

**Making
Ideas
Count**

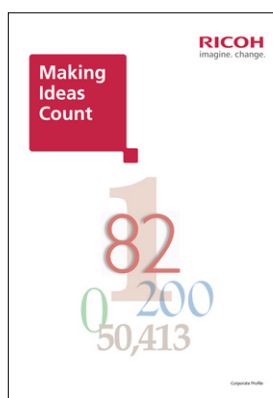
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200
50,413

Corporate Profile

The Ricoh Group provides an array of image processing equipment and other products and services in keeping with its customer-centric focus on creating value. Our lineup includes digital multifunction printers (MFPs), printers, laser printers, facsimile machines, production printers and systems, projection systems, digital duplicators, and other equipment and related consumables, services, and software. We also supply cloud services and network appliances, as well as digital cameras, thermal media, PC unit products, and semiconductor devices.

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About the Cover

Numbers on the cover highlight several of Ricoh's key achievements in its drive to deliver new value for its customers, notably that it:

- Was No. 1 in the global A3 laser MFP (including single function copiers)* market in 2017 in terms of shipments
- Operates in around 200 countries and regions worldwide (as of March 31, 2018)
- Has acquired 50,413 patents worldwide (as of March 31, 2018)
- Seeks to reduce greenhouse gas emissions across its entire value chain to zero (by 2050)

Ricoh is marking its 82nd anniversary in 2018, and remains committed to providing new value to its customers.

*Source: IDC's Worldwide Quarterly Hardcopy Peripherals Tracker, 2018 Q1

The RICOH Way

Creating new value and business growth while working towards a sustainable society

The RICOH Way constitutes the basis of all corporate activities of the Ricoh Group. It is comprised of the Founding Principles (“Love Your Neighbor, Love Your Country, Love Your Work”—or The Spirit of Three Loves) and the Mission, Vision, and

Values stated below. Under our Mission Statement, “we are committed to providing excellence to improve the quality of living and to drive sustainability.”

The RICOH Way

Founding Principles

The Spirit of Three Loves

Love your neighbor, Love your country, Love your work
—Kiyoshi Ichimura, founder

Mission, Vision, and Values

Mission Statement

At the Ricoh Group, we are committed to providing excellence to improve the quality of living and to drive sustainability.

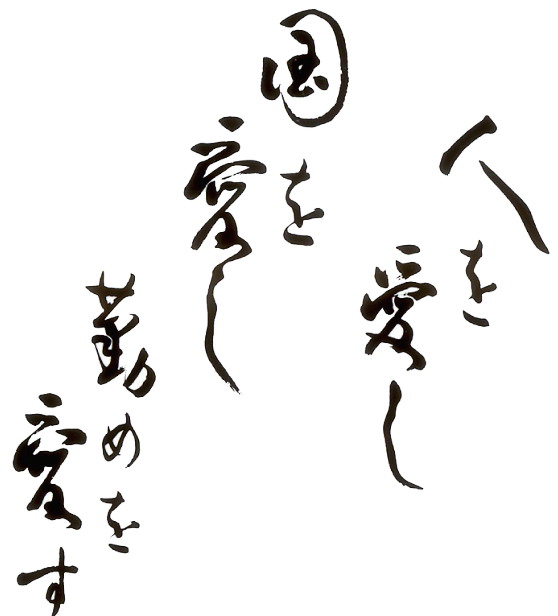
Vision Statement

To be the most trusted brand with irresistible appeal in the global market.

Values Statement

To be one global company, we must care about people, our profession, our society, and our planet. We must dedicate our winning spirit, innovation and teamwork to sharpen our customer-centric focus, and we also must commit to the highest standards of ethics and integrity.

Please visit the following website for a detailed explanation of our Mission, Vision, and Values: <http://www.ricoh.com/about/commitment/philosophy/>



Ricoh founder Kiyoshi Ichimura formulated these principles in 1946. They inform how we do business, encouraging us to constantly improve and contribute to the wellbeing of all stakeholders. The principles embody Mr. Ichimura's dedication by championing mutual respect, contributing to society by cherishing the planet, and encouraging our people to find meaning in work and passionately take on new challenges.

Relentlessly Progressing Towards Tomorrow

EMPOWERING DIGITAL WORKPLACES



We formulated a value proposition called EMPOWERING DIGITAL WORKPLACES, which underpins our drive to improve workplaces by using innovative technologies and services that enable individuals to work smarter. EMPOWERING is all about addressing the uniqueness of teams and individuals in keeping with our corporate philosophy and enduring commitment to putting customers first. WORKPLACES are diverse, encompassing offices and wherever people work. Our DIGITAL technology brings everything together. We will continue to leverage services and solutions for imaging and other systems and our technological edge to deliver exceptional customer value and champion social sustainability everywhere.

Message from the President

Creating value beyond customer expectations

The Ricoh Group has consistently provided innovative products and services since its inception in 1936. Today, we are expanding our reach beyond the traditional office, as our customers are working in new digital workplaces.

Ricoh is empowering digital workplaces by using advanced technologies and services that enable individuals to work smarter, thereby delivering true customer value. We will also expand our reach to deliver new value for society.

All of our employees draw on The RICOH Way and the Spirit of Three Loves, the founding principle of Kiyoshi Ichimura, which underpins our corporate activities. Under The RICOH Way, our mission is to provide excellence to improve the quality of living and to drive sustainability. Our vision is to be the most trusted brand with irresistible appeal in the global market.

We are leveraging the collective talents of our people in keeping with our corporate tagline of “imagine. change.” so we can imagine the future and change what we do today. We are swiftly and dynamically innovating to keep ahead in a rapidly changing world. We will continue striving to satisfy our customers, creating unique value beyond their expectations.



Yoshinori Yamashita

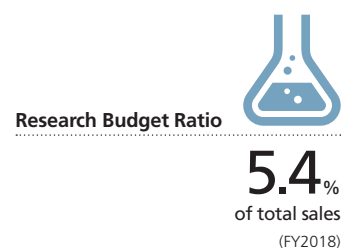
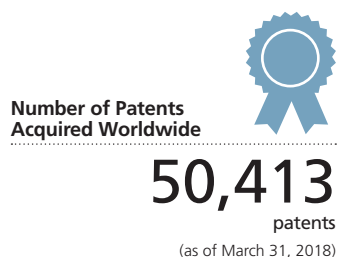
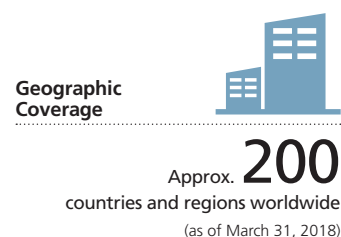
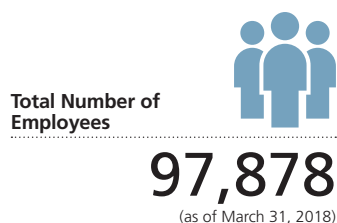
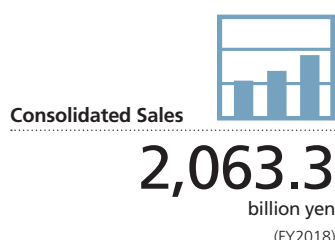
President and Chief Executive Officer

