

Merlin™ D Controller

General Purpose
Print Controller



Merlin D Controller



Optional Touch Screen

Features:

- Supports up to 8 Spectra® 256-jet printheads
- Single trigger, narrow lane or contiguous image to 20 inches
- Panel-mounted enclosure
- Ideal for printing, deposition and decorative applications
- Multiple jetting fluids supported
- Support for monochrome, spot and full color
- Operates standalone or via line control interface
- Optional touch screen operator interface
- Accepts industry standard file formats

The Dimatix Print Systems™- Merlin D is a general-purpose, panel-mounted, industrial ink jet print controller that supports a variety of configured printhead clusters. The controller is capable of driving either a 4-head single printhead cluster comprised of up to 8 Spectra® 256-jet printheads or up to 4 single canister style printheads.

In addition to accommodating a variety of printhead cluster options, the versatile design of the Merlin D can be configured to support many jetting fluid types, making the unit ideal for printing, deposition and decorative food and non-food applications.

The controller enables the printhead clusters to be operated in several print modes including narrow and multi-color lane. The controller has input for a single product trigger. Contiguous images of up to 20-inches wide, and various printhead orientations are possible.

The Merlin D design allows easy integration and placement with an existing manufacturing production line. Fluid and electrical umbilicals connect the controller to the printhead clusters. Umbilical lengths are available in lengths of up to 35 feet. This affords easy reach to inaccessible or high positions on the production line.

The controller may be operated in a stand-alone, or operated via standard industrial line control interfaces.

An optional user interface monitor and keyboard allows for the local access and control of functional parameters through a graphical user interface (GUI). The GUI is based on the Microsoft-Windows™ XP operating system. All system features are accessible through easy to use and intuitive menus using touch-screen capability.

The unit is constructed of rugged stainless steel and is designed to NEMA standards. The panel-mounted cabinet houses all printhead-tending functions including CPU, drive electronics, pneumatics, and ink delivery systems. It is completely self contained and requires nothing additional beyond standard electrical power.

Standard file formats accepted by the Merlin D include TIFF, JPEG, EPS, AI, PSP and BMP.

Optional, quick-release umbilical cables are offered to interconnect the Merlin D controller to the desired printhead clusters and are designed to accommodate specific fluid jetting characteristics and agency regulation requirements.

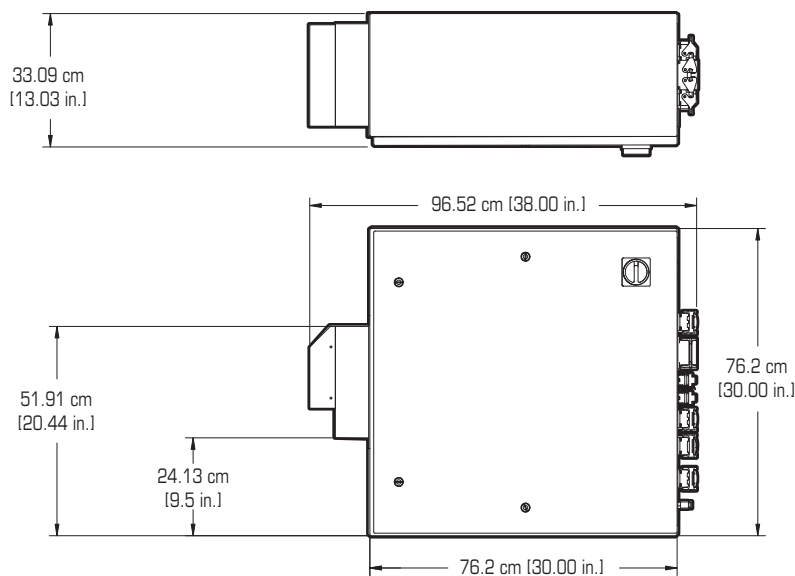


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Parameter	Merlin D Controller
Product transport speed	Up to 150 m/min (500 ft/min) or 20kHz jetting frequency
Supply power	Universal input (90/240V 50/60Hz) 15 amps
Number of colors (fluids) supported	Four (process, spot or monochrome)
Head clusters supported	One cluster (up to 8X jet printheads) or 4 single canister style heads
Graphic user interface	(Optional) touchscreen with keyboard and mouse
Product trigger sensor inputs	One [12V NPN]
Product transport encoder inputs	One [12 V differential quadrature]
Input image file format	Most graphic files [TIFF, JPEG, EPS, AI, PSP, BMP etc]
Printed image file format	TIFF
Control system	Windows™ XP OS
Humidity	10-80% non-condensing
Ambient temperature	15-27° C [60-80° F]
Ink Type(s)	Liquid [UV, solvent UV, solvent, aqueous, oil, food grade glycol]
Enclosure Construction	Stainless steel NEMA design
Electrical and fluid connections	Quick disconnect
Altitude	< 3000 ft above sea level

*Other configurations available.

Physical Dimensions



Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.



Corporate Office:
FUJIFILM Dimatix, Inc.
2230 Martin Avenue
Santa Clara, CA 95050
USA

Tel: (408) 565-9150
Fax: (408) 565-9151
Email: info@dimatix.com

New Hampshire Facility:
FUJIFILM Dimatix, Inc.
109 Etna Road
Lebanon, NH 03766
USA

Tel: (603) 443-5300
Fax: (603) 448-9870
Email: info@dimatix.com

Japan Office:
Advanced Marking Business Division
FUJIFILM Corporation
Midtown West, 7-3, Akasaka 9-Chome
Minato-ku, Tokyo 107-0002
Japan

Tel: +81 3 6271 1091
Fax: +81 3 6271 1165
E-mail: front.ambd@fujifilm.co.jp

European Office:
Tel: +44 7739 863 505
Fax: +44 870 167 4328
Email: euro@dimatix.com

Korean Office:
Tel: +82 2 6242 6012
Fax: +82 2 6242 6012
Email: korea@dimatix.com

China Office:
Email: china@dimatix.com