



IU-1000F



Specifications		
Printing method		Piezo ink-jet method
Media	Maximum size	2,510 × 1,310 mm (98.8 × 51.5 in.)
	Maximum thickness	110 mm (4.33 in.)
	Maximum weight	45 kg/m ² (99 lbs/m ²)
Maximum printing area		2,500 (width) × 1,300 (length) mm (98.4 × 51.1 in.)
Ink	Type	UV Curable Ink (UE, US)
	Color	Six colors (cyan, magenta, yellow, black, white, and gloss) and primer
	Ink bottle capacity	CY, MG, YE, BK, GL, PR : 1,000 ml WH : 900 ml (US-WH), 850 ml (UE-WH)
	Ink tank capacity	2,500 ml per color
Ink curing unit		UV-LED lamp
Print resolution (dots per inch)		Max. 635 × 1,800 dpi
Media vacuum system		Up to four vacuuming areas with adjustable vacuum pressure
Connectivity		USB 3.0
Power requirements		EMEA 25 A 3-phase 400 V NA/JPN 30 A 3-phase 220 V
Dimensions		4,812 (W) × 2,200 (D) × 1,580 (H) mm (189.4 × 86.6 × 62.2 in.)
Weight		1,436 kg (3,166 lb)
Environment	Temperature	15 to 30 °C (59 to 86 °F)
	Humidity	40 to 80 %
Included items		USB cable, paper towel, cleaning kit, CD manuals, software installation CD, etc.
Acoustic noise level		75 dB (A) or less

Software System Requirements		
Print control (bundled)	OS	Windows® 7/10 (64 bit)
	CPU	Intel® Core™ i5, 2 GHz or more
	RAM	8 GB or more
	Video card and monitor	A resolution of 1,152 × 854 with 16 bit color or higher
	HDD	Install space 1 GB or more Working space 100 GB

Consumables		
Standard UV Ink	US-CY	Cyan, 1,000 ml
	US-MG	Magenta, 1,000 ml
	US-YE	Yellow, 1,000 ml
	US-BK	Black, 1,000 ml
	US-WH	White, 900 ml
	US-GL	Gloss, 1,000 ml
	US-PR*	Primer, 1,000 ml
Specialty UV Ink	UE-CY	Cyan, 1,000 ml
	UE-MG	Magenta, 1,000 ml
	UE-YE	Yellow, 1,000 ml
	UE-BK	Black, 1,000 ml
	UE-WH	White, 850 ml
Maintenance Kit	IU-MNTKIT	Carriage filter 8 Pcs. Absorber 6 Pcs.
Cleaning Kit	IU-CLKIT	Box of paper towels 1 Pcs. (50 sheets) Box of non-woven fabric 1 Pcs. (100 sheets) Polyethylene gloves 7 Prs. Nitrile rubber gloves 14 Prs. Cleaning sticks 12 Pcs.
Cleaning Liquid	US-CL	Cleaning liquid, 500 ml

*Primer ink adhesion may vary depending on substrate and conditions.
Testing ink adhesion in prior to production is recommended.

This device is capable of printing on a wide variety of substrate. However, the print quality or the ink adhesion may vary according to the substrate used and it is strongly recommended to test the substrate for compatibility to ensure optimal print results.



Vaporised components may slightly irritate the eyes, nose and/or throat during and following printing with this product. If continuously printing in a closed space, the density of volatile compositions will accumulate and may irritate the eyes, nose and/or throat. Roland DG strongly recommends that you install a ventilation system and use this product in a well-ventilated room. For more information, please contact your local distributor or dealer.

Roland DG reserves the right to make changes in specifications, materials, or accessories without notice. Actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. Windows are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries. All other trademarks are the property of their respective owners. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement.

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There are no limits



IU-1000F

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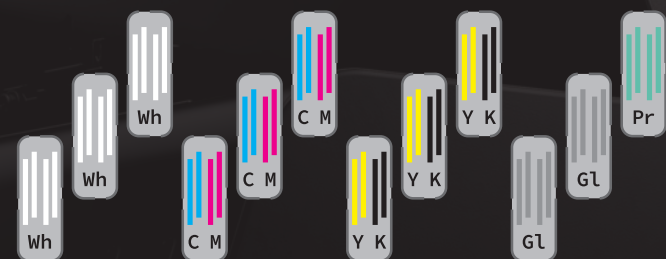
There are no limits

Performance 01 | Ultimate Productivity

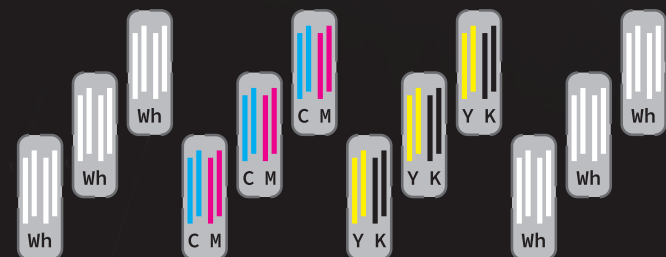
Reliable productivity for responding to short delivery times

The IU-1000F achieves wide-pass printing thanks to 12 high-performance inkjet printheads in a staggered 3-row arrangement. Printing time for a typical 4' x 8' (1,220 x 2,440mm) size rigid board averages about 15 boards per hour in the everyday Standard four color print mode. When printing CMYK and white layers at the same time, the Double White configuration can print approximately 6 boards per hour in Standard print mode for quick delivery.