About the Ricoh Group

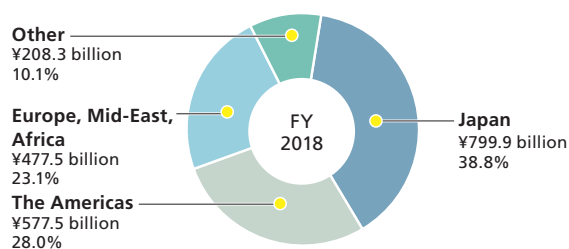
Delivering outstanding products and services worldwide

The Ricoh Group has business operations in approximately 200 countries and regions of the world. Our portfolio ranges from products designed to help people interact with information—including office imaging equipment (MFPs, printers, etc.), production printers, supplies, digital cameras and industrial products such as thermal-based media, semiconductors and

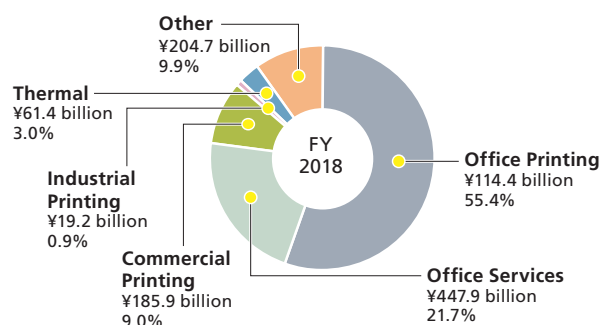
factory automation cameras—to services and solutions such as Managed Document Services and IT solutions. In addition to technology, the Ricoh Group is known for its customer-centric approach. As a responsible global citizen, we are also working proactively to build a sustainable society through our business activities.



■ Sales by Geographic Area



■ Sales by Category



Spotlighting Ricoh's Service Solutions

Anticipating change to help boost customer productivity

Many organizations operate globally and share a lot of information digitally, so they must network their equipment to survive and prosper. Ricoh can accommodate changing workstyles with products and solutions that can deliver complete value packages for customer business processes. We can greatly enhance the productivity of our customers

by optimizing office equipment worldwide, offering complete administrative support for networked office environments, slashing operating costs, and lowering environmental impact. The following case studies highlight ways in which we have served the Miami Marlins and Vodafone.



Managed Document Services

Maximizing efficiencies by addressing the management of print and electronic information.

Visit the following site for details.
<http://services.ricoh.com/services/managed-document-services/>



Production Printing Services

Providing the printing and communications support organizations need to meet even their most ambitious business goals.

Visit the following site for details.
<http://services.ricoh.com/services/production-printing-services/>



Communication Services

Making it possible to collaborate and share with anyone, anywhere, anytime with the best ways to communicate and engage.

Visit the following site for details.
<http://services.ricoh.com/services/communication-services/>



IT Infrastructure Services

Protecting organizations from security threats and keeping businesses up and running online.

Visit the following site for details.
<http://services.ricoh.com/services/it-infrastructure-services/>



Application Services

Enhancing business performance through a best fit solution that integrates within existing systems.

Visit the following site for details.
<http://services.ricoh.com/services/application-services/>



Business Process Services

Helping businesses to stay a step ahead of the market by making them more agile through optimized processes.

Visit the following site for details.
<http://services.ricoh.com/services/business-process-services/>



Workplace Services

Helping workplaces to function efficiently by optimizing the use of space and deploying smarter technology.

Visit the following site for details.
<http://services.ricoh.com/services/workplace-services/>



Sustainability Management Services

Empowering businesses to realize the significant benefits for themselves and the planet of going green.

Visit the following site for details.
<http://services.ricoh.com/services/sustainability-management-services/>



Case Study

Providing advanced document solutions to the Miami Marlins for its state-of-the-art ballpark

Challenges

For the Miami Marlins, it was a dream come true to open their own ballpark. Players and fans could finally experience home games at a facility designed for baseball, and staff could centralize major operations under one roof.

David Enriquez, Marlins' senior director of information technology, was ecstatic about the future—but he dreaded the process of getting there. "We immediately recognized that we would be easily tripling our document workload at the new park," he says. To manage this towering workload, Mr. Enriquez had to find a better way to get the work done.

The Marlins' accounts payable system was a convoluted, hands-on process coordinating multiple offices and dozens of people. Getting approvals required mailing paperwork back and forth, which was a huge drain on time and labor.

The organization also relied heavily on faxing for a number of critical documents, including player contracts, and badly needed a system its staffers could understand and rely on.

Overall, Mr. Enriquez had three goals for his team's transition: make operations as paperless as possible, make information more accessible throughout the organization, and get it all done in three months.

Solutions

For accounts payable, Ricoh USA, Inc. (RUSA), designed and implemented a simple system in which Marlins staff email invoices to a designated address. The system then automatically sorts the invoices and routes each one to the appropriate

office—no fuss, no paper cuts, no long and tedious hours.

To handle the Marlins' fax needs, Ricoh developed a system with which the Marlins' 250 users can receive and send faxes via their personal computers, virtual desktop infrastructure stations, or any one of 15 Ricoh MFPs installed throughout the new facility. "Received faxes come to the user in a mailbox, just like email," Enriquez says. "It's seamless."

RUSA augmented the Marlins' 15 shared MFPs by providing 35 additional individual printers, leveraging solutions to monitor print output and keep costs as low as possible.

Results

By the time the Marlins took the field at their new ballpark, all major solutions were installed and all relevant personnel were trained and comfortable in preparation for the three-month deadline.

Ricoh's solutions are delivering huge efficiencies. They are reducing the time and costs that used to be required to process paperwork.

For Mr. Enriquez, the benefits run even deeper. He says that, "Having Ricoh as a partner frees me to focus on our core business." The accounts payable system is especially smooth. "Now, rather than a costly paper-based approach that could take up to two weeks to complete, we have an electronic authorization process that can be completed in no more than forty-eight hours and without any mailing costs," he says.

Overall, it is this committed and collaborative approach that he most appreciates about his partnership with Ricoh. "The Ricoh team has been extremely flexible and played a critical role in helping us achieve the goals we set," Mr. Enriquez concludes. In other words: bottom of the ninth, bases loaded, the Marlins needed a miracle...and Ricoh hit it out of the park.



About the Miami Marlins

This Florida-based Major League Baseball team was founded in 1991 and took just five years to win its first World Series.



Print solution for Vodafone delivers real value while reducing carbon emissions and costs

Challenges

Vodafone Group PLC launched its “Less Paper Office” initiative as part of a drive to reduce the environmental impact of its office print environment by optimizing its equipment and cutting output volumes. The company had a mixed landscape of single and multifunctional printers, faxes, scanners and copiers. There was a low employee to device ratio and little control was exercised over print output.

Vodafone issued a detailed request for a proposal that asked potential suppliers to explain how they would support its Less Paper Office initiative through the provision of a managed print service. The specific requirements included reductions in carbon emissions, paper consumption, consumables and cost.

Solutions

To gain a thorough understanding of Vodafone's regional requirements, Ricoh helped Vodafone conduct site-level print audits. The audits, which included detailed environmental metrics, allowed Ricoh to scope a standardized managed service tailored according to local needs.

Legacy devices—single and multifunctional printers, faxes, scanners and copiers—were replaced with an optimized fleet of energy-efficient multifunctional products. The new devices provide the means to print, copy, scan and share documents in color. The use of more versatile technology and intelligent software dramatically improved the user to device ratio.

