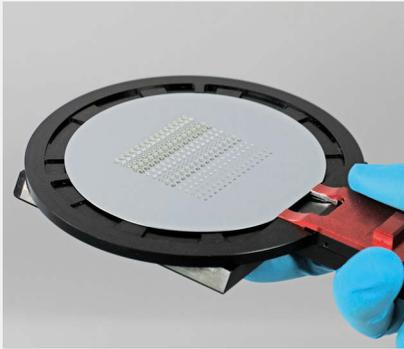
High-resolution 3D printing

Quantum X shape supports multi-user environments with high-resolution 3D printing for microfluidics, 3D scaffolds, freeform optics, mechanical parts, large-scale meshes, and more. Ideal for shared labs across photonics, biomedicine, and materials engineering.



[nanoscribe.com/
quantum-x-shape](https://nanoscribe.com/quantum-x-shape)





Most versatile, powerful system for advanced research

Key features

- ▶ High-resolution 3D printing based on Two-Photon Polymerization (2PP)
- ▶ Four Print Sets available, covering printing from nanometer details up to centimeter-sized parts
- ▶ Print volumes up to 30 cm³ in a single run with the XLF Print Set
- ▶ Wide range of substrates from dishes, flat substrates to microscope slides and wafers up to 8"
- ▶ Wide selection of Nanoscribe photoresins with various properties, including transparent, biocompatible, and flexible materials
- ▶ Open material system to third-party and custom materials
- ▶ Configurable with proprietary 2PP-based technologies, software, and application sets, tailored to specific applications

Performance & properties

Batch processing

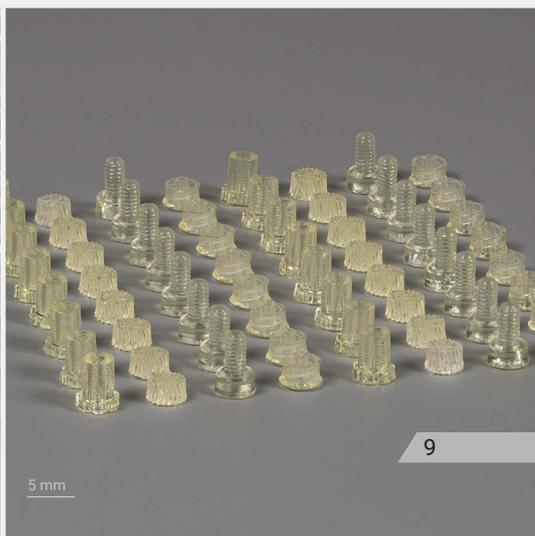
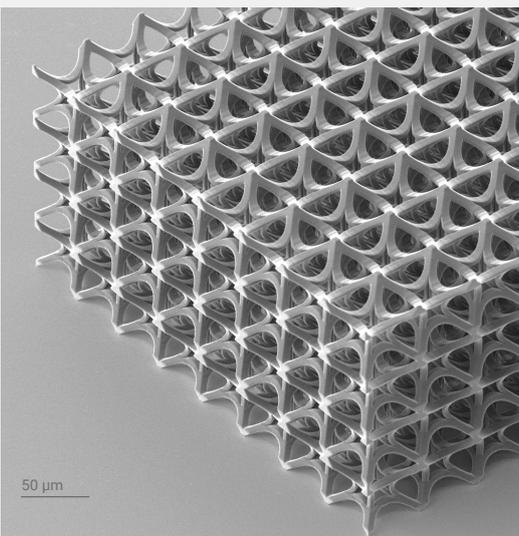
up to 200 typical mesoscale structures overnight

Included software

- DeScribeX for 3D microfabrication by 2PP
- nanoConnectX for remote control of the printer

"We trust the Quantum X shape for producing highly precise calibration standards. Once set up, it runs super-fast. Prints are reproducible, on spec, and it's become our go-to tool."

Dr. Julian Hering-Stratemeier, Chief Technology Officer (CTO) of Opti-Cal GmbH



Quantum X bio

Enjoy unmatched freedom in diverse substrates and biomaterials, from polymers to hydrogels. Empower your biomedical research with the high-resolution 3D bioprinter for tissue engineering, microfluidics, and more.



