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Kodak's Digital Direction

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Kodak Joins with Industry Leaders to Bring Digital Imaging to All Users

New products, alliances make it 'duck-soup simple' for anyone to access and use electronic images

SAN FRANCISCO, March 28, 1995—Unveiling a sweeping vision for the future of digital imaging, Eastman Kodak Company today made a series of announcements aimed at a single objective: to let everyone work with digital pictures easily and inexpensively.

Kodak announced:

- A series of alliances and product agreements based on new and emerging technologies with key industry leaders, including Adobe, Hewlett-Packard, IBM, Kinko's, Microsoft, Sega, Sprint and Wang.
- An initiative to open the Photo CD format and to establish a universally available standard for digital imaging.
- Several new products, including a full-featured digital camera priced under \$1,000.

The company also unveiled a new brand mark that extends the value of the Kodak brand to digital products. The "Kodak Digital Science" brand will help people spot products that employ Kodak's color and image management technology.



Fisher unveils new products, alliances, Kodak digital brand.
Kodak CEO George Fisher watches as art director Karen Ver Steeg demonstrates the creation of compound documents using pictures taken with the new Kodak Digital Camera 40. The camera was one of several new products—along with new business alliances and a new Kodak digital brand mark—that Fisher announced during the introduction of a comprehensive strategy for digital imaging at "Picturing the Digital Age" in San Francisco.

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Kodak's announcements come exactly one year after the company formed a business unit devoted exclusively to digital imaging: the Digital and Applied Imaging group.

"Kodak is poised to assume the same leadership role in electronic imaging it now enjoys in conventional photography," said George Fisher, Kodak chairman, president and chief executive officer.

"More than 100 years ago, George Eastman created an entire industry by making it easy for people to take pictures," Fisher said. "To lead that fledgling industry, Eastman built one of the most innovative consumer-products companies in the world. Today, Kodak is extending Eastman's vision to lead a new industry, one based on making it easy for people to use digital technology to make their pictures more useful.

"These digital imaging technologies already are widely used by image professionals," Fisher continued. "The strategy we're announcing today will drive these technologies to general business users, small office/home office customers, and ultimately to consumers."

About Today's Announcements

Kodak made today's announcements at "Picturing the Digital Age," a special event for industry leaders and the news media held at Yerba Buena Gardens here. Broadcast via satellite across the United States and around the world, the program was hosted by Fisher and by Carl Gustin, vice president and general manager of the Digital and Applied Imaging unit.

Gustin emphasized that all Kodak products announced at today's event are available now or will begin to ship within six to eight weeks. Technologies under development with alliance partners are expected on the market within twelve months.

"Today we're not just describing a strategy, we're delivering on it," Gustin said. "As we said in our presentation, Kodak is changing the picture with a powerful vision for the future, and we're already making it real.

"As our vision unfolds, digital pictures will become as pervasive and easy to use as conventional photographs are today," Gustin continued. "That will be true whether you're a prepress professional at a high-powered workstation, a computer buff surfing the Internet

or a consumer who has trouble programming a VCR. Whatever your skill level and whatever your need, Kodak will make it duck-soup simple to access and use pictures in electronic form to enhance your communications.”

Kodak’s announcements at “Picturing the Digital Age” included:

- Alliances with leading companies. Kodak will work with Adobe on comprehensive Photo CD support in PageMaker and Photoshop software, Hewlett-Packard on ink-jet printing solutions, IBM on optical storage products and Internet-based image networking, Kinko’s on test-marketing color document imaging software and CD authoring workstations, Microsoft on consumer imaging software, Sega on a Photo CD-compatible hardware platform, Sprint on new network services for image storage and exchange and Wang on document imaging architecture.
- A new model for long-distance network imaging, enabling digital pictures to be moved from place to place in a fraction of the time and bandwidth now required. IBM and Sprint will be the first to offer services based on the network imaging model, which Kodak said it intends to license to other network providers.
- A strategy to openly license Kodak’s Photo CD format to any software or hardware developer, giving future computer users the ability to read and write digital pictures to and from Photo CD discs.
- A utility that will make it a snap for personal computer users to add pictures to documents, using their existing word processing software. The utility, available on Photo CD Master discs beginning this summer, will help small-business customers to create high-impact compound documents with pictures to help tell their story.
- A full-featured digital camera priced under \$1,000. The *Kodak* Digital Camera 40 will make it simple for people to capture digital pictures for their reports, presentations and other compound documents published on desktop computers.
- “Hypercompression” technology that can render an image using just 400 bits of digital information (a third of what’s required to describe this sentence). A first use of this

new technology: a retail point-of-sale terminal from IBM that can display a person's portrait based on information stored on their credit card's magnetic stripe.

Fueling New Growth

Fisher emphasized that the company's digital strategy strengthens its approach to traditional silver halide photography.

Fisher said that Kodak's corporate imaging strategy targets four key market opportunities: imaging professionals, businesses, SOHO users and consumers. “Digital technology is already widely used by image professionals,” he said. “Over time, announcements like the ones we're making today will drive these technologies toward the consumer.

“As we make it easy for users at every level to work with digital images,” Fisher continued, “we will increase the overall demand for pictures, which will fuel Kodak's growth into the future.”

For example, he noted, the company's new model for long-distance network imaging will increase demand for Kodak products such as digital cameras, printers, CD writers and media.

“Kodak has been the world leader in imaging for more than a century by combining world-class technology with innovative and customer-focused marketing,” Fisher concluded. “In the next 100 years, we will apply these same principles to bring pictures into the information age.”

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(Note: Kodak and Digital Science are trademarks of Eastman Kodak Company.)

Kodak Introduces *Kodak Digital Science* Brand

New electronics strategy extends value of Kodak brand to digital products and services

SAN FRANCISCO, March 28, 1995—As part of its announcement of a new digital imaging strategy, Kodak today unveiled a brand mark designed to extend the value of the Kodak brand to digital products and services.

The *Kodak Digital Science* brand is intended to differentiate Kodak from other players in a digital imaging marketplace that is becoming increasingly competitive. The new brand mark will be used to showcase Kodak's strengths in science and technology, as well as the company's ability to develop products that are accessible and easy for people to use.

The new brand consists of three elements designed to appear together: the Kodak logotype, a monogram and the "Digital Science" competency line. In addition to the distinctive Kodak trade-dress yellow and red colors, the brand introduces blue—a new color for Kodak that signals the company's commitment to the digital arena.

The brand will be displayed on the company's digital imaging offerings—hardware, software and services—on a phased-in basis. Kodak will support and promote the new brand



The new Kodak Digital Science brand consists of three elements: the Kodak logotype, a monogram and the "Digital Science" competency line. The new brand will be used to showcase Kodak's strengths in science and technology, as well as the company's ability to develop products that are easy for people to use.

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through internal and external communications, including an advertising program that will be rolled out later this year.

“After more than a century of leadership in imaging, Kodak finds itself in an enviable position,” said Carl Gustin, vice president and general manager of the company’s Digital and Applied Imaging organization. “We have undisputed leadership in conventional photography, along with critical core competencies in color and image management.

“The *Kodak Digital Science* brand builds on these strengths and extends them to the emerging world of electronic imaging,” Gustin noted. “It’s like adding a halo to the Kodak name.”

What’s in a Name

Over its long history, Kodak has built a reputation for quality, along with one of the strongest and most respected brand franchises in the world. Indeed, outside research studies consistently rank Kodak among the top five brands worldwide for both awareness and esteem.

When Kodak announced the formation of the Digital and Applied Imaging unit a year ago—effectively consolidating all of the company’s digital imaging programs in one organization—Gustin and his management team moved quickly to capitalize on the strong recognition and reputation of the Kodak brand.

They began last fall by asking the question: “How should we brand our digital offerings?” During the six months that followed, the New York consulting firm of Diefenbach Elkins worked to help Gustin and his team answer that question, and to help define Kodak’s role in the digital imaging marketplace.

The process involved trend analyses, competitive assessments and more than 750 quantitative and qualitative interviews. The consultants also conducted extensive discussions with Kodak senior management and key business unit executives, tempered by reality checks with industry analysts, security analysts, board members, Kodak distribution channel partners, customers and others.

“This outside-in and inside-out analysis, coupled with a perspective on the future, led to the development of a digital imaging positioning unique to Kodak and based on what the marketplace expects from Kodak,” explained Gustin.

The positioning, in summary, states: “In this arena for digital imaging, Kodak is seen as the ‘practical scientist,’ expert in managing images.” Building on Kodak’s legacy of making imaging science practical and easy for people to use, the *Kodak Digital Science* brand sends a strong signal to the market: “We’re committed to digital imaging and we intend to assume a leadership role in this industry as a way of enabling customers to enhance, modify, utilize and enjoy their pictures.” The graphics were designed to signal this positioning.

“The typeface developed for the graphic element echoes a handwritten script,” explained John Diefenbach, chief executive of Diefenbach Elkins. “And the monogram suggests a personal statement of Kodak’s commitment to the digital imaging market.” The graphic also aims to convey a feeling of friendliness and accessibility, he noted, complementing the company’s depth in the science of imaging.

“Together, the graphics and positioning give Kodak a unique, memorable mark that proclaims the company’s value to anyone who works with digital images,” Diefenbach concluded.

Diefenbach Elkins is a New York-based corporate identity consulting firm at the forefront of developing new approaches to positioning corporations for the future.

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Kodak Strategy Will Drive Digital Imaging to New Markets

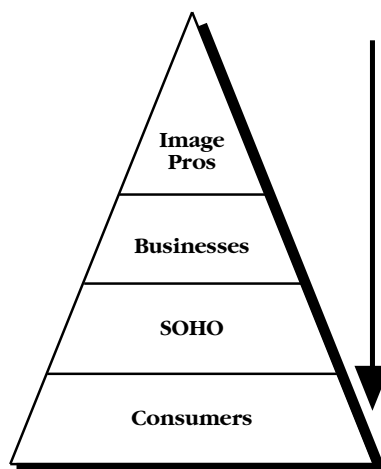
CEO Fisher, echoing George Eastman, describes plan to make it easy to work with digital pictures

SAN FRANCISCO, March 28, 1995—The digital imaging strategy that Kodak unveiled today was captured more than a century ago in George Eastman's now-famous slogan, "You press the button, we do the rest."

Eastman combined world-class photographic technology with innovative, people-focused marketing. He made "ease of use" a hallmark and imaging itself more accessible to everyone, building a company long acknowledged as the world's photographic leader.

One hundred years later, Kodak Chairman and CEO George Fisher outlined a new vision to bring images into the information age. Its essence is as fundamental as Eastman's slogan: to allow anyone to work with digital pictures easily and inexpensively.

Kodak is uniquely positioned to deliver on this promise. The company has been a pioneer in translating the technology know-how of conventional photography into digital imaging solutions for professional customers. These solutions range from advanced digital camera systems for photojournalism, to high-volume scanners for document processing, to



Kodak extends strategy to reach new customers.

The strategy outlined by CEO George Fisher brings together the consumer marketing expertise of Kodak's photographic business with the high-end digital technology popular among image professionals. "Our strategy will drive the use of digital pictures beyond image professionals to customers in business and the small office/home office market ... and ultimately to consumers," Fisher said.

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a digital system for editing motion pictures recognized at last night's Academy Awards.

These and dozens of other digital products employ Kodak's key technology strengths:

- *Color science.* As the developer of color photography, Kodak helped create the field of color science—the fundamental method of depicting color with mathematical precision. It has used that expertise to develop color management technology that allows computer users to render color accurately and consistently across different software applications and hardware platforms.
- *Image management.* From the first microfilm systems used to file and retrieve documents to today's on-line image networks, Kodak has developed critical skills in image management—combining the company's undisputed leadership in image quality with the technology to manipulate, store and catalog images effectively.
- *Image file formats.* Kodak led the way in setting many of today's accepted photographic standards, including 35 mm film. Recently the company has extended its efforts to electronics with new digital imaging standards, most notably the Photo CD *Image Pac* format.

Reaching New Users

The strategy Fisher outlined today brings together the consumer marketing expertise of Kodak's photographic business with the digital technology popular among image professionals.

“Our strategy will drive the use of digital pictures beyond image professionals to customers in business and the small office/home office market ... and ultimately to consumers,” Fisher said. “Just as George Eastman worked to make picture taking ‘as convenient as the pencil,’ we will enable people to make, use and share their pictures more easily with the power and flexibility of digital technology.”

Fisher described five operating principles which the company will use to implement its strategy. Kodak today made key announcements that demonstrate its intent, exactly a year after Fisher created a business unit dedicated to digital imaging.

- *Alliances with industry leaders*, which will allow Kodak to deliver technology to customers in each target market segment. Today Kodak announced many new alliances.
 - For image professionals, Kodak will work with Adobe Systems, Inc., on comprehensive Photo CD support in Adobe Photoshop and Adobe PageMaker software.
 - For businesses using images, Kodak announced alliances with IBM, Sprint and Wang. All three of these companies will employ Kodak technology for sharing documents and images across networks to offer new products and services.
 - For the small office/home office (SOHO) market, Kodak will work with Kinko's to test-market new color document imaging software and CD authoring workstations, and with Hewlett-Packard to offer a range of ink-jet printing solutions.
 - For consumers, Kodak will work with Microsoft on consumer imaging software and with Sega on a Photo CD-compatible hardware platform.
- *Open licensing* of the Photo CD *Image Pac* format, which Kodak announced today as part of a comprehensive new Photo CD strategy.
- *Development of imaging standards* with other industry leaders. Kodak announced that it will combine key elements of the Photo CD format with FITS technology licensed from Live Picture, Inc. The result will be a new cross-platform standard for sharing images electronically, which Kodak will make widely available to all users.



- *Greater accessibility to digital technology*, demonstrated with the introduction of the *Kodak* Digital Camera 40 (shown at left)—priced under \$1,000—and an affordable software application for writing Photo CD Portfolio II discs at the desktop.
- *Development of integrated imaging solutions*. One example is an IBM point-of-sale terminal, which will be enhanced to take advantage of Kodak “hypercompression” technology, that can store a customer’s picture in a credit card’s magnetic stripe. Another

example is Kodak's family of Photo Impressions products, which allow consumers to make reprints, enlargements and edits to their pictures quickly and conveniently—in a retail environment—using digital technology.

“The technologies we're demonstrating here will be as revolutionary in our day as George Eastman's photographic innovations were in his,” Fisher noted. “But just as Eastman was 100 years ago, Kodak is obsessed with applying those technologies to meet customer needs.”

Future Directions

Kodak will work to drive down the costs of hardware for input and output, Fisher said. The company also will continue to develop innovative media solutions, including CDs, large-format optical disks and digital print media. Working with alliance partners, Kodak will offer bundled imaging solutions aimed at specific customer sets.

Fisher emphasized that the strategy announced today is only a launching point for Kodak's long-term vision. As the strategy takes hold, he said, Kodak will fulfill its objective of making it easy to work with digital pictures almost anywhere.

