

INKJET PRINTING

ENHANCEMENTS FOR LP50 INKJET PRINTER

OPTIONAL FEATURES FOR REFINING
PROCESS DEVELOPMENT





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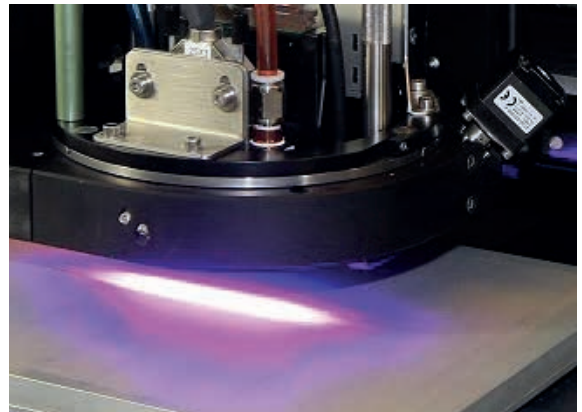
GETTING THE BEST OUT OF YOUR APPLICATION DEVELOPMENT

The PiXDRO LP50 desktop inkjet printer is designed for research and development of inkjet process, applications, and inkjet materials. To further enhance the usage and performance of the LP50, several optional features are available to fulfill specific printing and process requirements

KONICA MINOLTA PRINTHEADS WITH INLINE UV CURING MODULE

The Konica Minolta KM512 and KM1024i printhead series can be combined with an inline Phoseon UV LED curing module in the printhead assembly. This enables precise printing and curing in one movement. It allows users high flexibility and control in tuning their processes. The KM512 and KM1024i printheads provide reliable high frequency and high resolution printing.

- + Compatible with all KM512 and KM1024i printhead configurations, with dropsizes 4 - 42 pL
- + Air- or water-cooled Phoseon UV LED sources, with wavelengths 365 - 405 nm



DMC PRINTHEAD CARTRIDGE MODULE

The DMC printhead module enables cost effective process research with the Fujifilm Dimatix disposable printhead cartridges. The DMC module is completely integrated and can be controlled from the printer's user interface software just like other printheads.

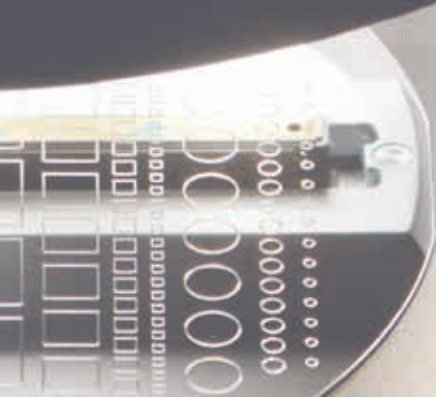
- + Compatible with DMC printhead cartridges (5 pL)
- + Fast and easy exchange of printhead cartridges and ink

CANON HOTMELT PRINTHEAD MODULE

The Canon hotmelt printhead module enables the fast and precise printing of hotmelt inks. This feature is especially suited for etching and plating masking applications, such as chemical milling of micro-mechanical parts and connector gold-nickel plating.

- + Supports the Canon CrystalPoint C29 printhead, with heating up to 145°C
- + Automated feedback of individual nozzle performance for real-time monitoring of printing quality





SAMBA G3L PRINthead AND RECIRCULATION MODULE

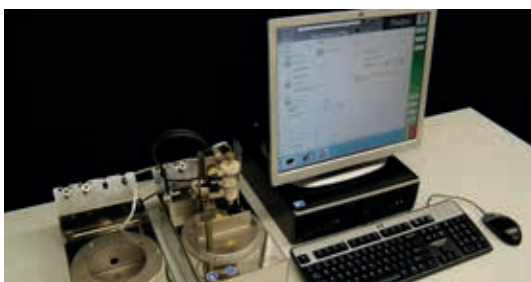
The Samba printhead module is the most advanced functional inkjet technology available today, and enables extremely precise and fast printing. The module includes dedicated driver electronics and an ink recirculation unit for accurate temperature control and steady ink supply. An inline UV LED curing module is also available, enabling printing and curing in one movement.