Quantum X bio for scalable, high-resolution 3D bioprinting

The Quantum X bio is a highly versatile, high-resolution 3D bioprinter powered by Two-Photon Polymerization (2PP). It enables the fabrication of intricate structures ranging from subcellular to millimeter scale and supports sterile printing for biomedical research, tissue engineering, and microfluidic applications.

3D biofabrication for life sciences

Quantum X bio enables high-precision printing of organic designs and complex 3D structures into microfluidic chips and onto a variety of substrates. It supports biomaterials from Nanoscribe and our partners such as Advanced BioMatrix, Cellink and BIO INX, while remaining open to third-party and custom materials. The bioprinting chamber provides essential environmental control, including temperature and humidity control, HEPA-filtered airflow for sterile conditions, and premixed air/CO₂ supply. These features create optimal conditions for working with aqueous biomaterials and living cells, for example to explore live cell printing.

Bioprinting library and smart workflow

Quantum X bio combines intuitive touchscreen control with a streamlined software workflow. To accelerate the path from idea to print, the Bioprinting Model Library offers a growing selection of verified, ready-to-use designs for commonly used structures and life science applications.

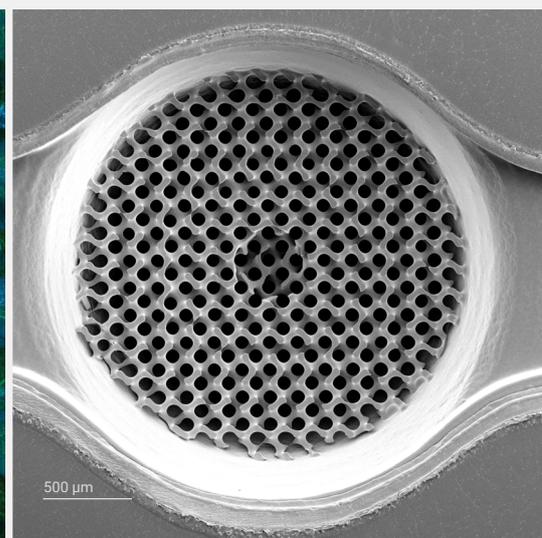
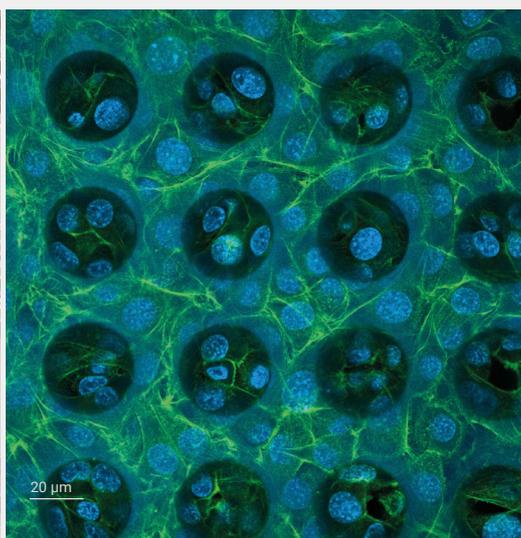
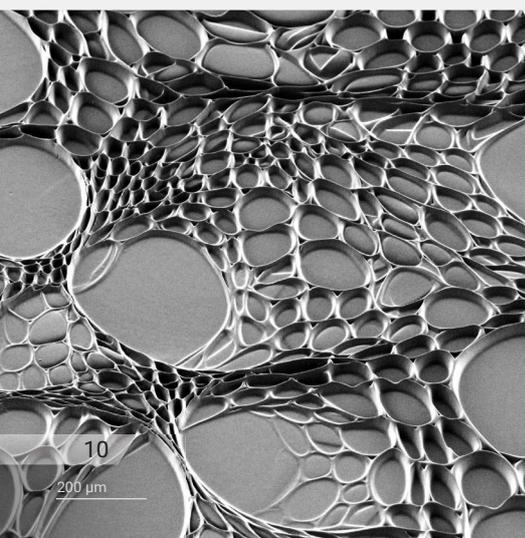


High-resolution 3D biofabrication

Quantum X bio enables advanced applications in tissue engineering, organ-on-a-chip, drug testing, and targeted delivery. Ideal for cell culture environment, in-chip structuring, microneedles, and customized mesoscale models.



