

Press information

Simultaneous Two-Color Printing with One Printhead

KYOCERA Develops World's Fastest 300dpi Inkjet Printhead

Kyoto/Neuss, 09 August 2012 – Kyocera Corporation announced that it has developed a new 300 dots-per-inch (dpi) inkjet printhead — a key component for commercial inkjet printers — which enables simultaneous two-color printing with just one printhead. With resolution of 300dpi, it offers the world's fastest printing speed*1 of 152m/min. Samples of the new product will be available within the year.

The new product achieves simultaneous two-color printing with just one printhead. This not only effectively halves the number of printheads required in the printer, but also reduces the number of parts required for wiring, contributing to equipment downsizing. In addition, it has achieved an effective print width of 112mm, the world's widest*2 for this type of printhead. Reducing the number of printheads used, even when wide-width printing is required, contributes to simpler equipment design and easier assembly.

The 300dpi model's nozzle configuration prevents the mixing of inks at the point of contact with the printed material — a potential problem when printing two colors simultaneously from the same printhead — ensuring that the new two-color printhead delivers quality printed images. Furthermore, the printhead has achieved the world's fastest print speed of 152m/min for a 300dpi printhead with simultaneous two-color printing, contributing to increased productivity through high-speed printing.

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To date, Kyocera has mass-produced 600dpi*4 and developed 1200dpi*5 inkjet printheads that achieve the world's fastest high-resolution print speed. By launching a new 300dpi printhead with the world's fastest speed and simultaneous two-color printing feature, Kyocera is responding to the needs of a wide variety of customers, including high-speed, high-resolution printing, equipment downsizing, cost reduction and reducing environmental burden to expand the possibilities of the digital printing industry.

*1 The world's fastest speed for a two-color simultaneous single-pass inkjet printhead at a print resolution of 300dpi (based on research by Kyocera; as of July 1, 2012).

*2 Among piezo electric inkjet printheads with 300dpi or higher (based on research by Kyocera; as of July 1, 2012).

*3 The world's fastest print speed for single-pass inkjet printheads with a printing resolution of 600dpi x 600dpi, a printing width of 4.25 inches and one head in feed direction (based on research by Kyocera; as of July 1, 2012).

*4 The world's fastest print speed for single-pass inkjet printheads with a printing resolution of 1200dpi x 1200dpi, a printing width of 108 inches and one head in feed direction (based on research by Kyocera; as of July 1, 2012).

For more information about Kyocera: www.kyocera.eu

About Kyocera

Headquartered in Kyoto, Japan, Kyocera Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the Kyocera Group, which is comprised of 235 subsidiaries (as of April 1, 2012), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the largest producers of solar energy systems worldwide, with more than 3,0 gigawatts of solar power having been installed around the world to date.

With a global workforce of about 71,000 employees, Kyocera posted net sales of approximately €10.83 billion in fiscal year 2011/2012. The products marketed by the company in Europe include laser printers, digital copying systems, microelectronic components, finceramic products and complete solar power systems. The Kyocera Group has two independent companies in the Federal Republic of Germany: Kyocera Finceramics GmbH in Neuss and Esslingen and Kyocera Document Solutions in Meerbusch.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at present €500,000 per prize category).

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