Rather than print to a specific device, users can release work from any convenient MFP by simply presenting their employee ID card at the card reader, or use their near field communication-enabled mobile phone for authentication.

Also provided is cloud printing, which enables guests to use PIN codes to print in Vodafone offices from any mobile device. The system improves mobility and, with work collected on release, enhances security. Any work that is not released is automatically purged, reducing waste.

Ricoh's integrated print management software, Streamline NX, enforces sustainable print rules. Most output is printed double-sided in black-and-white, to reduce paper consumption and minimize print costs. Ricoh can use its @Remote service utility to monitor individual machine performance in real time, enabling its dedicated on-site service technicians to respond quickly and effectively to any technical issues.

Results

Dave Hendriks, principal global manager for Green IT at Vodafone, says that, “Ricoh's account team showed an excellent understanding of Vodafone's global requirements. Ricoh's office print solution is delivering real value by improving the quality, effectiveness and user experience of print services whilst reducing carbon emission and cost. It helps us in realizing our carbon emission commitments and supports us in moving our IT organization from good to great.”

Ricoh's solution supports Vodafone's flexible work strategy. Employees can access the same state-of-the-art technology from any location.

Global rationalization and standardization have increased the employee to device ratio by 300% (from an average 20:1 in the past to 60:1), have reduced paper consumption by up to 75% in some regions, and have led to an average 50% reduction of annual office print cost per user. Additionally Vodafone is reducing its carbon dioxide footprint by almost 3 million kilograms annually.



About Vodafone

Vodafone Group PLC is one of the world's largest mobile communication companies with more than 407 million customers, 86,000 employees and operations spanning 30 countries and 5 continents. The company is committed to sustainable business practices, taking active measures to reduce carbon emissions and publically reporting progress.

Delivering an array of productivity-enhancing solutions

Ricoh constantly seeks to deliver new value to accommodate changing workstyles by offering an array of such imaging equipment as MFPs and printers and other hardware. Underpinning these offerings are complete solutions that range from supplying software and consumables to constructing and supporting information technology environments, managing networks, and providing maintenance services and user support. We manufacture and market thermal media, optical equipment, semiconductors, electrical components, and measuring equipment. We also supply digital cameras and offer financial and logistics services through subsidiaries.

MFPs

RICOH MP C6004

Ricoh engineered this MFP to work the way its users do, empowering them to share information more efficiently. The Smart Operation Panel is as intuitively easy to control as a tablet or smartphone. It simplifies functions for specific tasks and situations and makes it possible to choose from an array of

applications. This model can also connect with other equipment to share data, minimize paper usage, and foster high-value-added creativity. A motion detector and proprietary technology for silent operation also contribute to a stress-free office environment.



RICOH MP 305+ SPF

This desktide machine combines copying, printing, scanning, faxing in a compact footprint. It also delivers high productivity and remains extremely quiet while operating. Advanced security

functions, energy efficiency, and outstanding productivity make this model the ideal A3 monochrome solution for both small as well as medium-sized offices that look to conserve valuable space .

1st

Share of A3 laser MFP market

(including single function copiers, in 2017 in terms of shipments)

This was the fourth consecutive year in which Ricoh secured the top spot in this category.

Source: IDC's Worldwide Quarterly Hardcopy Peripherals Tracker, 2018 Q1

A3 Laser, MFP/SFDC

A3 Speed Range less than 91ppm





GELJET Printers

RICOH SG 3120B SF

This innovative battery-powered color model gives ultimate location freedom for today's ultra-mobile world. A wireless, all in one, multifunction printer, it allows users to print, copy, scan, and fax from anywhere. Battery life lasts for up

to 500 copies or 1,000 prints. Output speed is a convenient 29 A4 color prints or copies a minute. GELJET print technology dries instantly to allow duplex output on both sides of a sheet, saving paper and cutting costs.

Interactive Whiteboards

RICOH Interactive Whiteboard D6500

This 65-inch flat panel whiteboard shares content from Windows and Macintosh PCs, tablets, smartphones, and other devices. People in different locations around the world can exchange and view information in real time as if they were in the same room.

As well as greatly enhancing efficiency and productivity, this model provides a range of features, including those for encrypting saved files, restricting email addresses, and generating meeting access codes.



Projectors

RICOH PJ WX4152N



This ultra-short-throw projector incorporates Ricoh's proprietary free-form surface mirror and can deliver 48-inch coverage from as near as 11.7 centimeters to a

screen. This model is also highly portable, weighing around 3.0 kilograms, and can be set up in the tightest locations.

Unified Communication Services

RICOH Unified Communication System P3500

This dedicated portable videoconferencing and Web conferencing system weighs just 1.6 kilogram, and is ideal for casual or regular meetings. The built-in 125-degree camera can capture all elements of the surroundings. The P3500 can be connected to external

cameras or speakers, thereby accommodating meetings with many participants. It can be linked with the teleconferencing setups of other manufacturers, as well as with laptop PCs and smart devices for simple, secure communication.



Services

RICOH Multilingual Interpretation Service

This service links users to interpreters of seven languages through a special app on any day of the year*. The app is easy to read and use, and delivers native-quality interpreting. Users can get support through a special call center. This setup delivers outstanding service quality and is also highly secure.

*Services for five languages are available at any time of day. Those for Thai and Russian are available Monday through Friday from 9:00 a.m. through 6:00 p.m., local time.



RICOH Smart Presenter

This tablet application for paperless meetings and presentations extends its capabilities with RICOH Conference Center server software so it can handle larger meetings. The application also supports iPad and iPhone* devices to enhance the effectiveness of presentations.

*iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

Production Printing



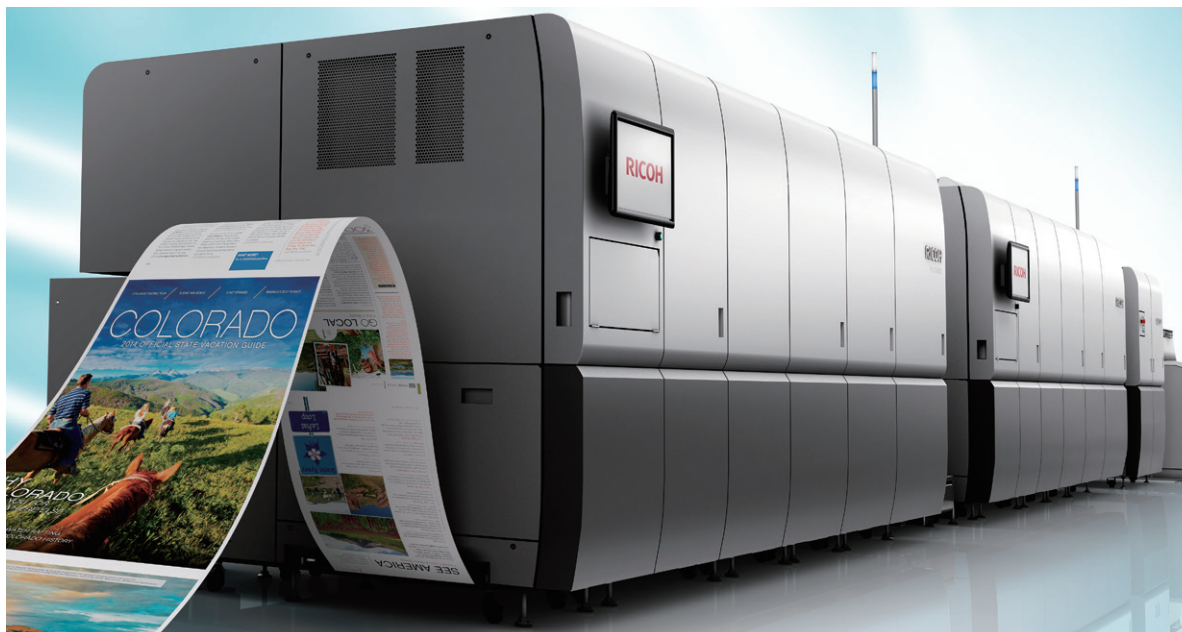
RICOH Pro C9100 Series

This color production series is Ricoh's flagship color print-on-demand system. The series enables printers of all sizes to embrace digital solutions at an affordable price point, and maximize growth opportunities. It incorporates new imaging technologies to ensure consistently exceptional quality. It is also very flexible, handling a wide range of media, and it minimizes downtimes to ensure outstanding productivity for large jobs.

