

 **FUJIFILM**

I&I- Imaging & Information

*New*

Digital Color Printer

# PICTOGRAPHY 4000

The photorealistic 400dpi digital color printer which accepts multiple paper sizes up to Double Letter/A3 Wide

**400dpi**

**Multiple Paper Sizes**



**Photorealistic and continuous color quality plus ultra high-speed prints, and able to handle multiple paper sizes from Postcard to Double Letter/A3 Wide, the Pictography 4000 opens for you a wide variety of true Digital Imaging Worlds.**

**90 sec.** **Ultra high-speed printing**

High-speed printing is one of the significant features of the Pictography 4000. Print time for the first Double Letter/A3 size image is approximately 90 seconds and it takes about 58 seconds for each subsequent print.

**400 dpi** **High resolution**

If you expect to have truly photorealistic print quality, you might think that you should use a printer of more than 400 dpi. The Pictography 4000's print quality at 400 dpi has already been proven by all the Pictography users in the world.

**We care... Clean printing without processing chemicals**

It can be said that the Pictography 4000 is exceptionally clean, as it requires no chemicals or toner. Use the Pictography 4000 and keep your hands clean, and keep our earth clean as well.



**Fully continuous color shading**

The Pictography performs density modulation for each pixel of the line scan. As a result, there is no trade-off between gradation and resolution. This is why the Pictography can give such beautifully detailed prints even in intermediate colors.

**Ease of operation**

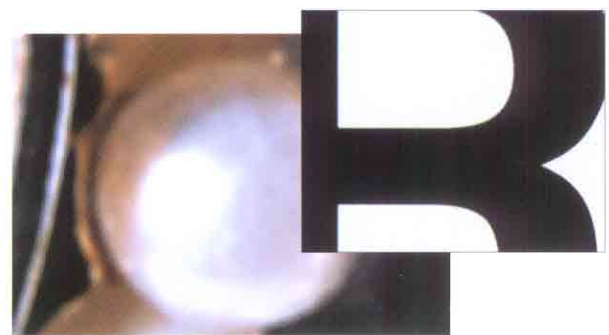
The Pictography's LCD control panel provides all necessary instructions. Loading donor paper is fast and simple, and by using the round paper cassette, you can also easily change between multiple paper sizes. The absence of chemicals and toner keeps maintenance to a minimum and keeps your workspace clean.

**Easy color calibration**

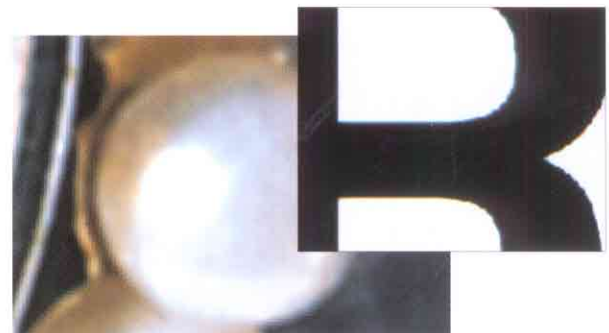
The Pictography 4000 calibrates color accuracy through its closed-loop color calibration system. Use the Auto Calibrator and set your optimum color conditions to maintain consistency over time or between print jobs.

**Which is sharper, Pictography output or Dye-sublimation? See the difference for yourself!**

The two pictures shown below right are print samples as seen through a microscope—one printed by the Pictography 4000 (above) and the other by a conventional dye-sublimation printer (bottom). As you can see, the Pictography 4000 achieves much sharper and cleaner output compared to dye-sublimation printers. That's because the Pictography uses a One-Pass Process for both laser diode exposures and Yellow-Magenta-Cyan thermal development and dye transfers. Dye-sublimation printers transfer dye in a Three or Four-Pass Process by mechanically moving the ink sheet for each layer: Yellow, Magenta, Cyan, and Black.

