NIDEK COMPANY PROFILE

THE ART OF EYE CARE
What NIDEK has been focusing on since its foundation
“invisible to visible”
(creating vision)

“visible to recognition”
(obtaining better recognition through vision)

“eye instruments”
(making excellent products for vision)

What we do best for human eyes is to provide the joy of vision through our scientific capabilities. NIDEK will continue to strive to provide this joy of vision to people all over the world.
Eye & Health Care

~ Offering satisfaction and joy ~
NIDEK aims to be a company to excite and impress our customers.

Our thoughts at the time of establishment

Mr. Hideo Ozawa, the founder and first president and CEO of NIDEK, was fascinated with the structure and function of the eye when he studied optics in the USA in 1957.

With his strong passion for “Contributing to the promotion of Ophthalmology by combining optics with electronics,” Mr. Hideo Ozawa gathered a group of engineers, and founded NIDEK in the summer of 1971.

Directions for the future

Since the 25th anniversary of our founding in 1996, NIDEK has expanded our business expertise from “Eye” to “Eye & Health Care”.

With our enthusiasm for providing a healthy and comfortable life through our acquired ocular technology, we are developing diagnostic devices for the prevention and early detection of disease and surgical devices to minimize the invasiveness of surgery. Furthermore, we are in the process of expanding our business field to encompass regenerative medicine and anti-aging health care products.

As a company with a mission, we will strive to become a leader in “Eye & Health Care”, and offer services to enhance the health and living comfort of people all over the world.
President and CEO
Motoki Ozawa
Examining Eyes, Diagnosing Eyes and Treatment of Eye Disease  
NIDEK offers all in ophthalmic care from every angle.  

NIDEK products for everyday life  
Do you recognize this balloon? If you have seen this balloon in an optical device, then you have used a NIDEK product. This means you have been examined by a leading device used for measuring refraction of eyes which can determine reference values for how much corrective power you will need in your glasses or contact lenses.
NIDEK 3 Business Fields
What we do is to provide the Joy of Vision through science.

NIDEK has been creating competitive products with our technological prowess by combining optical technology and electronic technology. At present, we are pursuing global business activities based on three fields, Ophthalmology & Optometry, Lens Edging and Coating. These activities encompass everything from development, manufacture, sales and customer service to quickly respond to our customer needs.

Lens Edging

Joy of Vision and Satisfaction of Wearing Glasses
We support the whole process in creating the optimum eyeglasses with NIDEK products ranging from visual acuity measurement to lens edging processing.

Visible Light and Invisible Light
Our coating technology freely counteracts these light waves with an invisible thin film. We perform production by large-scale vacuum deposition coating facilities under a clean environment.

NIDEK products for everyday life
Nowadays, eyeglasses are considered as a fashion item. NIDEK’s lens edgers used worldwide have the flexibility to process lenses for various frame shapes.

NIDEK technology for everyday life
NIDEK’s unique technology for anti-reflection film development is used in car navigation system, eyeglass and such. The film provides reduced light reflection and improved visibility.
Based on our long history of R&D, NIDEK has created a variety of products utilizing our advanced technology.

**Retina & Glaucoma**

The fundus of the eye is the only part of the human body where the blood vessels can be observed directly from outside of the body. NIDEK fundus diagnostic techniques such as high definition OCT and fundus photography take advantage of this to assist in early detection and prevention of diseases.

**Cornea & Cataract**

The NIDEK corneal diagnostic product lineup includes an optical biometer, specular microscope and refractive power / corneal analyzer. When used in combination, these products allow the practitioner to perform comprehensive evaluation of the corneal condition and optical quality of the eye and further advance evaluation for pre and post refractive / cataract surgery.
We develop devices to perform the various eye test. We support doctors in examining the health condition of patients’ eyes.

Visual acuity is corrected by irradiating a laser beam on the cornea and changing its curvature.

NIDEK has been engaged in the development of laser photocoagulators for treatment of retinopathy and glaucoma as well as ophthalmic surgical systems to treat cataracts.
Lens Edging

Promoting Comfortable Vision Life with Its Accurate Lens Edging Technology

High quality lenses and frames are not enough to make a comfortable pair of glasses. Accurate and reliable lens processing technologies are necessary to deliver a perfect fit of lenses and frames. NIDEK remains committed to developing innovative lens edgers in order to promote comfortable vision life all over the world.

Coating

Creating a Brand-new Sensitivity Value through Our Thin-film Coating

Our thin film coating technology enhances the performance of day-to-day advancements in electric displays and optical components. Combination of nano-level thin films allows transmission and reflection of specific light wavelengths according to customers’ various needs.

Hard Coating Technology

Based on our own hybrid hard coating material which takes advantage of the characteristics of organic and inorganic materials, we are expanding our new coating business.

- Hybrid hard coating material
- Hard coated film and sheet
**Lens Edger**

All NIDEK lens edgers are designed to exceed the expectations of our customers. From customers looking for the latest sport glasses to those seeking the minimalistic look of rimless eyewear, NIDEK lens edgers meet and exceed all of these diverse demands. NIDEK continually listens and responds to the needs of our customers and strives to be at the forefront of the ever-changing world of lens and frame design with our lens edging technology.

**Industrial Edger**

NIDEK industrial lab edging systems are extremely accurate, durable, robust, and adaptable for labs of all sizes. Various configurations are available to meet the needs of each specific lab.*

* a system dry edger, system edger, auto drilling unit and robotic handling unit.

