

History of Nikon

Since its establishment in 1917, optical technology-pioneering Nikon Corporation has been providing a variety of value globally. Having developed a range of products stemming from its opto-electronics and precision technologies and increased corporate value by supplying those products all over the world, Nikon has continued to grow in a sustainable manner for nearly 100 years.



1917

Nippon Kogaku K.K. established

1921

- **MIKRON 4x and 6x** ¹ ultra-small-prism binoculars marketed
First binoculars developed, designed, and manufactured by Nikon

1925

- **JOICO Microscope** ², the first designed by Nikon, marketed

1932

- **NIKKOR** adopted as brand name for camera lenses

1945

- Following the end of World War II, production shifts to civilian-use optical equipment

1946

- **Nikon** adopted as brand name for small-sized cameras

1948

- **Nikon Model I** ³ small-sized camera marketed
First Nikon camera

1949

- Listed on both Tokyo and Osaka stock exchanges

1953

- Nikon Optical Co., Inc. established in the United States to import cameras and other products, provide technical services, and conduct market surveys

1959

- **Nikon F** ⁴ single-lens reflex (SLR) camera marketed
Nikon's first interchangeable lens SLR camera

1961

- Nikon AG established in Switzerland

1968

- Nikon Europe N.V.—currently Nikon Europe B.V.—established in the Netherlands

1980

- **NSR-1010G** ⁵ Step-and-Repeat System (stepper) for manufacturing very large-scale integration (VLSI) marketed
the first domestically manufactured commercial stepper

1981

- Ehrenreich Photo-Optical Industries, Inc. is acquired in the United States and renamed Nikon Inc.

1986

- **NSR-L7501G** ⁶ large substrate exposure system marketed
Nikon's first LCD stepper and scanner

1988

- Corporate name changed to Nikon Corporation

1990

- Nikon (Thailand) Co., Ltd. established in Thailand

1995

- **NEXIV** ⁷ series CNC video measuring system marketed
Non-contact, high-precision measurement made possible by image processing technology

1999

- **D1** ⁸ digital SLR camera marketed
Priced with general users in mind, contributed to popularity of digital SLR cameras



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Our Philosophy

Trustworthiness and Creativity

Our corporate philosophy of “Trustworthiness and Creativity” — simple words that are not easily put into practice.

These important words represent unchanging principles to which we will always be dedicated.

Our Aspirations

Meeting Needs. Exceeding Expectations.

“Our aspirations” mean not only to meet the needs of customers but also to provide customers with new value that exceeds their expectations. “Meeting needs. Exceeding expectations.” is our vision for the future.

- Providing customers with new value that exceeds their expectations.
- Sustaining growth through a break with the past and a passionate commitment by one and all.
- Maximizing our understanding of light to lead the way toward transformation and a new future.
- Maintaining integrity in order to contribute to social prosperity.

→ 2016

2000

- Corporate philosophy defined as “Trustworthiness and Creativity”

2002

- Nikon Imaging (China) Co., Ltd. established in China

2005

- Nikon Imaging (China) Sales Co., Ltd. starts operations in China

2007

- **BioStation CT** ⁹ cell culture observation system marketed
Expanded possibilities of live cell observation
- Nikon India Private Limited starts operations in India

2008

- Nikon (Russia) LLC. starts operations in Russia

2009

- Nikon Mexico S.A. de C.V. starts operations in Mexico
- Metris NV becomes Nikon Metrology NV, a wholly owned Belgian subsidiary

2010

- **N-SIM** and **N-STORM** ¹⁰ super resolution microscopes marketed
Achieved resolution beyond capabilities of conventional optical microscopes

- **HN-6060** ¹¹ non-contact multi-sensor 3D metrology system marketed
Enabled non-contact acquisition of measurement data at high speed, precision, and density

2011

- **Nikon 1 J1** ¹² and **Nikon 1 V1** advanced cameras with interchangeable lenses marketed

2012

- Nikon Middle East FZE starts operations in Dubai, United Arab Emirates (UAE)

2013

- PT Nikon Indonesia starts operations in Indonesia
- Nikon Lao Co., Ltd. established in Laos
- Health and medical fields selected as new business targets

2014

- **iNEXIV VMA-4540** CNC video measuring system marketed
- In-house company system abolished, reorganized into divisional system under direct control of president

2015

- Optos Plc becomes wholly owned subsidiary in the United Kingdom
- Nikon CeLL innovation Co., Ltd. established
- Nikon Museum established
- **HN-C3030** high accuracy non-contact sensor 3D metrology system marketed
- **N-STORM 4.0** super resolution microscope marketed

2016

- **NSR-S631E** ArF immersion scanner marketed
- **FX-68S** FPD scanner marketed
- **D5** and **D500** digital SLR cameras marketed



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Nikon's Business Structure

PRECISION EQUIPMENT BUSINESS

Semiconductor Lithography Business

Development, manufacture, sales, and service of semiconductor lithography systems for the production of semiconductors used primarily in electronics

CHARACTERISTICS

Nikon pursues the miniaturization of circuit patterns critical to the enhanced performance and increased integration of semiconductors. The Company possesses immersion exposure technologies that fill the space between the projection lens and the wafer with purified water to achieve high resolution. In addition, the Company is developing a range of groundbreaking precision technologies, such as platforms adaptable for a balance between high overlay accuracy and high productivity as well as for 450mm wafers.

