

PRODUCT Description  
and Specifications



*Kodak Digital Science*  
8650 Color Printers

Get the image quality of Kodak's fast-over-curve  
prints on e-heads, and now a MYK resolution.

# CREATE A LASTING IMPRESSION IN

## The Kodak Digital Science 8650 Color Printers Help Your Work to Excel.

No matter what your business, you have one chance to make a strong impression. Make it with *Kodak Digital Science 8650 Color Printers*—the fastest dye sub printers in their class. Pick from three models, based on whether you want rich photo-realistic prints, overhead transparencies, or accurate CMYK position proofs. You don't have to sacrifice speed for quality—you get impeccable prints in just over a minute and transparencies in a minute and a half. Most importantly, your images, graphics, CMYK comps, and presentation materials will make quite an impression on people. And so will you.



## QUALITY THROUGHOUT THE SYSTEM

To achieve continuous-tone quality in your prints and transparencies, you need more than a great printer. You need a systematic approach that integrates the precise control of heating elements on the thermal printing head and formulation of color dyes on a ribbon with high-quality media and color-matching software. Nobody has more expertise in this art and science than Kodak, the world's imaging leader. *Kodak Ektatherm* Media products are designed specifically for the 8650 Color Printers to help assure extraordinary image detail and vibrant color. Plus, these printers contain our exclusive *Kodak UltraColor* Rendering, which gives you saturated, true-to-life, 24-bit color images.

### CMYK Position Proofs

Designed for graphic arts, marketing communications, and advertising customers, the 8650 PS/CMYK Color Printer produces CMYK proofs that simulate the printed page. This model supports the EFI, ICC, and PANTONE color systems and uses two new commercial- and publication-grade papers, increasing the accuracy of the proofs. You can show your customers what their page layouts

will look like once printed and reduce material waste from remakes.

### Built for Speed and Productivity

The 8650 Color Printers are designed to accelerate the printing process, and can deliver a full-page CMY print in a mere 70 seconds (50 CMY prints per hour), a transparency in just 90 seconds, or a CMYK proof in 94 seconds. Fueling this exceptional speed are 32 MB RAM (48 MB in the CMYK model) and a 33 MHz R3081 MIPS RISC processor. These advanced performance features enable you to print one image and process the next simultaneously to increase throughput and enhance productivity.

### Network Compatibility

You can put the printing process into overdrive with an optional network card that supports TCP/IP, ETHERTALK, and NOVELL NETWARE networks.

### Plug-and-Play Compatibility

The 8650 Color Printers are easy to install and operate. You can integrate them into a MACINTOSH or WINDOWS environment; and because the printers support major publishing software packages, you can begin producing superb output—right out of the box.



Photo taken with a KODAK Professional DCS 460 Digital Camera. © Don Cochran

## Choose From Three Models

### 8650 Color Printer/32 MB/CMY

With 32 MB RAM and an export module for ADOBE PHOTOSHOP Software, this printer excels for people making photo-quality prints or for developers writing application drivers.

### 8650 PS Color Printer/32 MB/CMY

With 32 MB RAM and ADOBE POSTSCRIPT Level 2 support, it can match the above model and make superb transparencies from presentation software such as MICROSOFT POWERPOINT and ADOBE PERSUASION.

### 8650 PS Color Printer/48 MB/CMYK

Offers all the capabilities of our other models, plus it is powered by 48 MB RAM and prints four-color (CMYK) position proofs for users of software such as QUARKXPRESS and ADOBE ILLUSTRATOR. It's ideal for desktop publishing professionals.

# LITTLE MORE THAN A MINUTE.

A KODAK EKTATHERM print looks and feels like a photograph—from its natural-looking skin tones and rich, vivid, colors down to its thick photo-grade paper.

In addition to photo-quality prints, the 8650 Color Printers generate color overhead transparencies with vibrant images and saturated graphics—great for desktop publishers, public relations firms, and service bureaus.

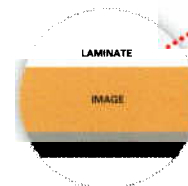
KODAK EKTATHERM XTRALIFE Print

Ordinary Print



On the left, a KODAK EKTATHERM XTRALIFE print protected with our durable laminate layer. On the near left, an ordinary print that has had its dyes stripped away by a plastic sleeve.

Cross section of KODAK EKTATHERM XTRALIFE Print



KODAK EKTATHERM XTRALIFE ribbon overcoats CMY prints with a rugged transparent laminate that resists fingerprinting, light fade, and dye transfers to help your prints endure.



Photo © Bill Cofer

## KODAK EKTATHERM MEDIA BRINGS OUT THE BEST IN YOUR WORK.

### Fine in Detail. Rich in Color.

With *Kodak Ektatherm* Media products you get out what you put in—quality. Kodak's complete line of ribbon, paper, and transparency products are renowned for providing exceptional image detail and color reproduction. You and your clients will be able to see even minute details such as hairlines in a diagram, 6-point type in a footnote, or the weave of a fabric in clothing. Plus, you'll receive accurate flesh tones in images and full color saturation in graphics.

