



We want to print no more than the needed number of materials at any given time.

Integrated Digital Printing Management System Expands the Potential of On-Demand Printing

Stanford University in the U.S. was grappling with the problem of how to efficiently supply educational materials. Konica Minolta provided a comprehensive solution that included a digital printing system, the Printgroove application that allows consolidated printing management and 24-hour service via the web, and its proprietary security system. By linking to the Stanford Intellectual Property Exchange, a system developed by the university that allows the transfer of research papers and other files while protecting copyrights and patents, students are now able to purchase the educational materials they require on demand at low cost in the form of printed materials or digital files.



Highlight in 2011

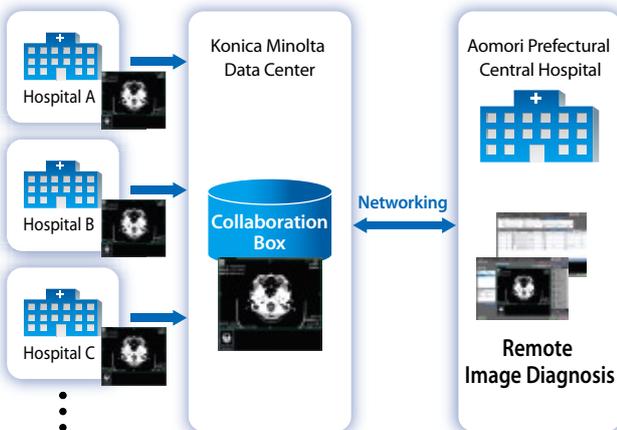
Giving Shape to Ideas

Giving Shape to Ideas, Bringing Innovation for the Future

Konica Minolta continues to give shape to a wide variety of new ideas designed to provide solutions to the challenges its customers and the broader society face.

*The term "Konica Minolta" is used in this section in place of the names of individual business companies or related companies.

Remote Image Diagnosis Via Data Sharing Service



I wish I could get a medical exam from a specialist at my local clinic.



Advanced Solutions for Networking among Regional Medical Institutions

The northern part of Aomori prefecture in Japan faces a shortage of physicians with specialist knowledge about brain disorders. Konica Minolta helped the Neurocerebral Center at Aomori Prefectural Central Hospital to build a network of 10 hospitals in the area, which are now using the network for remote image diagnosis. The system was made possible by Konica Minolta's Infomity Collaboration Box Service, a networking solution designed to enable medical institutions to share medical exam data. It allows diagnostic images of patients suffering from strokes and head injuries to be sent to and interpreted by specialists, making it possible to quickly decide if the patient needs to be transported to a hospital equipped to perform the necessary surgery.

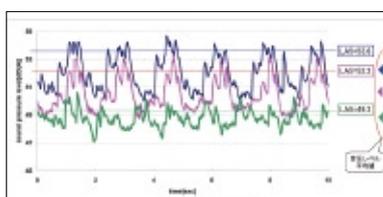
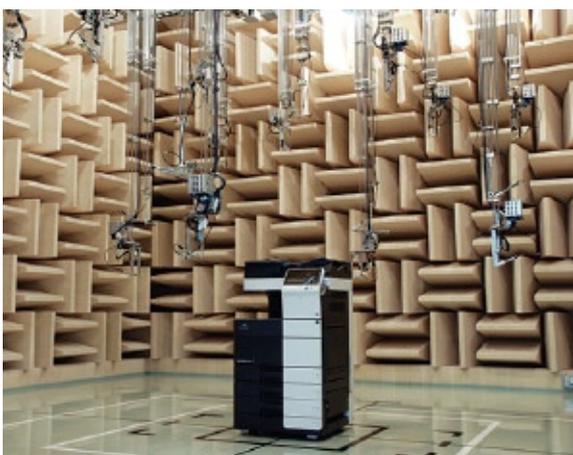


We need to manage worldwide document output more efficiently.



Optimized Print Services Help Solve Problems for Global Corporations

Global corporations are pursuing ways to address the cost and security issues of the office equipment used in their offices around the world. To help them achieve these goals, Konica Minolta provides Optimized Print Services (OPS) that fully manage office equipment operations, optimize equipment setups and improve operating efficiency. These services are employed by the German automobile manufacturer BMW, for example, to efficiently operate and manage a total of 6,800 bizhub systems of multi-functional peripherals at offices and production sites all over Europe, helping the company to improve efficiency and information security in running office equipment on a large scale.