FPD Lithography Business

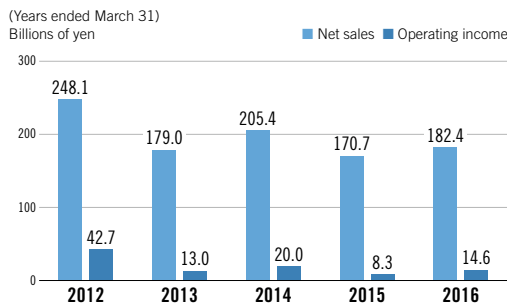
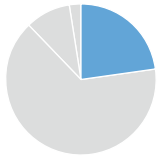
Development, manufacture, sales, and service of FPD lithography systems for the production of LCD and organic light-emitting diode (OLED) panels

CHARACTERISTICS

Nikon possesses a high share of the market for FPD lithography systems used in the manufacture of small and medium-sized high-definition LCD panels as well as OLED panels for smartphones and tablet computers. Nikon's proprietary multi-lens projection optical systems offer overwhelming advantages for larger and higher-definition panels.

Sales by Business Segment

22.2%



IMAGING PRODUCTS BUSINESS

Development, manufacture, sales, and service of digital cameras—interchangeable lens type, interchangeable lenses and compact digital cameras, and other products

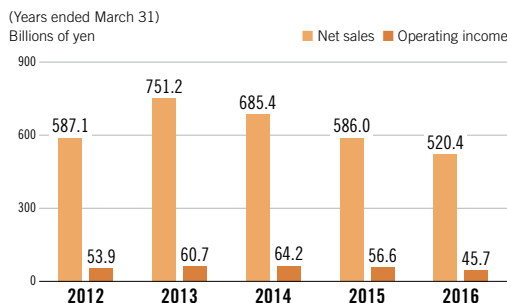
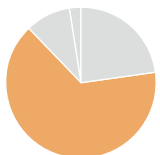
CHARACTERISTICS

Nikon has been developing high-performance products by combining the latest digital image processing and network technologies with Nikon camera technology, whose fame was first established when the Nikon Model I small-sized camera was launched in 1948. Throughout the world, Nikon possesses high brand power.

Underpinned by its accumulated experience and technologies, Nikon works to offer a range of products and services that brings to fruition “new ways to enjoy images” and pursues the unlimited possibilities of photos and video.

Sales by Business Segment

63.2%



INSTRUMENTS BUSINESS

Microscope Solutions Business

Development, manufacture, sales, and service of biological microscopes, cell culture observation systems, etc.
 Newly entered the contract manufacturing business in areas such as cells for regenerative medicine therapeutics

CHARACTERISTICS

By means of its super resolution microscopes that greatly exceed the resolution limits of conventional optical microscopes, Nikon opens up new possibilities in live cell imaging. Having signed a collaboration agreement with Lonza, of Switzerland, the world's largest manufacturer of cells for regenerative medicine therapeutics, the Nikon Group has established the basis of its regenerative medicine contract manufacturing business.

Industrial Metrology Business

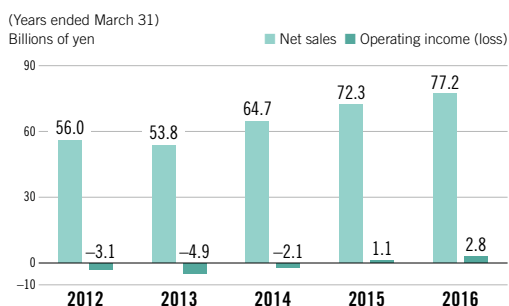
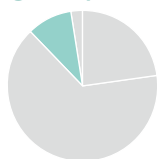
Development, manufacture, sales, and service of industrial microscopes, metrology systems, and X-ray / CT inspection systems

CHARACTERISTICS

Nikon develops and markets industrial microscopes, 2D and 3D metrology systems, and X-ray / CT inspection systems that enable non-destructive inspection for industrial fields that include electronic components, automobiles, and aircraft. As quality-control tools indispensable in the production process, they are highly acclaimed by our customers.

Sales by Business Segment

9.4%



MEDICAL BUSINESS

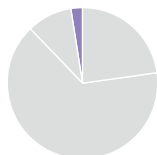
Sales and service of Optos Plc's products, such as retina diagnostic imaging equipment

CHARACTERISTICS

Based on its core competencies of opto-electronics and precision technologies, Nikon is developing a new medical device business to answer previously unmet needs at various medical levels, such as prevention, diagnosis, treatment, and prognosis management.