RICOH Pro VC60000

This color inkjet model draws on years of innovations in print head and ink technology. It is optimized for graphic arts applications by

employing proprietary high-density pigment inks as well as delivering outstanding quality at up to 1,200 x 1,200 dots per inch.



RICOH Pro C7100 Series

This series of multifunction color production systems is for on-demand printing of items requiring high graphics quality. Applications range from light and demo packaging to posters, books, brochures, and business cards. A key feature is a fifth color station that allows clear gloss or white applications.



Industrial Products

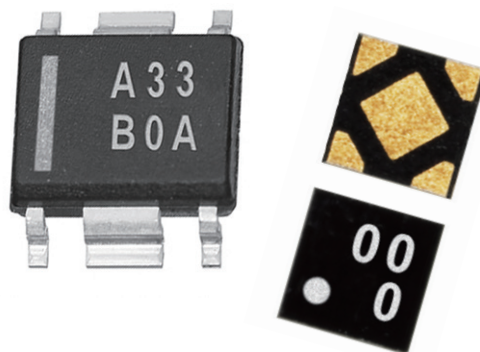
Supporting industry progress and innovation

Electronic Devices

Power Management ICs

These ICs leverage proprietary CMOS analog circuit and production technologies that ensure compactness, low power consumption, and high efficiency, precision, and reliability. We have built an

outstanding reputation among customers worldwide for the high added value that these devices provide for everything from smartphones to automobiles and industrial equipment.



FA Cameras

Camera and Security Lenses

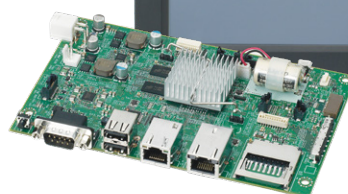
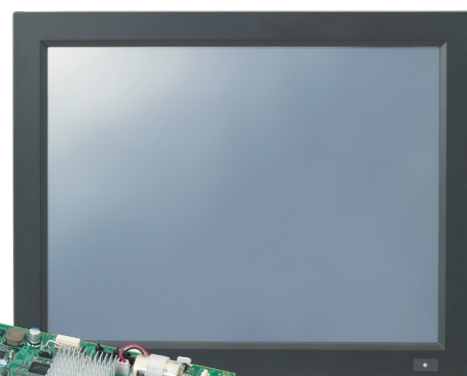
We provide high-quality factory automation cameras and value-added lenses that help enhance production line efficiency and reliability. We also supply security lenses for everything from monitoring public and transportation facilities to port and border surveillance systems.



Embedded Controllers

AB and FP Series

Ricoh has expanded its embedded control unit business to encompass touch-panel computers and an array of solutions. Both the AB series of central processing units for the ARM architecture and our FP series of touch-panel computers represent great advances in vibration and impact protection.



Thermal Media

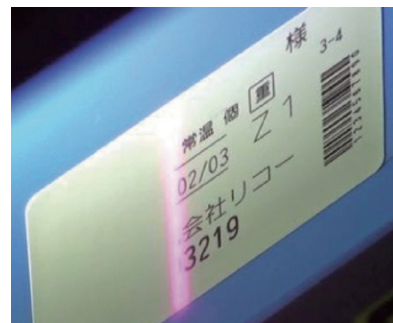
Ricoh's text and barcode solutions for thermal media include thermal paper and transfer ribbons for managing and shipping products. The lineup also encompasses thermal rewritable offerings and an application for reversible thermosensitive recording media technology, which Ricoh was the first in the world to develop and deploy.





Rewritable Laser Systems

This new printing process uses a semiconductor laser marker/eraser as a thermal rewritable media to change displays without contact. This technology makes it possible to rewrite container labels up to 1,000 times over more than five years, greatly reducing environmental impact and costs.



3D Printers

RICOH AM S5500P

This printer can fabricate high-definition objects that are highly durable. It employs an additive manufacturing technique in which a laser irradiates a powdered material for sintering. This product

can fabricate automobile parts for functional tests and parts for end products. With a large modeling area, the printer can fabricate different parts at the same time and mold large parts all at once.



Inkjet Heads

Ricoh offers a wide range of industrial inkjet heads that support everything from high-resolution to large droplet applications. The heads are made of stainless steel, so they are very robust and offer excellent protection against corrosion by inks. Built-in heaters

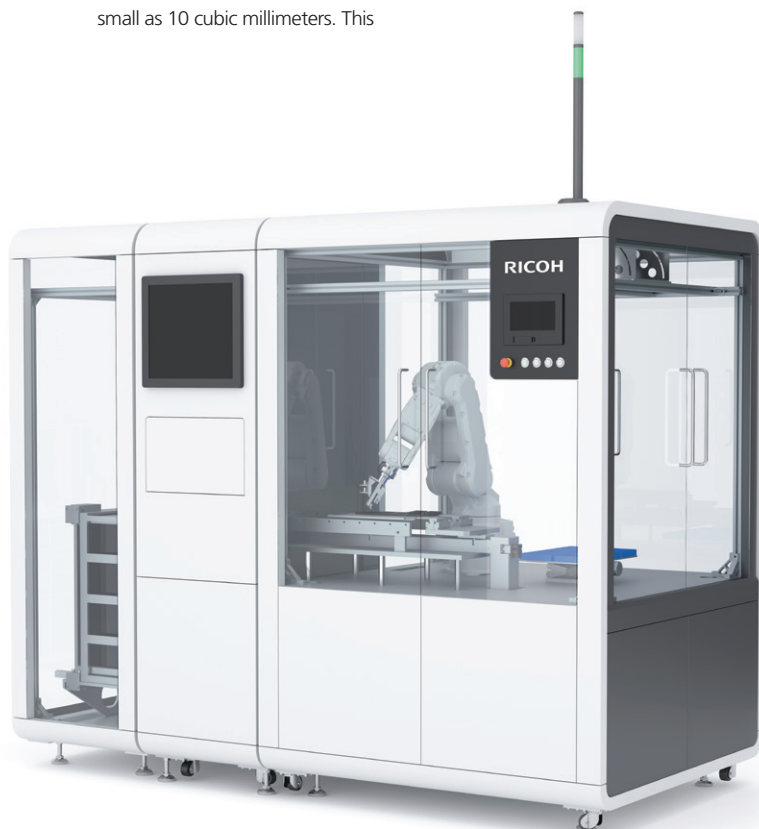
enable the heads to jet highly viscous inks. Jet waveforms can be set easily to match ink attributes for various applications. Multi-drop technology makes it possible to control drop sizes, for outstanding color and gray-scale printing.