I sure wish there was a quieter printer.



New Technology Has Made MFP Sound More “Pleasant,” Providing for a More Comfortable Office Environment

Konica Minolta has been working hard to create quieter MFPs. Since 2007, the company has been involved in joint research with Kyushu University in Japan aimed not only at reducing absolute noise level, but also at cutting the particular kinds of noise that people find uncomfortable to make the sound emitted by MFPs more pleasant. The research analyzes the noise emitted when MFPs are in operation using techniques borrowed from the study the train noise, and then identifies the specific materials and structures that cause the objectionable noise to enable specific improvements to control it. Based on user reports that the MFP noise was less bothersome,* the company included its improvements in all MFP models to be launched in fiscal 2012 and beyond.

*Konica Minolta internal survey



I wish we could dye beautiful fabric more quickly.

Inkjet Textile Printing Enables High Productivity, High Quality Prints

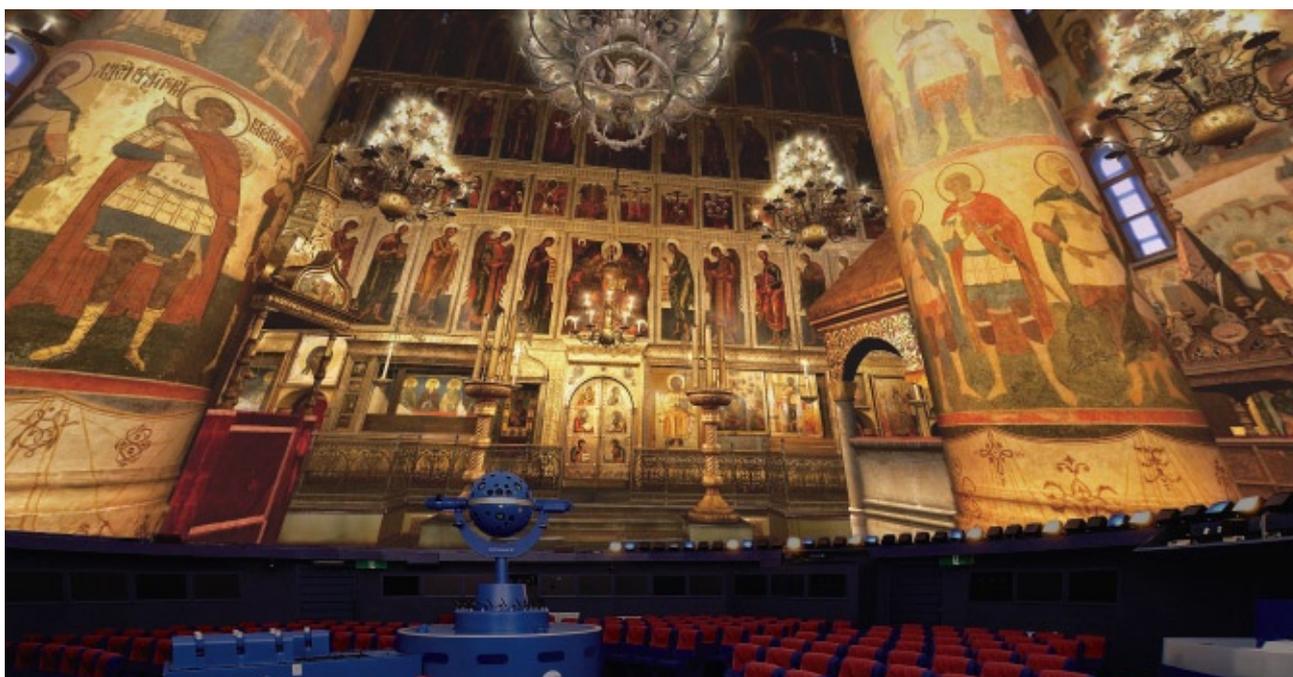
In inkjet textile printing, the designs are created on computers and sent to a printer, making textile printing plates used in conventional printing unnecessary and significantly reducing the time it takes to deliver product. By spraying only a few picoliters of printing ink accurately on the fabric, inkjet textile printing can easily create high-quality prints and achieve effects such as color gradation, fine lines, and overlaid patterns that were very difficult to do using conventional printing methods. The Nassenger PRO 1000 printer, launched in 2011, boasts extremely high productivity with the ability to print 1,000 m² of fabric per hour when operating at maximum capacity. With its low environmental impact, high quality, and high productivity, demand is high in fashion and fabric centers around the world such as Italy, Turkey, and India.