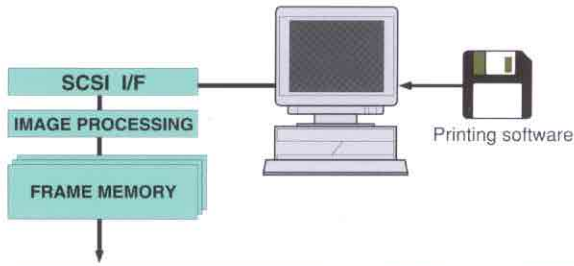


Printed by Pictography 4000 in 400dpi

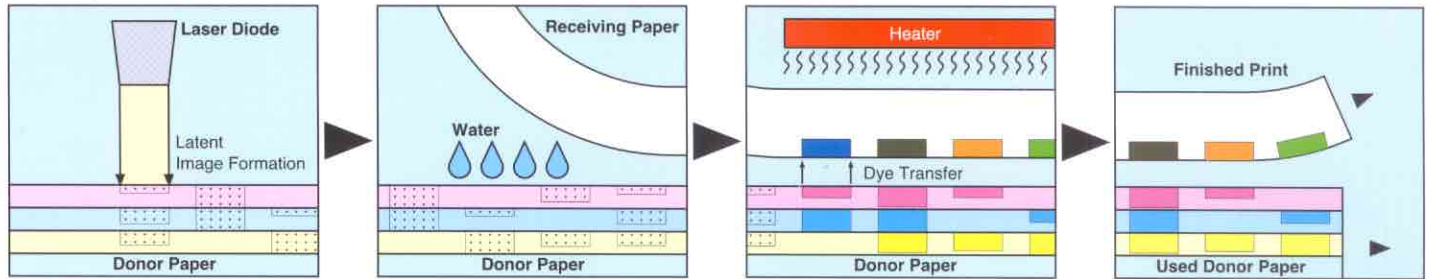


Printed by a Dye-sublimation printer in 300dpi

**A fusion of photo-chemical and laser technologies led to Fujifilm's unique four-step printing process and to a photorealistic digital color printer.**



The Pictography 4000 achieves its excellent color reproduction through the following four-step process.



**1 Exposure to laser diode**

A sheet of photosensitive donor paper is exposed to laser diodes at levels corresponding to the input image data.

**2 Moistening with water**

A small amount of water is applied to create the dye image on the donor paper with heat.

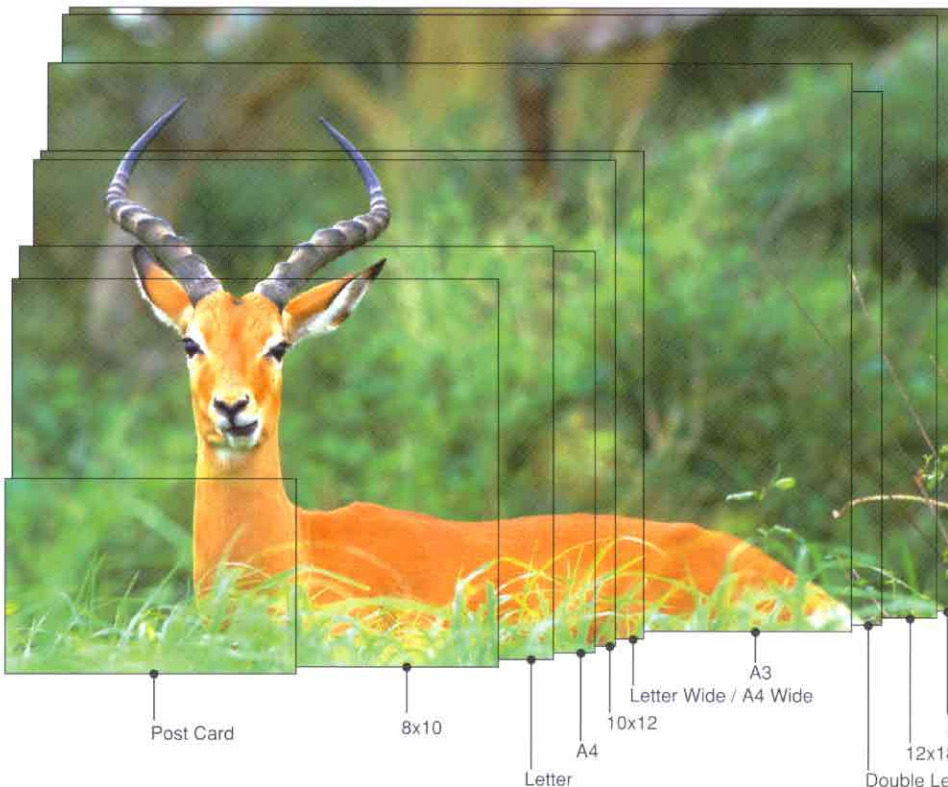
**3 Thermal development and dye transfer**

The dye image is transferred to the receiving paper with a combination of heat and pressure.

**4 Peeling off**

Finally, the receiving paper with its transferred dyes, is peeled off and separated from the used donor paper.