Standard Configuration



Double White Configuration



Performance 04 | High Profitability

Low running cost

The IU-1000F can effectively print very small ink droplets, so that even with images that require smoothness such as fine gradations, the amount of ink consumed is minimal compared to using light color inks, achieving high-quality image while limiting ink consumption. Furthermore, by adopting UV-LED lamps versus a conventional UV lamp system to cure the ink, the IU-1000F achieves energy savings, longer lamp life, and reduced downtime for maximizing profitability.



Performance 02 | High Image Quality

Precision printing technology to meet high quality requirements

12 high-definition print heads with 1,280 nozzles per unit produce high-resolution printing of up to 635 x 1,800 dpi at high speed. Variable dot printing technology can simultaneously fire droplets of 5 pl (picoliters), 7pl, and 15 pl, achieving high-definition images, smooth gradations, and high-density solid color printing all at the same time.



Inline ionizer equipped

The IU-1000F incorporates an ionizer mounted inline on the print carriage to remove static electricity from the media surface, achieving precision droplet-firing accuracy and high-quality printing results.



Performance 05 | Ease of Use

User-friendly product design

The IU-1000F is equipped with media vacuum functions divided into 4 sections on a flat bed, which supports efficient and easy media loading. In addition, media alignment pins are installed at the corners of the flat bed, which allows media replacement operation to be completed in a minimum amount of time.

The ink tanks and operation console are located on the front of the product body, enabling efficient product operation.

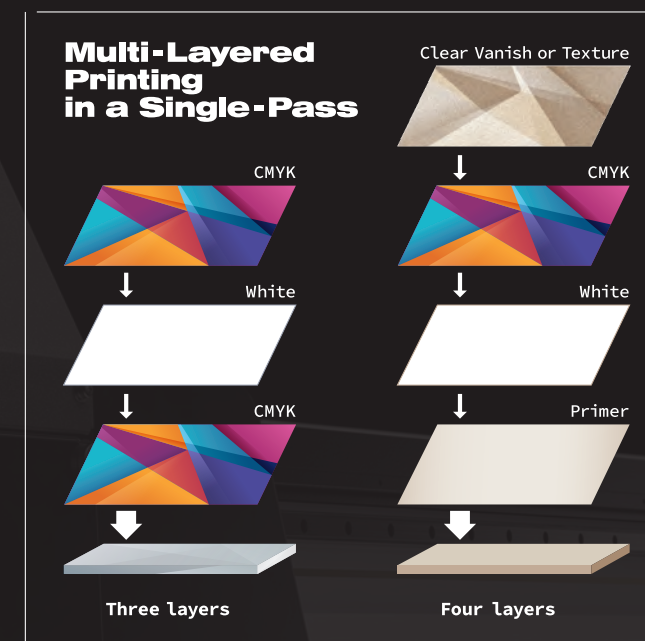


The digital printing industry is increasingly changing and diversifying, demanding speed, accurate color fidelity, creative print expressions, and the ability to handle a wide range of materials on demand. For peak performance and unlimited printing possibilities, the IU-1000F is a robust solution for accelerating your business success in this challenging environment.

Performance 03 | Wide range of creative versatility

Various print expressions

The IU-1000F offers white, gloss, and primer inks to support a wide range of printed applications. Highly opaque White ink can be used for applications that add unique designs to colored materials, and to make CMYK colors stand out on transparent acrylic. Clear gloss inks can be used for printing textures, raised effects like simulated embossing, and glossy spot varnish, too.



High Performance UV Inks

The exclusively developed high-adhesion UV inks enables the IU-1000F to print on a wide range of substrates, including acrylic, PETG, PVC, foam board, PC, wood, corrugated PP, aluminum plate, and even on metal and glass that are generally difficult to adhere to by using primer ink.



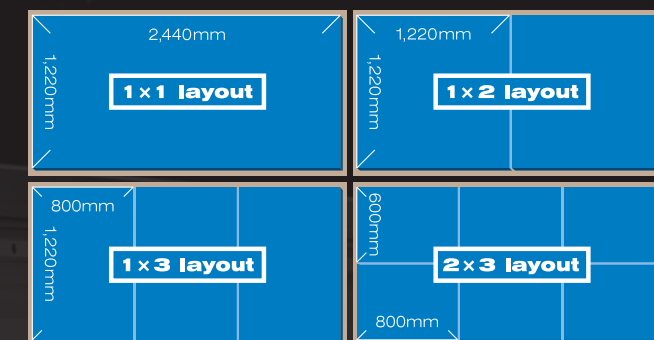
Flexible flatbed mechanism

IU-1000F employs UV-LED flatbed printing technology to print directly on various material types, including rigid boards up to 2,510 x 1,310mm size, 110mm thickness, and 45kg/m2 weight. Thus, it is possible to produce graphic products not only on board substrates, but also on thick objects such as doors or table tops.

Printing Area



Layout Example



GREENGUARD Gold for Indoor Use

Create profitable museum-quality applications with vivid color UV ink including high-opacity white which is certified GREENGUARD Gold for safe indoor use.

