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Our Philosophy

Trustworthiness and Creativity

Our corporate philosophy is “Trustworthiness and Creativity.” These are simple words, but they 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.

Our Commitments

Be proactive
Be broad-minded and well-informed in order to act quickly and resolutely.

Communicate well
Harmonize diverse skills by thinking out of the box and communicating effectively with others.

Seek new knowledge
Pioneer new potential through self-study and insatiable curiosity.

Display integrity
Work with diligence and sincerity as a responsible individual.

These are the everyday policies we live by to realize our aspirations.
Accelerating our transformation toward a new and reformed Nikon

As we celebrate our 100th anniversary in 2017, we are truly grateful for your continuous support and guidance. Since the company was established in 1917, Nikon has cultivated its status as a pioneer of optical technologies. Guided by our corporate philosophy of “Trustworthiness and Creativity,” we have continued to challenge ourselves to provide a wide range of products and services globally by harnessing our advanced technologies, the core of which encompasses opto-electronics and precision technologies.

The global business environment has experienced drastic changes in the last few years. Rapid advancement in the field of information technology has helped expedite the installation of new networking infrastructure around the world. As it becomes possible to process more and more data at ever-faster speeds, information technologies continue to change how we do business and how we live our lives. Companies should not merely be satisfied with variations of conventional ideas. They must also have the creativity to proactively identify perpetually changing market needs, as well as the agility to quickly respond to changes.

With society facing a historic transition comparable to the Industrial Revolution, we at Nikon are making a major shift, from a corporate culture that largely depends on hardware to an enterprise that proposes business solutions, while keeping focused on “Trustworthiness and Creativity” as our manufacturing philosophy. Changing the mindset of each of our staff members is of the utmost importance. We are emphasizing three values in particular — “Curiosity” to explore out-of-the-box possibilities, “Open Mind” to flexibly accept opinions from other fields, and “Power to Inspire” that is essential for guiding and motivating groups that work together.

By encouraging staff members to proactively engage with customers and discover new needs, Nikon will be much better equipped to propose appropriate business solutions. By repeating this cycle, we are determined to expand our business fields and become an ideal company from which society will have higher expectations.

This year marks the halfway point of Nikon’s Medium Term Management Plan, announced in May 2015. Our goal is to exhibit progress not only in our instruments and medical businesses — the two fields we expect to grow — but in all of our businesses, including precision equipment and imaging products.

We ask for your continued support and guidance on this exciting journey.

Kazuo Ushida
President
Representative Director
Exciting Encounters

Shoot superior pictures.
Experience the vividness of nature up close.
Enjoy large-screen, high-definition television with family and friends.
Broaden communications with high-performance, easy-to-use personal computers and smartphones.
Exciting encounters with new products and services will realize people’s dreams.
Nikon’s technology will be there.
Nikon’s Aim: Technology that Inspires the Spirit
Nikon’s Aim: Technology that Moves Society Forward

Uncompromising Technology

How far will IC integration go?
Will cameras equal — or surpass the human eye?
How clear will the mechanism of life become?
How far can we peer into outer space?
Our incessant advance toward dreams and our unwavering spirit for research will open the doors to the future.
Nikon’s technology will be there.
Nikon technologies contribute to people’s lives and future dreams.

Nikon is contributing to technology in numerous fields, from manufacturing semiconductors with nanometer-rule circuit patterns and advancing bioscience, to furthering the possibilities of imaging and capturing views of stars that are billions of light years away. What makes this possible? Our opto-electronics and precision technologies that we have nurtured throughout our history and used to create an extensive range of products, services and even more new technologies. Nikon will continue to enrich lives around the world, support cutting-edge industries that are shaping the future, and confront the challenges facing societies around the world.

Precision Equipment Business
Modern society reaps great benefits from the electronics fabricated in industrial sectors, including areas such as home appliances, personal computers and automobiles. Nikon is continuously advancing the production of semiconductor lithography systems that are used to manufacture semiconductors — the very core of electronics — as well as FPD lithography systems for manufacturing liquid crystal panels and organic light-emitting diode (OLED) panels that are indispensable to LCD TVs, computers, and smartphones. In these and many other ways, Nikon is fostering and innovating our electronics-based society.

- Semiconductor lithography systems
- FPD lithography systems

Imaging Products Business
Thanks to advances in digital technology, the camera has evolved into an everyday device anybody can use to easily take high-quality pictures. For professional photographers, digital camera technologies have yielded remarkably advanced functions and performance that can significantly intensify creativity and expression. Nikon camera production acumen and technologies, both supported by our long history, will continue to expand imaging possibilities.

- Digital cameras
- Film cameras
- Interchangeable lenses
- Speedlights
- Photographic accessories
- Software
- Sport optics
Microscopes and measuring instruments from our Instruments Business are contributing to fields ranging from bioscience research to industrial sectors such as components for electronics, automobiles and aircraft. We also offer sophisticated, high-caliber surveying instruments used in architectural design and urban planning. Nikon supports the development of society with precision technologies and eyes firmly focused on the micro level.

- Biological microscopes
- Industrial microscopes
- Stereoscopic microscopes
- Measuring instruments
- X-ray/CT inspection systems
- Surveying instruments

Building upon Nikon’s core competencies of opto-electronics and precision technologies, we are developing new technologies, devices and services to answer unmet medical needs at each stage — prevention, diagnosis, treatment and prognosis management.

