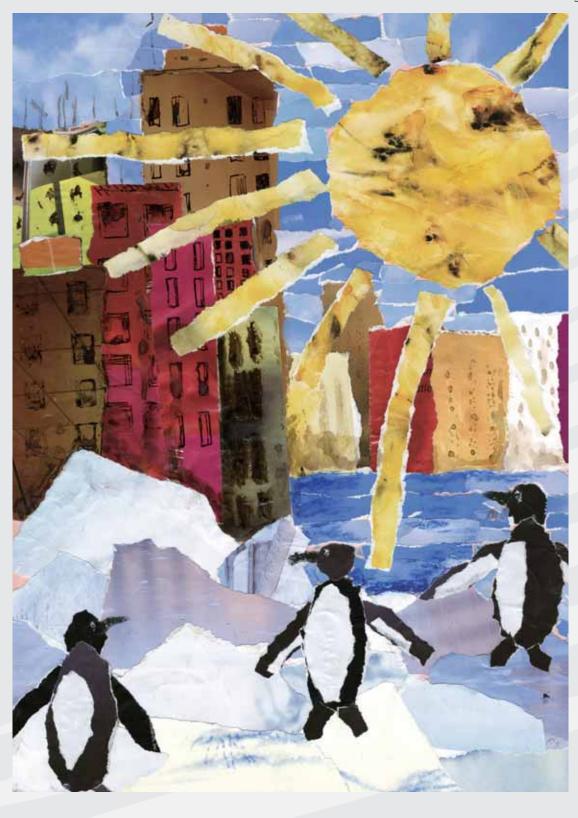


# Nikon CSR REPORT 2010

Digest



#### **Corporate Data**

Company Name NIKON CORPORATION

**Head Office** Shin-Yurakucho Bldg., 12-1, Yurakucho

1-chome, Chiyoda-ku, Tokyo 100-8331, Japan

Tel: +81-3-3214-5311

\* Moved the head office to present address in May 2010, in order to strengthen the links between the head office functions and the business functions and to increase the efficiency of business operations

Date of Establishment July 25, 1917

Capital ¥65,475 million (as of March 31, 2010)

**Net Sales** Consolidated: ¥785,498 million Non-Consolidated: ¥572,972 million

(for the year ended March 31, 2010)

No. of Employees Consolidated: 26,125

Non-Consolidated: 5,315 (as of March 31,

2010)

\* Employee figures do not include part-time employees, temporary

personnel or dispatched workers.
The consolidated figure does not include the employees of the two equity method affiliates or the directors of Nikon Corporation, although it includes the directors of Group companies. The non-consolidated figure does not include the directors of Nikon Corporation or the employees of Nikon Corporation who are

temporarily dispatched to Group companies.

#### **Group Companies (Consolidated)**

Region	No. of companies
Japanese Group companies	16
European Group companies (12 countries)	29
Asian/Oceanian Group companies (8 countries)	16
North American Group companies (2 countries)	9

<sup>\*</sup> Details of Group companies: http://www.nikon.com/about/info/group/

#### Major Businesses of the Nikon Group

Precision Equipment Business (Precision Equipment Company)

IC steppers and scanners LCD steppers and scanners

Imaging Products Business (Imaging Company)

Digital cameras Film cameras Interchangeable lenses Speedlights

Film scanners Photographic accessories Software

Instruments Business (Instruments Company)

Biological microscopes Industrial microscopes

Stereoscopic microscopes Measuring instruments

Semiconductor inspection equipment

Customized Products Business (Customized Products Division)

Customized optical equipment Space-related equipment Astronomy-related equipment Optical components

Glass Business (Glass Division)

Synthetic silica glass Calcium fluoride Photomask substrates for LCD

Encoder Business (Encoder Business Promotion Division)

Rotary encoders

Sport Optics Business (Nikon Vision Co., Ltd.)