**Multiple paper sizes for the wide range of applications**



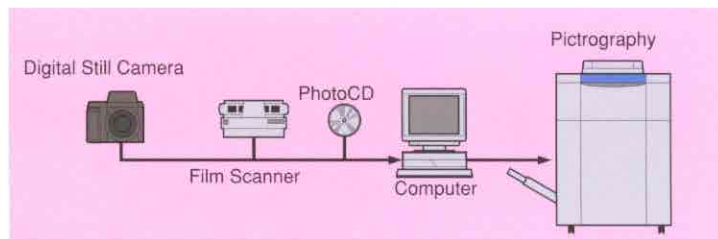
To support your wide range of applications, the Pictography 4000 provides handling for multiple paper sizes, from Post Card size, to Photographic-standard 8 x 10, 10 x 12, and 12 x 18; it also handles standard paper sizes including A4, Letter, A3, Double Letter, and even Wide Sizes that allow you to print registration marks for your color DTP or pre-press artwork.

The Pictography 4000's significant features include not only large paper size handling, but also a large print area. Even on Double Letter Wide or A3 Wide, or Post Card sized paper as well, you can print images all the way to the edge of the paper.

Loading donor sheets is fast and simple, and loading papers is also easy. By adjusting the position of the paper feeder in the Pictography 4000 paper cassette, you can quickly load or change papers for each application.

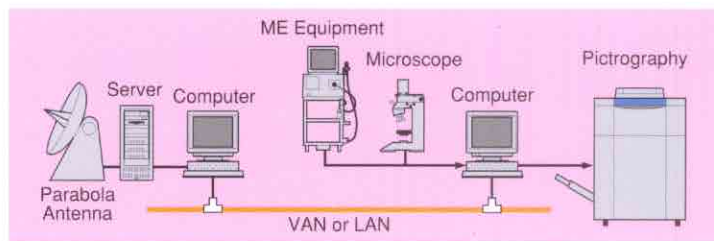
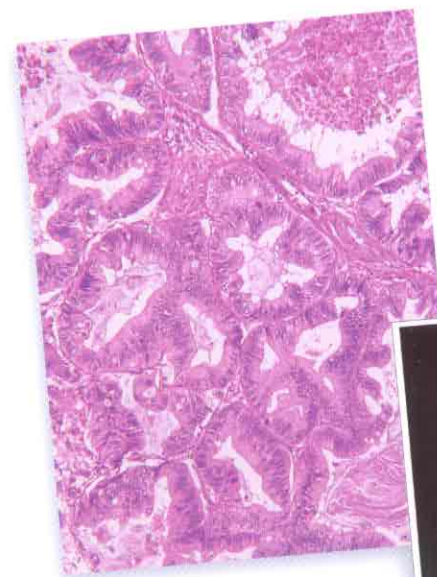
**Multiple platforms through SCSI-2 and compatible with a wide range of applications. Anybody who creates digital images by computer can readily use the Pictography 4000.**

Its SCSI-2 interface provides ready compatibility with a range of host platforms such as Macintosh, Windows®, Unix Workstations, and the bundled Adobe Photoshop™ Plug-in allows you to print images created with most popular DTP and rendering applications with ease.



### Photo Retouching and Enhanced Photo Prints

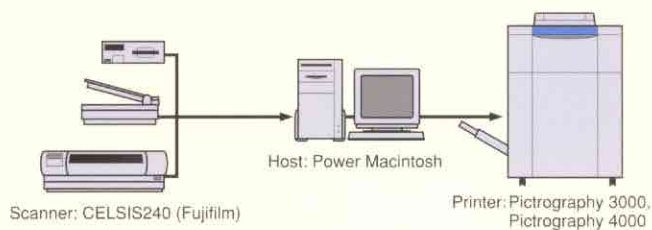
The availability of multiple paper sizes, including many photographic standards, and also of photo-oriented software such as PPM (Pictro Photo Manager : optional), means the Pictography 4000 can be used for a wide range of photographic applications. Whether scanning and retouching photographs, printing Photo CDs, or enhancing photographs, the Pictography 4000 is now the printer of choice.



