

Supporting the manufacturing of digital and smart devices that enrich people's lives.

A super-smart society is expected to transform our quality of life and work by utilizing IoT, AI, robotics, and information and communications technology. Flat-panel displays (FPDs), including LCDs (liquid-crystal displays) and OLEDs (organic LEDs), as well as semiconductor devices are indispensable for realizing such a society. Nikon produces the lithography systems that expose circuit patterns for such components, covering development, design, production, sales and services. We supply FPD lithography systems featuring a unique multi-lens system for producing large panels used in TVs as well as small- and medium-sized panels used in smart devices. In addition, we provide semiconductor lithography systems, deemed "the most precise machines in history," which offer precision down to around 1 nm*. And their high productivity satisfies a variety of demands, such as for miniaturization and higher integration of semiconductor devices. Through these initiatives, Nikon's Precision Equipment Business contributes to the realization of a super-smart society.

*1 nm: one-billionth of a meter.



FPD Lithography System "FX-885"

Gen 8 Plate FPD Lithography System. Supporting panels for high-value-added premium displays, such as smart devices, high-end monitors, and large-screen TVs.



Semiconductor Lithography System "NSR-5635E"

Developed for high-volume advanced node-application manufacturing. Equipped with the high-performance "inline Alignment Station (IAS)." Enabling superior overlay accuracy and remarkable throughput.



Alignment Station "Litho Booster"

Measures grid distortion values quickly for all wafers prior to exposure. Feed-forward enables highly accurate overlay correction, contributing to improvements in semiconductor production yield and ROI (Return on Investment).



Providing solutions that contribute to the resolution of various issues in the fields of bioscience and medical care.

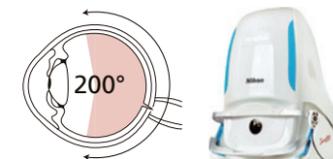
The Healthcare Business comprises three solutions based on Nikon's core technologies in advanced optics and image processing and analysis. "Life Science Solutions" contribute to progress in the fields of bioscience research and drug discovery by making it possible to visualize and analyze various biological events using our microscope technology, which has about 100 years of history. "Eye Care Solutions" provide ophthalmology instruments and systems based on proprietary technology that contribute to early detection of eye diseases and improvement of quality of life. "Contract Cell Development and Manufacturing" provides a broad range of contract development and manufacturing services for cell and gene therapy in Japan. In an era of increasing human longevity, Nikon aims to support the health and well-being of as many people as possible in a society where people lead longer, healthier lives.



Confocal based Super-Resolution Microscope "AX with NSPARC"

Capable of capturing a wide and highly detailed range of biological phenomena, including in deep tissue. In addition to drug discovery and development, contributes to the understanding of disease mechanisms related to cranial nerves, cancers, and other diseases, and further expands the scope of potential research.

*Attaches to the ECLIPSE Ti2-E inverted research microscope.



Ultra-Widefield Retinal Imaging Device with Integrated UWF-Guided Swept Source OCT "Silverstone"

Capable of capturing an ultra-wide-field retinal image covering approximately 80% of the retina and a cross-sectional retinal image at any position in the ultra-wide-field image in one device.



Cell & Gene Therapy Contract Development and Manufacturing

Providing world-class contract services to pharmaceutical and bio venture companies.