**Industrial Inkjet** 



# RICOH MH5420/5440



## Single-pass 600dpi high-resolution printing and support for multiple ink colors

With 1,280 nozzles configured in 4 x 150dpi rows, this head achieves high-resolution 600dpi printing. Additionally, the ink paths are isolated, enabling a single head to jet up to four ink colors.

## Excellent durability and extended service life

Ricoh inkjet print heads are made of stainless steel. These heads are highly robust and offer excellent anti-corrosion properties for multiple inks, resulting in excellent durability and extended service life.



## Support for different inks

With its built-in heater, these heads are capable of jetting high-viscosity inks. Additionally, the ink path is isolated from the actuator (piezo elements), i.e. no ink contact

## Support for grey-scale

Achieves excellent gray-scale rendering with up to 4 scales per dot.

### Variable drop volume capability

The multi-drop capability allows the creation of a range of drop sizes enabling grey-scale printing.

## Inkjet head with support for multiple nozzles and colors

Choose from two-color or four-color models to suit your application.

## MH5420 (two-color model)



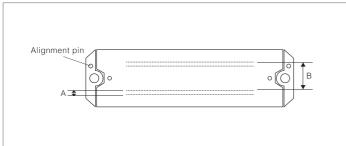
## MH5440 (four-color model)



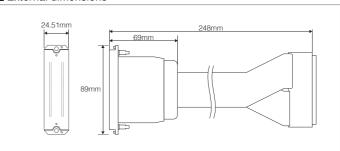
	MH5420	MH5440	
Method	Piston pusher with metallic diaphragm plate		
Print Width	54.1 mm(2.1")		
Number of nozzles	1,280 (4 x 320 channels), staggered		
Nozzle spacing (4 color printing)	1/150"(0.1693 mm)		
Nozzle spacing (Row to row distance)	0.55 mm		
Nozzle spacing (Upper and lower swath distance)	11.81mm		
Compatible ink	UV, Solvent, Aqueous, Others.		
Total printhead dimensions	89(W) × 69(D) × 24.51(H) mm (3.5" × 2.7" × 1.0") excluding cables & connectors		
Weight	155 g		
Max.number of color inks	2 colors	4 colors	
Operating temperature range	Up to 60°C		
Temperature control	Integrated heater and thermistor		
Jetting frequency	Binary mode : 30kHz / Grey-scale mode : 20kHz		
Drop volume	Binary mode: 7pl / Grey-scale mode: 7-35pl *depending on the ink		
Viscosity range	10-12 mPa·s		
Surface tension	28-35mN/m		
Grey-scale	4 levels		
Total Length	248 mm (standard) including cables		
Ink port	Yes		
Number of ink ports	MH5420 : 2 × dual ports / MH5440 : 4 × dual ports		
Alignment pin direction	Front (standard)		

<sup>\*</sup> Results obtained from continuous jetting test using standard Ricoh test ink.

### ■ Nozzle



### ■ External dimensions



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