- Pictures will become the norm in business documents, from a consumer's lost-dog poster to a Fortune 500 company's marketing reports.
- Photo CD discs will become almost as common as floppy disks are today, enabling computer users to employ Kodak's universal imaging format and low-cost CD writers to store and share their pictures electronically.
- People will routinely share images over networks—not just in business, but in home applications as elegant as sending a photo straight to grandma's TV.

“Five years ago, few would have predicted that cellular telephones would become as ubiquitous as they are today,” Fisher concluded. “During the next five years, the strategy we've detailed today will make the use of digital pictures just as commonplace.”

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(Note: Kodak and Image Pac are trademarks of Eastman Kodak Company.)

Kodak Opens Photo CD Format, Announces On-disc Utility Software

New strategy is aimed at strengthening universal, cross-platform standard for digital imaging

SAN FRANCISCO, March 28, 1995—In a dramatic move to broaden access to digital pictures, Kodak today announced a multi-faceted strategy to establish a universal, cross-platform standard for digital imaging.

The centerpiece of the strategy is the Photo CD system, which has been widely accepted in desktop publishing and prepress applications since its launch three years ago. Dozens of popular software applications and operating systems today enable users to work with the scanned film images that have been stored on Photo CD discs. *(See related news release in this kit.)*

Today's announcements are designed to make these images even more accessible, allowing anyone with a desktop computer to read, write and use Photo CD images.

- Under a new open licensing policy, any software or platform developer can obtain a royalty-free patent license for encoding and decoding images in the Photo CD *Image Pac* format. The policy will enable people to read and write Photo CD images as



Kodak enables a new utility to be written onto Photo CD discs.

Kodak today demonstrated prototype software that provides a direct link between Photo CD images and word processing software, such as Microsoft Word and Novell WordPerfect. The utility will be available to be written on Photo CD Master discs beginning this summer by Photo CD service providers.

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easily as other common image formats, such as TIFF and JPEG, with the added benefit of cross-platform compatibility.

- An on-disc software utility will make it simple for even a novice computer user to add Photo CD images to documents created using popular word-processing and presentation software. Beginning this summer, Photo CD service providers will be able to write the new software onto Photo CD Master discs along with a customer's scanned images.
- A new, more flexible application strategy establishes two categories of Photo CD discs: Photo CD Master discs, which serve as digital negatives for images scanned from film (and include both Photo CD Master and Pro Photo CD Master formats), and Photo CD Portfolio II discs, which contain Photo CD *Image Pac* files and other digital content. The new Photo CD Portfolio II format provides a single disc type to meet the needs of customers in prepress, presentations, image archiving and other applications that had been served by the previously defined Photo CD disc formats (Print, Catalog and Portfolio).
- In conjunction with the new application strategy, Kodak introduced a software application that lets users write Photo CD Portfolio II discs at their desktop computers. Available previously on the UNIX platform, *Kodak Build-It Photo CD Portfolio* disc production software will be available in May for Macintosh and Windows NT computers.

"Although it was introduced as a consumer product, the Photo CD system has been embraced most enthusiastically by image professionals," explained Carl Gustin, vice president and general manager of Kodak's Digital and Applied Imaging organization. "These professionals were quick to recognize the key advantages of the Photo CD format for digital imaging: high-quality scans at low-cost, multiple resolution levels and cross-platform playback on computers and TV.

"Today's announcements will extend the benefits of the Photo CD system beyond image

professionals to an even wider range of computer users,” Gustin said. “They demonstrate Kodak’s unique ability to establish a unifying still digital image format that will benefit anyone who works with electronic images.”

Open Licensing Strategy

Kodak’s new licensing policy recognizes the industry’s need to have open access to a single, consistent means of representing digital images. Because the Photo CD *Image Pac* format offers a number of functional advantages—and because it has been created and sponsored by Kodak, a platform-neutral imaging company—the *Image Pac* format is becoming a basis for a universal digital imaging standard.

The *Image Pac* format ensures that users can access their digital images at multiple levels of resolution (enabling them to select the quality and file size that is appropriate for their application). The design of the *Image Pac* format is platform-independent and ensures that users can work with the same image file on any number of computer platforms with no conversions required.

As Kodak’s new licensing strategy takes hold, users will be able to handle files in the *Image Pac* format like any other form of data, writing them to floppy disks, transmitting them over networks and storing them on CD-Recordable discs.

“Since the beginning of the Photo CD program, our struggle has been to provide people with the broadest possible access to Photo CD images, while at the same time preserving the integrity of the format itself,” explained Paul H. McAfee, Kodak’s director of worldwide Photo CD marketing. “The computer industry is littered with confusing image and document formats that are losing their usefulness because they weren’t implemented in a consistent way.

“Today, the entire Photo CD system, and the *Image Pac* format in particular, have matured to the point where we are prepared to significantly increase their accessibility,” McAfee continued. “At the same time, we intend to maintain our role as stewards of the Photo CD system to ensure its viability into the future.”

Kodak's licensing strategy for the Photo CD format consists of two key parts.

- 1) *Royalty-free licensing of the Photo CD Image Pac format.* This will enable software developers to build into their applications the ability to read and write *Image Pac* format data files, and to play back prerecorded Photo CD Master and Photo CD Portfolio II discs. The Photo CD System Description, along with a royalty-free patent license to read and write *Image Pac* images, will be made available from Kodak for \$500. Kodak also will help ensure proper implementation of the read, write and playback capabilities of *Image Pac* and Photo CD discs by making test tools available to developers for nominal cost.
- 2) *Significantly less expensive licenses for applications designed to write Photo CD Portfolio II discs.* Developers of multimedia software wishing to output Photo CD Portfolio II discs can obtain a royalty-free license for a one-time fee of \$10,000, offsetting costs of administration and support.

Kodak has pledged to enhance the utility of the *Image Pac* format as customer demands require. For example, Kodak is currently working with other companies to develop enhancements to the format that incorporate FITS technology from Live Picture, Inc. Updates to the specification will be made available to licensees for a nominal charge.

Software Utility

Kodak today also demonstrated prototype software that will let people add color pictures to documents as easily as they cut-and-paste text today.

The software utility provides a direct link between the images on a Photo CD disc and any word-processing or desktop-publishing software that employs the Object Linking and Embedding II (OLE II) interface—such as Microsoft Word, other applications in the Microsoft Works integrated product bundle and Novell WordPerfect software.

Both Macintosh and Windows versions of the utility can be written automatically onto Photo CD Master discs beginning this summer. When users insert their Photo CD disc into a CD-ROM drive, the utility will guide them through a number of options that make working with pictures simpler than ever before.

For example, users will see a variety of layout templates for compound documents; they can use a supplied template, adjust it or create their own. To add pictures to a document, users highlight the area where they want the picture to appear, select an image from the clipboard and paste it in place with a click of the mouse.

The software utility employs OLE II to provide “intelligent picture framing,” which means it automatically selects the appropriate level of resolution from the Photo CD *Image Pac* file based on the size of the picture and the usage. A low-resolution version of the image would be selected for on-screen viewing, minimizing demands on the processor, while a higher-resolution version of the image would be selected for output to a color laser printer.

For people who want to keep track of images for future use, the software utility also invites users to create a simple image database by naming their discs, and individual images, with descriptors of up to 64 characters each.

“This Kodak software utility makes it wonderfully simple to create high-impact documents with pictures, even for a computer novice,” said McAfee. “As a value-added feature on each disc, we think the utility will generate increased demand for Photo CD images among small office/home office (SOHO) users, consumers and others who want to use their pictures but who don’t want to learn much about digital imaging.”

McAfee said that Kodak will formally introduce the utility in the summer, when the company provides an upgrade for writing the software to owners of Photo CD Imaging Workstations, the authoring systems that create Photo CD Master discs. The utility also can be written onto Photo CD Portfolio II discs.

Flexible Application Strategy

In another move to expand the use of Photo CD images, Kodak is streamlining the number of disc formats it offers to meet the needs of different applications.

- The two Master disc formats contain images that originated on film, scanned at high resolution using a *Kodak* Photo CD Imaging Workstation. Photo CD Master discs contain 35 mm film images stored at five levels of resolution, the highest of which is 2048

x 3072 pixels. Pro Photo CD Master discs add an optional sixth resolution level, 4096 x 6144 pixels, to store images from the larger film sizes frequently used by professional photographers. Images on these discs serve as “digital negatives” that contain virtually all the information from the film original; they serve as a convenient, low-cost way for people to bring their own pictures into any computer imaging application.

- Photo CD Portfolio II discs provide desktop users a medium for the storage and distribution of images in the Photo CD format. Along with Photo CD *Image Pac* format files, users can write other data to the discs—such as CMYK (four-color) image files for prepress applications, indexes and retrieval software or digital audio for a “still image multimedia” presentation.

The *Image Pac* format files on Photo CD Portfolio II discs can differ from Photo CD Master disc images in two key ways: 1) They don’t necessarily originate on film, but instead can come from any digital source—such as digital cameras and scanners; 2) They don’t necessarily contain all the resolution of Master or Pro Master disc images; the highest required resolution is 512 x 768 pixels, the “base” level needed for high-quality video display.

Like Photo CD Master discs, however, the *Image Pac* format files on Photo CD Portfolio II discs offer a unique benefit not available on other media: these images can be viewed on television, as well as on computers. A number of low-cost consumer players, including the new *Kodak* Portable Photo CD Player N2000, let people view Photo CD images on television.

“Photo CD Master discs provide an assurance of Kodak image quality, similar to Kodak’s yellow boxes of film,” McAfee said. “The Photo CD Portfolio II disc format extends the core benefits of Photo CD technology to a larger range of applications than ever before.”

McAfee explained that the new format replaces the previously offered Photo CD Portfolio, Photo CD Catalog and Print Photo CD disc formats.

“We expect commercial users to employ Photo CD Portfolio II discs more widely than ever before,” McAfee said. “But instead of offering separate disc formats tailored to the

needs of each application, we're simply supplying the discs and the *Image Pac* file format and allowing our customers to adapt these tools in whatever way best meets their needs."

Application to Write Photo CD Portfolio II Discs

Also introduced today was *Kodak* Build-It Photo CD Portfolio disc production software, which enables Macintosh and Windows NT users to author Photo CD Portfolio II discs right at their desktops. (*See related news release in this kit.*)

Targeting presentation and image archiving applications, Build-It software can be used to create on-disc multimedia programs and image catalogs.

The software can convert images from many graphic image formats—such as BMP, TIFF and PICT files—to the *Image Pac* file format. Build-It software also will allow users to record data in the ISO 9660 format, the standard for CD-ROM discs. For these applications, Build-It software will write images, software, ASCII text and other data files to a Writable CD disc.

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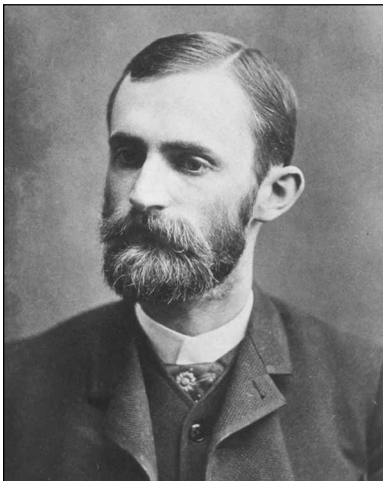
Kodak's Digital Imaging Strategy...

Continuing the Legacy

SAN FRANCISCO, March 28, 1995—The digital imaging strategy Kodak is announcing today builds on more than a century of leadership in imaging and color science. The Kodak heritage is evident in many aspects of today's announcements. Kodak CEO George Fisher's strategy for digital imaging closely parallels that of founder George Eastman's for photography: to enable customers to use complex technology—with outstanding results—at the touch of a button. That commitment was evident as early as 1888 when Eastman introduced the first box camera with the slogan, "You press the button, we do the rest."

Along the ensuing 100-year journey, a number of Kodak innovations have combined technological superiority with convenience and ease of use, many representing breakthroughs in their respective fields. Among them:

1879 George Eastman invented an emulsion-coating machine which enabled him to mass-produce photographic dry plates as a replacement for wet plates, which were cumbersome and inconvenient to use.



***"You press the button,
we do the rest."***

Kodak founder George Eastman, shown here in a photo from the 1880s, made it easy for people to use complex photographic technology. The digital imaging strategy Kodak announced today builds on more than a century of leadership in imaging and color science.

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America On-line:

Keyword Kodak

World Wide Web:

<http://www.kodak.com>

CompuServe:

Go KODAK



- 1888** The No. 1 Kodak camera was introduced; a box-type camera, light and small and loaded with 100 exposures. It sold for \$25.
- 1889** The first commercial transparent roll film was introduced, paving the way for the birth of the motion picture industry. Movies became a reality when Thomas Edison used Eastman's flexible film in his new system.
- 1896** Kodak first applied its imaging expertise to health care when it began manufacturing plates and paper for use with x-ray—which had been discovered less than a year earlier by Wilhelm Conrad Roentgen.
- 1900** The first in a long line of popular *Brownie* cameras was unveiled. Priced at \$1, it brought photography within the financial reach of nearly everyone.
- 1923** Amateur home movies became a reality with the introduction of 16 mm movie film and equipment.
- 1928** Kodak's Recordak subsidiary introduced microfilm technology, which represented a leap in productivity for businesses needing to manage large volumes of documents.
- 1931** Kodak introduced *Kodalith* materials for the graphic arts, the first of a number of photographic products designed to reduce printing costs and increase the quality of photomechanical reproduction.
- 1935** *Kodachrome* film—destined to become the first commercially successful amateur color film—reached the market, spurring a spectacular growth in color photography.
- 1942** *Kodacolor* film, a color negative film, was announced, making it possible to take color snapshots with simple, low-priced cameras.
- 1963** *Kodak Instamatic* cameras, and the easy-loading film cartridge, established a new dimension in amateur picture taking.

- 1972** Moderately priced compact cameras producing large, clear pictures became a household reality, as the company unveiled its line of *Kodak Instamatic* pocket cameras using 110-size film cartridges.
- 1975** Technical achievements in the field of electrophotography led to the introduction of the first Kodak plain paper copier. Innovations included automatic collating via a recirculating document feeder and in-line stapling using a finisher attachment.
- 1985** Kodak launched the *Ektascan* image transmission system, which digitizes and transmits radiographic images and text over standard phone lines, enhancing communication between radiologists and referring physicians.
- 1988** The *Kodak Create-A-Print* 35 mm enlargement center was introduced, representing a merger of photography and electronics. The system allows consumers to make their own custom color enlargements from 35 mm negatives in 4 1/2 minutes.
- 1988** The first in a line of single-use “cameras with film” was launched. *Kodak Fun Saver* 35 cameras now include models with flash, telephoto, portrait, panoramic and underwater capabilities.
- 1988** Kodak extended its color imaging expertise to the office with the introduction of two high-speed, high-volume color copiers.
- 1992** The *Kodak Photo CD* system offers users another easy way to work with photography electronically. By scanning film images onto special compact discs, pictures can be displayed on TV monitors or input to a computer (using a compatible CD-ROM drive with appropriate software).
- 1994** Applying digital imaging to amateur photography, the availability of the Kodak Copyprint station allows consumers to make high-quality copies and enlargements from their prints.

