

## Ricoh Announces Development of New Industrial Printhead Using the thin film PZT actuator

**TOKYO, May 23, 2016** — Ricoh Company, Ltd. (President and CEO: Zenji Miura) has announced its development of a new inkjet printhead for industrial applications using its thin film (PZT) piezo actuator\*<sup>1</sup>. This new head will be displayed on Ricoh's stand in Hall 8a at Drupa from May 30<sup>th</sup> – June 10<sup>th</sup>.

This new head is driven by the high-stiffness actuator manufactured using Ricoh's unique Sol-Gel process\*<sup>2</sup>. This enables the application of high quality multi-drop control\*<sup>3</sup> as featured in the proven RICOH GH printhead series. The original highly integrated design utilizes RICOH's MEMS\*<sup>4</sup> technology to realize 600dpi resolution with 1,280 nozzles configured in 4 x 300dpi rows. Additionally, the ink paths are isolated, enabling a single head to jet up to four ink colors.

Ricoh has a long and rich heritage in the world of inkjet technology dating back over 30 years, which enables it to bring a wide variety of inkjet printing systems to market, whilst also supporting partners in diverse industrial and specialty markets from Wide Format Graphics to 3D Printing and from Textile to Digital Enhancements and many more.

Ricoh will introduce the new printhead through its own inkjet printers also promoting the adoption of this thin film PZT and MEMS technology to a wider range of industrial partners in order to meet increasing market demands.

\*1 A kind of piezoelectric transducers that creates mechanical deformation by the application of a voltage, used for jetting ink drops.

\*2 A method for producing solid material from the solution of raw materials.

\*3 A technology used for shading expression, making dot sizes variable by merging ink drops in flight.

\*4 Micro-Electro-Mechanical-Systems: a general term for miniaturized electro-mechanical devices or technology.

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Ricoh is a global technology company that has been transforming the way people work for more than 80 years. Under its corporate tagline – *imagine. change.* – Ricoh continues to empower companies and individuals with services and technologies that inspire innovation, enhance sustainability and boost business growth. These include document management systems, IT services, production print solutions, visual communications systems, digital cameras, and industrial systems.

Headquartered in Tokyo, Ricoh Group operates in approximately 200 countries and regions. In the financial year ending March 2016, Ricoh Group had worldwide sales of 2,209 billion yen (approx. 19.6 billion USD).

For further information, please visit [www.ricoh.com](http://www.ricoh.com)