### Kodak Ektatherm XtraLife Ribbon Holds the Secret to Longevity.

*Kodak Ektatherm XtraLife* Ribbon protects CMY prints with a clear, durable laminate layer. This specially formulated overcoat protects the print against common handling mishaps and light fading that can ruin its look. What's more, it prevents the print's dyes from transferring to plastic sleeves and folders. All of which means you'll need fewer remakes, saving you time and materials. And, oh yes, money, too.



The 8650 PS/CMYK color printer produces four-color (CMYK) position proofs that simulate the printed page, eliminating any guesswork about what you'll get once you go to press.

Photo © Julian Zgoda

# Kodak Digital Science 8650 Color Printers

## Features/Benefits

- **Continuous-tone Output, 24-bit Color.** Provide photo-realistic prints and transparencies and accurate color reproduction for the ultimate in output quality.
- **Exceptional Speed.** The fastest desktop printers in their class, the 8650 color printers can accelerate the printing process and help maximize productivity.
- **Network Compatible.** Includes standard SCSI (2 ports) interface. An optional network card adds ETHERTALK, NOVELL NETWARE, and TCP/IP networks to enhance throughput and network productivity.
- **Kodak UltraColor Rendering.** This proprietary color-matching software helps assure vibrant, saturated color images and graphics.
- **ADOBE POSTSCRIPT Level 2 Page Description Language.** Features real POSTSCRIPT language rather than a compatible imitation, preventing possible system conflicts and improving color rendering.

## Printer Models

Printer Models	CAT No.
1) <i>Kodak Digital Science</i> ™ 8650 color printer/ 32 MB/Raster	896 8976
2) <i>Kodak Digital Science</i> ™ 8650 PS color printer/ 32 MB/CMY	870 7788
3) <i>Kodak Digital Science</i> ™ 8650 PS color printer/ 48 MB/CMYK	868 6693

## Printer Specifications

**Printing Process:** Thermal dye diffusion (sublimation)

**Processor:** 33 MHz R3081 MIPS RISC processor

**Print Resolution:** 300 pixels-per-inch continuous-tone

## Print time (minutes) of specific donor products at maximum image area :

	Reflective Prints	Fast Transparency	Transparency
CMY 8.0" x 8.9"	1.2	1.5	2.7
CMY 8.0" x 10"	1.3	1.6	3.0
CMY oversize 8.5" x 12"	1.5	n/a	n/a
CMY <i>XtraLife</i> oversize 8.5" x 12"	1.5	n/a	n/a
CMY <i>XtraLife</i> 8.0" x 10"	1.7	1.6	2.6
B/W <i>XtraLife</i> 8.5" x 12"	1.0	0.6	n/a
CMYK 8.5" x 12"	1.5	n/a	n/a

## Color Rendering:

Raster: *Kodak TableMaker*™ software

POSTSCRIPT: *Kodak* UltraColor Rendering Dictionary or Level 1 rendering, EFI, PANTONE, ICC Color Management

## Computer Interface:

8650 Raster: SCSI (2 ports), CENTRONICS

8650 PS 32 MB/CMY: SCSI (2 ports), CENTRONICS, LOCALTALK

8650 PS 48 MB/CMYK: SCSI (2 ports), CENTRONICS, LOCALTALK

Optional network card for each model: TCP/IP, ETHERTALK, NOVELL NETWARE networks

## Printer Drivers and Fonts Supplied:

Raster: ADOBE PHOTOSHOP Export Plug-ins for MACINTOSH, WINDOWS 3.1, and WINDOWS 95 Applications

POSTSCRIPT: MACINTOSH, WINDOWS 3.1, and WINDOWS 95 System Drivers

Fonts: 35 resident fonts, plus 30 on disk

## Physical Requirements

**Operating Temperature:** 59° to 86°F

**Relative Humidity:** 20% to 76%

**Physical Dimensions:** 12.0" H x 16.6" W x 22.5" D (305 mm H x 422 mm W x 571 mm D)

**Weight:** 56 lb. (25.4 kg.); 71 lb. boxed (32.2 kg.)

**Operating Sound Level:** < 57 dB

## Electrical Power Requirements:

General: Automatically adjusts to input voltage of 90 to 250 V AC, 47 to 60 Hz

Power Consumption: 250 watts maximum

## Agency Approvals:

• UL 1950 • CA 22.2 No. 950 • TUV EN 60950

## EMI:

• FCC Part 15, Subpart J, Class B • I CES-003 Class B  
• EN 500 81-1 • EN 500 82-1 • VCCI Class 2 • CE Mark

## Kodak Ektatherm XLS Media Products

*Kodak Ektatherm* XLS Prints

Paper sizes: 8.5" x 11"; 8.5" x 12"; 8.5" x 14"; 9.5" x 14"

*Kodak Ektatherm* XLS Transparencies

Transparency sizes: 8.5" x 11"; 8.5" x 12"; 8.5" x 14"

Also available in A4 and A4 wide sizes.

*Kodak Ektatherm* Four-Color Ribbons: 85 images

*Kodak Ektatherm* Three-Color Ribbons: 100 images

*Kodak Ektatherm* Black Ribbons: 150 images

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