In the early years of the company, Eastman was intent on supplying the highest-quality photographic tools at the lowest possible cost to the greatest number of people. Today's digital imaging announcements have made the goal of "providing digital images to the masses" a near-practical reality.

#

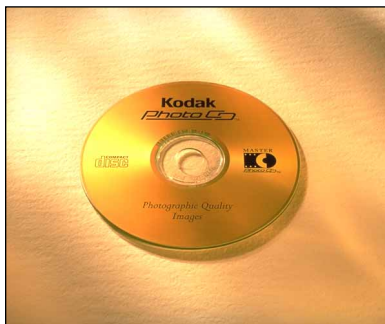
(Note: Kodak, Brownie, Kodalith, Kodachrome, Kodacolor, Instamatic, Ektascan, Create-A-Print and Fun Saver are trademarks of Eastman Kodak Company.)

Photo CD-enabled Software Listing

The chart on the following pages lists Macintosh, Windows, Sun/UNIX and DOS software products submitted to Eastman Kodak Company by developers using the Photo CD Access tool kit to incorporate read-and-display of Photo CD images into their software. Inclusion on this list does not imply that Kodak has verified the Photo CD functionality of these packages. The software revision level listed here may not be the only Photo CD-enabled version. Earlier versions may be similarly enabled and higher revisions are almost certainly Photo CD-enabled. Contact the software manufacturer directly to verify compatibility.

In addition, certain operating systems—Macintosh (Apple Photo Access/QuickTime extensions), NeXT Step, Sun Solaris, SGI and OS 2—have also incorporated Photo CD capabilities.

We invite developers to submit other products for possible inclusion in future listings of Photo CD-enabled software. Contact your Kodak representative for more information.



Dozens of applications can read and display Photo CD images.

In addition, certain operating systems—Macintosh (Apple Photo Access/QuickTime extensions), NeXT Step, Sun Solaris, SGI and OS/2—have also incorporated Photo CD capabilities.

Kodak On-line

Internet:

<ftp.kodak.com>

America On-line:

Keyword Kodak

World Wide Web:

<http://www.kodak.com>

CompuServe:

Go KODAK



Software Developer	Software	Application	Win	Mac	Other
20/20 Software, Inc.	Prostock 1.0	Image Management	•		
ACK Software	PixFolio 2.0	Image Management	•		
Adaptec	EZ-SCSI 2.0	Utility	•		DOS
Adobe Systems, Inc.	Photoshop 2.5	Image Enhancement	•	•	UNIX
Alchemy Mindworks, Inc.	Graphic Workshop	Image Enhancement	•		
Adobe	Fetch 1.0	Image Management		•	
Adobe	Pagemaker 5.0	Page Layout	•	•	
Altamira Software Corp.	Altamira Composer 1.0	Image Enhancement	•		
Ask Me Multimedia Center	Super Show & Tell 1.1	Multimedia	•		
AST Research	PhotoGraphics 1.0	Utility	•		
Asymetrix	Compel 1.0a	Multimedia	•		
Asymetrix	MediaBlitz! 3.0	Multimedia	•		
Broderbund	Family Tree Maker 2.0	Multimedia	•		
Commix SP	Display Master 1.0	Utility	•		
Corel Corp.	CorelDraw 4.0	Image Enhancement	•		
Corel Corp.	CorelSCSI Network Mgr. 1.0	Utility			DOS/ Novell
Corel Corp.	CD PowerPak 1.0	Utility	•		
CyberPuppy Software	Kid's Studio 1.0	Multimedia		•	
Deltapoint	Graphic Tools 1.0		•		
Eastman Kodak Company	Photo CD Access	Utility	•	•	DOS
Eastman Kodak Company	Photo CD Access Plus	Utility	•	•	
Eastman Kodak Company	PhotoEdge	Image Enhancement	•	•	
Eastman Kodak Company	Shoebox	Image Management	•	•	
Eastman Kodak Company	Create-It	Presentation		•	
Eastman Kodak Company	Arrange-It	Multimedia	•	•	
Eastman Kodak Company	Build-It	CD Authoring			Sun/ UNIX
Eastman Kodak Company	Acquire Module for Adobe Photoshop	Utility	•	•	
Eastman Kodak Company	Photo CD Access Developer Toolkit	Developer API	•	•	DOS/ UNIX
Electronic Imagery, Inc.	3D-IT 1.2	Image Enhancement	•		
Electronic Imagery, Inc.	Image Manager 3.4.2	Image Management	•		
GST Software	Designworks 2.0		•		
Human Software Co., The	CDQ Plug-in for Adobe Photoshop	Utility		•	
Human Software Co., The	Select Plug-in for Adobe Photoshop	Utility		•	
Image-In, Inc.	Color Professional	Image Enhancement			
Image North Technologies	Image Q 2.12	Presentation	•		
Software Developer	Software	Application	•		
In-Cat Systems	Magic Lantern 1.0ab	Utility	•		

Software Developer	Software	Application	Win	Mac	Other
InMedia Software, Inc.	Slides & Sounds 1.0	Multimedia		•	
Inner Media	Collage Complete 1.0	Image Management	•		
Iris Graphics	Iris FotoFinish 1.1	Utility		•	
JASC, Inc.	Paint Shop Pro	Utility	•		
Lead Technologies, Inc.	Leadview 3.0	Image Management	•		
Level Systems International	Multimedia Works	Multimedia	•		
Mathematica	Tempra Access 1.0	Utility	•		
Media Cybernetics, Inc.	Desktop Halo Manager	Utility	•		
Media Vision	Personal Daily PlanIt 1.0	Utility	•		
Meridian Data, Inc.	Visual CD	Utility	•		
Micrografx	Photo Magic 1.0	Image Enhancement	•		
Micrografx	Picture Publisher 4.0	Image Enhancement	•		
Microsoft	Word 6.0 w/Filter	Page Layout	•	•	
Microsoft	Powerpoint 4.0	Presentation	•	•	
Microsoft	Publisher 1.0	Page Layout		•	
Multimedia Store, The	Photo Factory 2.0	Multimedia	•		
Passport Designs, Inc.	Passport Producer Pro	Multimedia		•	
Purup Prepress	Photo Impress 1.0d19	Utility		•	
Quark, Inc.	QuarkXPress	Page Layout	•	•	
Sentfactor	Sentfactor Photo-CD Access 1.0	Utility	•		
Soft Craft, Inc.	Soft Craft Presenter	Presentation	•		
Software Dynamics	Personal Photo Viewer 1.0	Utility	•		
Storm Software	EasyPhoto	Image Enhancement	•		
Synoptics, Ltd.	Treasury	Image Management	•		
U-Lead Systems, Inc.	Image Pals 2	Image Management	•		
Xing Technology Corp.	VT-Compress 3.1	Utility	•		



Product Descriptions

Products

CAMERAS

- DC 40
- DCS 420
- DCS 460
- DCS 465
- EOS•DCS 5

PRINTERS

- XLS 8400
- XLS 8600
- EKTATHERM/XTRALIFE
Media

WRITABLE CD

- PCD Writer 225
- PCD Writer 600
- Disc Transporter
- Media/INFOGUARD
Protection System
- Multi-write software

SOFTWARE

- Photo CD Access Plus
- Arrange-It
- Build-It
- Photo Insert Software

PIW

- PIW 2220/2420
- PIW 4220

FILM & DOCUMENT SCANNERS

- RFS 2035 Plus Scanner
- RFS 3570 Scanner
- IMAGELINK Scanner 923
- IMAGELINK Scanner 990D

JUKEBOXES

- Optical Disk System 2000
- 560 ADL

COPIER-PRINTERS

- COLOREDGE 1560
- COLOREDGE 1565

OTHER

- CINEON System

KODAK Digital Camera 40

Features/Benefits

- Kodak imager provides 756 x 504 pixel resolution, suitable quality for an array of applications
- Imager captures 24-bit color to give pictures with true colors and good detail
- Acquire modules make it easy to transfer pictures into your MACINTOSH or WINDOWS System
- Imaging application lets you easily adjust pictures for optimum quality
- Exposure control lets you get better pictures in scenes with tricky lighting
- Software lets you choose high or low image compression to meet your storage needs
- Software lets you set camera to store 99 snapshot pictures or 48 high resolution pictures so you can meet your image quality needs.

Specifications

- Focus-free lens gives sharp pictures of subjects from 4 ft to infinity
- Automatic programmed exposure and automatic override (+/-1 f-stop)
- Shutter speed range: 1/30 to 1/175 second
- Aperture range: f/2.8 to f/16
- Built-in flash has 8 ft range and supports 3 modes: Automatic: Camera fires flash when it thinks it's needed
On: Flash fires each time you take a picture
Off: Flash doesn't fire at any time
- 4 AA lithium can record up to 800* pictures;
- 150+ images with 4 AA NiCad batteries
- Contains standard tripod mount
- Provides option to erase "all" images or "last" image
- Size: 5.3 in. (135mm) W x 6.1 in. (155mm) D x 2.2 in. (55mm) H
- Weight (with batteries installed): 1 lb. (0.5 kg)

Certified FCC Class B, UL, CSA, TUV

*Actual number varies depending upon number of flash pictures taken.

Computer requirements

IBM PC or compatible computer with 80386 or higher CPU and 4 MB RAM, WINDOWS Software 3.1 or later and MS-DOS 3.3 or later. APPLE MACINTOSH II Computer or higher with 4 MB RAM, operating software 7.0.1 or later. These preliminary specifications are subject to change.

For more information, check the Kodak forum (GO KODAK) ON CompuServe or call 1-800-23-KODAK (1-800-235-6325). In Canada, call 1-800-645-6325, ext. 35505

© Eastman Kodak Company, 1995. Kodak is a trademark.

KODAK Professional DCS 420 Digital Camera

Features/Benefits

- Provides 1.5 million-pixel (1012 x 1524) image, enabling you to reproduce large images
- Supports virtually all functions of the NIKON N90 Camera, including all metering modes
- Allows you to use your existing F-mount lenses, lighting equipment and photo techniques
- Features NIKON N90 Camera body that accepts all F-mount lenses
- Captures a full 36-bit color image, providing great shadow and highlight detail
- Provides previews of your image in seconds
- Accommodates hot shoe flash or other external flash
- Provides telephone-quality voice recording via internal microphone, so you can annotate your images as you record them
- Monochrome and extended infrared models available

Note: Similar quality camera available for CANON users in the KODAK Professional EOS•DCS 5 Digital Camera.

Hardware/Software Compatibility

APPLE MACINTOSH II and higher computers– minimum recommended memory is 8 MB RAM. The acquire module is an ADOBE PHOTOSHOP Software Plug-in for MACINTOSH Computer. IBM or compatible computer with 80386 CPU or higher and minimum 8 MB RAM; SCSI host adapters required (contact Kodak for specified models known to be compatible).

Specifications

- Image storage on removable storage card or RAM card (PCMCIA-ATA, up to Type III)
- 12 bits/color
- 14 mm x 9.3 mm imager magnifies focal length of the lens 2.5x
- SCSI interface
- ISO equivalent settings 100–400 for color; 200–800 for monochrome model
- Burst rate 2 images/second for 5 images, enabling camera to capture 5 images in just over 2 seconds
- Records approximately 1,000 images per battery charge, with 1 hour to recharge or unlimited number with AC battery charger/adaptor
- AC adapter/charger power requirement: 50 or 60 Hz. 110, 120, 220, 240V AC
- Size: 6.7 in. W x 4.5 in. D x 8.2 in. H (170 mm W x 114 mm D x 208 mm H)
- Weight (without lens): 3.75 lb. (170 kg)
- Certified FCC Class B, UL, CSA, TUV

Specifications are subject to change without notification.

Ordering Information

<u>MODELS</u>	<u>CAT No.</u>
DCS 420c-Color	868 8269
DCS 420m-Monochrome	137 4719
DCS 420IR	870 4363

<u>ACCESSORIES</u>	<u>CAT No.</u>
Removable Media (PCMCIA-ATA-compatible hard drive)	
Removable Media and Lens	865 6019
(PCMCIA-ATA-compatible hard drive and 28 mm NIKON Lens)	875 8377

For more information, check the Kodak forum
(GO KODAK) on CompuServe or call
1-800-23-KODAK (1-800-235-6325).
In Canada, call 1-800-465-6325, ext. 35505.

© Eastman Kodak Company, 1995. Kodak is a trademark. IC-1

KODAK Professional DCS 460 Digital Camera

Features/Benefits

- 6 million-pixel (2036 x 3060) image size
- 18 MB image file
- Traditional SLR operation
- NIKON N90 Camera body, accepts all F-mount lenses
- Monochrome and extended infrared versions available
- Telephone quality voice recording via internal microphone
- Supports hot shoe flash or other external flash

Hardware/Software Compatibility

APPLE MACINTOSH II, POWERBOOK, and QUADRA Computers—minimum recommended memory is 32 MB RAM. The acquire module is an ADOBE PHOTOSHOP Software Plug-in for MACINTOSH Computer.

Specifications

- Image storage on removable storage card or RAM card (PCMCIA-ATA, Type III); 17 images per 105 MB
- 12 bits/color

The electronic back supports nearly all functions of the NIKON N90 Camera, including all metering modes.

- Normal operation for camera exposure with all meter modes available
- 18.4 x 27.6 mm imager magnifies focal length only 1.3x
- SCSI interface with host
- ISO equivalent rating of 100
- Continuous frame capture rate of approx. 12 seconds/image
- 300 images/battery charge, with 1 hr. to recharge
- AC adapter/charger power requirement: 50 or 60 Hz. 110, 120, 220, 240V AC
- Approximate size: 6.7 in. W x 4.5 in. D x 8.2 in. (170 mm W x 114 mm D x 208 mm H)
- Approximate weight: 3.75 lb (170 kg)
- Certified FCC Class B, UL, CSA, TUV
- See your local Kodak representative for warranty details.

Ordering Information

<u>MODELS</u>	<u>CAT No.</u>
DCS 460c-Color	836 6718
DCS 460m-Monochrome	870 6814
DCS 460IR-Infrared (special order)	848 3042

<u>ACCESSORIES</u>	<u>CAT No.</u>
KODAK Color Filter Wheel	130 2447
Removable Media (105 MB PCMCIA-ATA-compatible hard drive)	865 6019
Removable Media And Lens (105 MB PCMCIA-ATA-compatible hard drive and 28 mm Nikon lens)	875 8377

For additional information, check the Kodak forum
(GO KODAK) on CompuServe or
call 1-800-23KODAK (1-800-235-6325).
In Canada, call 1-800-465-6325, Ext. 35505.

Specifications are subject to change without notification.