- + Features the Fujifilm Samba G3L printhead with tunable drop sizes (nominal 2.4 pL), and optional inline Phoseon UV LED source (wavelengths 365 - 405 nm)
- + Includes proprietary PiXDRO continuous ink recirculation unit

XAAR PRINthead MODULE WITH INK RECIRCULATION

In cooperation with Xaar, the LP50 offers an R&D inkjet printing platform that enables fluid developers and OEMs working in a variety of applications such as printed electronics, photovoltaics, OLEDs and bio-medical. This module is especially designed for printing inks that exhibit sedimentation behavior and need a recirculating ink supply.

- + Compatible with Xaar 1003 printhead series, suitable for heavily filled nanoparticle inks
- + Standalone recirculation system allows continuous ink flow, also when not printing



JS20 PRINthead STORAGE STATION

The standalone JS20 printhead storage station is designed for temporarily storing printhead modules, and keeping the printhead nozzles active by jetting ink at a very low frequency. It gives the user the flexibility to work with multiple printhead modules and inks without the need to clean the printheads after each usage.

- + Avoids clogging of nozzles by keeping the printhead active at low jetting frequency
- + Compatible with Konica Minolta and Fujifilm Dimatix printheads

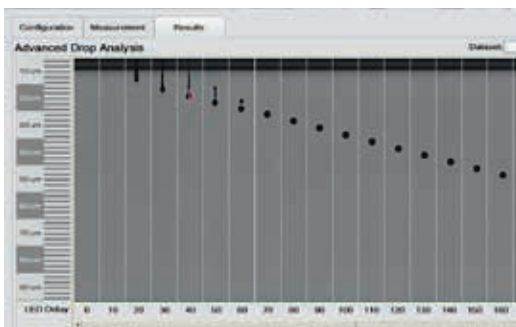
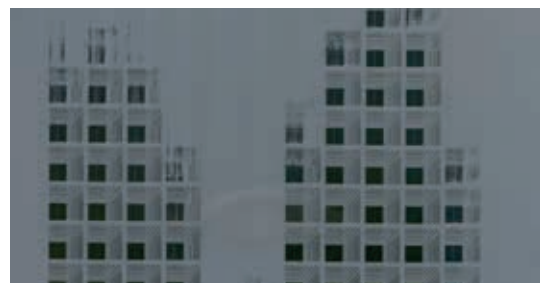


OPTIONAL SOFTWARE ENHANCEMENTS

AUTOMATED PRINT OPTIMIZATION

The Automated Print Optimization (APO) unlocks the full potential of the printer by providing quick access to the various advanced print strategies. The automated print routine generates a matrix of patterns on a substrate based on the variation of pre-selected input parameters, enabling the operator to rapidly find the optimal settings for his application.

- + Fast and effective print quality analysis
- + Automatic variations of selected parameters enabling the best possible print quality



ADVANCED DROP ANALYSIS SOFTWARE

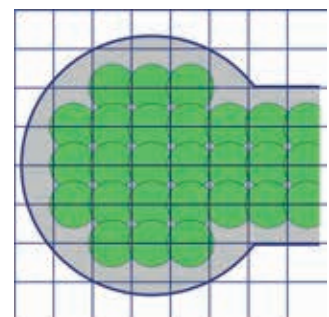
Advanced Drop Analysis (ADA) enables fully automated multi-dimensional research of the ink drop formation. It allows the user a fast and efficient optimization of the jetting performance for specific inks and printheads, to achieve best printing results on the substrate.

- + Automatic and advanced experiment sequencing
- + Visual and quantitative analysis of drop formation, angle, speed and size

ADVANCED GERBER FILE RASTERIZER

The Advanced Gerber File Rasterizer enables the conversion of Gerber files to an inkjet bitmap format. The software package enables accurate patterning of masking layers, interconnection circuits and many other applications. The rasterizer minimizes rounding and pixelization errors, and can conserve the minimum feature sizes of the original design.

- + Fast, robust and high-resolution on-the-fly file conversion
- + Advanced drop size compensation, ink coverage control and narrow line recovery for accurate printing pattern



Data, design and specification depend on individual process conditions and can vary according to equipment configurations. Not all specifications may be valid simultaneously. Illustrations, photos and specifications in this brochure are not legally binding. SUSS MicroTec reserves the right to change machine specifications without prior notice.



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