- Retinal diagnostic imaging equipment

The development of our business makes full use of the many technologies that Nikon has accumulated over the years. In addition to precision equipment, imaging products, instruments and the medical field, Nikon businesses encompass familiar items like ophthalmic lenses, more specialized goods such as industrial optical materials, encoders that are indispensable for factory automation, and the cutting-edge technology utilized in space exploration. Through these businesses, we continue to facilitate the evolution of science, technology, industry and society.

- Customized Products Business
- Glass Business
- Encoders Business
- Ophthalmic Lenses Business
The first Nikon semiconductor lithography system was introduced in 1980. Semiconductor lithography systems are finely tuned machines that miniaturize circuit patterns and print them on wafers. Regarded as the most precise machines ever developed, they require ultra-high-resolution projection lenses, exceptionally exact driving mechanisms, and elaborate control technology.

As part of our semiconductor lithography business, because circuit pattern miniaturization is vital for enhanced performance and increased integration of semiconductors, we are continuously developing groundbreaking technologies. These include immersion lithography, which enables ultra-high NA (numerical aperture) by intensifying the projection lens’ resolving power to the maximum level and filling the space between the lens and the wafer with purified water. We also created the Streamlign platform that simultaneously delivers excellent overlay accuracy and ultra-high productivity.

In our FPD lithography business, we supply lithography systems for increasingly demanded, small- and medium-sized high-definition LCD panels, as well as organic light-emitting diode (OLED) panels for smartphones and tablet computers. For the production of LCD TV panels, that are becoming ever larger, we employ unique multi-lens projection optical systems.

Nikon ultra-precision technology — supporting the evolution of our information society.
Employing the Streamlign platform, this scanner was developed for high-volume manufacturing of devices at the 7 nm process node (capable of handling multiple patterning). The super-high accuracy of below 2.3 nm Mix-and-Match Overlay (MMO) and extremely high throughput of more than 270 wafers per hour (96 shots) contribute to stable volume manufacturing at cutting-edge production lines.

By incorporating the Streamlign platform, performance of which was proven in immersion scanners, this scanner achieves enhanced overlay accuracy and higher throughput. This improved performance addresses customers' needs for increased accuracy and stable production in cutting-edge device manufacturing.

The FX-68S supports the production of leading-edge, high-resolution, small- and medium-sized panels from Gen 6 plates. The scanner method enables improved productivity, excellent resolution (1.5μm) and high alignment accuracy simultaneously.

Using the multi-lens projection optical system, the FX-101S is capable of handling Gen 10 large glass plates, which measure about 3 x 3 m. Single-scan printing produces six to eight large panels of over 60 inches screen size, making it an excellent solution for mass production.
Greater joys of imaging for more people.

Digital cameras are further expanding imaging possibilities, including shooting, viewing, processing and sharing. Nikon has been developing high-performance products by combining the latest digital image-processing and network technologies with Nikon film camera technology, whose fame has long been established since the Nikon Model I small-sized camera launched in 1948. By doing this, we not only meet an ever-increasing array of demands with a broad lineup range from cameras for family use to those for professional photographers, but also greatly enhance the world’s photographic culture.

Other products offer pleasures unique to digital imaging: image-editing software, online photo sharing service NIKON IMAGE SPACE, and service app SnapBridge that seamlessly connects a Nikon camera and smart device. We also extend the joy of viewing by offering binoculars, Fieldscopes and loupes, as well as laser rangefinders for use in golf.
The EDG 85 VR Series is the world’s first* Fieldscope to incorporate Nikon’s lens-shift type VR (Vibration Reduction) system. This system maximizes the EDG Fieldscope’s performance, ensuring comfortable, stress-free viewing.

Comprising our flagship models, the EDG series binoculars employ leading-edge optical technologies. For instance, EDG binoculars utilize Nikon’s renowned ED (Extra-low Dispersion) glass, as well as a field-flattener lens system. Now, you can enjoy a sharp, contrast-rich and clear image throughout the entire field of view.

Incorporating an image sensor and NIKKOR lens on both sides, this wearable action camera provides 360° video recording in superb image quality of 4K UHD with a sense of immersion. Featuring waterproof performance to a depth of 30 m without housing attached, as well as shock, dust- and cold-resistant capabilities, it realizes superior operability and mobility under diverse shooting conditions in outdoor sports and leisure scenes.

Featuring an all-new 153-point AF system and high-speed continuous shooting at approx. 12 fps* with full-time AF and AE, the D5 demonstrates superb subject acquisition in a variety of situations. A newly developed Nikon FX-format CMOS sensor and advanced EXPEED 5 image-processing engine contribute to achieving standard sensitivity up to ISO 102400 — the highest in Nikon’s history. This flagship model is designed to further expand shooting possibilities for all professional photographers.

* Assumes a shutter speed of 1/250 s or faster in Continuous H (continuous high) release mode.
Providing solutions to diverse problems from bioscience to industry.

Our instruments business offers products and effective business solutions in diverse fields from bioscience to industry.

In the microscope solutions business, following a collaboration agreement with Lonza of Switzerland, we started contract manufacturing business of cells, etc. for regenerative medicine with a new, wholly owned subsidiary Nikon CeLL innovation Co., Ltd. We will advance toward expedited clinical application of regenerative medicine in Japan. Nikon also supports medical researchers with our Inverted Routine/Research Microscopes. Designed to increase efficiency, they provide images with natural contrast and depth, even of thick specimens.