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KODAK Professional DCS 465 Digital Camera Back

Features/Benefits

- Two models: one for HASSELBLAD Cameras, and one for MAMIYA RB/RZ 67 Cameras and 4 x 5-in. view cameras
- 6 million pixel (2036 x 3060) image size
- 18 MB image file
- Traditional camera operation, including horizontal and vertical back orientation for MAMIYA RB/RZ 67 Cameras
- Works with professional flash systems; no special lighting required
- Telephone quality voice recording via internal microphone

Hardware/Software Compatibility

APPLE MACINTOSH II, POWERBOOK, and QUADRA Computers—minimum recommended memory is 32 MB RAM. The acquire module is an ADOBE PHOTOSHOP Software Plug-in for a MACINTOSH Computer.

Specifications

- 6 million pixel resolution
- Image storage on removable memory card or RAM card, PCMCIA-ATA Type III; 17 images per 105 MB
- 12 bits/color
- 18.4 x 27.6 mm imager
- SCSI interface
- ISO equivalent rating of 100; normal photographic exposures of live and action scenes
- Takes one shot every 12 seconds
- 100 images/battery charge; one hour to recharge battery
- ADOBE PHOTOSHOP Software plug-in for MACINTOSH Computer
- AC adapter/charger power requirement: 50 or 60Hz 110, 120, 220, 240 V AC
- Certified FCC Class B, UL, CSA, TUV

See your local Kodak representative for warranty details.

Ordering Information

<u>MODELS</u>	<u>CAT No.</u>
DCS 465Rc (color back for MAMIYA RB/RZ 67 Cameras or 4x5-in. view cameras)*	826 1521
DCS 465Rm (monochrome back for MAMIYA RB/RZ 67 Cameras or 4x5-in. view cameras)*	814 5617
DCS 465Hc (color back for HASSELBLAD Camera)	810 0364
DCS 465Hm (monochrome back for HASSELBLAD Camera)	148 0953

<u>ACCESSORIES</u>	<u>CAT No.</u>
Removable Media (105 MB PCMCIA-ATA, Type III compatible hard drive)	865 6019

* Comes with GRAFLOK Interface

For additional information, check the Kodak Forum (GoKODAK) on CompuServe or call 1-800-23KODAK (1-800-235-6325).
In Canada, call 1-800-465-6325, ext. 35505.

Specifications are subject to change without notification.

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KODAK Professional EOS • DCS 5 Digital Camera

Features/Benefits

- Provides 1.5 million-pixel (1012 x 1524) image
- Supports virtually all functions of the CANON EOS-1N Camera, including all metering modes
- Operates like traditional SLR, allowing you to use your existing lenses, lighting equipment and photo techniques
- Accepts all CANON EF lenses—known for their fast but quiet autofocus capability
- Captures 36-bit color images, providing great shadow and highlight detail
- Provides previews of your images in seconds
- Provides telephone-quality voice recording via internal microphone, so you can annotate your images as you record them
- Monochrome and extended infrared models are available for specialized applications

Note: KODAK Professional DCS 420 Digital Camera is available for Nikon camera users.

Hardware/Software Compatibility

APPLE MACINTOSH II and higher computers—minimum recommended memory is 8 MB RAM. The acquire module is an ADOBE PHOTOSHOP Software Plug-in for MACINTOSH Computer. IBM or compatible computer with 80386 CPU or higher and minimum 8 MB RAM; SCSI host adapters required (contact Kodak for specific models known to be compatible).

Specifications

- Image storage on removable storage card or RAM card (PCMCIA-ATA, up to Type III)
- 12 bits/color
- 14 mm x 9.3 mm imager magnifies focal length of the lens 2.5x
- SCSI interface
- ISO equivalent settings 100–400 for color; 200–800 for monochrome model
- Burst rate 2.3 images/second for 10 images, enabling camera to capture 10 images in just over 4 seconds
- Records approximately 1,000 images/battery charge with 1 hour to recharge or unlimited number with AC battery charger/adaptor
- AC adapter/charger power requirement: 50 or 60 Hz. 110, 120, 220, 240V AC
- Size: 6.3 in. W x 3.5 in. D x 7.5 in. H (160 mm W x 89 mm D x 191 mm H)
- Weight: (without lens): 3.8 lb. (171 kg)
- Certified FCC Class B, UL, CSA, TUV

Specifications are subject to change without notification.

Ordering Information

<u>MODELS</u>	<u>CAT No.</u>
EOS•DCS 5c–Color	152 2481
EOS•DCS 5m–Monochrome	841 9210
EOS•DCS 5IR–Infrared (special order)	806 1541

<u>ACCESSORIES</u>	<u>CAT No.</u>
Removable Media (PCMCIA-ATA-compatible hard drive)	865 6019
Removable Media and Lens (PCMCIA-ATA-compatible hard drive and 28 mm CANON Lens)	890 0201

For more information, check the Kodak forum
(GO KODAK) on CompuServe or call
1-800-23-KODAK (1-800-235-6325).
In Canada, call 1-800-465-6325, ext. 35505.

© Eastman Kodak Company, 1995. Kodak is a trademark. Canon and EOS are registered trademarks of Canon Inc.

IC-2

KODAK XLS 8400 PS Printer and Media

Features/Benefits

- Remarkable Speed. One of the fastest printers in its product class, this printer can maximize your productivity.
- Continuous-Tone Output, 24-bit color. Produces transparencies and prints with the kind of resolution and color saturation you would expect from a photo.
- Custom-Designed for Presentations. Delivers photo-realistic output in minutes.
- MACINTOSH, WINDOWS and UNIX System POSTSCRIPT Language Compatible. Supports POSTSCRIPT printing with MACINTOSH, WINDOWS and UNIX systems, allowing you to integrate this desktop printer into your environment with ease.
- Multi-Port Sensing. Allows multiple users through different connections.
- Network Compatible. Provides APPLETALK and CENTRONICS parallel interfaces. Optional network card adds ETHERTALK, NOVELL NETWARE and TCP/IP.
- Standard 32 MB RAM. Prints and processes images simultaneously, saving time and enhancing productivity.
- KODAK ULTRACOLOR Rendering. Provides vibrant, saturated color images and graphics. The XLS 8400 PS Printer delivers the kind of color-managed output you would expect from Kodak.
- ADOBE POSTSCRIPT Level 2 Page Description Language. Features real POSTSCRIPT language rather than a compatible imitation, preventing possible system conflicts and providing greater color rendering.

Specifications

Printing Process:

Thermal dye diffusion

Processor:

33 MHz R3081 RISC MIPS

Print Resolution:

300 pixels per inch continuous tone

Memory:

32 MB standard. Upgradable to 48 MB or 64 MB using industry standard 72 pin, 16 MB, 70 nanosecond SIMMs; additional memory allows more files to be downloaded

Input Tray:

100 sheet, 8.5" wide, adjustable length (11", 12", 14") is included with printer

CAT No. 101 8969

Print Speed:

Reflective prints: 5 milliseconds per line Transparency: 12 milliseconds per line

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

	Reflective prints	Transparency
CMY 8.0" x 8.9"	1.2	2.7
CMY 8.0" x 10"	1.3	3.0
CMY oversize 8.5" x 12"	1.5	3.6

Color Rendering:

POSTSCRIPT: KODAK ULTRACOLOR Rendering Dictionary or Level 1 rendering

Computer Interface:

CENTRONICS, LOCALTALK, SCSI for external font disk

Optional Network Card:

TCP/IP, ETHERTALK, NOVELL

Printer Drivers:

POSTSCRIPT: MACINTOSH and WINDOWS System Drivers with selectable anti-aliasing;
ADOBE PHOTOSHOP Export Plug-ins for MACINTOSH and WINDOWS Software

Fonts:

35 resident fonts

Physical Specifications

Operating Temperature:

59° to 86°F

Relative Humidity:

20 to 76%

Physical Dimensions:

12.0" H x 16.6" W x 22.5" D

Weight:

56 lbs.; 71 lbs. boxed

Operating Sound Level:

<57dB

Electrical Power Requirements:

- General: Automatically adjusts to input voltage of 90 to 250 VAC; 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 Ribbons

<u>Ribbon Name</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
KODAK EKTATHERM XLS Color Ribbon (100 images)	8.5" x 10"	887 3945

KODAK EKTATHERM XLS Oversize

Color Ribbon (100 images)	8.5" x 12"	871 5963
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KODAK EKTATHERM XLS Print Paper (100 sheets)

<u>Paper Size</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
8.5" x 11"	8.0" x 8.93"	861 4364
8.5" x 12"	8.0" x 10"	868 4623
8.5" x 14"	8.0" x 12"	856 5699
9.5" x 14"	8.5" x 12"	867 7759

KODAK EKTATHERM XLS Transparency Material (100 sheets)

<u>Transparency Size</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
8.5" x 11"	8.0" x 8.93"	852 6618
8.5" x 12"	8.0" x 10"	853 4059
8.5" x 14"	8.0" x 12"	852 9679

Accessories

	<u>Cat No.</u>
KODAK Network Interface Card (10BASE-T and 10BASE-2)	897 1244
KODAK A4 Adjustable Tray	851 1420
KODAK 9.5" x 14" Tray	882 0060
EKTATHERM Media Products also available in A4 and A4 wide sizes.	

<u>Hardware</u>	<u>Cat No.</u>
KODAK XLS 8400 PS Printer	116 2833

For more information about this or any other KODAK Digital Imaging Product, please call in U.S. 1-800-23-KODAK (1-800-235-6325); in Canada call 1-800-GO-KODAK (1-800-465-6325). Or check the Kodak forum (GO KODAK) on CompuServe or on the Internet @WWW.KODAK.COM.

KODAK XLS 8600 Printers and Media

Features/Benefits

- Presentation software users
- Slide service bureaus
- Advertising/Public Relations
- Education
- Graphic departments
- Training departments
- Sales and marketing groups
- Accounting/Finance
- Manufacturing
- Continuous-tone output, 24-bit color. The XLS 8600 Printers generate transparencies and prints with stunning color images and brilliant graphics. They also provide significantly higher image quality and print life than other desktop printers. Plus, they're specially designed to accommodate Photo CD images and scanner input.
- MACINTOSH and WINDOWS System compatibility. Both printers include ADOBE PHOTOSHOP Plug-ins for MACINTOSH and WINDOWS hardware and software, making either printer easy to integrate into your work environment.
- Network compatible. The XLS 8600 Printers are network capable. They also provide a SCSI interface for external hard drive connectivity and font storage. And all printer ports are active simultaneously. See the back cover for complete specifications.
- Standard 32 MB RAM. The standard available memory maximizes printer throughput. So while one image is being printed the next is being processed, saving time and enhancing productivity. No other desktop printer operates as efficiently. You can also upgrade to 48 MB or 64 MB.
- KODAK ULTRACOLOR Rendering Software. With our exclusive ULTRACOLOR Software, your customers can count on vibrant, saturated color images and graphics each and every time. ULTRACOLOR ensures the kind of color-managed output you expect from Kodak.
- ADOBE POSTSCRIPT Level 2 Page Description Language. Unlike competing printers, the XLS 8600 PS Printer features real POSTSCRIPT language rather than a compatible imitation. Built-in POSTSCRIPT prevents possible system conflicts and provides greater color rendering and overall functionality.
- Priced for the desktop. The XLS 8600 Printers are priced to meet the requirements of many professional office environments.
- 100-sheet tray capacity. Given this high capacity, customers will load the media tray less often and be able to set up longer print runs.
- Kodak's color expertise. The XLS 8600 Printers feature full 24-bit color, making it the most sophisticated color capability of any desktop printer in its class. Access 16.7 million colors and 256 shades of gray!

- Kodak thermal media. KODAK EKTATHERM XLS Media Products are renowned for their exceptional print life and tremendous image durability.
- Kodak technical support. Your customers can trust Kodak to respond promptly and thoroughly if they ever have difficulty with their XLS 8600 Printer or any other KODAK Digital Imaging Product.
- Kodak product warranty. In addition to Kodak technical support, customers are also backed by our one-year, on-site limited product warranty.

Printer Specifications

Printing Process:

Thermal dye diffusion

Processor:

33MHz R3081 RISC MIPS

Print Resolution:

300 pixels per inch continuous tone

Memory:

32MB standard. Upgradable to 48MB or 64MB using industry standard 72 pin, 16 MB, 70 nanosecond SIMMS. Additional memory allows more files to be downloaded.

Input Tray:

100 sheet, 8.5" wide adjustable length (11", 12", 14") is included with printer.

CAT No. 101 8969

Print Speed:

Reflective prints: 5 milliseconds per line

Transparency:

12 milliseconds per line

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

	Reflective prints	Trans- parency
CMY (8.0" x 8.9")	1.2	2.7
CMY (8.0" x 10")	1.3	3.0
CMY oversize (8.5" x 12")	1.5	3.6
CMY XtraLife (8.0" x 10")	1.7	2.6
B/W XtraLife (8.5" x 12")	1.0	1.2

Color Rendering:

Raster: KODAK TABLEMAKER Software. PostScript: KODAK ULTRACOLOR
Rendering Dictionary or level 1 rendering.

Computer Interface:

XLS 8600: SCSI (2 ports), CENTRONICS. XLS 8600 PS: SCSI (2 ports), CENTRONICS, LOCALTALK. Optional Network Card for both models: TCP/IP, Ethertalk, NOVELL.

Printer Drivers And Fonts Supplied:

Raster:

Photoshop Export Plug-ins for Macintosh and Windows.

PostScript: Macintosh and Windows System Drivers with selectable anti-aliasing.

Fonts:

35 resident fonts, plus 30 on disk.

Physical Specifications

Operating Temperature:

59° to 86°F

Relative Humidity:

20 to 76%

Physical Dimensions:

12.0"H x 16.6"W x 22.5"D

Weight:

56 lbs. (71 lbs. boxed)

Operating Sound Level:

<57dB

Electrical Power Requirements:

- General: Automatically adjusts to input voltage of 90 to 250V 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 XLS 8600 Printer Products

<u>Hardware</u>	<u>Cat No.</u>
KODAK XLS 8600 Printer	866 4849
KODAK XLS 8600 PS Printer	891 4996

For more information about this or any other KODAK Digital Imaging Product, please call in U.S. 1-800-23-KODAK (1-800-235-6325); in Canada call 1-800-GO-KODAK (1-800-465-6325). Or check the Kodak forum (GO KODAK) on CompuServe.