Binoculars Monoculars Fieldscopes Digiscoping system

Fieldmicroscopes Laser rangefinders Loupes

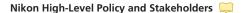
Ophthalmic Business (Nikon-Essilor Co., Ltd.)

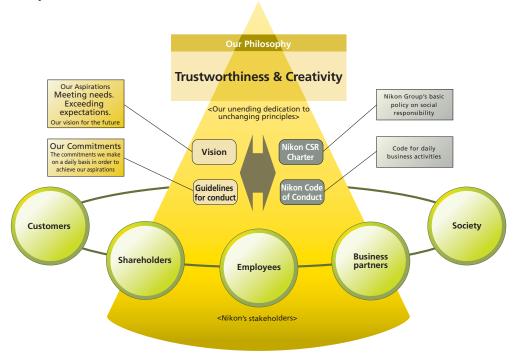
Ophthalmic lenses Hearing aids

Surveying Instruments Business (Nikon-Trimble Co., Ltd.)

Total stations GPS systems Construction lasers Theodolites

Levels Surveying CAD systems





# Sincerely Meeting the Needs of Society and Creating Value beyond Expectations

We started the previous fiscal year in a global economic recession, and in the face of the difficult business environment, the Nikon Group has been making a concerted effort to implement structural reforms and strengthen its business foundation. Although the economy seems to be generally recovering now in 2010, recent economic changes seem to have altered the values of individuals and society in a rapid manner. Reflecting these trends, the Nikon Group has resolved to devote itself to further improving the profitability of its core business. At the same time, we will provide people with new value in response to changes in society toward further the growth of the Group.

Although our business environment is changing rapidly, the Nikon Group will never change its CSR-oriented management policies.

The Nikon Group is committed to fulfilling its CSR by sincerely meeting the trust and expectations of customers and society at large and by constantly meeting new challenges to create value beyond people's expectations, thereby contributing to the sustainable development of society. In our CSR activities, we give priority to developing and providing a steady stream of useful and valuable products and services that are high in quality and safety. We do this by making use of the technologies and know-how that we have accumulated since our foundation. For the Nikon Group, CSR means implementing a process to achieve specific results in its quest for "Trustworthiness and Creativity," which are at the heart of its corporate philosophy.

The Nikon Group has been implementing a range of CSR-related measures. These include listing the theme of conducting business activities while conserving the environment and ensuring compliance as one of the priorities in our Medium Term Management Plan, and also setting the themes to be prioritized in our CSR activities.

Building a low-carbon society is one of the top challenges to be met for the sustainable development of global society. Recently, there have also been increasing concerns about biodiversity conservation. In light of these international trends, the Nikon Group will implement measures to improve the energy efficiency of our products throughout their lifecycles. We will also take a range of environmental measures to stop polluting the Earth as a fundamental requirement.

Conducting its business activities in compliance with laws, regulations, and other rules is one of the most important issues for the Nikon Group. We emphasize to our employees the importance of complying with social norms and acting in a sincere and honest manner.

We believe that diversity of employees will provide the driving force for our corporate activities. Based on this idea, we have been implementing measures mainly to encourage female employees to display more of their abilities and to employ more people with disabilities.

The Nikon Group is developing its business on a global scale. In 2007, we participated in the United Nations Global Compact and expressed our support for its 10 principles regarding human rights, labor standards, the environment, and anti-corruption. The participation of this initiative has helped the Group to demonstrate its focus on CSR clearly to the public and to raise awareness of and implement measures for CSR across its bases throughout the world.

In 2009, Nikon CSR Report 2008 was selected as a Notable COP by the UN Global Compact Office. As is manifested in this recent recognition, the Group's CSR activities have begun to be recognized externally too, but we are still not satisfied with them. We will make further contributions to the sustainable development of society by conducting CSR-oriented business activities based on our corporate philosophy "Trustworthiness and Creativity" and our corporate vision "Meeting needs. Exceeding expectations."