Sophisticated manufacturing processes, like those employed for electronic components, automobiles and aircraft, demand exhaustive quality control. To this end, our industrial metrology business offers a variety of products, including industrial microscopes, measuring instruments and non-destructive/contact inspection systems. Furthermore, in the field of construction and surveying, Nikon-Trimble Co., Ltd., a joint venture between Nikon and U.S.-based Trimble Navigation Ltd., delivers high-precision surveying solutions that boost productivity.
N-STORM, which employs Stochastic Optical Reconstruction Microscopy technology licensed from Harvard University, has increased resolution to more than 10 times that of conventional optical microscopes. N-STORM delivers rich information that enhances understanding of the structure of living cells and biological phenomena at molecular levels.

N-SIM (Nikon's Structured Illumination Microscopy), a combination of technology licensed by the University of California, San Francisco, and Nikon's optical technology, allows observation of the minute intracellular structures of live cells with a resolution of approx. 100 nm — about double that of conventional optical microscopes.

The XT H 450 enables inspection of large castings and high-density metal objects, such as turbine blades. Providing internal images with the world's highest level of resolution delivered by the powerful 450kV X-ray, the XT H 450 addresses increasing demand for more accurate industrial inspections.

The BioStation CT allows time-lapse observation of cells while they are being cultured in the stable environment of an incubator. This not only mitigates the burden placed on researchers, but simultaneously enables tracking observation of cells without inflicting stress on them.

As a non-contact 3D metrology system, the HN-C3030 offers the world’s most precise*, high-speed measuring in a compact body. The device quickly acquires various data of the target such as surface form, surface waviness, abrasion, deformation and subtle unevenness, that have been difficult to determine conventionally.

Total stations are surveying instruments used to measure distance and angle. The smallest and lightest in its class, the Nivo series is especially effective in dangerous places such as steep slopes and high-rise construction sites. These units’ curved, ergonomic design is a dramatic departure from traditional surveying instruments.

* Statement based on Nikon research as of October 22, 2014.
New contribution to the healthcare and medical field.

Building upon Nikon’s core competencies of opto-electronics and precision technologies, we are developing a new medical device business to answer unmet medical needs at each stage —  prevention, diagnosis, treatment and prognosis management. In April 2014, Nikon formed a business alliance with LSI Medience (previously Mitsubishi Chemical Medience Corporation), working toward development and commercialization of small-size Point of Care Testing (POCT) devices. Furthermore, in May 2015, we acquired Optos Plc, a leading company in the retinal diagnostic imaging equipment market, as a wholly owned subsidiary. This creates the opportunity to broaden our business base in the field of retina regenerative medicine.

With its wide field of view of 200°, the California captures an image covering more than 80% of the retinal area in non-mydriatic, non-contact photography. It allows easy detection of symptoms appearing in peripherals — that have previously been difficult to spot. Its compact, table-top body offers increased flexibility of installation.
Core technologies bear much fruit.

Since our founding, Nikon has applied our opto-electronics and precision technologies to meet many of society’s needs. Our efforts have borne much fruit: cameras, semiconductor lithography systems, microscopes, cutting-edge technologies involved in space development and many other products and systems vital for people’s lives and industry. We have been able to achieve all this because we have always looked at the future of people’s lives and society, developing new products and unique technologies that not only meet needs, but expand our business.

State-of-the-art Technologies for Space

Nikon’s Customized Products Business addresses advanced customer needs by capitalizing on our state-of-the-art technologies. For example, they are employed in the field of space exploration, including the Venus Climate Orbiter Akatsuki project, tasked to unravel the mysteries of the Venustian atmosphere. Nikon designed and manufactured four optical systems for Akatsuki to capture images of Venus. Also, we delivered two large-scale observation systems for the Subaru large-scale optical infrared telescope project, contributing to many results that will go down in history. In this way, Nikon’s technologies are helping to probe the uncharted territory of space.

Optics Based on Our Accumulated Technologies

Nikon started research on glass manufacturing in 1918, the year after our founding as Nippon Kogaku K.K. Today, we continue to produce high-quality optical glass and photomask substrates for FPD, in vertical integration — from the manufacture of optical materials to applying final processing. Technologies we have amassed by manufacturing synthetic silica glass and calcium fluoride (fluorite) used in semiconductor lithography systems are employed in components for lasers and other optics. We also provide analyzing and measuring services for optical materials and optics, contributing to quality control in different sectors.

Contribution to Advancing Robotic Technology

Encoders are employed as sensors in industrial robots and machine tools, measuring the quantum or angles of rotation. Our flagship Absolute Encoders adopt Nikon’s original M-sequence pattern to achieve smaller size and higher reliability. They are utilized for sophisticated measurement applications, along with our linear encoders, Digimicro digital length measuring system and high-precision rotary encoders. As incorporated in the joints of the humanoid robot pictured at left, Absolute Encoders contribute to the development of next-generation robots.

Optical Technology for Today’s Environment

At Nikon, we have been researching the eye and ophthalmic lenses for more than half a century, developing many groundbreaking products by applying our cutting-edge technology to vision. Nikon-Essilor Co., Ltd., a joint company with Essilor International, is in charge of ophthalmic lenses. One result of this research is fitting parameter optimization, which is a lens-customizing service that measures face contours, frame, the position of the eyes and glass lenses. We continue to develop advanced technologies to provide smoother, more natural vision.
Delivering Nikon’s values to the world: Nikon globally expands its comprehensive power.