Sales by Business Segment

2.2%



Financial Results for the Fiscal Year Ended March 31, 2016

Net sales	¥18.3 billion
Operating loss	¥4.6 billion



OTHER BUSINESSES

CHARACTERISTICS

In addition to such fields as Customized Products Business, which handles space-related products, and Glass Business, which handles FPD photomask substrates, etc., as well as Encoders Business and Ophthalmic Lenses Business, Other Businesses contribute to the development of science and technology in addition to industry and society.

- Customized Products Business
- Glass Business
- Encoders Business
- Ophthalmic Lenses Business

Nikon's Technological Capabilities

Nikon develops an extensive range of products and services based on the opto-electronics and precision technologies nurtured throughout its history. While responding to society's various needs, Nikon continues to enrich lives around the world and support cutting-edge industries that are shaping the future.

We would like to introduce some of our mainstay products.



Semiconductor Lithography System **NSR-S631E**

The NSR-S631E was developed for high volume manufacturing of semiconductors using 7nm node processes. It is based on the proven *Streamalign* platform, and delivers ultra-high accuracy and world-class productivity. The NSR-S631E ensures stable volume production of cutting-edge devices.



FPD Lithography System **FX-68S**

The FX-68S is an optimal FPD lithography system for manufacturing high-definition LCD and OLED panels indispensable for the latest, sophisticated mobile devices, such as smartphones. Its multi-lens projection optical systems enable improved productivity as well as high resolution and high alignment accuracy.

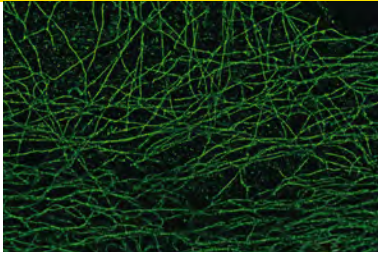
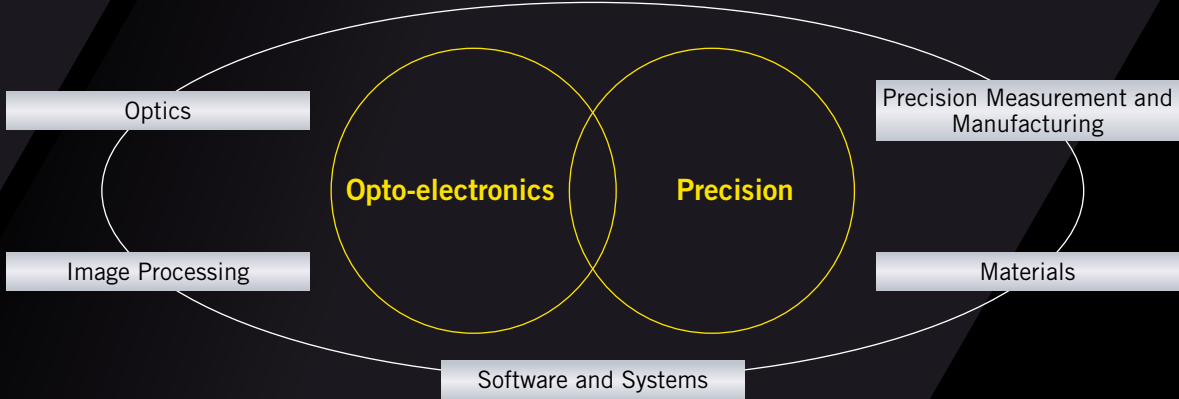


Digital Single-Lens Reflex (SLR) Camera **D5**

The new-generation, 153-point AF system enables more reliable capture of subjects in a variety of situations. Featuring significantly improved moving subject capturing capabilities and high-sensitivity image quality, the D5 is a high-performance flagship model responsive to a wide variety of scenes and subjects.

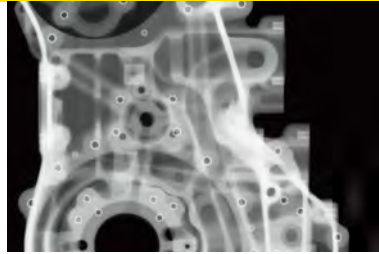


Basic Technologies that Support Nikon



Super Resolution Microscope **N-STORM 4.0**

N-STORM 4.0 is a super resolution microscope that provides the capability to obtain images with 10 times higher resolution than conventional optical microscopes. N-STORM 4.0 delivers rich information that enhances understanding of the structure of living cells and biological phenomena at molecular levels. The adoption of the sCMOS camera has significantly improved image acquisition speed.



X-Ray / CT Inspection System **XT H 450**

Utilizing X-ray transmission, the XT H 450 is capable of the non-destructive inspection of inner defects of castings and large structural objects. Employing a high-power micro focus X-ray, the XT H 450 is a powerful tool for fine inspection of large castings and high-density metal objects, such as turbine blades.



* Retina image taken by California

Ultra-Widefield Imaging Device **California**

Ultra-widefield (UWF) technology can instantly capture images of approximately 82% of the retina, which is 50% more of the retina when compared with other conventional imaging devices, and enables the early detection of diseases, the signs of which can be confirmed in the retina.