July 2010



Michio Kariya Representative Director, Chairman of the Board Nikon Corporation

Michio Kariya



Makoto Kimura Representative Director, President, Member of the Board Nikon Corporation

Maketo Ximera

### Nikon's CSR Activities

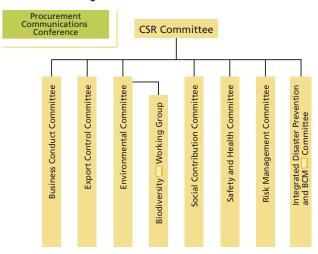
For details, please see page 17 of the PDF version of Nikon CSR REPORT 2010 online.

The Nikon Group has set up a CSR Committee and expert subcommittees that represent a cross-section of the organization. The CSR Committee developed a medium-term plan and is working to ensure more practical and effective CSR activities, including those to raise awareness among Group employees.

#### **CSR Promotion Organization**

Aiming at sincere and highly transparent management, we have established a CSR Committee, which supervises the activities of seven subordinate committees to promote CSR activities across the Nikon Group.

#### **CSR Promotion Organization**



#### **CSR Medium Term Plan**

Defining "CSR-oriented management" as one of its priority issues, the Nikon Group has established the CSR Medium Term Plan, which specifies the themes to be prioritized.

Priority targets set forth in the CSR Medium Term Plan (three-year plan from April 2009 to March 2012)

Fulfill CSR through business by conducting corporate activities while being committed to conserving the global environment and ensuring compliance

Expanding and promoting environment and ensuring compliance

Expanding and promoting environmental management

Promoting compliance activities globally

Implementing a risk management PDCA cycle

Promoting diversity activities

Expanding social contribution activities worldwide

Expanding CSR-oriented procurement

Promoting communication with stakeholders

Priority target to be added in the fiscal year ending March 31, 2011

#### Globally managing the issues related to human rights and the labor environment

In the three-year plan from April 2010 to March 2013, we have added this target to the existing seven priority targets and will implement measures to achieve the eight targets.

#### The Nikon Group's Basic Policy on Corporate Social Responsibility (CSR) Nikon CSR Charter

Established April 27, 2007 Revised December 1, 2009

#### 1. Sound corporate activities

The Nikon Group endeavors to comply with international regulations, related laws, and internal rules, exercise sound and fair corporate practices, earn the trust of stakeholders such as customers, shareholders, employees, business partners, and society. The Group will maintain constructive relationships with administrative bodies, remaining politically neutral and complying with laws, and will not engage in relationships with individuals or groups that threaten social order or safety.

#### 2. Provision of valuable goods and services for society

The Nikon Group will provide valuable products and services to society, endeavoring to increase the satisfaction and trust of our customers and contributing to the healthy development of society.

#### 3. Respect for human beings

The Nikon Group will respect diversity and individual human rights and provide a healthy and safe labor environment in which all persons receive fair treatment without discrimination. It will also oppose enforced labor and child labor and respect fundamental human rights as well as workers' rights.

#### 4. Protection of the natural environment

The Nikon Group will proactively engage in environmental efforts and work to protect the natural environment, as these are common issues for all of humankind.

#### 5. Responsibility to society as a corporate citizen

The Nikon Group will carry out corporate activities that take into account the cultures and practices of each country and region and proactively engage in activities that contribute to society as a good corporate citizen.

#### Transparent operating activities

The Nikon Group will communicate extensively with customers, shareholders, employees, business partners, and society and disclose business information in a timely and fair manner. It will also conduct reliable financial reporting through accurate accounting processes.

#### 7. Responsibility of top management

Top management and employees in managerial positions within each department must understand that they play an essential role in fulfilling the spirit of this Charter and thus, in addition to leading by example, they must ensure that this information is disseminated to everyone in the Group and all related parties. Management must always strive to understand the opinions of those both inside and outside of Nikon to develop a sound internal framework that ensures that the spirit of this Charter is upheld. If any incident occurs that violates this Charter, top management will demonstrate, internally and externally, their determination to solve the problem and strive to identify the cause and prevent its recurrence. Furthermore, they will uphold information disclosure and accountability obligations. They will clarify the authority and responsibility of each manager and employee and deal rigorously and objectively with all people involved in the matter, including top management.