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KODAK PCD Writer 225

Features/Benefits

- Save up to 682 MB of data or 74 minutes of audio on a single CD
- Read or write CDs at conventional rates or twice the speed for increased productivity
- Convenient CD tray loads
- Standard 2 MB data buffer, expandable to 8 MB or 32 MB, minimizes buffer underrun conditions
- Direct Read During Write ensures highest data integrity on each CD
- Direct SCSI copy frees host for other applications and makes file duplication easy
- Supports SCSI write emulation, allowing for preformatting and testing without writing to the disc
- Multi-session capable, Orange Book II compatible
- Automatically creates TOC and PMA
- P & Q subcode programming designed for professional audio use
- Track At Once and Disc At Once compatibility
- Reads digital audio via SCSI
- Multi-session capable, multi-session enabled application software required
- An internal bar code reader, compatible with KODAK Writable CD Media with INFOGUARD Protection System, provides disc identification and disc tracking

Specifications

- 682 MB capacity in Mode 1 or 74 minutes of audio
- 1,000 msec. average access time
- 1,500 msec. maximum access time
- 152 KB/sec. conventional speed sustained Mode 1 transfer rate
- 307.2 KB/sec. double-speed sustained Mode 1 transfer rate
- 348.6 KB/sec. double-speed sustained Mode 2 Form 2 transfer rate
- 352.8 KB/sec. double-speed sustained audio transfer rate
- Standard SCSI-II interface
 - SCSI disconnect/reconnect during write, reads and other commands
 - Application Programming Interface and SCSI command sets available for integrators/developers (An ISO 9660 or other CD formatter is required prior to writing SCSI interface drivers)
- Compatible with MACINTOSH, DOS, WINDOWS and UNIX computer environments
- Complies with ISO 9660 file and High Sierra file and volume structure standards
- CD ROM, CD ROM XA, CD I, CD R, CD DA, CD Video and Photo CD compatibility
- 118 mm x 420 mm x 334 mm size (5.3" x 16.5" x 13.2")
- Operates in +5° to +40° C
- 25,000-hour MTBF reliability
- Certified FCC Class B, TUV, UL, CSA, CEBEC compliance

For additional information, check the Writable CD library in the Kodak forum (GOKODAK) on CompuServe. Or, call in the U.S. 1-800-CD KODAK (1-800-235-6325); in Canada, 1-800-GO KODAK (1-800-465-6325).

*Requires PCD 200 Series Disc Transporter Adaptor Kit and application software.

KODAK PCD Writer 600

Features/Benefits

- Record discs in any standard CD format.
- Read or write CDs at twice or six times conventional speed for highest productivity.
- Convenient CD tray loading.
- Positive pressure enclosure.
- 2 MB write buffer is standard, expandable to 4 MB or 8 MB.
- Ensure data read integrity with automatic error detection and correction algorithms.
- Direct Read During Write verification ensures highest data integrity on each CD.
- Industrial duty production class for robust, reliable operation.
- Firmware is upgradable via CD disc for longer product life and greater flexibility.
- Multisession capable, Orange Book II compatible.
- Track At Once and Disc At Once compatibility.
- Reads digital audio via SCSI.
- An internal bar code reader, compatible with KODAK Writable CD Media with INFOGUARD Protection System, provides disc identification and disc tracking.

Specifications

- 921.6 KB/sec sustained transfer rate—Mode 1
- 1058.4 KB/sec sustained transfer rate—Audio
- Standard SCSI-II interface
 - SCSI disconnect/reconnect during writes, reads, and other commands
 - Application Programming Interface and SCSI command sets available for integrators/developers (An ISO 9660 or other CD formatter is required prior to writing SCSI Interface drivers.)
- Self-switching power supply (operates from 100–240V, 50–60 Hz)
- 140 mm x 433 mm x 381 mm size (5.8" x 17.1" x 15")
- Complies with ISO 9660 file and volume structure standard
- CD-ROM, CD-ROM XA, CD-DA, CD-I, and Photo CD compatibility
- Operates in +5° to +40°C
- Certified FCC Class A, TUV, UL, CSA compliance

Host Hardware Requirements

1.2 GB local hard drive, dedicated to this application, with a sustained transfer rate of 1.2 MB/sec and average access time of 15 msec or less.

For additional information check the Writable CD library in the Kodak forum (GOKODAK) on CompuServe. Or, call in U.S. 1-800-CD KODAK (1-800-235-6325); in Canada 1-800-GO KODAK (1-800-465-6325).

KODAK PCD Writer 600

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WCD-123

KODAK Disc Transporter

Features/Benefits

- Ruggedly built for heavy-duty use in production environments.
- Reliable operation with integrated diagnostics on power-up and an automatic initialization process.
- Eight-second disc transfer rate speeds production.
- Automatically detects empty input spindles and full output spindles to help maintain high productivity.
- Spindles are easily loaded with CDs from the KODAK Media Bulk Pack.

Specifications

- Loads CDs from a 75-disc supply spindle.
- SCSI-II interface.
- Switchable SCSI termination.
- Uses any 100/240V, 50/60 Hz, 120 watt power source.
- Certified FCC Class A, TUV, UL, CSA compliance.
- H: 419 mm, W: 549 mm, D: 533 mm (16.5" x 21.6" x 21").
- Operates in +15° to 40° C.

For additional information check the Writable CD library in the Kodak forum (GO KODAK) on CompuServe. Or, call in U.S. 1-800-CD KODAK (1-800-235-6325); in Canada, call 1-800-GO KODAK (1-800-465-6325).

KODAK Disc Transporter

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WCD-127

The KODAK Disc Transporter comes with the standard mechanical interface for the KODAK PCD Writer 600. An optional interface kit for other KODAK PCD Writers is also available.

Additional input/output spindles available in 2-pack kits.

KODAK Writable CD Media with INFOGUARD Protection System

Features/Benefits

- Store up to 580 MB with 63-minute media and 682 MB with 74-minute media*
- Compatible with all leading CD writers and CD readers
- Record at speeds from 1 X (150 KB/sec) to 6 X (900 KB/sec)
- Record text, images, graphics and drawings on a single CD
- Preserve your information on KODAK Writable CD Media with INFOGUARD Protection System to ensure long data life and easy disc identification and organization
- Each disc has:
 - Stable organic dye recording layer
 - Scratch- and fingerprint-resistant overcoat
 - Unique bar code and numerical labeling; bar code is readable in KODAK PCD Writers
- Personalize each CD quickly and easily
- Share large amounts of information for 3¢ per megabyte or less
- Record books, reports or other data in small quantities and on demand—quickly and inexpensively
- Append information to your CD
- Read your information on industry-standard CD drives
- Available in individual jewel cases or convenient 50-disc bulkpack

Specifications

- CD write-once media
- 580 MB or 682 MB capacity in Mode 1*
- 120 mm outer diameter, 15 mm inner diameter
- 1.2 mm thickness
- Polycarbonate resin substrate
- 44.7 mm start diameter, 117 mm maximum diameter recording area
- 775-800 nm recording playback wavelength
- More than 70% reflection ratio
- 1.4 m/sec linear velocity
- Mechanical characteristics meet CD standards
- Operates in +5° C to 40° C, 5% to 95% relative humidity (non-condensing)

For more information, check the Kodak forum (GO KODAK) on CompuServe, or call 1-800-CD-KODAK (1-800-235-6325). In Canada, call 1-800-465-6325, ext. 35505.

*MB equivalent to 106 Bytes, KB equivalent to 103 Bytes. Capacity stated is for CD-ROM Mode 1 and will vary depending on mode and type of data.

KODAK Writable CD Media with INFOGUARD Protection System

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2/95. WCD-104R

Multi-Write Publishing Software for KODAK Writable CD Products

Features/Benefits

- Publish customized CDs in small quantities, quickly and affordably
- Create ISO 9660 volume and file structure for cross-platform CD interchange
- Append data in a 9660 CD volume with true multi-session writing—allows for logically adding, deleting and replacing directories/files on a recorded CD
- Write/access a virtual CD on hard disk
- Read & write Red Book Audio, with appropriate writer
- Write Yellow Book CD-ROM Mode 1, Mode 2 Form 1
- Operate on all popular platforms (see System Requirements)
- Write at single or double speed, with appropriate writer
- Write Mac HFS file structure, from Macintosh
- Select and organize directories/files to write
- Read and write media barcode
- Online Help
- Batch operation interface

System Requirements

- Kodak PCD Writer 200, 200 Plus, 225
- SCSI Hard drive with 300 KB/sec sustained transfer rate and minimum 15 msec average access time
- SCSI connector cable
- Mouse

For PC (DOS or Windows):

- 486/33MHz processor
- Minimum 8 MB RAM
- Adaptec 1542C SCSI host adapter, EZ-SCSI driver
- MS-DOS 5.0 or higher, with an EMS & XMS driver
- Windows version 3.1 or higher
- MSCDEX Extensions

For Macintosh:

- 68040 processor
- Minimum 8MB RAM
- OS 7.x

For Unix/Sun:

- Sparc processor
- OS 4.1.3

For additional information, check the Writable CD library in the Kodak forum (GOKODAK) on CompuServe. Or, call in U.S. 1-800-CD KODAK (1-800-235-6325); in Canada, 1-800-GO KODAK (1-800-465-6325).

Multi-Write Publishing Software for KODAK Writable CD Products

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WCD-130

KODAK PHOTO CD Access Plus software.

Applications

- Multimedia
- Publishing
- Education
- Photography
- Presentation graphics and more

Hardware/Software Compatibility

MACINTOSH version:

- Any MACINTOSH computer with QuickDraw software
- MACINTOSH System 6.05 or higher

WINDOWS version:

- IBM PC AT or compatible 80386 or 80486
- VGA display or better
- DOS 3.3 or higher
- MICROSOFT WINDOWS System 3.0 or higher

Both versions:

- 4 MB of RAM required, 8 MB recommended
- 4+ MB of hard drive free space (30 MB of disk space for loading full-resolution

Photo CD images recommended)

- CD ROM XA drive compatible with the KODAK Photo CD System to access Photo CD discs

Specifications

MACINTOSH version:

- Convert to RGB, grayscale, bitonal and all color QuickDraw software pixel depths, including 24-bit
- Export images to EPS, TIFF and PICT formats

WINDOWS version:

- Convert to 4-bit, 8-bit or 24-bit; grayscale, color or bitonal
- Export images to EPS, TIFF, RIFF, PCX and BMP (DIB) formats

Technical Support

For support or additional information, call 1-800-CD KODAK. In Canada call 1-800-GO KODAK. Outside the U.S. and Canada call 716-724-1021, ext. 52.

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DCR-263R

KODAK Arrange-It Photo CD Portfolio Layout Software

Features/Benefits

- Intuitively arrange interactive Photo CD Portfolio multimedia presentations which include images, text, graphics and audio
- Import Photo CD Master, Pro Photo CD Master and Portfolio formats, as well as PICT, BMP and TIFF images and WAV or AIFF audio files
- Use frame designs from most popular illustrator and image editing programs, including KODAK Create-It Photo CD Presentation software or KODAK PHOTOEDGE Photo CD Software, in your Photo CD Portfolio disc layouts
- Import existing Photo CD Portfolio layouts for a quick start
- Quickly start your layout using the text outline mode
- Organize images and audio files into collections
- Drag and drop images, and audio clips into your layout
- Create sophisticated routing paths graphically
- Develop logical visual layout of non-linear presentations
- Control all aspects of Photo CD Portfolio disc structure, including time-out settings, error handling, delays, transitions, image pac settings
- Emulate playback on screen before your disc is produced
- Verify layout to check for unconnected paths, island nodes, overlapping selection areas and other common problems
- Specify data file directory for inclusion in your Photo CD Portfolio disc
- Export KODAK Photo CD Portfolio Script Language for disc creation using KODAK Build-It Photo CD Portfolio Disc Production software (call 1-800-CD KODAK for the Build-It software service provider nearest you)

Hardware/Software Compatibility

MACINTOSH version

- MACINTOSH II or higher with hard drive
- System 7.0.1 or higher
- 8-bit or 24-bit color monitor
- 3 MB of disk space for program storage
- 4 MB RAM
- CD ROM XA drive compatible with the KODAK Photo CD system to access Photo CD discs

WINDOWS version

- 386 MPC level 1 IBM PC or compatible computer
- MICROSOFT WINDOWS 3.1
- DOS 5.0 or higher
- SVGA display or better
- 8 MB of RAM
- 40 MB of disk space
- CD ROM XA drive compatible with the KODAK Photo CD system to access Photo CD discs

Note: The WINDOWS version is distributed on CD ROM disc only.

Specifications

MACINTOSH version

- Import images in Photo CD Master, Pro Photo CD Master, Photo CD Portfolio, TIFF and PICT formats
- Import AIFF audio files (11KHz, 22KHz and 44.1KHz sampling rates)
- Export KODAK Photo CD Portfolio Script Language
- Export a PICT image of your layout

WINDOWS version

- Import images in Photo CD Master, Pro Photo CD Master, Photo CD Portfolio, TIFF and BMP formats
- Retrieve WAV audio files (11KHz, 22KHz and 44.1KHz sampling rates)
- Export KODAK Photo CD Portfolio Script Language
- Output BMP layout image

Technical Support

For support or additional information, call in U.S. 1-800-CD KODAK; in Canada 1-800-GO KODAK; outside the U.S. and Canada (716) 724-1021, ext. 52.

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DCI-267R

KODAK Build-It Photo CD Portfolio Disc Production Software

Features/Benefits

- Write interactive Photo CD Portfolio discs for multimedia, archiving, distribution or other applications
- Import Photo CD Portfolio script language, TIFF and PICT images and AIFF audio files
- Convert PICT, TIFF or Sun Raster images into PCD Image Paks — up to 16base resolution or 2048 pixels x 3076 pixels
- Copy files from other Photo CD discs to a new Photo CD Portfolio disc
- Graphical user interface with source/destination representation lets you copy files to new discs with drag-and-drop simplicity
- Specify the image resolution you want — base, 4base or 16base
- Write up to 700 base resolution images on a single Photo CD Portfolio disc
- Write other types of files with your images in ISO 9660-format directories to a new Photo CD Portfolio disc
- Multi-session capability lets you append files to your image-only Photo CD Portfolio disc or data disc for maximum storage
- True cross-platform capability lets you play back Portfolio discs on a CD ROM drive on MACINTOSH or WINDOWS systems, or TV with a player compatible with Photo CD

Hardware/Software Compatibility

- Sun Sparc2 or Sparc10 workstation
- 64 MB RAM
- Two 1.05 GB hard drives
- 8 bit or 24 bit graphic display
- Multi-session CD ROM XA drive
- Writer compatible with Photo CD with additional SCSI bus card
- Removable magnetic media recommended for script file exchange with Create-It Photo CD presentation software and Arrange-It Photo CD Portfolio layout software

Specifications

- Import images in Photo CD Master, Pro Photo CD Master, Photo CD Portfolio, TIFF, PICT and Sun Raster formats
- Write using Photo CD Portfolio Description Language
- Import AIFF audio files with 11, 22 or 44KHz sample rates
- Output to any writer compatible with Photo CD

Technical Support

For support or additional information, call in U.S. 1-800-CD KODAK; in Canada 1-800-GO KODAK; outside the U.S. and Canada (716) 724-1021, ext. 52.

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DCI-268

Let Your Pictures Tell The Story

***Kodak Digital Science*TM Photo Insert Software and Photo CD Images Make It Fast, Easy and Very Affordable**

Now it's a snap to add the power of high-quality color or black-and-white images to your everyday business communications with *Kodak Digital Science*TM Photo Insert software, Photo CD images, and your word processor.

You Click on the Image, We Do The Rest.

Create a variety of great-looking reports, documents and proposals with a simple click of your mouse. Photo Insert software comes with easy-to-use, image-ready document templates. You won't need to worry about image resolution when resizing or color management when printing. Just double-click on the images you want to include. Photo Insert software works seamlessly with popular word processing programs on both *Macintosh* or *Windows* Systems and neatly places images in your documents.