[nanoscribe.com/
quantum-x-bio](https://nanoscribe.com/quantum-x-bio)





The most cell-friendly high-resolution 3D bioprinter

Key features

- ▶ High-resolution bioprinting process with feature sizes down to $\leq 1 \mu\text{m}$ for subcellular structures based on 2PP
- ▶ Bioprinting Set with CO_2 , temperature, and humidity control, with heatable cell culture dishes
- ▶ Access to the Bioprinting Model Library
- ▶ Holders for a wide variety of substrates such as microscope slides and cell dishes
- ▶ Four Print Sets available, covering printing from nanometer details up to centimeter-sized parts

Performance & properties

Printing materials

- Open system for custom materials
- Hydrogels/bioresins from Advanced BioMatrix, Cellink and BIO INX
- Nanoscribe polymer photoresins and glass photoresins

Live cell printing viability

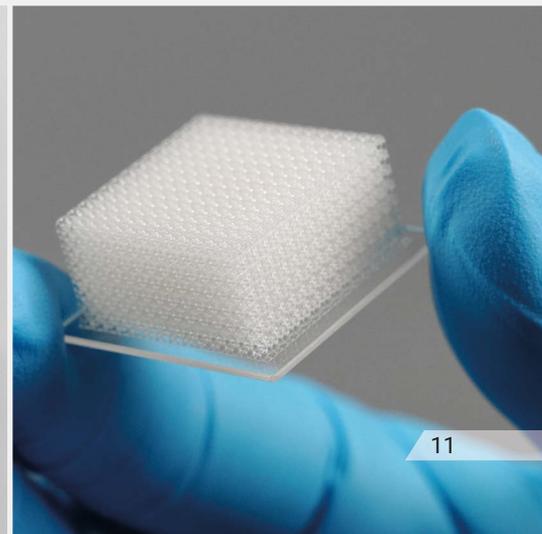
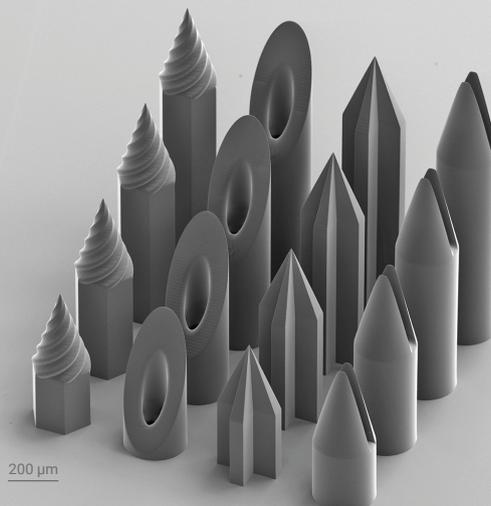
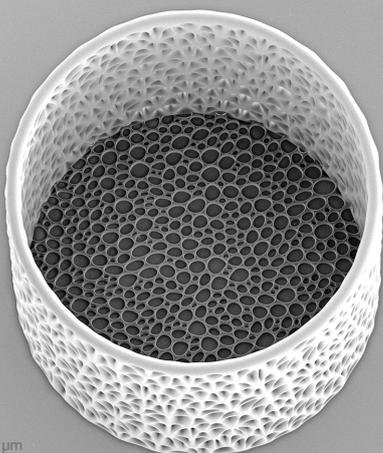
> 90%

Included software

- DeScribeX for 3D microfabrication by 2PP
- nanoConnectX for remote control of the printer

"The Photonic Professional GT system was great for tinkering and research, but it is cumbersome. The Quantum X bio is 1,000x better, and I am glad I bought it – I have never looked back."

Prof. Budd Tucker, University of Iowa (US)



Quantum X align

Unlock scalable optics manufacturing with high-resolution 3D printing and automated alignment on fibers, chips, and wafers – enabling reliable, low-loss photonic coupling as well as sensing and imaging applications.



The highest precision 3D optics printer

Powered by the cutting-edge technology of 3D printing by 2GL®, Quantum X align is producing freeform micro-optics with exceptional shape accuracy and surface quality. By dynamically adjusting the voxel size during the printing process, 2GL® significantly reduces the number of layers, thus increasing printing speed while ensuring superior quality results.

Optics printed right in place with Aligned 2-Photon Lithography

By using Aligned 2-Photon Lithography A2PL®, Quantum X align automatically detects chip edges, fiber cores, fiducials on chip surfaces, on wafers, and on further prestructured substrates. The system then prints freeform micro-optics directly in place with nanometer-scale positioning accuracy, ensuring that the optics are printed precisely aligned to optical axes. This makes the printer ideal for photonics packaging, saving time and costs for additional fabrication and assembly steps for mounting or fixation.