## Activities Based on the CSR Medium Term Plan

Based on the CSR Medium Term Plan, the Nikon Group is committed to promoting CSR activities with a focus on its specific priority themes.

#### **Expanding and Promoting Environmental Management**

 For details, please see page 23 of the PDF version of Nikon CSR REPORT 2010 online.

We revised the Nikon Basic Environmental Management Policy to clearly show its basic approach to issues of climate change and biodiversity . Aiming to protect the natural environment, we continue to identify what impact our business activities have on the environment, including biodiversity, and enhance our resource recycling-oriented management and energy conservation efforts, cooperate with stakeholders . disseminate relevant information, and educate employees.

In addition, in order to ensure that the ongoing development of our business is compatible with the protection of the environment, we have been implementing measures to reduce CO<sub>2</sub> emissions. We will continue to include CO<sub>2</sub> emissions reductions as one of our management priorities and to make better use of natural energy together with the higher energy efficiency of our products as well as in all our business activities throughout their lifecycles. We will do this in line with international consensus and Japan's medium- to long-term targets, thereby contributing to creating a low-carbon society.



#### **Promoting Compliance Activities Globally**

The Nikon Group is implementing measures, including providing training courses, to make its employees aware of the importance of compliance to ensure that each individual employee is able to take appropriate action.

We conduct a compliance awareness survey targeting employees of Nikon Group companies in Japan, and feed back the individual results to relevant departments to help them identify problems and make improvements, thus facilitating their compliance promotion activities. In order to support compliance promotion efforts overseas, we have created an English website to help overseas Group companies to share information. Also, to improve confidentiality, we revised operating rules of Nikon's Code of Conduct Hotline, which was established to provide a consulting service for violations of the Nikon Code of Conduct, and once again promoted awareness of the hotline among employees. Outside Japan, almost all Group companies have similar hotlines in place.

We will continue to enhance activities to ensure compliance across the entire group in the year ending March 2011.

For details, please see page 38 of the PDF version of Nikon CSR REPORT 2010 online.

#### Compliance promotion system



#### Implementing a Risk Management PDCA Cycle

 For details, please see page 39 of the PDF version of Nikon CSR REPORT 2010 online.

We are managing risk comprehensively and implementing measures for the continuous advancement of the Nikon Group.

#### BCM System

The Nikon Group identifies risks that could impact the Group's management, formulates countermeasures against those risks, implements a rage of measures to minimize the damage that could be caused if a risk materializes, performs constant monitoring, and manages the risks by executing a PDCA cycle.

We have built BCM systems for our Precision Equipment and Imaging Products Businesses as well as the head office functions which support these core businesses, targeting not only our bases in Japan but also Group manufacturing companies in Thailand and China.

#### **Export controls**

Following the revision of the Foreign Exchange and Foreign Trade Act of Japan, we formulated a new set of operational guidelines to manage the provision of technical information, aiming to enhance our export control.

We provide e-learning and other sessions for our employees to have them become aware of and comply with the guidelines.

#### Measures against pandemic influenza

With the global outbreak of pandemic influenza (H1N1) in 2009, we

established an emergency preparedness headquarters to prevent the spread of infection among employees of the Nikon Group, and reviewed the action plans. Based on this experience, we will continue to prepare and implement measures against the spread of highly pathogenic influenza.



Asking visitors to check their temperature at Nikon (Thailand) CO., Ltd.

#### Information resources management

We are taking measures constantly to manage information appropriately, including establishment of the group rules, employee training for prevention of information leakages, and periodical audits. Our efforts made in the year ended March 31, 2010, include inspection at Group companies outside Japan, e-learning sessions, and enhancement of the system to prevent insider trading. We will continue to work to further enhance our system to comply with laws and maintain society's trust in the Nikon Group.