*Kodak Digital Science*TM Photo Insert software is ideal for a range of business environments, including real estate, architecture, advertising and legal services, where images add impact and customized communications need to be produced quickly and affordably every day.

***Kodak Digital Science*TM Photo Insert Software is Easy to Get!**

Photo Insert software is yours for the asking when you bring your film in for transfer onto a *Kodak Digital Science*TM Photo CD disc.

Participating photofinishers will add the software and templates to the disc, along with your images. Photo CD image transfer services are available at thousands of photoprocessing sites.

FEATURES

Time Saving Templates. Photo Insert software features easy-to-use templates for many common business documents. You can add powerful color or black-and-white images to sales proposals, product brochures, newsletters, documentation and many other daily communications — and do it all in minutes.

True Colors. Great Prints. The software uses Kodak color management technology to ensure good-looking prints from your Photo CD images—on desktop inkjet printers or electrophotographic printers.

Easy Integration. Photo Insert software works with most common word processing applications using OLE2 technology.

SYSTEM REQUIREMENTS

MACINTOSH

Photo Insert won't install unless all system requirements are met.

- 68040 processor or greater
- System software v7.0, 7.1, or 7.5
- 12 MB physical RAM (not including virtual RAM created by RAM Doubler or similar programs)
- Photo CD-capable CD ROM drive*

One of the following applications MUST be installed BEFORE you install Photo Insert:

- MICROSOFT WORD v6.0.1 or MICROSOFT WORKS v4.0

WINDOWS

Photo Insert won't install unless all system requirements are met.

- 80486 SX/33 MHz processor or greater
- WINDOWS v3.1 or greater (MICROSOFT WINDOWS 95 isn't currently supported)
- 8 MB physical RAM (minimum), 12 MB virtual RAM (minimum)
- Photo CD capable CD-ROM drive*

One of the following applications MUST be installed BEFORE you install Photo Insert:

- MICROSOFT WORD v6.0, MICROSOFT WORKS v3.0, MICROSOFT PUBLISHER v2.0, or NOVELL WORDPERFECT v6.1

* To ensure Photo CD compatibility, check with your CD ROM drive manufacturer or visit the Kodak home page on the Worldwide Web at <http://www.kodak.com/>.

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symbol, and Photo CD are trademarks of
Eastman Kodak Company.

The KODAK Photo CD Imaging Workstations

Feature/Benefits

- Enhancement controls allow automatic adjustment color balance, density saturation, and contrast.
- Images at Base resolution and Base/4 can be watermarked with the design of the customer's choice, so that they may be viewed but not output.
- Images at 64 Base, 16 Base, and 4 Base can be encrypted, preventing them from being accessed; lower-resolution versions of these images are still accessible on the disc for viewing.
- System allows custom cropping of images, semi-automatic removal of dust and scratches, and verification of the "video safe" area.
- Tag images with text identifying copyrights, photographer names, and other information.
- SunSPARC Computer technology performs high-speed reading and writing simultaneously.
- Optional file export feature allows transmission of files to other computers in the network, or to image manipulation systems such as the KODAK PREMIER System.

New Features

- Data manager, monitor, and CD-ROM drive have been integrated, maximizing ease-of-use and productivity.
- New user interface employs an application similar to WINDOWS Software and allows customization of screen characteristics for greater speed and convenience.
- Enhanced security features include watermarking and basic data-level encryption.
- System is compatible with updated versions of KODAK Photo CD Access Plus and Acquire software.

The KODAK Photo CD Imaging Workstation 2220

This system gives you an economical entry into the digital domain, allowing you to offer digital imaging services to clients who utilize 35 mm images.

Configuration

The KODAK Photo CD Imaging Workstation 2220 consists of:

- PCD Scanner 2000
- PCD Data Manager S 420 with 17"(432 mm) digital monitor
- PCD Writer 225
- KODAK XLS 8600 Printer

The KODAK Photo CD Imaging Workstation 2420

This enhanced system offers you all the 35 mm digital imaging capabilities of the PIW 2220, plus greatly increased speed and throughput. In addition to the components of the PIW 2220, it utilizes the KODAK PCD Film Scanner Auto Gate 2000, as well as two writers — without requiring the purchase or use of a buffer box.

Configuration

The KODAK Photo CD Imaging Workstation 2420 consists of:

- PCD Scanner 2000
- PCD Data Manager S 420 with 17" (432 mm) digital monitor
- KODAK XLS 8600 Printer
- PCD Writer 225 (two units included)
- KODAK PCD Film Scanner Auto Gate 2000

For more information about this or any other KODAK Digital Imaging Product, please call in U.S. 1-800-23-KODAK (1-800-235-6325); in Canada call 1-800-GO-KODAK (1-800-465-6325). Or check the Kodak forum (GOKODAK) on CompuServe.

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The KODAK Photo CD Imaging Workstation 4220

Features/Benefits

- Data manager, monitor, and CD-ROM drive have been integrated, maximizing ease-of-use and productivity.
- New user interface employs an application similar to WINDOWS Software and allows customization of screen characteristics for greater speed and convenience.
- Enhanced security features include watermarking and basic data-level encryption.
- System is compatible with updated versions of KODAK Photo CD Access Plus and Acquire software.
- Scans 4" x 5", 120, and 35 mm formats.
- Scan speed is virtually doubled when the system is used in conjunction with the KODAK Professional PCD Scanner 4045.
- Images at Base resolution and Base/4 can be watermarked with the design of the customer's choice, so that they may be viewed but not output.
- Images at 64 Base, 16 Base, and 4 Base can be encrypted, preventing them from being accessed; lower-resolution versions of these images are still accessible on the disc for viewing.
- Enhancement controls allow automatic adjustment color balance, density saturation, and contrast.
- System allows custom cropping of images, semi-automatic removal of dust and scratches, and verification of the "video safe" area.
- Images can be tagged with text identifying copyrights, photographer names, and other information.
- SunSPARC Computer technology performs high-speed reading and writing simultaneously.
- Optional file export feature allows transmission of files to other computers in the network, or to image manipulation systems such as the KODAK PREMIER System.

Configuration:

The KODAK Photo CD Imaging Workstation 4220 consists of:

- PCD Scanner 4045
- PCD Data Manager S 420 with 17" (432 mm) digital monitor
- PCD Writer 225
- KODAK XLS 8600 Printer

For more information about this or any other KODAK Digital Imaging Product, please call in U.S. 1-800-23-KODAK (1-800-235-6325); in Canada call 1-800-GO-KODAK (1-800-465-6325). Or check the Kodak forum (GOKODAK) on CompuServe.

KODAK Professional RFS 2035 Plus Film Scanner

Features/Benefits

- Provides automatic color correction, giving you great first-time scans with minimal effort
- Performs all critical scan functions internally and independently of your computer, maximizing productivity regardless of the computer's speed
- Scans color and black-and-white images; positive or negative
- Features custom-designed lens that delivers exceptional image sharpness
- Offers user-selectable image sharpening, increasing the perceived sharpness of a scanned image
- Provides an operator-guided autofocus feature that saves time and produces consistent, high-quality scans
- Performs automatic calibration every time you power up
- Delivers fast preview (< 10 sec), enabling you to judge color and composition quickly; the easy-to-use preview feature includes cropping, color balance and brightness controls
- The RFS 2035 Plus Film Scanner software optimizes scanning results for a wide variety of 35 mm film

Specifications

- Accommodates 35 mm mounted or strip transparencies and negatives
- Offers any user-specified resolution up to 2000 ppi
- Produces color scans in approximately 40 seconds at 2K x 3K; approximately 11 seconds at 1K x 1.5K
- Operates with SCSI Interface
- Interface cards needed: MACINTOSH Computer—none; IBM or PC-compatible—future; Domain or ASPI-supported SCSI host adapter card
- Optional stack loader for slides is available
- Requires 8 MB RAM for MACINTOSH, IBM or PC-compatible computer (32 MB RAM or more recommended for fastest scan speeds)
- Performs automatic calibration
- Acquires 12 bits for each color channel
- Includes APPLE ADOBE PHOTOSHOP and PC TWAIN acquire modules
- Power requirement: 120 V, 60 Hz, 1.0 A; 100 V, 50/60 Hz, 1.0 A; 220/240 V, 30 Hz, 0.5 A
- W: 13.25 in. (33.7 cm) x L: 17 in. (43.2 cm) x H: 8.0 in. (20.3 cm)
- Weighs 14 lb., 8 oz. (6.6 kg)
- CSA (NRTL/C)—certified to both U.S. and Canadian standards; TUV

For more information about this or any other KODAK Digital Imaging Product, please call in U.S. 1-800-23-KODAK (1-800-235-6325); in Canada call 1-800-GO-KODAK (1-800-465-6325).

Or check the Kodak forum (GOKODAK) on CompuServe.

* Times may vary depending on system and software configurations.

KODAK Professional RFS 3570 Film Scanner

Features/Benefits

- Provides automatic color correction, giving you great first-time scans with minimal effort
- Performs all critical scan functions internally and independently of your computer, maximizing productivity regardless of the computer's speed
- Scans color and black-and-white 35 mm, 46 mm, 70 mm and 120 format film; positive or negative
- Features custom-designed lenses that deliver exceptional image sharpness
- Offers user-selectable image sharpening, increasing the perceived sharpness of a scanned image
- Provides an operator-guided autofocus feature that saves time and produces consistent, high-quality scans
- Performs automatic calibration
- Delivers fast preview (< 10 sec), enabling you to judge color and composition quickly; the easy-to-use preview feature includes cropping, color balance and brightness controls

Specifications

- Includes holders for 35 mm mounted or strip transparencies and negatives, and 120 format film (for 6 x 7 cm, 6 x 6 cm); optional holders available for 6 x 9 cm, 6 x 4.5 cm, 4.5 x 6 cm, 46 mm and 70 mm
- Offers any user-specified resolution up to 2000 ppi
- Produces color scans in under one minute at full resolution; approximately 15 seconds at half resolution
- Operates with SCSI Interface
- Interface cards needed: MACINTOSH Computer—none; IBM or PC-compatible—Future Domain or ASPI-supported SCSI host adapter card
- Requires 8 MB RAM for MACINTOSH, IBM or PC-compatible computer (32 MB RAM or more recommended for fastest scan speeds)
- Acquires 12 bits for each color channel
- Includes APPLE ADOBE PHOTOSHOP and PC TWAIN acquire modules
- Power requirement: 120 V, 60 Hz, 1.0 A; 100 V, 50/60 Hz, 1.0 A; 220/240 V, 30 Hz, 0.5 A
- W: 13.25 in. (33.7 cm) x L: 21 in. (53.4 cm) x H: 8.0 in. (20.3 cm)
- Weighs 16 lb., 13 oz. (7.5 kg)
- CSA (NRTL/C)—certified to both U.S. and Canadian standards; TUV

For more information about this or any other
KODAK Digital Imaging Product, please call
in U.S. 1-800-23-KODAK (1-800-235-6325);
in Canada call 1-800-GO-KODAK (1-800-465-6325).
Or check the Kodak forum (GO KODAK) on CompuServe.
* Times may vary depending on system and software configurations.

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KODAK IMAGELINK™ Scanner 923

Features/Benefits

- Image header files contain image information (e.g., image size, bar code data and sequence number), facilitating image file management
- Available as a simplex (1-sided) or duplex (2-sided) scanner
- Computer-based diagnostics and modular design accelerate and simplify problem diagnosis and repair to minimize downtime
- Selectable resolution from 300 to 67 dpi accommodates a range of applications

Optional KODAK IMAGELINK Accessories

- Semi-Automatic Feeder; Patch Reader; Bar Code Reader; OCR Processor; Document Printers; Endorser; Footswitch; Check Feeder; Check Stacker; Advanced Document Controller; Scanner 900 to Scanner 923 Upgrade Package

Specifications

Document Dimensions

- Length 2.5-20 in. (64-508 mm)
- Width 2.5-12 in. (64-305 mm)
- Thickness up to .014 in. (.36 mm)

Imaging Selectable Scan Resolution

- 300 to 67 dpi in 2% increments

Performance

Rated transport speed:

- 108 pages/min (8 1/2 x 11" portrait mode)
- 144 pages/min (8 1/2 x 11" landscape mode)

Host Connection

- Via SCSI 2 interface with Image Header (Device driver and toolkit software packages available to support a number of system platforms.)

Environmental Requirements

- Temperature 50 to 86° (15 to 30° C)
- Relative humidity 15 to 76%
- Heat dissipation: 5730 Btu; 6046 k (maximum)
- Acoustical emissions <67dB in operation <62 dB idle

Dimensions

- Height: 46-48 in. (177 - 122 cm)
- Width 29 in. (74 cm) without console, 60 in. (152 cm) with console
- Depth 51 in. (130 cm)
- Weight: <630 lbs. (<227 kg)

Electrical Requirements

- Voltage Hz/cycles Amps 90-110VAC 50-60 Hz, 1 phase 15 Amps @ 100VAC 104-127VAC 50/60 Hz, 1 phase 12 Amps @ 120VAC 190-242VAC 50 Hz, 1 phase 10 Amps @ 220VAC 208-254VAC 50 Hz, 1 phase 10 Amps @ 240VAC

Agency Approvals

- UL1950 US safety
- CSA 950 Canadian safety
- EN60 950/09.87 European safety (GS mark for TUV)
- DOC Canadian EMI
- VCCI/EN55022 Japanese EMI
- EN55022/EEC499(82) European EMI
- EN55022 Australia and New Zealand
- VFG 243(91) German EMI (pending)

Specifications subject to change without notification.

For information on imaging equipment

Eastman Kodak Company Business Imaging Systems Rochester, NY 14650 1-800-243-8811

Kodak Canada Inc. Business Imaging Systems Toronto, Ontario M6M 1V3

Eastman Kodak Company Latin American Region 6100 Blue Lagoon Dr. Suite 400 Miami, FL 33126

In other areas, contact the Kodak company serving your country.