Our technology, products and services contribute to everything from people’s everyday lives to space exploration. In order to supply our products where they are needed, we have established our production bases at strategic points, and have positioned our sales and service locations based on careful analysis of industrial and market characteristics, as well as cultures and lifestyles. By combining the comprehensive power of these groups and proposing business solutions, Nikon delivers our values to the whole world.
Global Network

Company Profile

Company Name: NIKON CORPORATION
Head Office: Shinagawa InterCity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290 Japan
Tel: +81-3-6433-3600
President: Kazuo Ushida
Representative Director: Kazuo Ushida
Established: July 25, 1917
Capital: ¥65,475 million (as of March 31, 2016)
Net Sales: ¥822,915 million (for the year ended March 31, 2016)
Number of Employees: 25,729 (as of March 31, 2016)
Plants: Oi, Yokohama, Sagamihara, Kumagaya, Mito and Yokosuka

Ratio of Net Sales by Industry Segment
(for the year ended March 31, 2016)

- Imaging Products 63.2%
- Medical 2.2%
- Instruments 9.4%
- Precision Equipment 22.2%
- Other 3.0%

Ratio of Net Sales by Region
(for the year ended March 31, 2016)

- Japan 14.2%
- United States 25.4%
- China 17.0%
- Europe 20.3%
- Other Areas 22.9%
- Other Areas 22.9%

¥822,915 million
¥822,915 million
We listen to our customers and the voices of societies all over the world.

Nikon’s product manufacturing process begins with us listening to people all over the world — people from different walks of life, people involved in different industries — so we can understand precisely what they want from us. We gather customers’ opinions in many different ways: sales, service and support activities, trade shows, promotional and other events, and via the Internet. To us, this information is invaluable. We are endeavoring to create new products and services that exceed customer expectations by aggregating and analyzing these opinions.

Supporting Professional Photographers
Nikon Professional Services (NPS) is an organization that supports full-time professional-photographer members by providing various on-site assistance including service depots operating at international events. NPS responds to the exacting demands of professional photographers while applying their valuable feedback for product development. The photo above shows the NPS team from Nikon U.K. Ltd. in action.

Participation in Trade Shows
We participate in many different kinds of trade shows around the world, using them as precious opportunities to explain our products to customers. The photo above shows Nikon Metrology NV’s booth at Control Germany*. Among the products we displayed were 3D metrology systems, 3D laser scanners, and X-ray/CT inspection systems.

* The leading international trade fair for quality assurance, held at the Stuttgart Exhibition Centre.
Product Planning by Nikon Direct
Nikon Direct* plans and sells products such as camera bags, accessories and photography clothing by analyzing customer feedback gathered via phone, e-mail and original marketing surveys. By creating unique products in response to customers’ tastes, Nikon Direct increases customer satisfaction.

*Nikon Imaging Japan Inc.

Speedy Maintenance System
Nikon Tec Corporation is in charge of the maintenance of Nikon's lithography systems in Japan. Most semiconductor and flat panel display production lines operate around the clock, so system failure significantly damages productivity. Field service engineers (FSE) provide prompt servicing to support the performance of our lithography systems, which have been called the most precise machines ever developed. Feedback from these engineers helps improve the reliability of our products.

Boosting Sales in Emerging Markets
To facilitate better contact with our customers in emerging economies, we proactively set up sales subsidiaries as well as showrooms and service centers. We are making efforts to serve new customers by establishing marketing systems and conveying the appeal of the full range of our products. The photos show a showroom operated by Nikon India Private Limited (left) and another for industrial equipment operated by PT Nikon Indonesia (below).
By mastering optics and precision technologies, we create a new future.

To strengthen our existing businesses and create new businesses, it is vital to continue basic R&D activities based on a long-term perspective. With our core technologies — opto-electronics and precision — as a foundation, Nikon is conducting R&D in wide-ranging areas of technologies, such as optics, precision measurement and manufacturing, image processing, materials, and software and systems. The Core Technology Division, that conducts these R&D activities, supports our businesses with research results and expertise. Each of our business units also engages in R&D activities to develop attractive products. Our R&D, ongoing since our founding, manifests itself in our technological prowess and forward-thinking products.

CARS Microscopy

When irradiating a laser beam (pump beam) onto a substance, the weak light called Stokes light is generated*, which has a longer wavelength than that of the pump beam. When shining both the pump and Stokes beams simultaneously, they resonate with the molecular vibration originating from a chemical bond, resulting in the generation of coherent anti-Stokes Raman scattering (CARS) light. Each kind of substance exhibits a different resonant frequency, so that if the wavelength of the pump beam is fixed, adjusting that of the Stokes beam to a certain molecular vibration enables its identification. CARS microscopy obtains the images that display the distribution of a particular chemical bond within a biological specimen by irradiating these two beams simultaneously, scanning the laser focus, and collecting the CARS light. Such microscopic images will aid the study of mechanisms of particular parts of cell organizations and help discover the causes of diseases. Nikon is developing CARS microscopy by applying our long-cultivated image-formation theories to the irradiation optical system and imaging optical systems, and employing the latest digital technologies for the image-processing systems.

* This phenomenon is referred to as Raman scattering.
Thin Film Transistor Fabrication Technology (Flexible electronics)

Thin film transistor fabrication technology of creating electronic circuits or elements on thin, flexible plastic substrates has the potential to revolutionize manufacturing of electronics materials and devices. At Nikon, we conduct R&D of such fabrication technology (flexible electronics). One of our achievements is speedy manufacturing of complex circuits by forming transistors of oxide and organic semiconductors on plastic substrates. By distributing carbon nanotubes (CNT) on plastic substrates, we also developed CNT transistors, which may be applied for driving circuits of liquid crystal displays.