# Promoting Diversity Activities/Globally Managing the Issues Related to Human Rights and the Labor Environment

 For details, please see page 41 of the PDF version of Nikon CSR REPORT 2010 online.

As a basic principle, we respect the diversity and human rights of employees with different backgrounds, so that each of them can apply themselves to their work and produce results as a team. In the year ended March 31, 2010, we began building a global management system for issues related to human rights and the labor environment, which are attracting attention in society.

#### Support for women in the workplace

We have been employing and treating employees without gender discrimination. In reality, however, there are differences between the numbers of male and female employees and managers. Regarding this as a challenge to be tackled, in 2010 we began to set numerical targets and have been implementing measures to meet these targets.

We are also making efforts to create a corporate culture where female employees can develop and display more of their abilities, mainly by requiring female employees to attend "self-realization training" to raise their motivation and cooperating with five selected Group companies in Japan to support women in the workplace. In addition, we have started to operate a reentry (comeback) system for employees who left the company for childbirth, family care, job transfer of spouse, and for other reasons.

#### **Employment of the disabled**

Nikon Tsubasa Inc. an exceptional subsidiary of Nikon Corporation is engaged mainly in packaging and assembly as well as "paperless" (data digitization) service. In this way the Nikon Group is creating jobs for people with disabilities.

#### Number of employees by region (as of March 31, 2010)



- \*Regular employees of the 70 consolidated subsidiaries of Nikon Corporation, excluding those dispatched to nonconsolidated affiliates
- \*Employees dispatched to the 70 consolidated subsidiaries are counted as regular employees of the subsidiaries.

The Nikon Group is implementing social contribution activities that suit each country and region in the world.

# Cosponsoring the International Children's Painting Competition on the Environment

Nikon Corporation cosponsors the International Children's Painting Competition on the Environment jointly with the UN Environment Programme (UNEP), the Foundation for Global Peace and Environment, and Bayer AG to increase the environmental awareness of children across the world. There were about 2.4 million entries for the competition held on the theme "Climate Change: Our Challenge" in the year ended March 31, 2010.

#### Scholarship programs in Thailand

Nikon Corporation has the following two scholarship programs in Thailand: the Nikon Shanti Scholarship and the Nikon Chualongkorn

Scholarship, which are supporting 150 junior and senior high school students and 23 university students studying in Thailand, as well as three Thai students studying in Japan.



Scholarship award ceremony held in Bangkok (© Masao Seto)

#### Starting a social contribution program in the canteen

We began participating in the TABLE FOR TWO\* initiative at the canteen of the Ohi Plant of Nikon Corporation in February 2010. This provides each employee of the Nikon Group a good opportunity to reflect on their own health and the world's starving.

\* This program provides a system in which when an employee buys a healthy meal containing balanced nutrients in the canteen, 20 yen from the price will be donated and used to cover the cost of school meals for children in Africa

#### **Nikon Field Photographer Program**

The Nikon Group implemented the Nikon Field Photographer Program in the year ended March 2010. In this year, we decided to run it also at events other than football games

sponsored by us and actually did so at some baseball games cosponsored by us.



Program running at the AFC Champions League 2009 (Nagoya Grampus vs. Al Ittihad of Saudi Arabia)

#### **Expanding CSR-oriented Procurement**

The Nikon Group is committed to conducting sound business activities in cooperation with its business partners, and actively promoting CSR-oriented procurement with its procurement partners.

The Nikon Group provided educational seminars for members of the in-house CSR Procurement Conference and e-learning sessions for the procurement staff of Group companies in Japan, as well as held a briefing for Group manufacturing companies outside Japan. We are also planning to hold briefings targeting procurement partners of Group companies outside Japan.