Versatile materials for optics manufacturing

Quantum X align supports a broad range of validated resins for optics manufacturing. Nanoscribe photopolymers offer high transparency across the entire visible spectrum and into NIR and UV, different refractive indices and Abbe numbers. Designed for demanding applications, they offer proven stability under laser exposure, thermal stress, and humidity.



Optics manufacturing

Quantum X align enables direct 3D printing of freeform micro-optics for efficient photonic coupling, miniaturized imaging, as well as fiber- and chip-based sensing.



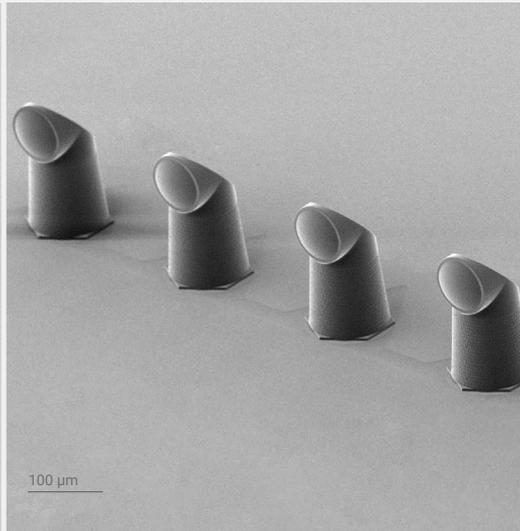
nanoscribe.com/quantum-x-align



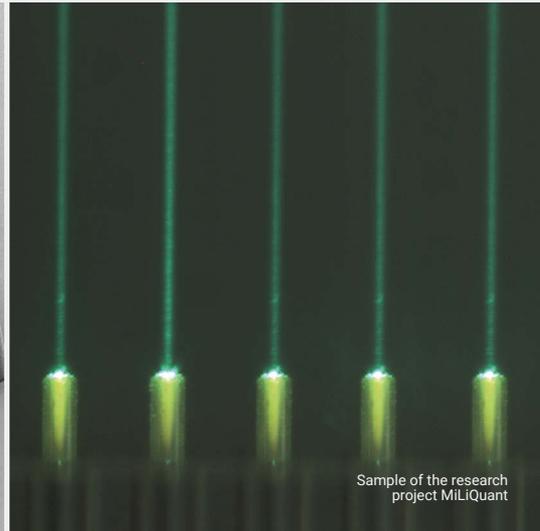
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100 μm

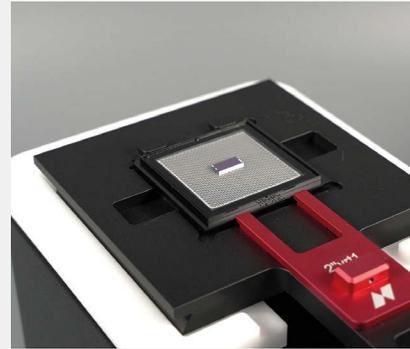
Design by Printoptix, print by Nanoscribe