Thermal Fluid Simulation

In semiconductor manufacturing, a thin layer of ultrapure water is inserted into a tiny space between the wafer and the projection lens in lithography systems to achieve high resolution. This is known as immersion lithography technology. The latest semiconductor lithography systems require extremely stringent control at the nanometer level. Even the exceedingly small temperature fluctuations in the water affect the accuracy of exposure. Thermal fluid simulation adapting analysis technology predicts and optimizes such temperature fluctuations of ultrapure water, and contributes to improvement of exposure accuracy. One of the aims of analysis technology application is to discern complicated phenomena which occur in product development, and to predict such phenomena with high accuracy. The currently established prediction technology is already utilized for various kinds of product development.

OPTIA, the Metrology System for Interchangeable Camera Lenses

The Optical Performance and Total Image Analyzer (OPTIA) is designed to automatically measure and evaluate the optical performance of interchangeable camera lenses. It was based upon wavefront aberration measurement technology that was originally developed for semiconductor lithography systems and has now been optimized for camera lenses. Unlike optical performance measurement categories such as resolution capability and the ability to create contrast which can be expressed numerically, the lens’ ability to create visual appeal does not have established evaluation criteria. At Nikon, we term all such kinds of visual performance as “lens characteristics.” Employing OPTIA, we study the relationship between these lens characteristics and optical performance. In addition, we can produce images that reflect the unique depiction qualities of each lens by using simulation software that was developed simultaneously with OPTIA. Taking advantage of such images allows us to more effectively control optical performance and efficiently develop high-quality lenses that produce attractive images.
The joy of turning trust into products.

Precise manufacturing is the thread that connects all Nikon products, from optical components and digital cameras to microscopes and lithography systems. We are working at all our locations around the world to offer high-quality products that meet the needs of society. In addition to introducing the latest manufacturing facilities and technologies, we are shortening manufacturing lead times and reducing costs by reviewing production processes and innovating procurement. In Japan, plants in Oi, Yokohama, Sagamihara, Kumagaya, Mito and Yokosuka, as well as Nikon group companies in other locations, are in charge of production. Our global production system includes overseas facilities such as Nikon (Thailand) Co., Ltd. and Nikon Imaging (China) Co., Ltd.

Highly Efficient Line Production

Nikon Imaging (China) Co., Ltd. (see photo at right) manufactures products such as compact digital cameras, Nikon 1 Advanced Camera with Interchangeable Lenses, and 1 NIKKOR interchangeable lenses. Nikon (Thailand) Co., Ltd., Nikon’s largest overseas production plant (see photo below), manufactures digital SLR cameras and NIKKOR lenses. At these plants, we use line production based on the pull system; for production of digital SLR cameras, processes from unit assembly to adjustment and inspection are designed to function linearly in an expansive plant. Fast, accurate work creates uniform products of superb quality. We are aggressively advancing efforts to improve each manufacturing process in order to realize further enhanced product quality, optimized work efficiency and shortened work hours.

![Highly Efficient Line Production](image-url)
Cell Production of Digital SLR Cameras
Sendai Nikon Corporation manufactures our flagship digital SLR cameras. Its cell production realizes higher quality and ensures the timely supply of products. Because each worker is responsible for multiple processes, each must have excellent techniques and uncompromised concentration. Such steady, dedicated effort yields the reliable, world-class products for which Nikon is known.

Advanced Processing by Nikon Master Craftspersons
We recognize certain employees as Nikon Master Craftspersons, exceptionally skilled people who take charge of manufacturing the parts of products that require extremely high precision and quality. In the photo at left, a Nikon Master Craftsperson is polishing lenses. Such traditional, sophisticated skills are indispensable when crafting cutting-edge products.

Manufacture of Synthetic Silica Glass
We use synthetic silica glass for the projection lenses in our semiconductor lithography systems. The glass is formed when oxygen, hydrogen and silicon compound gases react with one another at temperatures reaching 2,000°C (approx. 3,600°F). It takes about a month for us to grow the sediment from the reactions into an ingot that weighs about one ton. Nikon’s Sagamihara Plant produces high-quality synthetic silica glass to support the performance of projection lenses for semiconductor lithography systems.

Adjusting Microscope Objective Lenses
Kurobane Nikon Co., Ltd. produces objective lenses for microscopes. We enhance the optical precision of these lenses by fitting them before the objective lens is completed, then micro-adjusting the lens groups inside the lens barrel while actually looking into the microscope. Then we use a unique inspection system to conduct final aberration checks.

Production of FPD Lithography Systems
Flat panel displays are increasing in size as large-screen LCD TVs and digital signage become more popular. Nikon assembles, adjusts, and inspects FPD lithography systems that can handle extremely large glass plates. We manufacture and ship the stage, optical systems and illumination systems, etc., to our customers as separate units. We then assemble and adjust the components at the customer’s facilities.
Guided by our corporate philosophy, “Trustworthiness and Creativity,” the Nikon Group aims to contribute to the sustainable development of society. As part of such efforts, we established the Nikon CSR Charter, while addressing various issues such as the environment, human rights, and anti-corruption measures throughout our supply chains to show our support for the United Nations Global Compact. Following the launch of the United Nation’s Sustainable Development Goals in 2016, expectations for the private sector to play a greater role in addressing global social issues are increasing. The Nikon Group will continue to proceed with our corporate activities in a sincere manner while maintaining communication with stakeholders, and further enhance our products and services that will lead to solutions of social problems, by utilizing our opto-electronics and precision technologies. It is this process that will help us further contribute to achieving a sustainable society.
**CSR Promotion Organization**

