

Ricoh launches a new industrial inkjet printhead [RICOH TH5241](#)

Adding a printhead that uses a thin film piezo actuator to its lineup

TOKYO, Japan – *June 1st, 2020* – Ricoh Company, Ltd., (Tokyo, Japan) today announced the launch of a new industrial inkjet printhead RICOH TH5241 which will be available globally from June 1st, 2020.

The new printhead is the first Ricoh printhead that uses a thin film piezo actuator^{*1}(PZT). It is one of the new RICOH TH industrial inkjet printhead series and joins the already successful lineup of RICOH MH/RICOH GH series printheads.

By using MEMS^{*2} technology, Ricoh's unique design means the RICOH TH5241 is a compact printhead with 320 x 4 rows of 1,280 nozzles^{*3}. In addition, high-definition printing of up to 1200 dpi can be achieved by jetting fine droplets. Also, ink paths for each nozzle row are isolated, enabling a single printhead to jet up to four ink colors. The printhead has compatibility with all ink types including UV, solvent, and aqueous and can be used for various industrial applications such as sign graphics, textiles and labels.

In addition, as the printhead is compact yet combines durability with stable jetting, it can easily be used in different kinds of printing systems and will help customers easily develop their own printing systems.

In the industrial printing market, there is an increasing demand to meet a variety of customer needs for sign graphics and textiles such as smaller run sizes and shorter delivery times. This has resulted in the rapid digitalization of industrial printing which can deliver greater flexibility and productivity. It has also seen increasing demand for inkjet printheads that enable high-resolution printing and even higher productivity.

By introducing this new printhead, Ricoh will meet these market needs. Ricoh will support our customers' printer development programs and contribute to social issues by providing solutions for clothing, food and housing.

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

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

*3 There are two sets of 600dpi with a staggered arrangement of 300dpi nozzles per row.

Model name	RICOH TH5241
Number of nozzles	1,280 staggered
Nozzle Resolution	600dpi(2 colors, 1 color) 300dpi(4 colors)
Jetting frequency	40kHz (2 levels) 24kHz (4 levels)
Drop volume	3/6/12pl depending on ink
Compatible ink	UV, Solvent, Aqueous
External printhead dimensions	Width: Approximately 52.7mm Depth : Approximately 45.4mm Height: Approximately 55.4mm
Start date of order	June 1, 2020



RICOH TH5241

Ricoh will exhibit the RICOH TH5241 at the JIVM2020 - JAPAN INKJET VIRTUAL MESSE, which will be held online from Monday, June 1, 2020 to Friday, July 31, 2020.

Outline of online exhibitions

Name: JIVM2020 - JAPAN INKJET VIRTUAL MESSE
 Session: From Monday, June 1 to Friday, July 31, 2020
 Venue: On-line (<https://ohno-inkjet.com/?p=31210>)
 Sponsored by: Ohno Inkjet Consulting

To join webinars hosted by Ricoh, click here for a full schedule and for details how to apply <https://industry.ricoh.com/business/industrial-printing/>

Related links

Introduction to RICOH TH5241: <https://industry.ricoh.com/en/industrialinkjet/th/5241>
 Introduction video to RICOH TH5241: <https://youtu.be/d2BUiZKnqjA>

For further information, please contact:

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| About Ricoh |

Ricoh is empowering digital workplaces using innovative technologies and services enabling individuals to work smarter. For more than 80 years, Ricoh has been driving innovation and is a leading provider of document management solutions, IT services, commercial and industrial printing, digital cameras, and industrial systems.

Headquartered in Tokyo, Ricoh Group operates in approximately 200 countries and regions. In the financial year ended March 2020, Ricoh Group had worldwide sales of 2,008 billion yen (approx. 18.5 billion USD).

For further information, please visit www.ricoh.com

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