



Oki's products are eco-friendly throughout their entire life cycle from their design and production stages through to their disposal. Some eco-friendly product groups include products with unique features shown below.

Development of a printer capable of printing 500 times repeatedly on a single sheet of paper

Oki Information Systems Co., Ltd. is developing a printer (Ecopri) that can print repeatedly using special paper. Ordinary printers use toner and ink on OA papers, making it impossible to erase printed letters. With the Ecopri printer, however, "rethermal paper" is used, which makes it possible to erase the printed letters and reuse the paper for printing new content. For practical use, this printer can reprint letters or images on the same sheet of paper approximately 500 times, making the quantity of paper used "practically none." Further, since consumables such as toner and ink are not required, waste materials are virtually nonexistent.

The key component for this system that erases printed content and reuses the same paper for printing is the rethermal paper. Under normal conditions, the color of this paper is white. When this paper is heated, the color

changes to black, and slowly cooling the paper changes the color to white again. The property of the paper is also such that when the paper is first heated and then rapidly cooled, it remains black.

An Ecopri printer takes advantage of this property, and carries out erasing of printed content and printing on the same paper in the following manner. First, heating to a temperature of 110 to 150°C is carried out over the entire surface of rethermal paper, and the paper is then slowly cooled to erase the printed content. Next, heating to a temperature of 150 to 200°C is carried out for printing on only the letter and image portions of the paper's surface, and the paper is then cooled rapidly. The portions where heat was applied remains black, which means that a printed surface can be seen.



External view of "Ecopri"

Ecopri specifications

Printing method: Thermal printing

Paper size: JIS A4 size maximum

Print colors: One color selectable from blue, red, and black (by choosing particular papers)

Print resolution: 200 dpi

Printing speed: 8 sec./A4

Number of reprints: 500 times (on a single sheet of paper)

Erasing method: Heat roller method

Inquiry: eco-ois@oki.com

"Mizumonban" (Watergate keeper) manages water quality

"Mizumonban" refers to automatic measuring equipment operated remotely using a personal computer to monitor, in real-time, the quality of water discharged by production plants. This equipment was developed solely by Oki Environment Technologies Inc., and is being used to monitor water quality on a daily basis. The primary feature of this equipment is to continuously monitor three selectable types of ion concentration, such as ammonium or nitric acid, along with pH (hydrogen ion concentration).

Monitored data is continually transmitted to a personal computer at a department in charge of maintenance. If the monitored figures exceed the regulation figures, the abnormal state is detected and an emergency shut down signal is output using an alarm. Alarm information can also be sent to individual cellular phones.

For inquiries, dial +81-426-62-5611.



External view of "Mizumonban"