Aiming to effectively promote CSR, the Nikon Group has established the CSR Committee, a decision-making body for all CSR activities chaired by the Chairman of the Board. In addition, there are two subordinate bodies — the Business Conduct Committee and Environmental Committee, helping CSR to spread and be well-absorbed across the group companies. In the Nikon Group, the ratio of overseas operations is larger than that in Japan, in terms of both net sales and employee numbers, therefore, it is quite important to develop CSR activities at group companies outside Japan. Considering regional characteristics, our three holding companies now have responsibilities for an overall promotional function of CSR activities. In addition, we have divided our global business areas into six regions — Japan, Greater China, Europe, Asia, the Americas, and Korea, and established a CSR Committee in each area for discussing CSR issues.

**Compliance (Corporate Ethics)**

The Nikon Group defines compliance as not only complying with laws and regulations but also conducting sound and fair business activities that are in line with corporate rules and social norms. We maintain the established Nikon Code of Conduct, a set of principles for all group companies in Japan and overseas that encourage each employee to become more aware of compliance and able to make the most appropriate judgment in any circumstances. The Nikon Anti-Bribery Guidelines have been formulated to step up our commitments and bolster the Nikon Anti-Bribery Policy of 2014. Regional holding companies took the lead in the development of these guidelines that reflect the actual situation in each region. In order for compliance to fully permeate across the group companies, facilitators at various departments and group companies are working with regional holding companies, conducting relevant activities well established in each locale.

**Risk Management**

To supervise risk management, the Nikon Group has created the Risk Management Committee. The Committee identifies risks that might critically impact corporate management, deliberates measures to reduce risks generally and determines in which order risks should be handled. The Nikon Group has also formulated a Business Continuity Plan (BCP). In addition, the Nikon Group takes various measures for information asset management under the instruction of the Information Security Division. We continue to strengthen our risk management system with a wider, holistic view of Nikon Group companies.

**Human Rights, Labor Environment and Diversity**

Our fundamental policy is to create an environment where every employee can fully leverage his or her abilities to produce effective results by treating all employees fairly and respecting diversity and human rights. In the year ended March 2015, the Nikon Group established “FUTURE IN FOCUS” as a global human resource measure to help carry out the Medium Term Management Plan “Next 100 — Transform to Grow.” In the year ended March 2016, we began applying this policy to the whole group, launching programs that promote training and effective management of human resources from both a global perspective and across regions and business units. We also held the next-generation leader training program again following its success last year, with selected employees from eight countries attending.

**CSR Procurement**

The Nikon Group procures materials from procurement partners in a sincere and fair manner based on the Nikon Basic Procurement Policy. The aim of this policy is to continue providing customers with products that optimally meet their needs, while also helping to create a more desirable society and global environment and realizing the sustainable development of our corporation throughout our supply chains. We have established the Nikon CSR Procurement Standards in order to facilitate the fulfillment of social responsibility, including the prevention of corruption while respecting human rights along the entire length of the supply chain. We also have established Nikon Green Procurement Standards for procuring environmentally friendly parts and materials. In recent years, the Nikon Group has been working, in cooperation with procurement partners, to solve issues of conflict minerals in Africa, as well as to comply with the United Kingdom Modern Slavery Act.
Contributing to the establishment of a sustainable society.

Following the Nikon Basic Environmental Management Policy, the Nikon Group is working toward building a sustainable society, emphasizing the realization of a low-carbon society, a resource-circulating society and a healthy and environmentally-safe society as our Long-term Environmental Vision. Our Medium-term Environmental Goals include reducing CO₂ emissions by 26% from the fiscal 2013 level across the entire supply chain by 2030, through implementing energy-saving measures, promoting LED lighting, introducing our modal shift initiative and strictly following the energy regulations of each country. Aiming to help realize a resource-circulating society, we will not only consider environmental consequences throughout products life cycle, but also promote the employment of environmentally friendly resources for all corporate activities, make efforts to reduce waste, and reuse resources. Finally, we are determined to contribute to the building of a healthy and environmentally-safe society by protecting the environment from hazardous chemical substances.

Glass Manufacturing Requiring Less Energy

Nikon has invented a new melting technology for optical glass production that requires less energy. By reducing heat loss in a melting furnace and cutting down the number of manufacturing processes, this method emits less CO₂ caused by energy use. The photo shows an optical glass production site.

Eco-friendly Products

Inverted Microscopes ECLIPSE Ts2 (left) and ECLIPSE Ts2R (right) have been developed for observing cell cultures, etc. in biological and medical research. Employing LED as the light source gives these microscopes the benefits of energy conservation, long battery life and minimized maintenance. They have successfully reduced electricity consumption while in use by approx. 70% compared to previous models.

Downsizing Packages

Nikon Packaging Assessment was established to reduce the environmental impact caused by packaging material. By implementing the rules as early as during package design phases, we are working to create lighter packages, that are easier to recycle and have less environmental impact when discarded, as well as increase the loading capacity of logistics. The photo above shows an example of packaging for a digital SLR camera (D3300), the volume of which was reduced by approx. 35% from the previous model (D3200).
Conserving Water Resources

Nikon Imaging (China) Co., Ltd. saves approx. 22,800 tons of water every year by reusing concentrated water discharged during processing of RO water (pure water with foreign contaminants removed through Reverse Osmosis).