KODAK IMAGELINK™ Scanner/Microimager 990

Features/Benefits

- Image header files contain image information (e.g., image size, bar code data and sequence number), facilitating image file management
- Available as a simplex (1-sided) or duplex (2-sided) scanner
- Computer-based diagnostics and modular design accelerate and simplify problem diagnosis and repair to minimize downtime
- Selectable resolution from 300 to 67 dpi accommodates a range of applications

Optional KODAK IMAGELINK Accessories

- Semi-Automatic Feeder; Patch Reader; Bar Code Reader; OCR Processor; Document Printers; Endorser; Footswitch; Check Feeder; Check Stacker; Advanced Document Controller; Scanner 900 to Scanner 923 Upgrade Package

Specifications

Document Dimensions

- Length 2.5 to 20 in (64 to 508 mm)
- Width 2.5 to 11 in. (64 to 305 mm)
- Thickness Up to .014 in. (.36 mm)

Imaging Selectable Scan Resolution

- 200 dpi scan resolution

Performance

Rated transport speed:

- 90 pages/min (8 1/2 x 11" portrait mode)
- 120 pages/min (8 1/2 x 11" landscape mode)

Host Connection

- Via SCSI 2 interface with Image Header (Device driver and toolkit software packages available for popular system platforms to simplify integration with host imaging system)

Environmental Requirements

- Temperature 59 to 86° (15 to 30° C)
- Relative humidity 15 to 76%
- Heat dissipation (maximum) 5200 Btu 6046 kj
- Acoustical emissions <67dB in operation <62dB idle

Dimensions

- Height 48 in (122 cm)
- Width 29 in (74 cm) without console, 60 in (152 cm) with console
- Depth 51 in (130 cm)
- Weight 750 lbs (337.5 kg)

Electrical Requirements

- Voltage Hz/cycles Amps 90-110VAC 50/60 Hz, 1 phase 15 Amps @ 100VAC 104-127VAC 50/60 Hz, 1 phase 12 Amps @ 120VAC 190-242VAC 50 Hz, 1 phase 10 Amps @ 220VAC 208-254VAC 50 Hz, 1 phase 10 Amps @ 240VAC

Agency Approvals

- UL1950 US safety
- CSA 950 Canadian safety
- EN60 950/09.87 European safety (GS mark for TUV)
- DOC Canadian EMI
- VCCI/EN55022 Japanese EMI
- EN55022/EEC499(82) European EMI
- EN55022 Australia and New Zealand
- VFG 243(91) German EMI (pending)

Specifications subject to change without notification.

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Miami, FL 33126

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Kodak Ektatherm XLS

KODAK EKTATHERM Ribbons

<u>Ribbon</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
KODAK EKTATHERM XLS Color Ribbon (100 images)	8.5" x 10"	887 3945

KODAK EKTATHERM XLS Oversize Color Ribbon (100 images)	8.5" x 12"	871 5963
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KODAK EKTATHERM XtraLife Color Ribbon (100 images)	8.5" x 10"	873 39251
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KODAK EKTATHERM XtraLife Black Ribbon (150 images)	8.5" x 12"	857 01521,2
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KODAK EKTATHERM XLS Print Paper (100 sheets)

<u>Paper Size</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
8.5" x 11"	8.0" x 8.93"	861 4364
8.5" x 12"	8.0" x 10"	868 4623
8.5" x 14"	8.0" x 12"	856 5699
9.5" x 14"	8.5" x 12"	867 7759

KODAK EKTATHERM XLS Transparency Material (100 sheets)

<u>Transparency Size</u>	<u>Max. Image Size</u>	<u>Cat No.</u>
8.5" x 11"	8.0" x 8.93"	852 6618
8.5" x 12"	8.0" x 10"	853 4059
8.5" x 14"	8.0" x 12"	852 9679

<u>Accessories</u>	<u>Cat No.</u>
PostScript Language	876 5737
Upgrade Kit for XLS 8600	
KODAK Network Interface Card	897 1244
KODAK A4 Adjustable Tray	851 1420
KODAK 9.5 x 14 in. Tray	882 0060

EKTATHERM Media Products also available in A4 and A4 wide sizes.

Note 1: Only laminates to paper. When printing transparency material with the XTRALIFE Ribbons, the laminate patch is bypassed.

Note 2: The Xtralife Black Ribbon is a limited availability product and plans for its future availability are not fully developed.

KODAK Optical Disk System 2000

Features and Benefits

- Reliability supported by on-site diagnostics via accessible keypad and remote diagnostics via modem and Kodak's Worldwide Service—measured by cycles without error and time to restore operation
- Exceptional uptime; minimized need for service calls; shorter call duration; assured availability of information
- On-site upgrades; forward and backward compatible
- Expanded product life; future generation hardware will be able to read previous generation media, even when intermixed in a library
- Scalable architecture; starting as low as 222 GB of storage expandable by adding or mixing drives to 1.983 TB of storage
- Pay for more capacity when it's needed; flexibility in upgrade paths
- High-performance, dual cartridge-handling robotics
- Greater productivity
- 1.0 Mb/second data transfer rate
- Fast access to information
- SCSI-II drive and robotics interface
- Maximum software interface convenience; easy integration with other products
- Worldwide regulatory approvals
- Auto-selection of power sourcing
- Worldwide use
- When inserted in library, disk automatically removed from cartridge for storing in slot
- Eliminates possibility of cartridge-born contaminants affecting read mechanisms of drives
- 21 sq. ft. footprint
- Smallest footprint/MB storage in the industry
- KODAK Optical Disk stores 14.8 GB of information
- Stores as much information as 37 four-drawer file cabinets (300,000 pages) or 14,800 1 MB floppy disks
- System drives capable of decreasing size and increasing density of laser encoding on disk surface
- Greater than 45% increase in disk capacity
- Mini clean room; air filtration system and quiet operation
- Ideal in typical office environments; no need for costly computer rooms or clean room
- Backed by 14" (356 mm) ISO standard
- 30-year Media life; data integrity; accuracy, security and longevity

Computer Environment Supported

- IBM MVS in centralized computer environments
- OS/2 and NOVELL (Lotus Notes) for larger LANs
- DEC VMS
- NT

Specifications/Connectivity

Number of drives:

1-15, 1-25, 1-50	1
1-75, 1-100, 1-134	1
2-25, 2-50, 2-75, 2-100	2

Number of controllers:

1-15, 1-25, 1-50	1
1-75, 1-100, 1-134	1
2-25, 2-50, 2-75, 2-100	1 or 2

Interfaces:

Controller	SCSI-II and SCSI-I
Library robotics	SCSI-II or RS-232

Performance:

Disk change time	6.5 seconds
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Drive data transfer rate: 1.0 MB/second

Start drive time: 2.4 seconds

Stop drive time: 1.5 seconds

Drive avg. access time:

Data w/in tracking window	9 ms
Data w/in current band	100 ms
Data w/in adjacent band	450 ms
Data w/in disk	700 ms

Controller burst rate:

Asynchronous-SCSI	1.5 MB/second
Synchronous SCSI	4.0 MB/second

Controller buffer size: 128 KB (64 KB dual buffer)

Competition

The predominant competitors in the large-format jukebox market are SONY, CYGNET and FILENET.

Warranty/Service Agreement

The System 2000 carries a 90-day warranty from date of delivery. Expanded coverage may be purchased during the warranty period.

Standard Service Agreements for 9, 12 and 24 months, which include travel, parts and labor, may be purchased at the time of equipment sale to become effective on the day after expiration of the warranty period.

Customized Service Agreements are available to meet specific customer needs—multiple-year contracts, non-standard hours, scheduled maintenance calls during non-production hours, priority emergency response times, on-site parts stocking, per-call service, and scheduled installation, removal and/or relocation.

All KODAK Disk Libraries

Media Comparison

Medium	MB	Retail Price (S)*	Price/MB (S)*
DASD	500	2,000	4.00
8.5" x 11" paper	0.002	0.01	4.50
Removable DASD	80	200.00	2.50
5.25" HD floppy disk	1.4	1.50	1.00
5.25" removable data cartridge	45	70.00	1.56
5.25" MO disk	1,300	125.00	.10
9-track tape	180	12.00	0.07
3480 tape cartridge	400	6.00	0.02
KODAK Writable CD Media	650	22.00	0.03
Kodak 14" Optical Disk Media	14,800	925.00	0.06
12" Optical Disk Media	10,200	720.00	0.07

* All prices are approximate as of 9/1/94

New System 2000 Drive with 14.8GB Media

Features/Benefits

SCALABLE ARCHITECTURE -- with a flexible range of capacity from 222GB to 1.98TB, and by adding or mixing drives, you purchase only the capacity you need, with the option of expanding as your requirements grow. You pay as you go, not before.

GREATER CAPACITY -- the enhanced System 2000 drive allows for a greater than 30% increase in disk capacity by decreasing the size and increasing the density of the marks encoded by the laser on the disk surface.

EASIER INTEGRATION -- SCSI 2 interfaces are built in to both the drive and library for easier integration.

GREATER PRODUCTIVITY -- from dual cartridge handling robotics.

BASED ON ISO STANDARDS -- the System 2000 supports the 14" ISO standards, and builds on that base to offer compatibility and customer-driven enhanced operation. Each disk, in addition to being backed by the 14" (356mm) ISO standard, allows customers to be confident of data integrity and a projected 30 year media life.

LOW COST/MEGABYTE -- this unprecedented capacity is accomplished in a 21 sq. ft. footprint. In fact, the System 2000 offers the smallest footprint/megabyte available in data storage. Information is directly accessible at a fraction the cost of DASD. To give it perspective, one Kodak 14.8GB optical disk stores as much information as 37 four-drawer file cabinets, or 14,800 one-megabyte floppy disks.

FASTEST EFFECTIVE DATA TRANSFER RATE -- the System 2000 optical controller sustains a 1.0MB/sec. data transfer rate. Burst rates are 4.0MB/sec. with SCSI.

SIMPLE UPGRADES -- upgrades can be performed on site, with simple modifications that do not require replacement of the entire system. Under the Kodak Investment Protection Strategy, upgrades are forward and backward compatible, adding years to the life of your investment.

PROTECTED INFORMATION FOR THE LONG TERM -- customer information will be secure, accurate and readable in each generation of Kodak optical product upgrade. Under the Kodak Investment Protection Strategy, customers will receive full disclosure of development plans to maximize their storage strategies and assure a storage management architecture life cycle of up to 10 years. Future generation hardware will be able to read previous generation media, even when intermixed in a library. For data security, the sealed, removable media cartridges allow disks to be changed easily, or stored for safekeeping.

TOTAL SYSTEM RELIABILITY -- the System 2000 library, media and drives were each created by Kodak as interrelated systems components resulting in a demonstrated uptime of 99.6%, *the highest rating in the large format optical disk industry*, the System 2000 minimizes the need for servicing.

INCREASED SERVICEABILITY -- the System 2000 is designed with an accessible diagnostic keypad for on-site service pre-analysis during system operation, as well as remote diagnostic capability. When service is needed, the System 2000 is backed by the experienced, world-class Kodak service organization. All in all, the security you need to assure smooth operation.

OFFICE ENVIRONMENT OPERATION -- the System 2000 features a unique air filtration system -- a mini clean room -- and extremely quiet operation that allows use in normal office environments instead of costly computer rooms. And when inserted into the library, the disk is automatically removed from its cartridge, and stored in a slot *without the cartridge* eliminating the possibility of cartridge-born contaminants affecting the read mechanisms.

YOUR PATHWAY TO THE FUTURE -- whether your storage application is data or business documents, medical imaging (CAT scans, MRI's, X-rays or patient records), scientific or engineering information, or graphics, printing or publishing imaging, the KODAK Optical Disk System 2000 -- with scalable configuration, SCSI 2 robotics, simplified serviceability and investment protection -- provides you with a clear pathway to the future of data storage. Don't risk your investment, or your data. Choose Kodak and the optical standard that offers safety and security into the next century.

Specifications

Performance

Sustained Transfer Rate 1.0 MB/sec.

Start Drive time: 2.4 sec.

Stop Drive time: 1.5 sec.

Power

100 to 127V single phase @ 10 amps

max; 50/60 Hz

200 to 240 V single phase @ 5.7 amps

max; 50/60 Hz

Average Access Time

Data Within Tracking 9 ms

Window

Data Within Current Band 100 ms

Data Within Adjacent Band 450 ms

Data Within Disk 700 ms

Physical

Height 24.5 in. (622 mm),

with front dress panel

Width (without Bezel) 17.5 in. (455 mm)

Depth 28.1 in. (714 mm)

Latency (one RPM)

<u>Band</u>	<u>Rate</u>
Band 0	45 ms
Band 1	38 ms
Band 2	27 ms
Band 3	22 ms
Band 4	19 ms

Environmental

Ambient Temperature	Operating 50 ^o to 104 ^o F (10 ^o to 40 ^o C)	Non-Operating -10 ^o to 150 ^o F (-23 ^o to 66 ^o C)
Relative Humidity (Non-Condensing)	10% to 80%	5% to 86%
Altitude	-1000 to 7000 ft	(-304.8 to 2133.6m)
Media Support	14.8GB, 10.2 GB 6.8GB	

Weight 220 lbs. (100 kg)

Reliability

MTBF: 10,000 hrs.
Operating Life: 50,000 hrs.

KODAK Optical Disk System 2000 Controller Specifications**Performance**

Interface	SCSI-2 or SCSI-1
Burst Rate	

Asynchronous--SCSI	1.5 MB/sec.
Synchronous--SCSI	4.0 MB/sec.
Buffer Size	128 KB (64 KB dual buffer)

Environmental

Ambient Temperature	Operating 50 ^o to 104 ^o F (10 ^o to 40 ^o C)	Non-Operating -10 ^o to 150 ^o F (-23 ^o to 66 ^o C)
Relative Humidity (Non-Condensing)	10% to 80%	5% to 86%
Altitude	-1000 to 7000 ft	(-304.8 to 2133.6 m)

Power

100 to 127V single phase @ 4.2 amps max;
50/60 Hz
200 to 240 V single phase @ 2.5 amps max;
50/60 Hz

Physical

Height 7.0 in. (178 mm)
Width (Without Bezel) 17.7 in. (450 mm)
Depth 24.0 in. (610 mm)
Weight 60 lbs. (27 kg)

Reliability

MTBF: 21,000 hrs.
Operating Life: 50,000 hrs.

KODAK Optical Disk 2000 -- 14.8 GB Specifications**User Capacity**

	Per Band	Per Window
Band 0	2.71 GB	2.9 MB
Band 1	1.85 GB	2.4 MB
Band 2	1.33 GB	2.0 MB
Band 3	.90 GB	1.7MB
Band 4	.62 GB	1.4MB
Per Sector	1024	
Per Side	7.4 GB	
Recording Density	25,200 bpi	
Track Density	25,399 tpi	

Physical (Cartridge)

Height 1 in. (25.4 mm)
Width 16.6 in (421.84 mm)
Length 17.5 in. (443.76 mm)
Weight
Disk and Cartridge 5.5 lbs. (2.5 kg)
Disk (Without Cartridge) 2.25 lbs.
(1.02 kg)

Environmental

	Long-Term Storage	Shipping
Ambient Temperature	50 ^o to 86 ^o F (10 ^o to 30 ^o C)	-20 ^o to 140 ^o F (-29 ^o to 60 ^o C)
Relative Humidity (Non-Condensing)	5% to 80%	5% to 90%

KODAK Optical Disk System 2000/Cabinet**Dimension**

Height	41 in (1040 mm)
Width	24 in (610 mm)

Depth	36 in. (915 mm)
Weight	530 lbs. (250 kg)with drive and controller

All specifications subject to change without notice

KODAK Optical Disk System 2000 Library

	1-15, 1-25, 1-50	1-75, 1-100 1-134	2-25, 2-50, 2-75, 2-100
No. of drives	1	1	2
No. of controllers	1	1	1 or 2
Controller interface	SCSI-2 & SCSI-1	SCSI-2 & SCSI-1	SCSI-2 & SCSI-1
Robotics interface	SCSI-2 or RS-232	SCSI-2 or RS-232	SCSI-2 or RS-232
Average Disk Exchange time	6.5 seconds	6.5 seconds	6.5 seconds
Dimensions (HXWxD)	72x57x33 in. (1830x1448x 846 mm)	72x93x33 in. (1830x2350x 846 mm)	72x93x33 in. 1830x2350 846 mm)
Area (sq. ft.)	13	21	21
Mass (Maximum including drive(s), controller(s), media	1440 lbs. (655 kg)	1981 lbs. (901 kg)	2325 lbs. (1057 kg)
Operating Temp	50 to 104 F (10 C to 40 C)	50 to 104 F (10 C to 40C)	50 to 104 F (10 C to 40 C)
Operating humidity Non-Condensing	10% to 80%	10% to 80%	10% to 80%
Altitude	-1000 ft. to 7000 ft. (-304.8 m to 2133.6 m)	-1000 ft. to 7000 ft. (-304.8 m to 2133.6 m)	-1000 ft. to 7000 ft. (-304.8 m to 2133.6 m)
Power	120/208 V, 3 phase "WYE", 16 amps maximum per phase, 60 Hz; 200-240 V, 3 phase, 10 amps per phase, 50 Hz	120/208 V, 3 phase "WYE", 16 amps maximum per phase, 60 Hz; 200-240 V 3 phase, 10 amps per phase, 50 Hz	120/208 V, 3 phase "WYE", 16 amps maximum per phase, 60 Hz; 200-240 V, 3 phase, 10 amps per phase, 50 Hz

All specifications subject to change without notice.

