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**RICOH**
Ri4000 Direct to Garment
Printer with Built in Enhancer
System

# RICOH Ri4000 Direct to Garment Printer with Built in Enhancer System Instruction Manual

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**RICOH**

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## Product Specifications

**Printable Area:** Up to 16×19.6 inches (40.6×49.8cm) with large platen (optional)

## Product Information

The RICOH Ri4000 is a Direct-to-Garment Printer with a Built-in Enhancer system. It revolutionizes DTG printing with Automatic Pretreatment, eliminating the need for manual pretreatment. The printer features Quick-change Platens, High-Performance Print Heads, Auto Platen Height Adjustment, a 7″ Touchscreen with Smart Alerts, and New Enhancer and Ink Formulas.

### Quick-change Platens
Changing magnetic platens is easy, allowing you to swap among a variety of platens for maximum versatility. The printer supports printing up to 16×19.6 inches.

### High-Performance Print Heads
The RICOH Ri4000 boasts dual carriages with genuine Ricoh piezo-electric drop-on-demand print heads for speed, precision, and durability. The first carriage lays down the newly developed Enhancer followed by the second carriage with the white and color layer.

### Auto Platen Height Adjustment
Easily switch between substrates and let the Ri4000 auto optimize the platen height for the best printing results. The automatic and laser-assisted height adjustment speeds up your workflow and ensures precise positioning of your platen.

### 7″ Touchscreen With Smart Alerts
The large touchscreen provides a vibrant, full-color display with intuitive controls and advanced technologies. It includes smart alerts and maintenance reminders for efficient operation.

### New Enhancer and Ink Formulas
The Ri4000 comes equipped with enhancers, CMYK, white cartridges, and delivers long-lasting, vibrant colors even on polyester fabrics. Save ink, time, and costs by optimizing your inventory.

## Product Usage Instructions

**Print on Polyester & Cotton**

1. Load the garment onto the platen securely.
2. Select the desired design on the touchscreen interface.
3. Follow on-screen prompts to adjust settings if necessary.
4. Initiate the printing process and let the Ri4000 complete the pretreatment automatically.
5. Wait for the printing process to finish and remove the printed garment carefully.

**Print on Dark Polyester**

1. Prepare the dark polyester garment for printing.
2. Load the garment onto the platen ensuring proper alignment.
3. Select the appropriate settings for dark polyester printing on the touchscreen.
4. Initiate the printing process and allow the Ri4000 to handle the pretreatment automatically.
5. Once printing is complete, remove the garment and cure it as per instructions.

## FAQ

- **Does the Ri4000 require manual pretreatment for polyester and cotton printing?**
  No, the Ri4000 features a Built-In Enhancer system that eliminates the need for manual pretreatment, making it easy to print on both polyester and cotton without additional steps.
- **How does the Ri4000 save ink, time, and space?**
  The Ri4000 minimizes ink wastage by applying pretreatment liquid only to the print area, reducing overall consumption. Additionally, its automated maintenance system ensures optimal performance, saving time and space in your workspace.

## PRODUCT OVERVIEW

The NEW ERA of DTG printing with Automatic Pretreatment
RICOH Ri 4000 is a game-changing DTG printer with built-in Enhancer technology which means an end to manual pretreatment; This printer will complete the pretreatment process for you Using RI CO H's newly developed ink, you can now print on 100% Polyester and Cotton with unprecedented speed and efficiency

**Quick-change Platens**

Changing magnetic platens is a snap. Easily swap among a wide variety of platens for maximum versatility. Print up to 16" x 19.6"

**High-Performance Print Heads**

The RICOH Ri 4000 is equipped with the leading genuine Ricoh piezo-electric drop-on-demand print heads designed for speed, precision, and durability.

**Dual Carriages**

The first carriage lays down the newly developed Enhancer followed by the second carriage with the white and color layer.

**Auto Platen Height Adjustment**

Easily switch between substrates and let the Ri 4000 auto optimize the platen height to achieve the best printing. Automatic and laser-assisted height adjustment speeds up your workflow and foolproof your prints by positioning your platen with precision.

**7" Touchscreen With Smart Alerts**

Large 7" touchscreen delivers a vibrant, full-color display with upgraded graphical interface, intuitive controls, and advanced technologies. Includes an operation guide that provides smart alerts and maintenance reminders.

**New Enhancer and Ink Formulas**

Equipped with 4 cartridges of enhancers, 4 CMYK, and 2 white. Ri 4000's inks are safe, long-lasting, vibrant, and superior color performance even on 100% polyester. Save ink, time, and cost by optimizing your inventory

## PRINTING INSTRUCTION

Print on Polyester & Cotton in any colors. No manual pretreatment.
The new RICOH Ri 4000, with a built-in Enhancer system and newly developed inks, allows you to expand your product offerings, save costs, and increase you r work efficiency.