Picking Systems

RICOH RL Series

This series combines Ricoh's proprietary 3D recognition and robot control technologies to automate everything from picking to assembling parts that are as small as 10 cubic millimeters. This

system can replace several robots and people. It also quickly measures the exact positions of parts while undertaking continuous picking.



Revolutionizing photography with outstanding quality and features



PENTAX 645Z

This SLR model employs a large CMOS sensor in a dustproof and weather-resistant body to deliver high resolution with 51.4 effective

megapixels. It meets the needs of a wide range of professional photographers with its easily operable and reliable exchangeable lenses.

RICOH THETA SC

This standard-class model of the popular RICOH THETA series captures fully spherical still and video images that users can easily transfer to smartphones and tablet

computers. People can also share their images on social networking services or use them as virtual reality contents.



GR II

This compact camera maintains the outstanding imagery and portability balance of its predecessor while becoming the first in the line to support Wi-Fi and Near Field Communication to simplify image transfers to smartphones and other

devices. The GRII delivers even better image quality through a reprogrammed algorithm, which has enhanced the precision of the Auto White Balance control, and a fine-tuned compensation program to prevent high-sensitivity noise.



PENTAX K-1

This top-of-the-line model is the first 35mm full-frame format camera in the K-mount SLR series to please professional and serious amateur photographers alike. The K-1 offers outstanding image

quality and resolution with an approximately 36.4 effective megapixel CMOS image sensor. It also pleases by delivering beautiful, rich gradations and outstanding sensitivity.



Digital Cameras

New Core Businesses

Cultivating new businesses to capitalize on emerging needs

Additive Manufacturing Business

In September 2014, Ricoh embarked on an additive manufacturing business centering on 3D printers. Offering time- and cost-saving possibilities through prototyping and small-lot production capabilities, 3D printing is attracting interest on the frontlines of manufacturing and could well become a ¥2 trillion industry by 2020. We will apply a professional perspective, based on experience accumulated Groupwide over more than 20 years in the use of 3D printers for product design and technologies for prototyping and molding to support innovation in manufacturing at customer sites. As part of this effort, we opened facilities—RICOH Rapid Fab—as hubs for innovation that will handle 3D printer sales and provide output services and consultations.



RICOH Rapid Fab in Atsugi, Kanagawa Prefecture



RICOH Future House

Community Building

Leveraging its technological strengths and customer contact capability, Ricoh will help build innovative communities and contribute to their development and growth. One achievement in that regard was the opening of RICOH Future House, a commercial complex in Ebina, Kanagawa Prefecture, in summer 2015. This facility holds hands-on experience classes for children utilizing know-how in technology, development and design. Through its programs, the facility underpins learning opportunities for the scientists and engineers of tomorrow who will drive manufacturing industries forward. By participating in community building, Ricoh will offer ideas for comfortable living environments and support for business operations, thereby extending its new business model to other areas and expanding the scope of its business pursuits.



Hands-on science class for children

Innovating to deliver new social value

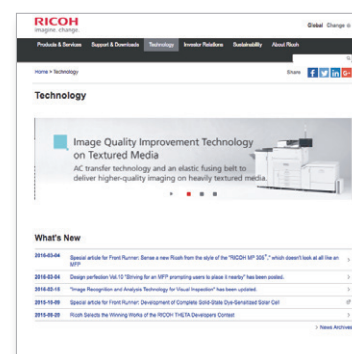
We have constantly proposed workstyles that deliver new value for customers ever since entering the business machines field in the 1950s. We supply new equipment and solutions that streamline communications at any time and place for people and processes in offices. We continue to innovate technologies that transform the nature of work for customers.

We are drawing on image processing, optical, chemicals, networking, software and other core technologies accumulated over the years to combine new ideas and techniques in pursuing innovations that contribute to social sustainability. We are driving open innovation with universities, research institutes, and other companies to streamline the development of advanced technologies. We will continue to leverage innovations in creating technologies and products that help resolve social issues.

50,413

Number of patents maintained worldwide (as of March 31, 2018)

Technology disclosure



Visit the following site for more details:
<http://www.ricoh.com/technology/>

Creating value in new domains

Providing new value to industrial markets

We are fully leveraging our strengths in manufacturing technologies in undertaking research and development in our priority areas of industrial inkjet products, machine vision, healthcare, and the environmental field.

Deploying industrial inkjet technologies in diverse applications

Ricoh combined its strengths in industrial inkjet head and ink materials technologies to enable printing on media other than paper. The global potential for this media is massive, and includes furniture, wallpaper, construction materials, PET bottle labels, furnishing fabrics, and signage.

Decorations



Labels and packaging



Textiles

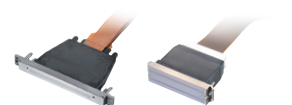


Signage



Ultraviolet inkjet ink

Balancing high hardness and adhesion while lowering environmental impact and alleviating worker burdens



MH/GH series industrial inkjet heads

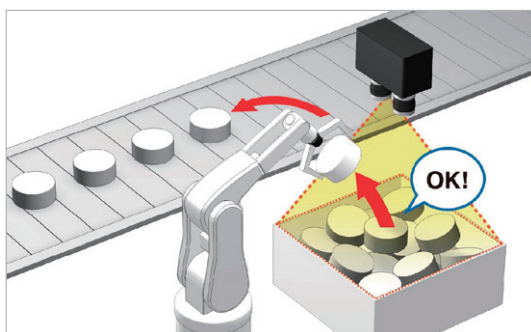
Offering high durability and resolution and supporting a wide range of inks, including high-viscosity inks

■ Cultivating the future of machine vision with optical sensing

We have refined machine vision technology, which instantly tracks and assesses information in areas within and beyond human detection capabilities. We have employed our optical and image processing technologies to support automation, and are developing intelligent solution services that rapidly assess situations to act appropriately without human involvement.

Robot eyes in factory automation

This stereo camera uses parallax information to capture 3D data on subject positions in real time, and is used as a sensor in pick and place robots.



Drone eyes

This system uses a super-wide-angle stereo camera to estimate its position and obtain information on obstacles inside warehouses and other large facilities that cannot receive GPS signals, and enables stable automatic flight.



■ Core technologies delivering new healthcare value

We acquired the magnetoencephalography business of Yokogawa Electric Corporation in April 2016. We are combining the medical equipment development and business knowhow from that acquisition with the imaging technology, systems design capabilities, and production expertise of core operations to help prevent and swiftly identify and treat illnesses, helping resolve social issues through such value.

Biomagnetic measurement system

When we initiated R&D into magnetospinographic measuring devices in 2014, it was difficult to obtain images of spinal cord neural activity transfers with magnetic resonance imaging and other bio-observation equipment. Accordingly, we used ultrahigh-sensitivity sensors to detect weak magnetic fields from spinal cords accompanying neural activity. Then, we performed image processing on measurement results to visualize neural activity transfers.