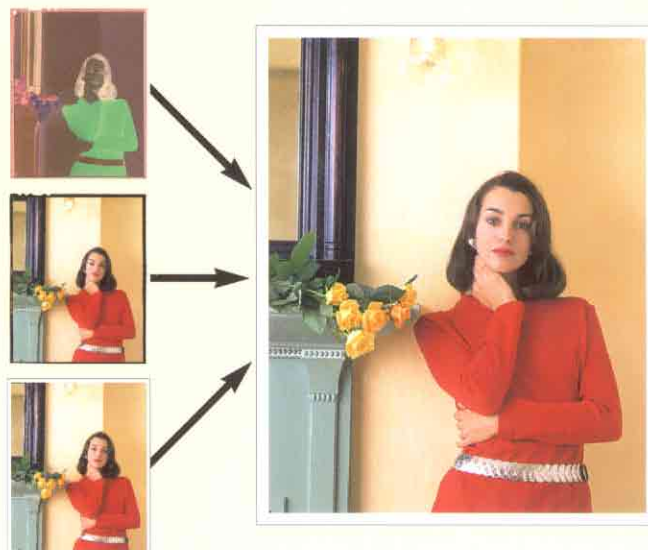
### PPM (Pictro Photo Manager) ---- a software solution for photographic applications

By using PPM (optional), users can create a photo-oriented scan & printing system which allows:

- 1) Color calibration from the scanner to Pictography 4000
- 2) Prints of equivalent quality as ordinary lab prints, scanning from Negative Film, Positive Film, and Color Prints as well.
- 3) Gradation adjustment corresponding to the characteristics of conventional photographic papers
- 4) Support for standard photographic paper sizes



\* Other scanners will also be supported in the future.

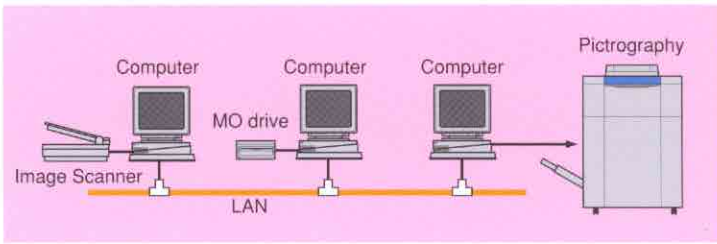


# Industrial and Architectural Design

When used in industrial and architectural design applications, the 3000 series of the Pictography printer line has already won a world-wide reputation for photorealistic color quality. Now, the newly developed Pictography 4000 makes your presentation more powerful and attractive with its enhanced print speed and larger paper sizes.

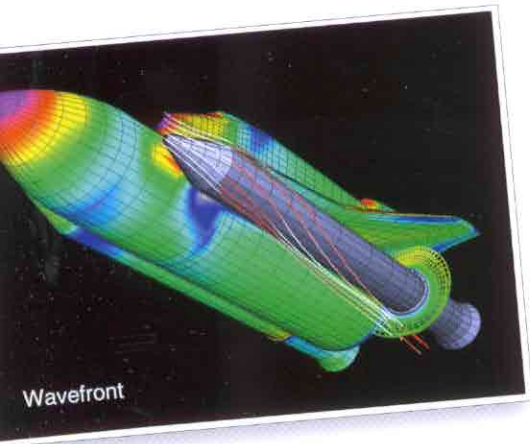


Rendered with the Lightscape Visualization System. Courtesy and copyright© 1995 ITO Corp. (Makoto Itoh)



# Medical and Scientific Research

The excellent reproduction quality of Pictography 4000 makes it the natural output choice for all those who need to capture, analyze and store color images for scientific and medical research tasks such as remote sensing, simulations, and many kind of image analysis. With its fully continuous color quality, the Pictography 4000 is the ultimate output medium for all scientific applications.

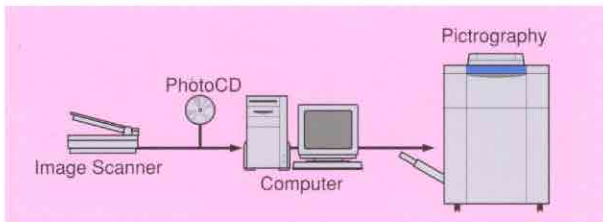


**Variety of printer utilities from FUJIFILM**

**Adobe Photoshop™ Plug-in for Macintosh and Windows® (standard)**  
Using the bundled Adobe Photoshop™ Plug-in with the Pictography 4000, Macintosh and Windows® users can promptly print images from popular rendering applications.

**PostScript RIP (optional)**  
PostScript RIP will be also available in the future as an optional enhancement.

**Networking (optional)**  
Networking device for Pictography 4000 will also be available in the future.



# Color DTP, Pre-press and Graphic Design

The Pictography has become much more powerful than before for color DTP and Graphic Design applications. Fully capable of handling A3 and Double Letter Wide papers, and including bundled Adobe Photoshop™ Plug-in and Post Script RIP(optional), the Pictography 4000 is now suitable for most Pre-Press and Graphic Design applications such as Color Comps of full-spread pages, Color Proofs with registration marks, and illustrations for print originals.