100 μm



Sample of the research project MILIQuant



Aligned 3D printing for integrated photonics & optics

Key features

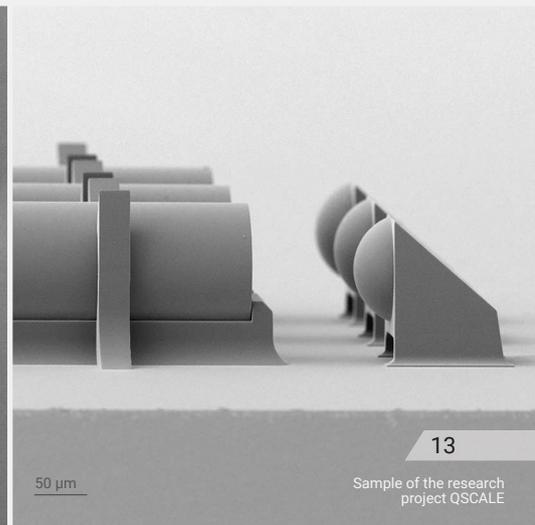
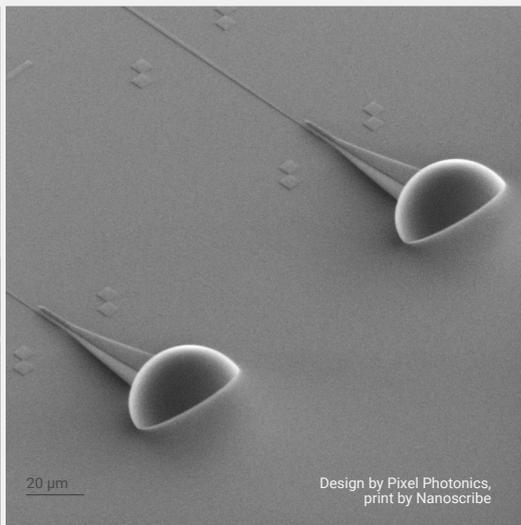
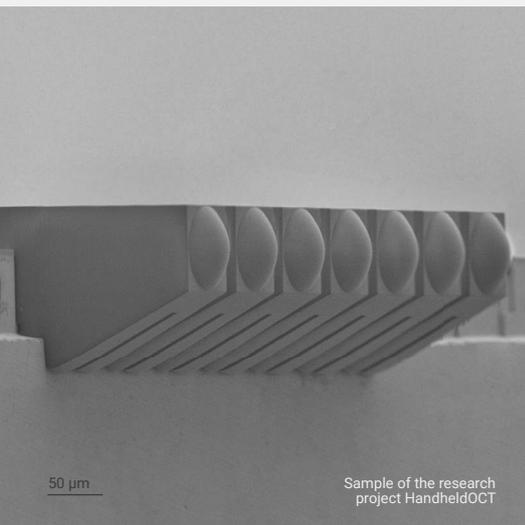
- ▶ 3D printing by 2GL® for up to 60 times faster print speeds than classic 2PP
- ▶ Automatic alignment to fiber cores, chip edges & fiducials on chip surfaces with A2PL®
- ▶ 3D printing on different material platforms for photonics packaging, e.g. SiN, Si, SOI, GaAs, LNOI...
- ▶ Photonic coupling between different components, e.g. PICs, lasers, VCSELs, photodiodes, SM/MM/PM fibers...
- ▶ Fiber Printing Set with nanometer fiber core detection
- ▶ Chip Printing Set with 3D mapping and 3D printing on complex substrate topographies
- ▶ Three Print Sets available, covering printing from nanometer details up to millimeter-sized optics

Performance & properties

| | |
|-----------------------------------|--|
| 3D alignment accuracy | down to 100 nm (xy) / 500 nm (z) |
| Achievable coupling losses | down to ≤ 1 dB |
| Included software | <ul style="list-style-type: none"> • nanoPrintX for aligned 3D printing • nanoConnectX for remote control of the printer |

“We are confident in Nanoscribe’s new, aligned 3D printing technology for producing lensed fiber arrays and lensed chips with virtually limitless optical designs.”

Joost van Kerkhof, Chief Operations Officer of PHIX Photonics Assembly



Quantum X litho

The system stands out with its precise, versatile and aligned grayscale lithography, which is ideal for high-throughput 2.5D rapid prototyping, patterning, master template fabrication and wafer-scale production.



2GL® printing for 2.5D rapid prototyping and mastering

Quantum X litho is a versatile maskless lithography system offering exceptional design freedom and streamlined processing for rapid prototyping, surface patterning, master template fabrication, and wafer-scale production. Powered by Two-Photon Grayscale Lithography 2GL®, the system enables the fabrication of high-precision freeform micro-optics, microlens arrays, Fresnel lenses, and hybrid optical components combining diffractive and refractive features. Quantum X litho is also suited for patterning complex microfluidic and bioinspired designs. 2GL® technology delivers unmatched throughput and shape accuracy for all types of advanced 2.5D structures – including tall features up to 1,000 µm, exceeding conventional height limitations.

Industrial performance

2GL® accelerates innovation cycles with sub-day design-iteration-cycles for functional prototypes and master templates. Designs printed with Quantum X litho seamlessly integrate into industrial replication workflows such as nanoimprint lithography, hot embossing, and injection molding. The confocal detection module, in combination with nanoPrintX, enables precisely aligned printing for wafer-scale production and mastering. With support for 3D printing by 2GL®, the system can offer enhanced versatility, unlocking a broader range of advanced applications.