We have been periodically conducting the questionnaire surveys targeting procurement partners in Japan. In the year ended March 2010, in order to promote our CSR-oriented procurement activities outside Japan, we showed our procurement policies to 30 overseas procurement partners of Group companies in Japan, sent questionnaires to these companies, and fed back the results. We will build a foundation for our CSR-oriented procurement activities outside Japan in order to realize further global CSR-oriented procurement across the entire supply chain .

 For details, please see page 47 of the PDF version of Nikon CSR REPORT 2010 online.



A briefing for CSR-oriented procurement staff in Thailand

#### Nikon Basic Procurement Policy:

http://www.nikon.com/about/info/procurement/policy.htm

#### **▶** Nikon Procurement Partners' CSR Guidelines:

http://www.nikon.com/about/info/procurement/csr.htm

#### Nikon Basic Green Procurement Policy:

http://www.nikon.com/about/info/procurement/pdf/g-procurement\_e.pdf

# **Business Activities and CSR**

For details, please see page 9 of the PDF version of Nikon CSR REPORT 2010 online

One of the basic commitments of the Nikon Group is its determination to contribute to the substantial development of society through its business activities.

Based on this idea, each in-house company is taking a variety of initiatives to meet expectations of customers and society at large.

### Precision Equipment Company



#### Information society and exposure systems

Electronic devices have made great progress in the short term. These devices have enabled us to lead more convenient and comfortable lives. Semiconductors (ICs) and LCD panels are indispensable components for these electronic devices.

The Precision Equipment Company develops and manufactures the equipment essential for the manufacture of ICs and LCD panels, thereby contributing greatly to the development of the information society, while engaging in the development of environmentally friendly products.

### Imaging Company



Compact digital camera COOLPIX S1000pj



D3S digital SLR camera

# Contributing to the development of the world of imaging

Images capture, communicate, and store in people's mind the "moments" of individual memories and of worldwide news reported throughout the globe. Nikon imaging products, which are made using long-accumulated Imaging Company's technologies, meet a range of expectations from customers and provide them with new value. We are also widely engaged in activities that contribute to the development of the culture of photography.

### Instruments Company



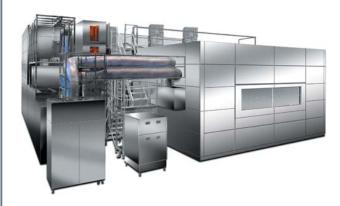
#### Supporting scientific advancement

In bioscience, live cell observation has now become a mainstream method. To satisfy such a frontier needs and support scientific advancement, the Instruments Company develops a wide range of microscopes and related systems. Furthermore, it contributes to the development of industrial fields with its precision technologies of measuring instruments and semiconductor inspection equipment.

### **Precision Equipment Company**

Productrelated activities

LCD Scanner FX-101S



#### **Environmentally friendly features**

- Energy efficiency
  - Larger in size but parallel in energy efficiency with the FX-85S for the eighth-generation plates (Calculated based on Nikon Corporation's own criteria for the area that can be exposed per unit of power)
- Lead-free solder
   Used on 100% of new circuit boards
- Ozone layer protection
   Use of new HFC refrigerant with zero ozone depletion potential (ODP) for temperature control and air conditioning chillers
- Reduction in the use of polyvinyl chloride (PVC)
   Reduced use of PVC cables

#### Development of an exposure system that meets both customers' expectations and environmental requirements

The FX-101S is an exposure system for tenth-generation glass plates which are a large three meters per side.

Past exposure systems were upsized to match the upsizing of the glass plates. Nonetheless, in developing a system for the tenth-generation glass plates, we thought that if we continued upsizing the equipment as in the past, the size would be over 1.6 times as large as the product for the eighth-generation glass plates and accordingly the weight would also increase. We therefore started developing a product that was as compact and light as possible.

As a result, we were able to develop the FX-101S, which needs an installation area that is almost the same size as for the machine for the eighth-generation glass plates (FX-85S), and we were also able to reduce the use of materials substantially.