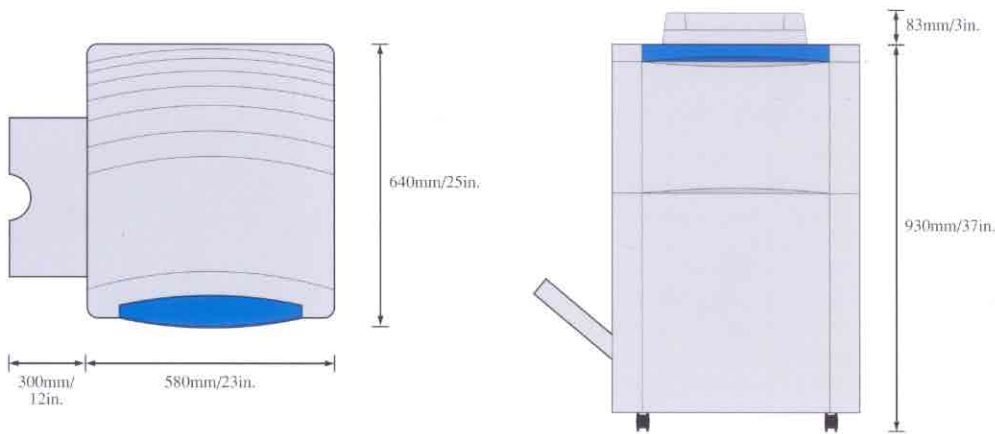


# PICTROGRAPHY 4000

## Main Specifications

Printing Process	Silver halide photographic process combined with LD exposure and <b>Thermal Development and Dye Transfer</b>
Colors	256 density levels each for Y, M and C; total of 16.7 millions color shades
Resolution	400, 267, 200, 133dpi
Frame Memory	48Mbyte(standard) / Max.120Mbyte(option)
Printing Time	A3: 93sec. / first print, 58sec./subsequent print in continuous operations A4: 81sec. / first print, 51sec./subsequent print in continuous operations
Image Adjustment	Calibration; color adjustment; LUT gradation control; enlargement / reduction
Interface	SCSI-2(SCSI-1)
Power Source	120V, 60Hz or 220~240V AC 50/60Hz
Maximum Current Consumption	Max.12A(1440W)
Dimensions	580(W) x 640(D) x 930(H)mm (23 x 25 x 37 in.)
Weight	Approx.100Kg(Approx.143lbs)

## Dimensions



## Supplies

### Capacity of Donor and Paper

	Capacity
Donor	A3: 182 sheet roll
Standard Thickness Paper	A3: 127 sheet roll
Lightweight Paper	A3: 162 sheet roll
Overhead Transparency	A4: 100 sheet roll

Capacity of other paper size: T.B.D.

### Principal paper size and max. prints & exposable area

	Paper Size (mm/inch)	Max. Print Area*	Max. Exp. Area**
Double Letter Wide / A3 Wide	315 x 465 / 12.40 x 18.31	4866 x 7228 pixels	5047 x 7449 pixels
Double Letter	279 x 423 / 10.98 x 16.65	4299 x 6567 pixels	4520 x 6787 pixels
Letter Wide / A4 Wide	315 x 255 / 12.40 x 10.04	4835 x 3921 pixels	5087 x 4142 pixels
Letter	279 x 216 / 10.98 x 8.50	4299 x 3307 pixels	4520 x 3528 pixels
A3	297 x 420 / 11.69 x 16.54	4583 x 6520 pixels	4803 x 6740 pixels
A4	297 x 210 / 11.69 x 8.27	4583 x 3213 pixels	4803 x 3433 pixels
12 x 18	315 x 457 / 12.40 x 17.99	4866 x 7102 pixels	5087 x 7323 pixels
10 x 12	254 x 305 / 10.00 x 12.01	3906 x 4709 pixels	4126 x 4929 pixels
8 x 10	254 x 203 / 10.00 x 7.99	3906 x 3102 pixels	4126 x 3323 pixels
Post Card	102 x 148 / 4.02 x 5.83	1512 x 2236 pixels	1732 x 2457 pixels

\* Max. Print Area: Maximum printable area by pixels at 400 dpi.

\*\* Max. Exp. Area: Maximum exposable area by pixels at 400 dpi.

The Max. Exp. Area is designed to be larger than the Print Area so as to allow image prints up to the full size of the papers.

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