


Industrial Inkjet

RICOH MEDIA FREE EVALUATION SYSTEM

RICOH
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The unique media free evaluation system is designed to test long term jetting stability by focusing primarily on the printhead and fluid interaction.

Media Free

Designed and built by Ricoh, this set-up has a single printhead mounted over a continuously rotating glass drum monitored by two CCD cameras. Printing to the drum, the camera views print before it rotates through a wiper to clear ready for more print. Furthermore, the system is compatible with various fluid types (UV, Water Based, Solvent and Oil).

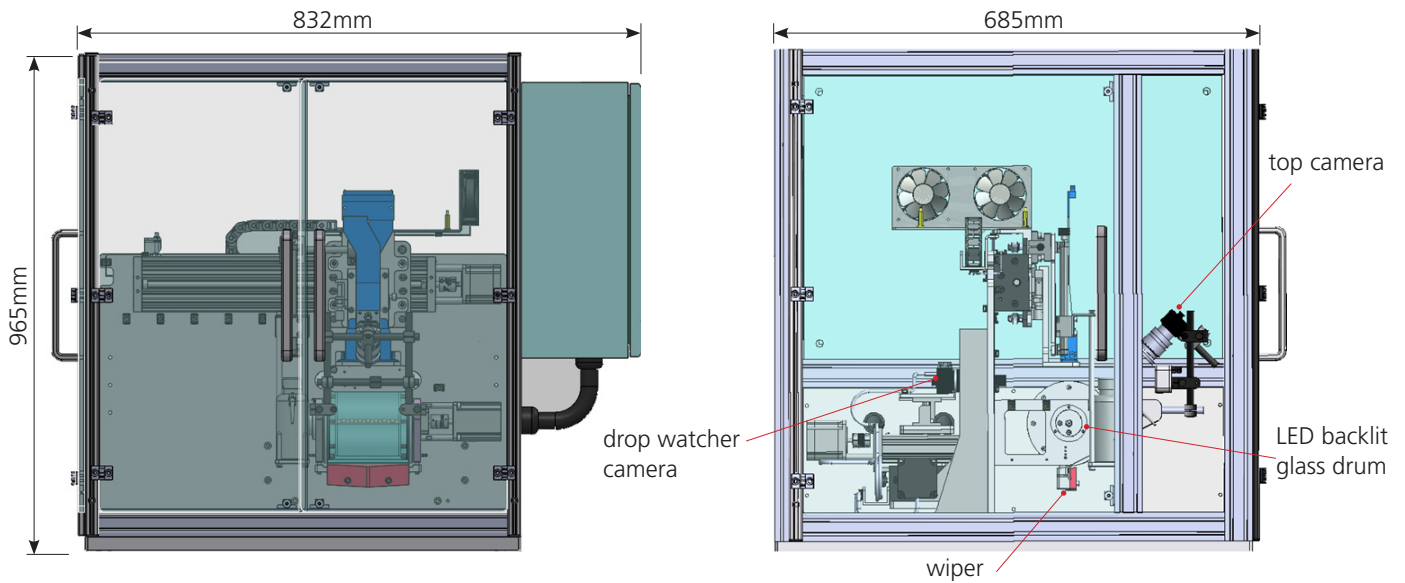
Data Driven

A software automatically and continuously counts print flaws - missing or deviating nozzles. The resulting data gives a thorough and objective assessment of jetting reliability with a consistent method, for any tested combination, answering questions that any inkjet player, end-users included, needs to know on system stability.

Versatile

The system is designed to be independent of printhead and drive electronics. Using specifically designed mounting brackets, other OEM printhead models can be evaluated with a choice of drive electronics. This maximises the benefits of this powerful tool for a wide range of Research and Development activities.

Featuring an innovative LED backlit precision machined technical glass drum for versatile fluid evaluation.



	Items
Drum characteristics	
Rotation Speed	100mm/sec – 1500 mm/sec
LED Backlit	Colours Full RGB internal illumination (Over 16.5million combinations – 255 x 255 x 255)
Camera	Full Colour, resolution 720 x 456, frame rate 40FPS, USB3.0
Material	Precision machined technical glass, polished
Dropwatcher characteristics	
Camera	Monochrome, resolution 1440 x 500, frame rate 150FPS, USB3.0
LED Strobe	Matched to CMOS sensor light wavelength
Motion Control	
Type	24V Stepper motor with 10µm/step resolution
Positions	Programmable printhead position for maintenance, print and camera focus
Special Characteristics	
Image processing	Built-in real-time calculations of droplet size, position, volume, circularity, ligament separation
Data analysis	Statistical data analysis pack (Mean, Standard Deviation, CpK, Variance) with chart display
Automation	
Programmable Interface	Simple to use programmable interface using ' BASIC ' style scripting language.
Reports Automation	Automatically create charts, text reports and spreadsheet data based upon user requirements.

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