**Print on Dark Polyester with ease**

With the development of the new RICOH Inks and printer, the Ri 4000 prints on 100% polyester with ease. Expand your business by printing on polyester with the best quality and lower costs to satisfy the growing demand for polyester fabrics. particular1y for sportswear.

**Save Ink/Time/Space for quick ROI**
Since pretreatment liquid is only applied to the print area and not the whole surface, Ri 4000 uses less pretreatment liquid than other printers By eliminating the need for manual pretreament application or a specialized secondary machine, the print quality is consistent and your workspace is streamlined.



**The right care for our customers**
Recognized as a wor1dwide leader in Technical Support. RICOH offers support via phone. email. and video call. plus access to our RICOH University learning resources. RI CO H technicians wil I work with you until your prints are perfect We're always at your side.



**Built-In Enhancer system**
No manual pretreatment process is needed. Ri 4000 automatically performs the pretreatment process by discharging the RICOH enhancer liquid with its inkjet heads on the garment As a result, reduction of workloads, lower margin of error, and minimum operator training are achieved.



**Automatic maintenance system**
Thanks to the automated maintenance procedures and advanced monitoring technology, the Ri 4000 stays in an active state where it is walk-up ready and reduces manual upkeep

## TECHNICAL SPECIFICATIONS

- **Printable Area** Up to 16 x 19.6 inches (40 .6 x 49.8 cm) with large platen (optional)
- **Print Head Technology** RICOH Piezo-electric drop-on-demand inkjet printhead
- **Ink Chambers** /**Nozzles per Chamber** 8 Ricoh print heads 16 Channels/ 192 nozzles per channel
- **Print Speeds•, 10″ x 8″ Graphic on light garment**
  - Speed print: 92 seconds
  - Fine print: 123 seconds
- **Resolution Settings**
  - **Speed:** 600 x 600 dpi/ 4 pass
  - **Fine:** 600 x 600 dpi/ 8 pass
  - **Super Fine:** 1200 x 1200 dpi/ 16 pass
- **Ink Type** Genuine Ricoh-approved direct-to garment water-based pigmented CMYK, white ink, and enhancer.
- **Ink Delivery System** Advanced closed-loop delivery system; Auto ink circulation system for white channels
- **Printable Substrates** 100% polyester, cotton, and blends; DT Film (with recommended setting from RICOH)
- **Table Height Adjustment** Auto t able height adjustment up to 1.2 inches (3 cm)
- **Maintenance Features** Precise ink monitoring, auto ink maintenance system, automated print head cleaning, power purge system to help fill and remove ink from system
- **Connectivity** USB drive and Ethernet
- **Operating Environment** 59°F – 90°F (15 ° – 32•cJ
- **Electrical Requirements** AC 100V-120V, 9J-60Hz, 4.0A, Max 320 watts
- **Dimensions (Width x Depth x Height)** 34.7 x 65.4 x 19.7 inches (88.2 x 166.2 x 50 cm)
- **Weights** 298 pounds (135 kg)
- **Curing Temperatures and Times – Heat Press (Conveyor Times Vary)**
  - Light Polyester/Cotton (CMYK only): 200 °F (138°C)
  - Dark Polyester/Cotton ( CMYK-white ink): 200 °F (138°C)
- **Print Tables**
  - **Medium platen (included)** 12.6 x 18 inches (32 x 45.7 cm)
  - **Small platen (optional)** 10.5 x 13 inches (26.6 x 33 cm)
  - **Large platen (optional)** 16 x 19.6 inches (40 .6 x49.8 cm)

## SYSTEM REQUIREMENTS

- **Recommended Graphics Applications** PhotoShop/Illustrator/CorelDraw/ Action Illustrated
- **Compatible File Formats** TIFF, PNG, JPG, BMP, PSB, PSD (PDF, PS, EPS are supported for non-bundle editions)

- **Required Operating System** Windows 10 (Pro, Enterprise) Windows 11, Window Server 2016 Windows Server 2019 (Apple MacOS with Parallels Desktop)
- **Minimum Processor and Memory**
- **Computer Storage** CPU: Intel Core i3-2100 / AMD Athlon || X2 340 RAM: ≥ 4GB
- **Display Resolution** Free disc space: 120 GB 1280 × 1024
- **Learn more** **www.colorgate.com**

## Documents / Resources



**RICOH Ri4000 Direct to Garment Printer with Built in Enhancer System** [pdf] Instruction Manual
Ri4000 Direct to Garment Printer with Built in Enhancer System, Ri4000, Direct to Garment Printer with Built in Enhancer System, Printer with Built in Enhancer System, Built in Enhancer System, in Enhancer System, Enhancer System, System

## References

- ⊕ **Colorgate: ColorGATE**
- **User Manual**