I wish I could experience cultural treasures without traveling so far.

Cultural Treasure Archives Projected on Domed Screens Just Like the Real Thing

Digital archives storing the images of cultural treasures such as art works and structures help preserve the originals while allowing more people to enjoy them. Konica Minolta used the imaging technology it has developed in its planetarium business to create dome-screen-projection versions of 3D digital image content created by Toppan Printing Co., Ltd. on domed screens. These high-definition images of cultural treasures are displayed on the entirety of huge dome screens, surrounding the viewer and giving a life-like impression. Konica Minolta continues to help create new kinds of entertainment and education.



Displayed image: Toppan Visual Reality (VR) Content : The Assumption Cathedral produced and copyrighted by Moscow Kremlin Museums/TBS/Toppan Printing Co., Ltd. with cooperation from Dentsu Inc.

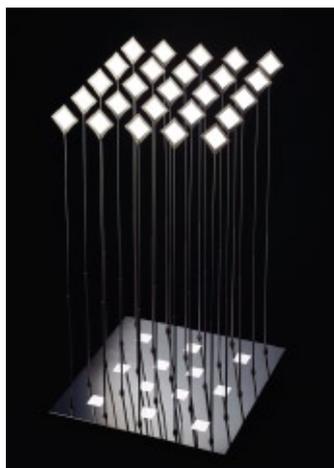
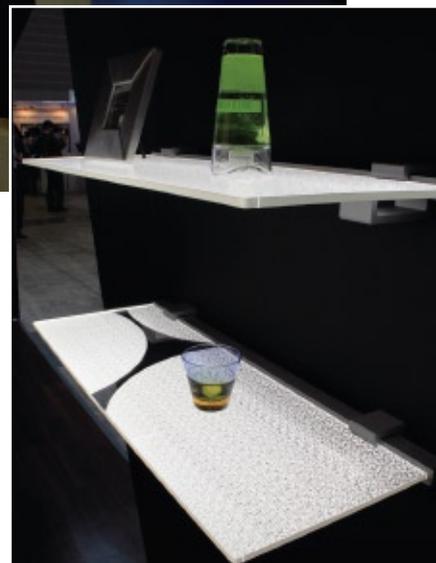
Can lighting be both exciting and environmentally friendly?



Symfos

Advanced LED Lighting Uses Flat Surface Light Emitting Technology

LED lighting that consumes low power, lasts longer and emits less heat is in great demand because it has a low environmental impact and is economical. Konica Minolta has developed flat surface light sources by applying its optics and film technology to guide and diffuse the light of LED point light sources. The lineup includes two types of lighting: a flat lighting device that takes up less space and a high-potential lighting device that can be used for light designing. These new types of lighting devices are perfect for a wide variety of lighting situations.



OLED Panels with the World's Highest Level of Light Emission Efficiency

Organic light emitting diode (OLED) lighting takes advantage of the light-emitting properties certain organic materials have when electrified. It is a promising new technology because it has a high degree of light-emission efficiency and can illuminate from an entire surface. Konica Minolta used its own blue phosphorescent light emitting material to develop an OLED panel product with a light-emission efficiency of 45 lm/W, the world's highest level for a mass-produced OLED panel product. In October 2011, it was made available in the form of sample kits, and it promises to create a new age of next-generation lighting.

We want to reuse rare earth elements.



Rare Earth Recycling Technology Enables Limited Resources to be Reused at Low Cost

There are only a few supplier countries of rare earth materials worldwide, and there is concern that limited supply will lead to higher costs. Clearly, rare elements must be used efficiently if we are to realize a sustainable society. Konica Minolta has been working on developing a recycling technology for cerium oxide, a rare earth element used as a polishing material for glass substrates for HDDs. Using the materials technology gained from the development of film, Konica Minolta has successfully developed a way to separate and remove the glass particles from the waste liquid produced during the polishing process using a chemical agent. The system does not require large machinery, allowing recycling to be done quickly and at low cost.

