

Press Release

www.kyocera.eu

Enhanced device offers high-speed, high-resolution, full-color printing at 150 million dots per second

KYOCERA Develops World's Fastest Inkjet Printhead

Kyoto/ Neuss, 17 September 2009 — Kyocera Corporation today announced that it has developed the world's fastest* inkjet printhead — the key component in inkjet printing equipment. Each nozzle in the new KJ4 Series printhead ejects ink at up to 60,000 dots per second (at 60kHz drive frequency); with 2,656 nozzles per head, the device is capable of printing approximately 150 million dots per second.

Kyocera's previous inkjet printhead offered the world's fastest print speed when it was introduced in 2008 — 150 meters per minute at 600x600dpi resolution, using a drive frequency of 30kHz. The newly developed printhead sets new records for high resolution, full-color inkjet printing, offering the world's fastest print speeds in any of three resolutions: 600x360dpi (330m/min. at 40kHz), 600x600dpi (200m/min at 40kHz), and 1200x1200dpi (150m/min at 60kHz).

The new technology enabling this development was achieved by enhancing the drive frequency with Kyocera's unique elemental technology; making the interior ink channels more compact, optimizing the nozzle configuration, and improving the water-repellent coating on the printhead nozzle surface to prevent clogging, thus ejecting the ink more accurately.

In addition to speed, it provides the high resolution required in the commercial printing market, with a 50 percent improvement in ink-drop placement accuracy over Kyocera's previous model. And like the original, the new printhead maintains the world's broadest single-unit print width, at 4.25 inches — enabling convenient printhead arrangement. Collectively, these features reflect Kyocera's commitment to lead the digital on-demand market with

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continuous technological advancement.

Kyocera will display the new printhead at the [Japan Graphic Arts Show 2009](#) from October 6 through 10 at the Tokyo Big Sight.

*World's fastest drop-on-demand inkjet printing based on Kyocera testing as of August 31, 2009.

■ Product Information

Product Name	KJ4B-JF06 Inkjet Printhead
Size	200x25x59(mm) (Width x Depth x Height)
Production Site	Kagoshima Hayato Plant, Japan
Availability	Samples will be available in spring of 2010

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■ **Print Speeds by Resolution**

Resolution	Grayscale	Print Speeds	
		Conventional model	New model
600x360 dpi	Multiple-value	-	330m/min (40kHz) *World's Fastest
600x600 dpi	Multiple-value	150m/min (30kHz)	200m/min (40kHz) *World's Fastest
1200x1200 dpi	Binary	-	150m/min (60kHz) *World's Fastest

About Kyocera

Headquartered in Kyoto, Japan, the 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 comprises more than 200 subsidiaries (April 1st, 2009), are information and communications technologies, products to increase the quality of life, and environmentally friendly products. The technology group is also one of the largest producers of solar energy systems worldwide.

With a workforce of about 60.000 employees, Kyocera posted net sales of approximately €8.68 billion in fiscal year 2008/2009. The products marketed by the company in Europe include laser printers, digital copying systems, microelectronic components, finceramic products and complete solar systems. The corporation has two independent companies in the Federal Republic of Germany: the Kyocera Fineceramics GmbH in Neuss and Esslingen and the Kyocera Mita Deutschland GmbH in Meerbusch.

The company also takes a lively interest in cultural affairs. The Kyoto Prize, one of the most prominent international awards, is presented each year by the Inamori Foundation, once established by Kyocera founder Dr. Kazuo Inamori, to individuals and groups worldwide for their outstanding human achievement (converted at present €370.000 per prize category).

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