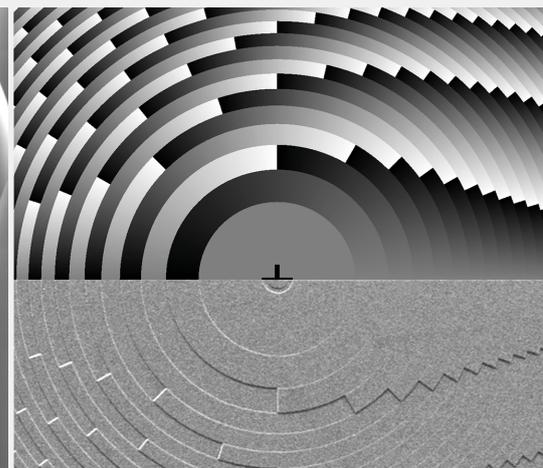
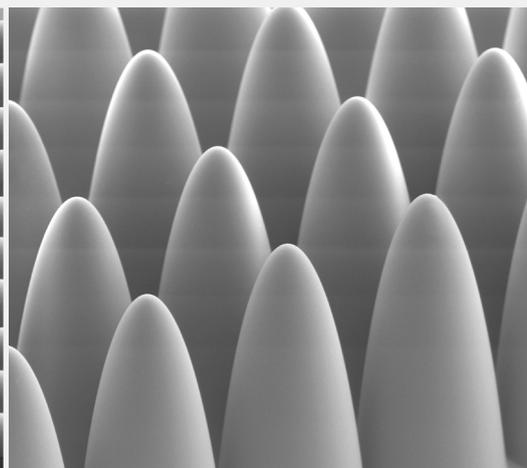
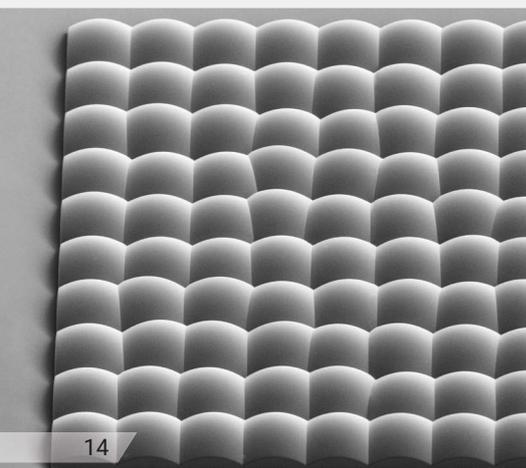


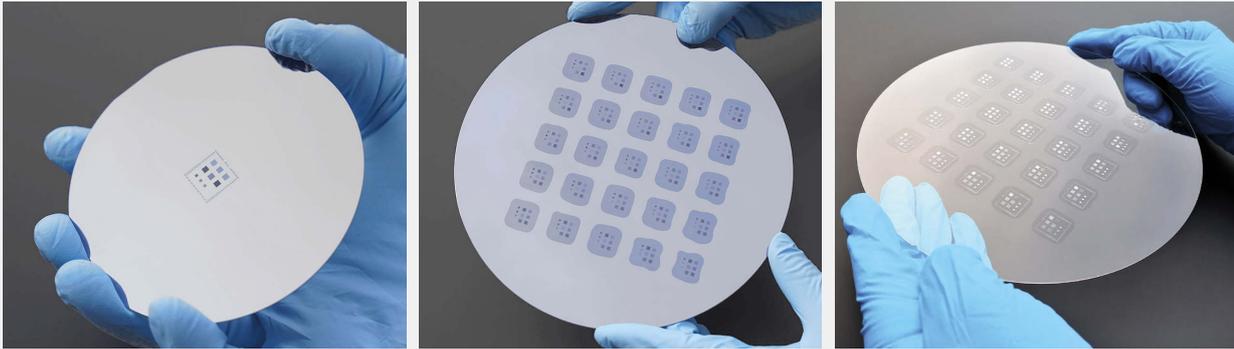
Maskless lithography

Quantum X litho is ideal for maskless grayscale lithography of advanced 2.5D micro-optics, e.g. used in VR/AR devices, sensors, and imaging systems. It enables rapid prototyping, scalable master template fabrication, high-precision surface patterning, and wafer-scale production.