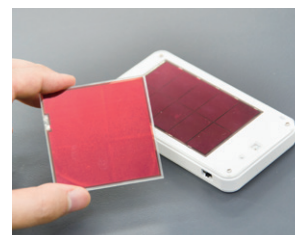


■ Developing environmental technology

In the Internet of Things society of the near future, all sorts of objects will have sensors, heightening the need for standalone power source technology to enable communication. Our complete solid-state dye-sensitized solar cell is one fruit of our photoconductor technology application endeavors.

Solid-state dye-sensitized solar cell

We successfully developed a complete solid-state dye-sensitized solar cell that can effectively generate power even under a weak light source, such as LED lighting. The device delivers more than twice the electric output of amorphous silicon solar cells.



Corporate Social Responsibility

Fulfilling our commitment to contributing to a sustainable future for business, society, and the Earth

As globalization progresses, our society faces an increasing number of challenges on a global scale that are diverse in nature and traverse various aspects of society, the economy and the global environment. These issues are too intricately intertwined by multiple factors to be addressed by the public sector alone, including national governments, international organizations and the social sector. Against this background, expectations are rising for private companies that possess a wide range of global resources to contribute to solving these complicated social concerns. As such a corporate entity, the Ricoh Group works to meet these social challenges, clarifying its stance under two principles: "contribution to resolution of social issues through business activities" and "commitment to and responsibility for social contribution."



* CSV is a business concept aimed at generating economic value in a way that also produces value for society by addressing social needs and issues.

Engaging stakeholders

Value to customers	Customers	<ul style="list-style-type: none"> Increase customer value through products and services Offer safe and reliable products and services
	Business partners	<ul style="list-style-type: none"> Build partnerships based on mutual trust and fair trade Promote socially responsible activities across the value chain
Value to shareholders	Shareholders and investors	<ul style="list-style-type: none"> Increase corporate value by achieving sustained business growth Provide timely and appropriate information disclosure and communication
Value to employees	Employees	<ul style="list-style-type: none"> Provide workplaces that motivate our diverse employees Maintain a culture that fosters personal development and fair treatment
Value to society	Society	<ul style="list-style-type: none"> Contribute to solving social issues through social contribution and business activities Respect the cultures and customs of the countries and regions in which we operate, and contribute to their development
	Global environment	<ul style="list-style-type: none"> Conduct business activities in an environmentally friendly manner and contribute to the reduction of environmental impact Contribute to the maintenance and restoration of the Earth's self-recovery capabilities

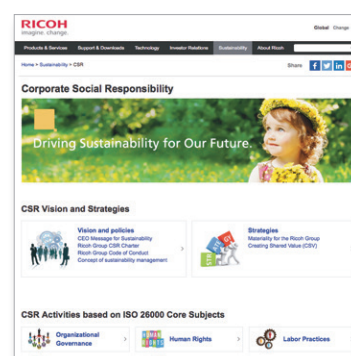
Contributing to Sustainable Development Goals

We are collaborating with various stakeholders in society to achieve these goals.



Global goals for Sustainable Development Goals adopted by the United Nations to be achieved by 2030

CSR disclosure



Visit the following site for more details:
<http://www.ricoh.com/csr/>

Collaborating with stakeholders to contribute to sustainable development

CSV Initiatives

Exploring Opportunities to Contribute to Food Safety and Efficiency in Indonesia



Market in Surabaya, Indonesia

As part of its drive to cultivate markets in emerging nations, the Ricoh Group is creating businesses that tackle local social issues.

In 2015, Ricoh began exploring ideas for thermal media businesses that can resolve such issues. The unit supplies barcode labels and other display media to retailers, logistics firms, and manufacturers.

In November that year, we joined hands with an Indonesian nonprofit organization to conduct surveys to learn more about the lives of middle class and low-income people in and around Surabaya, the nation's second largest city. The effort entailed interviews at farms, fishing villages, shops, hospitals, schools, and residences.

The surveys revealed significant challenges with water, electricity, and other infrastructure, unstable agricultural incomes, problems with chilled food supply chains, and hygiene and health issues.

We decided to focus on food security in light of issues that the surveys raised, the Indonesian government's priority fields, and the Sustainable Development Goals. We look to create new businesses that can help boost the safety, security, and nutrition of food.



Indonesian fishing village

Forest Ecosystem Conservation Projects

Safeguarding Ecosystems and Building Communities

The destruction of ecosystems could spell the end of the natural environments that sustain all life. Forest ecosystems present particularly rich biodiversity, and are of special interest to Ricoh. The Company has promoted forest ecosystem conservation projects since 1999 in partnership with environmental NGOs and local communities. It is undertaking six such projects in five countries. Rather than focus on afforestation, these initiatives aim to protect the habitats of indigenous species and the lives of residents and establish systems for sustainable forestry management.



Mangrove swamp in Mexico

Forest ecosystem conservation projects

Inception	Country	Project (NGO partner)
2001	Japan	Conservation of the Afan Forest in Kurohime, Nagano (C.W. Nicol Afan Woodland Trust)
2001	Japan	Conservation of Yanbaru Forest in Okinawa (Yanbaru Forest Trust)
2004	Russia	Conservation of Taiga, the northernmost habitat of tigers (Friends of the Earth Japan)
2007	China	Conservation of biodiversity of Three Parallel Rivers, a World Heritage Site (Asia Green-Culture Association)
2011	Malaysia	Restoration of mangrove forests on the central Selangor coast (BirdLife International Tokyo)
2015	Mexico	Mangrove restoration in Mexico (BirdLife International Tokyo)



Russian forest where world's largest tigers live

Environmental crises are forcing companies to lead social transformations. The Ricoh Group aims to remain a valued and respected member of society by conserving the environment while generating profits through its businesses. In keeping with our commitment to decarbonizing society, we became the first Japanese company to join RE100*, an international initiative striving to increase the demand for and delivery of renewable energy. We are also developing cross-sectional environmental technologies that contribute to conserving biodiversity to help the earth to regenerate.

Contributing to a sustainable society based on the Comet Circle concept

Comet Circle™—Our sustainable society concept

-
- The diagram illustrates the product lifecycle and recycling process, showing the flow from production to end-of-life management. The lifecycle starts with a **User** (red circle) who uses a product. The product then moves through various stages: **Long use**, **Maintenance company**, **Product recovery center**, **Parts recovery center**, **Materials recovery company**, **Oil recovery company, smelting company**, **Thermal energy collection company**, and **Final disposal company** (Landfill). The recycling process involves **Reuse of parts**, **Reuse of products**, **Crushing of products**, **Sorting and disassembly**, and **Shredder dust**. The diagram also shows the flow of materials from **Fossil and mineral resources etc.** to **Materials supplier**, and the generation of raw materials (Chemical recycling, Metals recycling) from the recycling process.
- © 1994 RICOH

We formulated our Environmental Declaration to foster specific long-term initiatives to lower our environmental impact and enhance the Earth's regenerative capacity. We accordingly established global warming prevention and resource conservation targets for 2030 and 2050, and are progressing with environmental action plans that we draw up every three years. Our 2030 global warming goal is to limit the temperature increase under the Representative Concentration Pathways 2.6 emissions scenario to less than 2°C, as adopted by the Intergovernmental Panel on Climate Change.

Environmental Declaration
We proactively reduce environmental impact and strive to improve the Earth's self-recovery capabilities to achieve a zero-carbon society and a circular economy through business.