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**Vacuum Deposition Technology**

Vacuum deposition is a method of film formation to control the transmittance and reflectance of light. In this method, a coating material is heated until vaporized and sublimated, and then its molecules are deposited onto a substrate in a vacuum.

**Transfer Tinting Technology**

In our original tinting technology, unlike conventional spectacle lens tinting which uses a dye solution, exclusive ink is printed onto transfer paper and then heated to be sublimated to the object. The dye is then cured by heating in an oven.

Our large dip coating machine is capable of coating up to max. 1000 x 300 mm size. Also, our spray coating machine is capable of molded parts.
Visual Prosthesis

“Invisible to Visible”
Development of Visual Prostheses is the dream and goal of NIDEK.

NIDEK has been conducting R&D on Visual Prostheses since 2001.
Our mission is to create a medical implant system that reconstructs vision by electrically stimulating the retinal neurons with multiple points of light that the brain of a blind person recognizes as images.

Social Contribution
For the future of the earth and its people

Community and Social Contributions
We sponsored Para-sports Sailing Association of Japan for the London Paralympic Games and donated our products to local elementary schools and Gamagori City Hospital. NIDEK employees contribute to the Japan Braille Library through donation every year. Moreover, we donated relief money to the Japan Red Cross Society for use in restoration from the Great East Japan Earthquake.

Donation of Laptop Computers to Junior High School in Cambodia
Laptop computers no longer used for business were donated to a local NPO called OASIS* which helps to build schools in Southeast Asia, mainly in Cambodia. The laptop computers provided by NIDEK are used in classrooms.

Support for Epidemiological Research and Medical Examination in Tanzania
As part of our international contribution, we supported the collaborative research and examination conducted by Kanazawa Medical University and Muhimbili University of Health and Allied Science in Tanzania, Africa, as well as provided medical equipment maintenance.

* NPO OASIS: OASIS is an NPO based in Gamagori, Japan. The objectives of the NPO OASIS are building and repairing schools, tree planting for environmental conservation donating medical supplies as well as brightening the lives of students in Japan and overseas with magic shows.
NIDEK’s Approach to the Artificial Retina System*4

NIDEK is developing an Artificial Retina System that electrically stimulates the retina. Our method of retinal stimulation is called suprachoroidal transretinal stimulation. This stimulation strategy has been developed in collaboration with a research group at Osaka University, which has been our R&D partner from the launch of this project. This original method gives top priority to safety and reliability.

A certain number of electrodes are arranged on the electrode array that stimulates the retina. The light pattern received from the eye is replicated in the brain by a number of electrodes simultaneously stimulating the corresponding spots in the retina.

The NEDO grant for the system is carried out as a joint project conducted under the direction of Osaka University.

Chronic clinical research*3 was performed on patients with retinis pigmentosa under the direction of Osaka University.

2010
Semichronic clinical research*2 was performed on patients with retinis pigmentosa under the direction of Osaka University.

2014 ~ 2015
Chronic clinical research*3 was performed on patients with retinis pigmentosa under the direction of Osaka University.

2016 ~
The system development is moving forward toward commercialization.

NIDEK continues its “Eye & Health Care” business globally in order to be a company that is always in touch with the needs of the times.

NIDEK has acquired the ISO 9001 international standard on quality assurance and the ISO 13485 international standard on quality management systems for medical devices. NIDEK is proud that our quality assurance activities gained the international recognitions that these international certifications attest to. We will continue to strive to enhance our product quality even further and deliver products which our customers can use with confidence.

For the Precious Earth Environment
NIDEK has acquired ISO 14001 certification of environmental management system for the head office and all domestic production bases. In response to this age of environmental awareness, we will continue our efforts to promote active contribution to the formation of a recycling-oriented society.

Eco-friendly Factories
In order to reduce emission of the greenhouse gas, CO2, we installed solar power generation panels on the roof of several of our facilities. The generated power is put to good use as part of the plant’s power supply.

Lectures on Ocular Health to Elementary and Junior High School Students
We provide enjoyable lectures about the human eye for elementary and junior high school students. We help students to increase their awareness of ocular health by introducing unique optical functions through fun learning quiz games.

Efforts in Quality Assurance Activities
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Solar panels on Osawa Plant
Global Network
From Gamagori to the world

Exporting NIDEK products to more than 80 countries around the world

NIDEK, headquartered in Gamagori, Japan, exports a variety of products to the world. In 1982, NIDEK established its first international office in the Silicon Valley in the USA, then moving on to France and Italy. Today, NIDEK has representative offices in China and the UAE to research the needs of markets, and opened subsidiaries in Brazil, China, and Singapore. NIDEK will continue to strive to expand our business operations globally.
NIDEK offers High-quality Products

Most NIDEK products are assembled one by one at our own plants in Gamagori instead of using an assembly-line system. Our business is conducted from start to finish, through production testing and shipping in the best of production environments, all under the watchful eye of the people in charge. Clean rooms are used for some parts of production as well as for IOLs and coating processes. By this environment, we are maintaining superior quality of NIDEK products.

Also, we accurately identify customer needs and respond to them by developing our own software for our products in order to continue to provide latest systems.

5 Plants in Gamagori, Domestic Sales and Service Offices in 13 Cities throughout Japan

NIDEK has domestic sales offices in 13 major Japanese cities from Sapporo to Fukuoka. NIDEK products are used by 10,000 ophthalmologists and 20,000 opticians in Japan. We provide excellent and speedy services to meet local needs.