Mercury™ Development Kit

Mercury Development Kit

The Mercury Development Kit is designed to help users quickly and easily evaluate the full range of capabilities of Dimatix Q-class printheads.

The Mercury Development Kit system includes printheads, drive electronics, and software that are easily installed on a user-supplied personal computer. The software includes all required drivers, waveform, and configuration files. The drive electronics include power supplies, printhead personality cards, and I/O functionality for head tending and heater control.

The kit supports either up to four 256-jet Sapphire and Emerald printheads or up to two 512-jet Polaris printheads. It can provide temperature control for two thermal zones per printhead.

The Mercury Development Kit also supports full VersaDrop™ capabilities, including native drop, binary multipulse and grayscale operation.

The Mercury is easily integrated with other development tools such as drop watchers and web drives. The compact design requires minimal bench space.
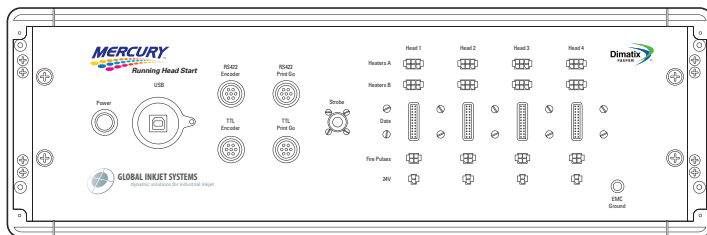
The comprehensive support package includes a quick-start guide, user documentation, phone support, and a one-year warranty.

Features:

- Supports Polaris, Sapphire and Emerald printheads
- Support for up to 4 Q-Class printheads
- Full VersaDrop support
- Up to 4-color printing
- Ability to print images and jetting patterns
- Support for head mount integration
- Quick to install
- Easy to learn and use
- Scalable to production intent

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Parameter	Mercury Development Kit
Maximum drive frequency	80 kHz (printhead dependent)
Supply power	AC power source IEC with country specific cable
Number of printheads supported	up to 2, 512-jet or 4, 256-jet Q-Class printheads
Number of colors	1 or 4-color printing
Fire pulse	programmable amplitude, width, rise and fall time
Fire pulse channels	up to 8
Printhead heater control	20 - 70° C (operating) 15 - 50° C (ambient)
Operating System	Windows™ XP SP3, Windows™ 7 64-bit
Image file format	1-bpp BMP, 4-bpp BMP
Operating temperature	10 - 40° C
Weight	approximately 12.8 kg [28.3 lbs]

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Physical Characteristics

Housing Dimensions:

Height	171.45 mm	[6.75 in.]
Width	527.05 mm	[20.75 in.]
Depth	425.45 mm	[16.75 in.]

Models & Product Options

Product Options

- 15, 35, 85 picoliter Polaris 512-Jet Printheads (200 dpi)
- 15, 35, 85 picoliter Polaris 512-Jet Two-Color Printheads (100 dpi)
- 10, 30, 80 picoliter Sapphire 256-Jet Printheads
- 30, 80 picoliter Emerald 256-Jet Printheads
- Head Mount

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.

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