The FX-101S has a productivity that is at least 50% higher than for the previous model. In addition to its high performance achieved though Nikon optical technologies, it displays the world's highest productivity in the mass production of 32 to 70-inch LCD panels. It can also be used efficiently for the mass production of LCD panels larger than 100 inches.

We will continue to develop products that meet both customers' needs and environmental requirements capitalizing on our long accumulated technologies.



#### ArF immersion scanner NSR-S620D



#### **Environmentally friendly features**

- Energy efficiency
  - Reduced consumption of electricity (energy) per wafer
- Lead-free solder
  - Drastic use of lead-free solder on new circuit boards
- Elimination of hexavalent chromium
  - Discontinuance of the use of hexavalent chromium in the surface treatment process
- Use of Eco-glass
- Drastic use of Eco-glass for optical systems
- Ozone laver protection
  - Use of new HFC refrigerant with zero ozone depletion potential (ODP) for temperature control and air conditioning chillers

#### <Product feature>

ArF immersion scanner equipped with a platform that provides both high precision and high throughput, which achieves double patterning by forming fine circuits through double exposure

### **Imaging Company**

Productrelated activities

D3S digital SLR camera (released in November 2009)



#### **Environmentally friendly features**

- Lead-free solder
  - Used on 100% of circuit boards for electronic parts
- Use of Eco-glass
- 100% use of Eco-glasss
- Measures for hazardous substances All the parts are compliant with the regulatory standards enforced in each country and region, including the RoHS Directive and the EuP Directive in Europe, the China RoHS, and the regulations on batteries enforced in South Korea.

# "Meeting needs. Exceeding expectations." through a digital SLR camera with super-high light sensitivity

We began developing the D3S immediately after the previous product of the D3 was released on the market. As the first step in the D3S's development, we collected opinions from customers. In the target specifications compiled from customers' requests, we found that our big challenge is to further improve the already high light sensitivity. Because the previous D3 had already reached the

unprecedented level of ISO  $\bigcirc$  6400 as standard, which was a huge leap for the digital camera industry, the challenge for us seemed enormous.

The key to further improving the light sensitivity was development of a completely new image sensor. First, we examined which part of the camera needed to be modified to improve the image quality, and improved the micro lens and the pixel part, thereby making it possible for the camera to accept and store more light with a higher S/N ratio and wider dynamic range. At the same time, we reduced noise levels, making special efforts to reduce noise in the dark part. We analyzed the noise characteristics of the built-in amplifier and optimized the characteristics to minimize the influence of noise on the image.

As a result of these steady improvements, we were finally able to develop the D3S with a light sensitivity level higher than expected for customers who want to "take photos without a speedlight even in the dark, when the subject is not clearly visible to the naked eye, because it is important to record them as they are as images." We achieved a higher light sensitivity with higher auto white balance and auto-focus precision and better operability also for moving images. We have thus developed a totally new digital SLR camera with super-high light sensitivity. For its environmental performance, we have achieved a high standard in line with the Nikon Green Procurement Standards and with the environmental standards imposed by each country in the world.

We will continue to provide unprecedented imaging methods by continuously taking challenges in the Nikon way: "Meeting needs. Exceeding expectations."

#### Contributing to the culture of photography

#### Nikon Photo Contest International 2008–2009

Nikon Photo Contest International, which was launched in 1969, is designed to provide an arena for interchange among photography enthusiasts from all over the world (professional and amateur alike) and to contribute to the culture of photography. In recent years the contest has been held biennially and the latest one is the thirty-second. Works were collected on the theme "At the heart of the image," which is the Imaging Company's own brand statement.



Now's your chance to move the world.
With the stories unfolding around you.
With the moments that stir your passions.
Express the experiences and visions that inspire you.



### **Instruments Company**

Improving physical distribution

Modal shift

# Reducing the environmental impact of transportation through modal shift

One of the priority activities conducted by the Instruments Company to reduce its environmental impact is environmentally friendly transportation. To this end, we have been actively implementing measures that include simplifying packaging and reusing packaging materials, while fostering modal shift.