Solar Powered LED Lighting

Nikon Imaging (China) Co., Ltd. replaced the exterior lighting for its premises utilizing LED lights with solar panels. The company is also intending to install LED lights in factory hallways, the transformer substation and compressor rooms, as part of increased efforts to save energy and reduce carbon dioxide emissions.

Solar Power Generation System

The Yokohama Plant has a solar power generation system installed on the walls of the building completed in April 2013. It generates approx. 26,000 kWh annually, while slashing carbon dioxide emissions by approx. 10 tons a year. At the Kumagaya Plant, a solar power generation system was launched under a joint research program with the New Energy and Industrial Technology Development Organization (NEDO). It has achieved an annual power generation of more than 100,000 kWh and reduced carbon dioxide emissions by about 50 tons a year.
Supporting the AKAYA Project in Japan

The AKAYA Project for biodiversity restoration is underway at Akaya Forest, a 10,000-hectare government-owned forested area extending into Gunma and Niigata Prefectures in central Japan. Nikon has supported this important project through the cooperation of the Nature Conservation Society of Japan since 2005. Many Nikon products are in use for research and observation: binoculars and Fieldscopes for monitoring birds of prey and cameras for recording purposes. Nikon also provides equipment for an endeavor that aims to enhance the habitat of golden eagles in Akaya, which commenced in September 2014. The plan is intended to restore the forest with rich biodiversity through long-term protection of golden eagles, endangered birds that are often referred to as the barometers of healthy forests. This is the first initiative of its kind in Japan.

Nikon Scholarship Programs in Thailand and Laos

Nikon implements the Nikon Shanti Scholarship, which supports students attending junior high schools, senior high schools and universities in Thailand. These programs were established in 2007 and have assisted approx. 1,500 students. In addition, in 2013, we started sending a framed picture of the scholarship students taken with family and friends as a gift. We hope this offers them a chance to appreciate the joy of photography — the arena in which Nikon excels, while encouraging them in their studies and lives. Also, we established the Nikon-EDF Japan Scholarship for Laos and Nikon-JICA Scholarship for Laos projects in 2014, under which we provide scholarships for approx. 100 junior high school students every year, mainly in Savannakhet Province where Nikon Lao Co., Ltd. is located, and approx. 40 college students at Savannakhet University. Nikon will continue to aid these programs, hoping to support the development of human resources that will play an important role in the future of each country while also cultivating friendship with Japan.

Assisting Reconstruction in Tohoku

The Nikon Group has continued to support recovery efforts following the 2011 Great East Japan Earthquake. Now in its fifth year, a total of 2,432 students from 42 schools and one organization took part in the Photo Book Project for Junior High School Students during the year ended March 2016. Students took photos, selected their favorites, and contributed them to a photo book along with captions expressing their feelings. Nikon meanwhile donated compact digital cameras and provided support through activities such as organizing photography classes at schools. We also continue to operate Nikon Plaza Sendai as a center for reconstruction efforts, while supporting employees who wish to volunteer.
Social Contribution and Cultural Activities

Nikon Museum

Opened in October 2015, the Nikon Museum showcases some 600 items from consumer products such as cameras and binoculars to industrial equipment including semiconductor lithography systems, displayed in its 600 m² space. The facility allows visitors to learn about the history of each business, as well as Nikon products and technologies, etc.

Nikon Salons

In 1968, we opened a photo gallery in Ginza called Nikon Salon. Today, Nikon Salons in Ginza, Shinjuku and Osaka display the works of professional and amateur photographers from around the world, chosen through a stringent selection process by an independent panel. Each year, Nikon Salon presents awards to outstanding photographers, including the Ina Nobuo Award, the Miki Jun Award and the Miki Jun Inspiration Award.

Nikon Chair of Imaging Science at the University of Tokyo

The Nikon Chair of Imaging Science was established in April 2012 as the successor to the Nikon Chair of Optical Engineering, which had operated at the University of Tokyo’s Institute of Industrial Science since November 2006 to develop Japan’s next generation of optical industry leaders. The Chair offers lessons in fundamentals such as geometric optics, wave optics, image-processing technology and practical lens design. It also increases opportunities for industrial-academic cooperation between promising optics researchers and engineers, furthering their ability to compete at a world-class level.

Nikon Photo Contest

The Nikon Photo Contest has become one of the world’s largest global photo contests since it was first held in 1969. It provides a great opportunity for photographers, both professionals and amateurs, to communicate and enrich photographic culture. Commemorating Nikon’s celebration of its 100th anniversary in 2017, we newly established the Nikon 100th Anniversary Award as well as the Next Generation Award to recognize young talent, looking ahead to the future of image culture.

NIKON PHOTO SINCE 1969 CONTEST

New logo designed by Neville Brody, the internationally renowned art director serving as Lead Judge of the Contest
Mastering optical and precision technologies.

Nikon's corporate history began in 1917 and the manufacture of optical glass started the next year. Since then, the two constants have always been our awareness of users' stringent demands and our uncompromising attitude toward manufacturing to continuously meet those demands. This spirit has uninterruptedly been handed down in Nikon.

- Nikon F, Nikon's first SLR camera, is marketed.

1917
- Three of Japan's leading optical manufacturers merge to form a comprehensive, fully integrated optical company known as Nippon Kogaku K.K.