Global warming

Target zero greenhouse gas (GHG) emissions across the entire value chain

GHG Scope 1, 2: 30% reduction from 2015 level

GHG Scope 3: 15% reduction from 2015 level
(procurement, use, and logistics categories)

- GHG Scope 1: All direct GHG emissions from our manufacturing plants, offices, vehicles etc.
- GHG Scope 2: Indirect GHG emissions from the consumption of electricity and heat that we purchase
- GHG Scope 3: Emissions in the supply chain from business activities (excludes GHG Scope 1 and 2)

2050 goal

Product resource conservation rate*: 93%

2030 goal

Product resource conservation rate: 50%

*Rate of reduction in new resource inputs to total resource inputs



Ricoh Eco Business Development Center



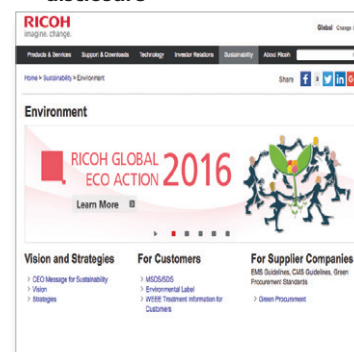
Real Comet Circle

Creating and expanding business through the RICOH Eco Business Development Center

Since the 1990s, we have emphasized environmental management to reduce environmental impact and create additional sources of revenue and profit. We have progressed by implementing environmentally friendly management practices that evolve with our customers by engaging in business activities that coordinate more closely with their activities. We accordingly established the RICOH Eco Business Development Center on the site of a disused plant. The center's functions are to create new eco businesses,

operate the Reuse & Recycling Center, and engage in environmental communications. In addition to producing established lines of copiers and other environmentally conscious products, we are working with customers, partners, and the community to create eco businesses in a broader range of fields as part of an ongoing endeavor to realize a sustainable society through open innovation from this site in Gotemba at the foot of Mount Fuji.

Environmental management disclosure



Visit the following site for more details:
<http://www.ricoh.com/environment/>

We will continue to revolutionize image processing

Ricoh started out by marketing sensitized paper and cameras. We have since innovated numerous image processing technologies to offer revolutionary products and services that help improve productivity and create knowledge.

Early Years

Ricoh's origins date back to a decision of the Institute of Physical and Chemical Research to commercialize the fruits of its R&D by setting up Rikagaku Kogyo Co., Ltd. In 1936, the institute established Riken Kankoshi Co., Ltd. (renamed Riken Optical Co., Ltd., in 1938, and Ricoh Company, Ltd., in 1963) to manufacture and sell sensitized paper. In 1950, the Company popularized cameras among consumers by mass producing them for the first time in Japan, and in 1955 entered the business machine field with the introduction of the Ricopy 101.

- 1936 Riken Kankoshi Co., Ltd. established to make and market sensitized paper, with Kiyoshi Ichimura appointed executive managing director.
- 1938 Renamed Riken Optical Co., Ltd. (until 1963).
- 1946 Kiyoshi Ichimura becomes president.
- 1950 Launches the Ricohflex III camera, which spurs the popularization of cameras.
- 1955 Enters office copier field with the Ricopy 101, its first diazo model.
- 1957 Wins Ohkochi Memorial Production Prize for establishing camera mass-production system.
- 1960 Introduces the Ricoh Offset B4, the first offset printer for office use.
- 1962 Launches the Ricoh Auto Half, a half-framed model that proves a massive hit. Establishes Ricoh Industries, U.S.A. Inc., a sales subsidiary.
- 1963 Renamed Ricoh Company, Ltd.
- 1965 Introduces the Ricopy BS-1 as its first electrostatic copier.
- 1968 Kiyoshi Ichimura passes away.



Ricohflex III



Ricopy 101

OA Pioneer

In 1974, Ricoh launched the Rifax 600S, the world's first high-speed office facsimile. In 1977, we coined the acronym OA for "office automation." During the 1980s, we extended our office productivity support by rolling out a lineup that included computers and word processors, optical filing systems, and laser printers.

- 1970 Ricoh Pavilion at Japan Expo '70 highlights theme of a "Better Vision for Humanity."
- 1971 Introduces the Ricom 8, its first office computer. Establishes Ricoh Nederland B.V., a Dutch sales subsidiary.
- 1972 Launches the Ricoh PPC 900, its first dry-electrostatic-transfer plain paper copier.
- 1973 The Rifax 600S, the first high-speed facsimile machine for offices, transmits between Tokyo and New York via satellite.
- 1975 Commercializes the Ricopy DT1200, a wet process-based plain paper copier. Becomes office automation industry's first Deming Prize recipient.
- 1976 Establishes Environmental Promotion Section. The Rifax 600S adopted for use in the Montreal Olympic Games.
- 1977 Coins acronym OA for "office automation."
- 1981 Starts marketing Ricoh brand dry process plain paper copiers in Europe and North America.
- 1982 Introduces the Ricopy FT4060, the first A3 plain paper copier.
- 1983 Establishes Ricoh UK Products Ltd., a manufacturing subsidiary.
- 1984 The Rifax 1300HS receives a Nikkei Product Excellence Prize.



Rifax 600S



Ricopy DT1200

The Digital Revolution

In 1987, we pioneered MFPs with the IMAGIO 320. In 1996, we helped popularize digital models by launching the imagio MF200, a compact and highly affordable MFP. We subsequently released networked and color offerings.

- 1985 Receives the Ohkochi Memorial Production Prize for developing a multi-product production system for MFPs.
Develops speech recognition and optical character recognition technology.
- 1987 Launches the IMAGIO 320 digital copier.
- 1989 Signs a Worldwide Sponsorship contract in the facsimile machine category for the 1992 Barcelona Olympic Games.
- 1991 The Ricoh California Research Center develops the world's fastest color imaging compression algorithm.
Establishes Ricoh Asia Industry (Shenzhen) Ltd., a manufacturing subsidiary in China.
- 1992 Implements the Ricoh General Principles on the Environment to define the Group's conservation policy.
- 1993 Ricoh UK Products Ltd. is the first recipient of the Queen's Award for Environmental Achievement.
- 1994 Ricoh UK Products Ltd. receives a Highly Recommended prize from the European Better Environment Awards for Industry for its chlorofluorocarbon-free recycling system.
- 1995 Launches its first digital camera, the DC-1.
Acquires Gestetner Corporation (U.K.) and Savin Corporation (U.S.).
- 1998 The Rifax BL110 Shataro2 facsimile machine receives the Japan Machinery Federation President's Award at the 18th Energy Saving Excellent Awards.
Placed first in the Environmental Management Survey of the *Nihon Keizai Shimbun*, Japan's top business daily (was first for three straight years through 2000 and then in 2004).
- 1999 Awarded the Minister of International Trade and Industry Prize in the eighth annual Global Environment Awards from the Japan Industrial Journal.
Receives Japan Quality Award.
- 2000 Obtains the first Eco Mark for an MFP.



IMAGIO 320



DC-1

A Global Company

Ricoh's overseas expansion began in the early 1970s, when the Company began selling on an original equipment manufacturer basis. The Company pursued global expansion by establishing a global sales support structure, a process kick-started in 1995 when U.K.-based Gestetner became part of the Ricoh Group. The Company steadily extended the scope of its operations, including by entering the production printing market and reinforcing its solutions business.

