FlexSystems™
Specialty
Inkjet Products

iM2 Jet Printer
UV Curable Inkjet Solution

iM2 Jet Printer - UV Curable Inkjet Solution

The high resolution iM2 printer provides a versatile, cost-effective solution to meet the need for variable data printing on a range of coated and uncoated substrates. Capable of printing addresses, barcodes, 2D codes, QR codes, numbering, logos and graphics, the iM2 is suitable for mailing and addressing applications, as well as labels, tickets, security, plastic cards and business form applications.

Equipped with industrial high-resolution and high-speed Ricoh Gen 5 DOD (Drop On Demand) piezo electric print heads and based on Inc.jet's proven print technology, the iM2 UV curable inkjet printer produces stunning clarity at high speeds with ease of operation.

Print at High Speed on Any Material in Incredible Quality

■ Low Cost, UV Curable Ink

The iM2 system uses UV curable ink that has advantages of excellent hardness and durability. The ink can be used to print on a wide range of coated or uncoated substrates, including porous and glossy paper, plastic cards, and metals. Ink costs are very low compared to traditional HP technology.

■ High Resolution, High Quality

The iM2 supports up to a 600 dpi vertical resolution and a maximum of 1200 dpi horizontal resolution giving you maximum quality at all times; there is little that cannot be printed with incredible sharpness.

■ Ultra Fast Speed

For all your graphics and mail applications the IM2 is capable of ultra fast speeds up to 2.5 times the speed of HP technology.

Resolution Vert. x Horz.	Maximum speed *	
	Feet per Minute	Meters per Minute
600 x 600	330	100
600 x 400	500	150
600 x 300	660	200

* speeds may vary with ink type and drop size

Easy integration and Operation for Maximum Productivity

■ Simple Integration

The very small footprint and modular design of the iM2 means that it is easily and quickly integrated into mailing lines, webs and card lines. With all the printer electronics and ink delivery systems built into the printhead assembly the iM2 offers great flexibility to be combined with different technologies, such as feeding, UV curing, & camera inspection.
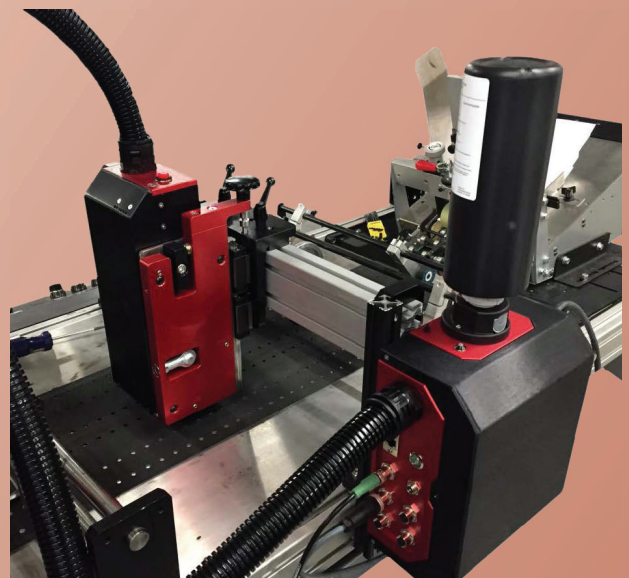
■ Maximum Uptime

The iM2 system is designed for maximum uptime and productivity:

- ■ The warm up time has been developed to be as quick as possible. Print ready can be achieved within minutes.
- ■ Print head purging is easy. With print head mounting brackets moving between off-line purging and printer ready position, fast make ready can be achieved effortlessly.
- ■ Job changeover is possible within seconds.

■ Powerful FlexMail Software

The FlexMail software makes it easy to create any design you may need with texts, barcodes and graphics. All pinter setup functions are available from within the software.

FlexMail allows you to setup read-and-print, print-and-verify and matching applications.

All-in-One Solution

The iM2 Jet is delivered as an all-in-one solution. Print head with bridge and ink delivery system, encoder, trigger sensor and, optionally, a LED UV curing station. All in one very compact package. No bulky ink supply systems that take up floorspace. No additional controller: the system is run by FlexMail from any PC.

Simplicity is key to the iM2 design. All of the critical components are housed within the industrial print head - the print head, ink delivery systems and -single board- drive electronics. With no external air requirements, the complexity of the installation has been greatly reduced.

Print Head Module

- DOD piezo electric inkjet print head.
- 2.13" (54mm) print width.
- Multiple print heads can be daisy-chained.
- 600 dpi vertical print resolution.
- Up to 1200 dpi horizontal print resolution.
- Drop size from 7 pl, 14 pl or 21pl.
- UV-curable ink.
- Includes bridge to mount print module on transport. Head fully adjustable in 3 axis.
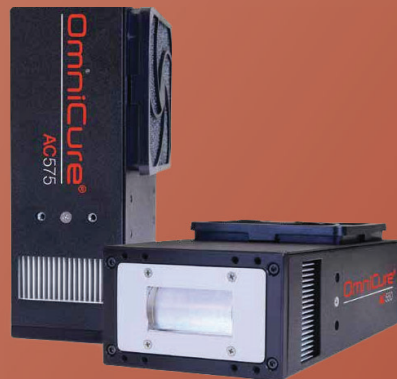
Ink Delivery and Control Unit

- Automatic pressurized ink supply system with 1 liter ink reservoir.
- Ink bottle change without stopping the printer.
- Ink empty indicator.
- Includes power supply to power print modules.
- Encoder and sensor connectors.
- 2 inputs.
- 3 outputs to facilitate controlling of dryers, feeders, stackers and the like.
- Gigabit Ethernet connection to PC.

UV LED Curing System

- Air cooled, compact LED curing system.
- Optimized for print applications.
- Easy to clean.
- Includes mounting brackets.
- Height adjustable.

FlexMail Print Control Software

- FlexMail can be installed on any PC to control the iM2.
- Reliable and fast TCP/IP connection;
- Capable of connecting to any database.
- Print fixed or variable texts, barcodes and graphics.
- Supports Read-and-Print, Print-and-Verify and matching applications.

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FlexMail™

iM2 Jet Printer Specifications

Print Module

Printing Specifications

Technology	DOD piezo electric print head
Printing width	2.13" (54 mm)
Inks	UV Curable ink
Native resolution	600 dpi (vertical)
Drop size	7, 14, 21 pl.
Frequency	7 pl at 50 kHz, 14 pl at 40 kHz, 21pl at 30 kHz
Print speeds	At 600 x 600 dpi: 330 ft/min (100 m/min) At 600 x 300 dpi: 660 ft/min (200 m/min)

Physical

Dimensions	W 8.8" x L 3.6" x H 12.4" W 225 mm x L 93 mm x H 315 mm

Ink Delivery and Control Unit

Ink

Bulk ink reservoir	1 liter bottle

I/O

Encoder	12V PNP, dual channel, 300 PPI
Sensor	12V PNP
Inputs	2 inputs, 9 - 24V
Outputs	3 relay outputs
Connection to PC	Gigabit Ethernet

Pysical

Power	110 / 220 VAC
Dimensions	W 6.5" x L 4.8" x H 10.0" W 165 mm x L 122 mm x H 254 mm

UV LED Curing System

Characteristics

Peak irradiance	>14W/cm2, 395 nm, air cooled
Emitting window	3.0" x 1.0" (75 mm x 25 mm)

Physical

Power	110 / 220 VAC
Dimensions	W 2.7" x L 4.3" x H 7.5" W 68 mm x L 110 mm x H 190 mm

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Mail & Print Solutions