Modal shift means a shift to a transportation method that is more environmentally friendly. Railway transportation is said to have the lowest environmental impact, because per-unit CO<sub>2</sub> emissions from railway transportation is only about one-seventh of those from transportation by truck. We are therefore encouraging modal shift from transportation by truck to the railways, targeting transportation from the container stations nearest to our distribution centers to the container stations nearest to each of our customers, thereby reducing emissions of CO<sub>2</sub>, which



is said to be a contributor to global warming. In addition, modal shift is expected to help reduce energy consumption, mitigate traffic congestion, and bring various other benefits.

We can transport our products by railway only when we meet certain conditions for the delivery areas, delivery dates, and the transportation volume, and we mainly utilize this method of transportation for the bulk shipment of microscopes. We currently transport our products by railroad once or twice on average per month, and would like to continue working on in order to increase this.

# (

## Group Company (Hikari Glass Co., Ltd.)

Plantrelated activities

Zero emissions

# Improving the recycling rate to achieve zero emissions

Optical glass materials are generally processed at high temperatures exceeding 1,000°C. The process generates a lot of waste that is sent to landfill, including heat-resistant substances that were melted at high temperatures, optical glass to be disposed of because of quality problems, and sludge from the glass polishing process. In order to solve this difficulty with waste, Hikari Glass began an zero emissions activity in 2005, when the company released about 640 tons of waste per year, of which only about 80 tons were recycled (the recycling rate: about 12%). For the zero emissions activity, a partnership with a company that recycles target wastes is important. For example, our waste glass used to be sent to landfill; however, as a result of repeated analysis and experiment jointly with the

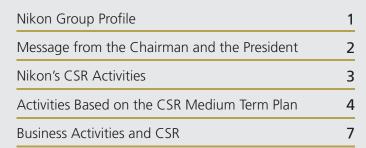
recycling company, we found that some of our waste glass could be recycled. After careful investigation, we commissioned the recycling to the company. At present we commission the company to recycle waste brick and diatomite in addition to waste glass, resulting in the more-than-doubled recycling rate.

There is still room to expand our recycling targets. We would like to keep improving to meet the challenge of zero emissions in cooperation with employees working at the manufacturing plant.



Product made from recycled waste glass and brick

#### **CONTENTS**





#### Information disclosure media for CSR reporting

To report the Nikon Group's CSR activities in the fiscal year ended March 31, 2010, we have published a PDF version of Nikon CSR REPORT 2010 online and a printed digest of the report (this report).

Moreover, we have created a separate collection of data in PDF format that details our environmental data and includes a glossary of terms. (Terms used in this report that are explained in the glossary are marked with the following symbol: [\$\sigma\$].)

Please also access our website, where we post a range of information in addition to the information provided in this report:

http://www.nikon.com/about/csr/



Printed digest of Nikon CSR REPORT 2010 (this report)



Full text as in PDF format

Collection of data in the PDF (environmental data and a glossary of terms)

Nikon website



#### ■Pictures on the front cover

Painted by Loanna Liubenova (13 years old, the Republic of Bulgaria) These are pictures that won prizes at the International Children's Painting Competition on the Environment. For details, please visit the following website:

http://www.nikon.com/about/csr/society/earth/icpc/



#### NIKON CORPORATION

Shin-Yurakucho Bldg., 12-1 Yurakucho 1-chome, Chiyoda-ku, Tokyo 100-8331, Japan www.nikon.com/

Published: September 2010



Nikon Corporation participates in the Challenge 25 Campaign

Nikon Corporation participates in the Challenge 25 Campaign which is a national campaign to prevent global warming.



Kurumin:
We have obtained the Next-Generation
Certification Mark (informally called
"Kurumin"), which is given to companies
that introduce measures based on the Act
on Advancement of Measures to Support
Raising Next-Generation Children.