- 2001 The imagio Neo 350 series wins Energy Conservation Prize from Minister of Economy, Trade and Industry.
Acquires Lanier Worldwide, Inc.
- 2002 Given the world's highest ranking for corporate social responsibility by oekom Research AG (also in 2005 and 2006).
Signs the United Nations Global Compact.
- 2003 The Ricoh Group receives Gold Medal from the World Environment Center.
Establishes Ricoh China Co., Ltd.
- 2004 Acquires Hitachi Printing Solutions, Ltd., which is renamed Ricoh Printing Systems, Ltd.
- 2005 Given the highest (AAA) evaluation in environmental ranking organized by Tohatsu Evaluation and Certification Organization (also in 2006).
- 2006 Lights up a major billboard atop the San-Ai Dream Center in Ginza, Tokyo.
- 2007 InfoPrint Solutions Company, a Ricoh-IBM joint venture, starts operations.
- 2008 Introduces the Ricoh Pro C900 color production printer.
Acquires IKON Office Solutions, Inc.
- 2009 Releases its first reconditioned color MFP, the MP C3500RC/C2500RC series, in Japan.
Produces the world's first biomass toner, used in the MP 6001GP MFP.
Establishes Ricoh Manufacturing (Thailand), Ltd.



San-Ai Dream Center



imagio MP 6001GP

Creating New Customer Value

With a rapid evolution in customer workstyles, Ricoh's range of value provided to customers has begun to expand significantly. By launching the Projection System business and the Unified Communication System, coupled with the introduction of various network appliances linked to cloud services, Ricoh has created new value for its customers.

- 2010** Launches the Projection System business.
- 2011** Launches the Unified Communication System business to efficiently integrate video, voice and other forms of data.
Establishes PENTAX Ricoh Imaging Company, Ltd. (renamed RICOH IMAGING COMPANY, LTD., in 2013).
Receives an award from Ministry of Economy, Trade and Industry for dry washing technology that removes residue without using solvents or water.
- 2012** Selected by oekom research AG as the world's best performing business for sustainability in the IT industry.
Releases the MP 9002/7502/6002/6002GP series, the industry's first digital high-speed monochrome MFPs to feature steel parts made from scrap.
Ricopy 101, the diazo copier launched in 1955, is included in the list of Japan's Mechanical Engineering Heritage.
Global consulting firm Deloitte recognizes Ricoh as one of six global pioneering companies in terms of reaching the Ecosystem level of sustainable business.
- 2013** Releases the RICOH Interactive Whiteboard D5500, which allows remote sites to share display-based handwritten content.
The Ichimura Nature School Kanto wins the Philanthropy Grand Prize.
Selected as one of the World's Most Ethical Companies by Ethisphere Institute of United States for the fifth consecutive year.
Restructures design and production functions in Japan.
Establishes Ricoh Technologies Company, Ltd., and Ricoh Industry Company, Ltd.
Releases the RICOH THETA*, the world's first camera capable of taking fully spherical pictures.
- 2014** Listed in the "Global 100 Most Sustainable Corporations in the World" by Corporate Knights, Inc., of Canada for the 10th straight year.
The Ichimura Nature School Kanto wins the Minister of Education, Culture, Sports, Science and Technology Award.



RICOH Interactive Whiteboard D5500



RICOH THETA

Selected for the FTSE4Good Index, a socially responsible investment index, for the 11th consecutive year.

Reorganizes sales subsidiaries in Japan. Parts of Ricoh Technosystems Co., Ltd., Ricoh Business Expert Co., Ltd., and Ricoh IT Solutions Co., Ltd., are integrated into Ricoh Japan Corporation.

Installs a 100% eco-powered electronic billboard at Ginza 4-chome crossing in Tokyo.

Launches Additive Manufacturing business.

The Rifax 600S is registered under Essential Historical Materials for Science and Technology by the National Museum of Nature and Science in Japan.

2015 Establishes Ricoh Middle East FTZ in Dubai as a regional head office to provide solutions support and function as a training center for Ricoh offerings.

Opens RICOH Future House to foster community development.

Launches its first 3D printer, the RICOH AM S5500P.

Listed in Dow Jones Sustainability World Indices for socially responsible investment for the third year in a row.

2016 Acquires AnaJet, a leader in direct to garment printers in the United States.

Receives Nano Tech Grand Prize at the 2016 Nano Tech Awards.

Receives highest Gold rating in EcoVadis global supplier survey for second straight year.



Selected for Silver Class in sustainability ratings by RobecoSAM for the second consecutive year.

RIFAX 600S is honored by The Institute of Electrical Engineers of Japan as a One Step on Electro-Technology product.

Recognized as one of the World's Most Ethical Companies by Ethisphere Institute of United States for the seventh time.

Enters the healthcare solutions field.

Opens the RICOH Eco Business Development Center.

RICOH Eco Business Development Center receives the Japanese Prime Minister's Award for Reuse and Recycling activities.

2017 Establishes new environmental goals.

Included on Climate A List by CDP, a non-profit global environmental disclosure platform.

Receives 2017 Environment Minister's Award for Global Warming Prevention Activity.

2018 Wins 2018 Grand Prize in Corporate Environmental Leadership Development from Environment Minister.

*Consumer product noted for ability to capture fully spherical images, rather than panoramic or semi-spherical images, with a single shutter release (based on Ricoh research, as of October 2013).

Visit the following site for details:
<http://www.ricoh.com/about/company/history/>

Sponsoring Excellence

Commitment to teamwork as a global and trusted player

We sponsor sports events and stadiums and help foster youth as part of an array of diverse initiatives to contribute broadly to social progress.



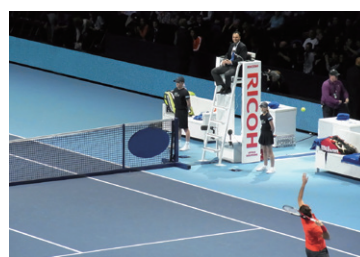
▲ LPGA Tour Championship Ricoh Cup, Japan



▲ Ricoh Women's British Open, United Kingdom



▲ Miami Marlins Major League Baseball team, U.S.A.



▲ ATP tournaments (Europe and Asia-Pacific)



▲ Official partner of Museum of Emerging Science and Innovation, Japan

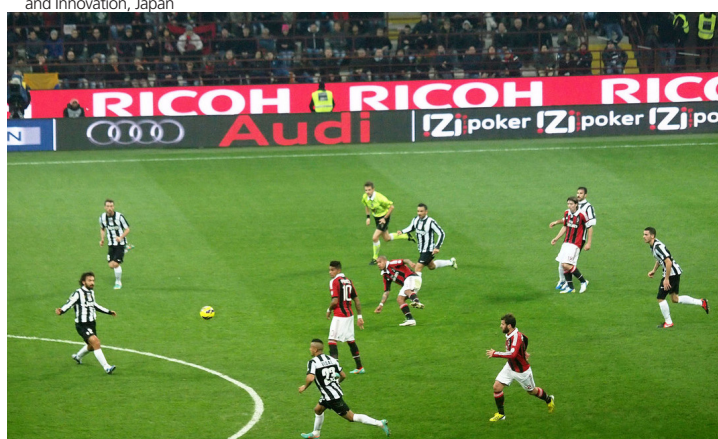


▲ Ricoh Coliseum, Canada

©Makoto Hirata



▲ Philadelphia Eagles National Football League team, U.S.A.



▲ A.C. Milan, Italy



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