1918
- Oi Dai-ichi Plant (now Oi Plant) is completed

1920
- MIKRON 4x, 6x ultra-small-prism binoculars are marketed

1921
- JOICO microscope is marketed

1925
- JOICO microscope is marketed

1930
- NIKKOR is adopted as the brand name for camera lenses

1932
- Nikon F, Nikon's first SLR camera, is marketed

1940
- With the end of World War II, production shifts to cameras, microscopes, binoculars, surveying instruments, measuring instruments and ophthalmic lenses, etc.

1945
- Pointal ophthalmic lens is marketed
- Nikon brand name is adopted for small-sized cameras

1946
- Tilting Level E and Transit G surveying instruments are marketed

1947
- Nikon Model I small-sized camera is marketed
- Model I profile projector is marketed

1950
- Nikon Optical Co., Inc. (now Nippon Kogaku (U.S.A.) Inc.) is established to export Nikon cameras to the U.S. and conduct technical services and market research

1952
- nikkor club is established to promote photography culture

1953
- Nikon Optical Co., Inc. (now Nippon Kogaku (U.S.A.) Inc.) is established to export Nikon cameras to the U.S. and conduct technical services and market research

1959
- Nikon F, Nikon’s first SLR camera, is marketed

1960
- Oi Plant’s Ofuna site (now Yokohama Plant) is built

1967
- Oi Plant’s Ofuna site (now Yokohama Plant) is built

1968
- Photo gallery Ginza Nikon Salon is opened

1969
- Nikon Europe N.V. (now Nikon Europe B.V.) is established in the Netherlands
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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</thead>
</table>
| 1970 | - Nikon Photomic FTN is mounted on Apollo 15  
|      | - Oi Plant’s Sagamihara site (now Sagamihara Plant) is built |
| 1971 | - Nikon Photomic FTN is mounted on Apollo 15  
|      | - Oi Plant’s Sagamihara site (now Sagamihara Plant) is built |
| 1980 | - Nikon F3 SLR camera is marketed  
|      | - NSR-1010G Step-and-Repeat System is marketed |
| 1981 | - Ehrenreich Photo-Optical Industries, Inc. is acquired in the U.S. and renamed Nikon Inc.  
|      | - Nikon Fieldscope is marketed |
| 1984 | - Kumagaya Plant is built |
| 1985 | - Total Station DTM-1 surveying instrument is marketed |
| 1986 | - NSR-L7501G large substrate exposure system is marketed |
| 1988 | - Nikon Photo Products Inc. (now Nikon Imaging Japan Inc.) is established  
|      | - Corporate name is changed to Nikon Corporation |
| 1990 | - Nikon (Thailand) Co., Ltd. is established  
|      | - Mito Plant is built |
| 1991 | - Nikon Instech Co., Ltd. is established |
| 1992 | - Nikon Singapore Pte. Ltd. is established |
| 1995 | - D1 digital SLR camera is marketed  
|      | - In-house company system is inaugurated |
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| 1999 | - D1 digital SLR camera is marketed  
|      | - In-house company system is inaugurated |
| 2000 | - Nikon-Essilor Co., Ltd., joint venture with Essilor International of France, is established |
| 2002 | - Nikon Imaging (China) Co., Ltd. is established |
| 2003 | - Nikon-Trimble Co., Ltd., a joint venture with Trimble Navigation Ltd. of the U.S., is established |
| 2004 | - Yokohama Plant’s Yokosuka Branch (now Yokosuka Plant) is built  
|      | - Nikon F6 SLR camera is marketed |
| 2005 | - Nikon Imaging (China) Sales Co., Ltd. begins operations |
| 2006 | - NSR-S609B ArF immersion scanner is marketed |
| 2007 | - FX-101S FPD Scanner is marketed |
| 2009 | - FX-101S FPD Scanner is marketed |
| 2010 | - Nikon 1 J1 and V1 advanced cameras with interchangeable lenses are marketed |
| 2011 | - D3S and D3X digital SLR cameras, and NIKKOR lenses, are used in the International Space Station (ISS) |
| 2012 | - Nikon Plaza Sendai is opened  
|      | - D4 digital SLR camera is marketed |
| 2013 | - Nikon Lao Co., Ltd. is established in Laos |
| 2014 | - Head office is relocated to Tokyo’s Shinagawa area (Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo) |
| 2015 | - Optos Plc became a wholly owned subsidiary of Nikon Corporation  
|      | - The Nikon Museum is opened |
| 2016 | - NSR-S631E ArF immersion scanner is marketed  
|      | - D5 digital SLR camera is marketed |
| 2016 | - FX-101S FPD Scanner is marketed |
| 2017 | - Nikon Imaging (China) Sales Co., Ltd. begins operations |
| 2018 | - FX-101S FPD Scanner is marketed |
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| 2020 | - FX-101S FPD Scanner is marketed |
| 2021 | - FX-101S FPD Scanner is marketed |
| 2022 | - FX-101S FPD Scanner is marketed |
| 2023 | - FX-101S FPD Scanner is marketed |
| 2024 | - FX-101S FPD Scanner is marketed |
| 2025 | - FX-101S FPD Scanner is marketed |
| 2026 | - FX-101S FPD Scanner is marketed |
| 2027 | - FX-101S FPD Scanner is marketed |
| 2028 | - FX-101S FPD Scanner is marketed |
| 2029 | - FX-101S FPD Scanner is marketed |
| 2030 | - FX-101S FPD Scanner is marketed |
Company Profile 2016

NIKON CORPORATION
Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290 Japan
www.nikon.com

This eco-friendly booklet was produced using FSC®-certified paper, non-VOC, vegetable-oil ink; and waterless printing technology.

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