[nanoscribe.com/
quantum-x-litho](https://nanoscribe.com/quantum-x-litho)





Maskless lithography for patterning and mastering

Key features

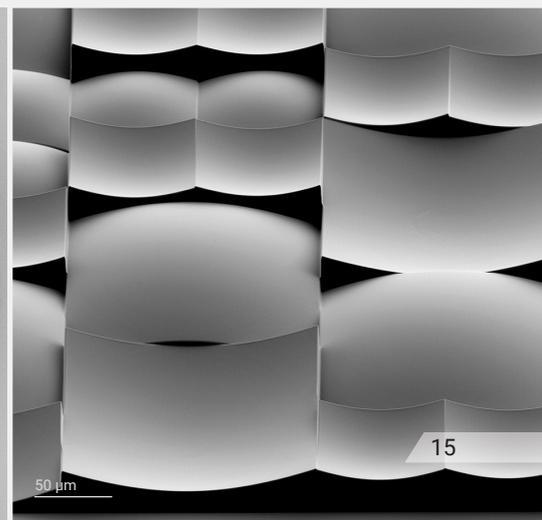
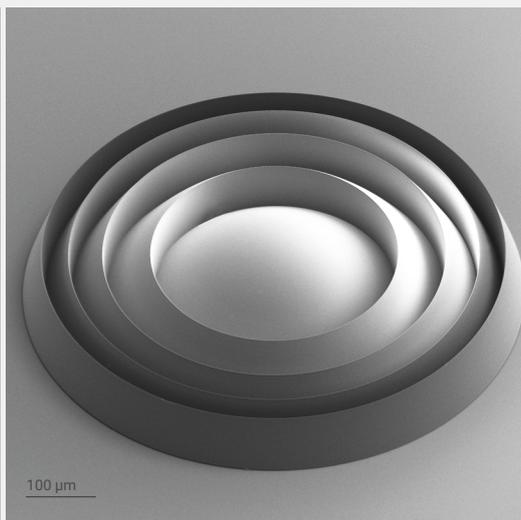
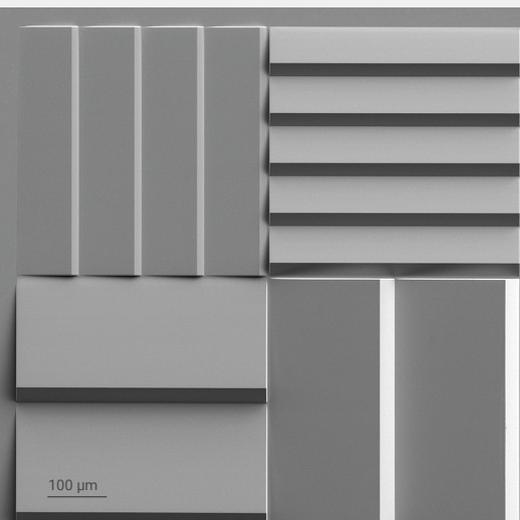
- ▶ 2.5D printing by Two-Photon Grayscale Lithography for up to 100 times faster print speeds than classic 2PP
- ▶ Automatic alignment to fiducials on wafers enabled by a confocal detection module
- ▶ Wafer-scale production on transparent and opaque wafers
- ▶ Ultra-smooth surfaces and excellent shape accuracy
- ▶ Sag heights up to $\geq 1,000 \mu\text{m}$ with vertical side walls and high aspect ratios
- ▶ Holders for wafer sizes from 1" to 8"
- ▶ Three Print Sets available, covering printing from nanometer details up to millimeter-sized parts

Performance & properties

| | |
|---|--|
| Surface roughness R_a | down to $\leq 5 \text{ nm}$ |
| Shape accuracy S_a | down to $\leq 200 \text{ nm}$ |
| Microlens array print throughput | 20 mm ² /h for 100 μm height |
| Included software | <ul style="list-style-type: none"> • GrayScribeX for 2.5D printing with 2GL • nanoConnectX for remote control of the printer |

"My first print job worked flawlessly and the structure is stunningly good, if not to say sensational. I have never seen anything like this before."

Prof. Dr. Harald Giessen, University of Stuttgart





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- ▶ Extended maintenance and guarantee contracts, upgrade and relocation services

Our mission: to deliver the best service with minimum downtime so you can focus on innovation.



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