Product Configurations

Model	No. of drives	No. of disks	Storage Capacity (GB)
2-25	2	25	370
2-50	2	50	740
2-75	2	75	1110
2-100	2	100	1480
1-15	1	15	222
1-25	1	25	370
1-50	1	50	740
1-75	1	75	1110
1-100	1	100	1480
1-134	1	134	1983

KODAK Automated Disk Library, Model 560E

Features/Benefits

- Dual media-handling mechanism and high-performance media exchange with unique media pre-positioning command
- 25% faster information access than competitive ADLs
- Reliability supported by diagnostics and Kodak's Worldwide Service; on-site upgrades
- 99.6% proven uptime; expanded product life; minimized need for service calls; shorter call duration
- Scalable from 18 to 60 slots, from 12 GB up to 78 GB
- Pay for more capacity when it's needed
- Choose from 1–5 drives from different leading drive manufacturers—WORM, erasable, multifunction; including new 1.3 GB drives
- Mix and match system; users can maintain existing files; select new drives on basis of application fit
- Unique control panel displays user information and service diagnostics
- Ease of use; maximum reliability
- Worldwide regulatory approvals
- Auto-selection of power sourcing
- Multiple language display codes and operator guides (English, French, German, Italian, Japanese, Spanish)
- Worldwide use
- Flexible drive support, ADL robotics control, media management, volume and file management, applications interfaces, UNIX, VMS, DOS and OS 2 operating systems, applications packages such as NOVELL NetWare and LOTUS Notes
- Broad software and system support
- Dual carriage robotics handle two disks
- 30% greater productivity
- Takes up less than 3 square feet; quiet operation
- Compact footprint; equivalent to a 2-drawer file cabinet; fits under a desk; ideal in typical office environments
- External switches for SCSI settings
- Easy access to SCSI settings

Specifications/Connectivity

Drive compatibility:

5.25" form factors—WORM, erasable, multifunction

Disk compatibility:

5.25" ISO cartridges

Supported drives:

IBM 1.3 GB multifunction

Literal 1.0 GB Worm

MaxOptix 1.0 GB multifunction

MaxOptix 1.3 GB multifunction

Pioneer 650 MB multifunction

Sony 650 MB multifunction

Sony 1.3 GB multifunction

Interfaces:

Library robotics	SCSI-II or RS-232C
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Optical disk drive	SCSI-II
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Performance:

Exchange disks at drive	4.4 seconds
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Data-to-data	Under 10 seconds
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Warranty/Service Agreement

The ADL 560E carries a one-year warranty from date of delivery. Flexible warranty plans are available on the KODAK ADL, Model 560E, depending on customer need.

Annual Service Agreements may be purchased at the time of equipment sale to become effective on the day after expiration of the warranty period. Service Agreements may be purchased at a later date, subject to Kodak inspection of the equipment to verify it is up to standard specifications.

Kodak ColorEdge 1560

Features/Benefits

Handle a wide variety of creative jobs right at the control panel with:

- Multiple Copies: 1-100
- Manual Two-Sided Copying
- Automatic Exposure
- Marker Edit
- Covers Mode
- Standby Mode
- Transparency Interleaving
- User-Adjustable Paper Drawers
- Continuous Paper Feeding
- Self Calibrating
- Image Control System
- Interrupt Mode
- Two-Page Separation
- Access Code
- Mode Memory (9 settings)
- Recall Mode (3 previous settings)
- Anti-Counterfeit Device

Variable Reduction and Enlargement

Standard Mode: 100%

Zoom Mode:

25%-400% in 1% Increments

Preset Reduction:

25%, 50%, 64%, 73%, 78%

Preset Enlargement:

121%, 129%, 200%, 400%

XY Manual/ Auto Zoom

XY Ruler Zoom

Multi-Page Enlargement

Color Balance

Control the colors on the page.

One Touch Colors

Color Balance

Saturation Adjustment

Hue Adjustment

Exposure Adjustment

Color Creation

Be creative and explore all the color capabilities.

Accent Color

Color Gradation

Color Overlay

Area Fill

Full 4 and 3 Color

Background Color

Gradations

Negative/Positive

Color Conversion

Image Overlay

- Color on B&W Original
- B&W on Color Original
- Color Separation

Image Creation

Create special effects or manipulate the images.

Special Effects

- Image Repeat
- Slanted Image
- Texture
- Mirror Image
- Outline/3-D/Shadow
- Gradation
- Solarization

Specifications

Copy Speeds:

- 7 cpm (Full 4-color) Letter
- 28 cpm (Mono-color/CMYK) Letter

First Copy Speed:

- 27 Seconds (Full 4-color) Letter
- 17 Seconds (Black) Letter

Warm-up Time:

- 8 Minutes (@68 F/20 C)

Imaging

- Resolution – 400 dpi
- Gradation – 256 per color

Paper Feeding

- Drawer (500 sheets) x 2
- Stack Bypass (50 sheets)
- Total Paper Capacity 1,050 sheets
- Paper Weights:
 - 20 - 28 lb Paper in the Drawers
 - Up to 60 lb Cover, 90 lb Index, or
- Transparencies in the Stack Bypass

Acceptable Originals

- Sheets, Books and
- 3-Dimensional Objects

Maximum Original Size:

- 11" x 17"

Copy Sizes:

- Letter (8.5 " x 11")
- Legal (8.5 x 14")
- Ledger (11" x 17")

Stack Bypass:

- 8.5" x 11" to 11" x 17"

Site Specifications

Compact enough to fit almost anywhere.

Dimensions:

29 3/4" (H) x 30 3/8" (W) x 40"(D)

Weight: 567 lbs.

Site (Space) Requirements: Please ask your Sales Representative

Electrical Requirements:

115V, 60 Hz, 15 amp

Power Consumption: 1.5kW (maximum)

Additional Accessories

Kodak ColorEdge 1560/1565 RDF with a SADP

Kodak ColorEdge 1560/1565 Editor

Kodak ColorEdge 1560/1565 Film Projector

Kodak ColorEdge 1560/1565 Sorter

Kodak ColorEdge 1560/1565 Film Scanner III

Kodak ColorEdge 1560/1565 IP-ED Board

(for connectivity)

Kodak ColorEdge 1560/1565 Interface Board

(for connectivity)

Kodak ColorEdge 1560/1565 Rotary Slide

Changer for film projector

Kodak ColorEdge 1565

Features/Benefits

Handle a wide variety of creative jobs right at the control panel with:

- Automatic Duplexing
- Automatic Exposure
- Self Calibrating - Image Control System
- Editor with Color Palette
- Marker Edit
- Covers Mode
- Two-Page Separation
- Transparency Interleave
- User-Adjustable Paper Drawers
- Continuous Paper Feeding
- Interrupt Mode
- Standby Mode
- Access Code
- Mode Memory: 9 settings
- Recall Mode: 3 Previous Settings

Variable Reduction and Enlargement

Reduction and Enlargement

Standard Mode: 100%

Zoom Mode:

25%-400% in 1% Increments

25%, 50%, 64%, 73%, 78%

121%, 129%, 200%, 400%

XY Ruler Zoom

Multi - Page Enlargement

Preset Reduction:

Preset Enlargement:

XY Manual/Auto Zoom

Color Balance

Control the colors on the page.

One Touch Colors

Color Balance

Saturation Adjustment

Hue Adjustment

Exposure Adjustment

Custom Color

Be creative and explore all the color capabilities.

Accent Color

Color Gradation

Color Overlay

Area Fill

Full 4 and 3 Color

Background Color

Gradation

Negative/Positive

Color Conversion

Image Overlay

Add impact to your black & white documents.

- Color on B&W Original
- B&W on Color Original
- Color Separations

Image Creation

Create special effects or manipulate the images.

Special Effects

- Image Repeat
- Slanted Image
- Texture
- Negative/Positive
- Mirror Image
- Outline/3-D/Shadow
- Gradation
- Solarization

Selective Edit

- Erase Inside/Outside
- Accent Color
- Full 3 or 4 Colors
- Color Conversion
- Color Gradation
- Background Color
- Color Overlay
- Outline/3-D/Shadow
- Texture
- Negative/Positive
- Color Balance
- Saturation Adjustment
- Hue Adjustment
- Accent Color
- Color Conversion
- Color Gradation
- Color Filter
- Area Fill

Specifications

Copy speeds:

- 7 cpm (Full 4-color) Letter
- 28 cpm (Mono-color/CMYK) Letter

First Copy speed:

- 27 seconds (Full 4-color) Letter
- 17 seconds (Black) Letter

Warm-up Time:

- 8 minutes (@68°F/20°C)

Imaging

- Resolution – 400 dpi
- Gradation – 256 per Color

Paper Feeding

- Drawers (500 sheets) x 3

Stack Bypass (50 sheets)

Total Paper Capacity: 1,550

Paper Weights:

20 - 28 lb. Paper in the Drawers

Up to 60 lb Cover, 90 lb Index, or Transparencies in the Stack Bypass

Acceptable Originals

Sheets, Books and

3-Dimensional Objects

Maximum Original Size:

11" x 17"

Copy Sizes:

Letter (8.5 " x 11")

Legal (8.5 x 14")

Ledger (11" x 17")

Stack Bypass:

8.5" x 11" to 11" x 17"

Site Specifications

Compact enough to fit almost anywhere.

Dimensions:

29 3/4" (H) x 30 3/8" (W) x 40" (D)

Weights: 619 lbs.

Site (Space) Requirements: Please ask your Sales Representative

Electrical Requirements:

115V, 60 Hz, 15 amp

Power consumption: 1,5kW

CINEON

CINEON OVERVIEW:

Cineon is a state-of-the-art digital film system designed to scan 35 and 65 mm motion picture film into digital data and digitally manipulate images seamlessly for special effects and restoration purposes during the post-production process of feature films, cinema commercials and television commercials.

Cineon digital film products began shipping in September, 1993.

CINEON TEAM:

Kodak's Cineon team is part of the Advanced Technology Products group in the Motion Picture and Television Imaging division.

PRODUCTS:

Genesis Digital Film Scanners: Designed to be the most "film faithful" scanners in the industry, the Cineon Genesis digital film scanners convert analog film into digital data without compromising original image integrity. Cineon scanners are the only scanners capable of capturing the full range of imaging characteristics in motion picture negative film.

Utilizing CCD laser technology, the Genesis scanners are now the benchmark for scanning quality in the industry. With over a century of Kodak technology behind them, the Genesis scanners capture an average of 40 megabytes per frame for Academy aperture film. The scanners convert VistaVision, Cinemascope and Full aperture film and are configured to scan either 35 mm or 65 mm formats.

Cineon Image Compositing and Retouching Software:

Designed to run on Silicon Graphics (SGI) workstations, Cineon software provides two key benefits.

Image Look Management

Cineon software's superior image look management tools include a unique degrain/regrain feature to manipulate an image's grain signature, and a "dustbusting" node to digitally remove dirt, dust and other flaws from an original film negative.

PRODUCTS:

Cineon provides an unmatched color management system. The system supports common file formats and linear computer generated images (CGI) in addition to logarithmic film images. Cineon software provides color conversions tools to

maintain the uniformity and accuracy of color within both formats. The Cineon color management system also includes calibrated monitors to ensure visual accuracy when color correcting images for special effects and restoration purposes.

Cineon also includes the Academy-award winning Ultimatte compositing algorithms for creating superior blue or green screen composites.

Improved Workflow Management

The Cineon digital film system is designed to deliver improved workflow management capabilities during the digital post production process. Developed for the SGI platform, Cineon software uses a standard UNIX operating system and an open UNIX database. Key features include a "flowgraph," resolution independent image processing functions as well as interactive and batch processing capabilities.

The Cineon flowgraph interface provides multi-layer, in-context control of the image compositing process, allowing each layer of a complex composite to be edited independently. As work progresses, all information is saved to a job description file, so any processing step can be finalized, restored or edited. Unlike the conventional layering technique used in video post production, the Cineon flowgraph eliminates the need to restart and recreate all creative work involved in assembling a composite.

Cineon is the only system on the market which provides complete image resolution independent capabilities. The Cineon digital film system accepts image elements of any resolution and can resize or reformat those images appropriately for compositing. Only Cineon allows users to work at multiple resolutions within a single project, then convert or reformat imagery for output at any resolution or image file format.

The Cineon digital film system also supports both interactive and batch processing, allowing the systems workflow profile to be customized to meet a customer's specific image processing needs, while taking into account their requirements for interactivity, throughput and price.

CINEON CUSTOMERS:

Cineon Genesis Scanners and workstations are currently used at top post-production and visual effects studios worldwide, including Hollywood, London, Paris, Toronto, Montreal, Tokyo, Munich and in Denmark.

CINEON EXECUTIVES:

Mike Inchalik, Cineon General Manager, Advanced Technology Products group

Glenn Kennel, Cineon Marketing Manager, Advanced Technology Products group

David Cok, Cineon Workstation Development Manager, Advanced Technology Products group



Product Photos

Products

CAMERAS

- DC 40
- DCS 420
- DCS 460
- DCS 465
- EOS•DCS 5

PRINTERS

- XLS 8400
- XLS 8600
- XLT 7720
- EKTATHERM Media

WRITABLE CD

- PCD Writer 225
- PCD Writer 600
- Disc Transporter
- Media
- Printable Disc
- Multi-Write Software

SOFTWARE

- Photo CD Access Plus
- Arrange-It
- Build-It

Photo CD PLAYER

- Portable Player N2000

PIW

- PIW 2220/2420
- PIW 4220

FILM & DOCUMENT SCANNERS

- RFS 2035 Plus Scanner
- RFS 3570 Scanner
- IMAGELINK Scanner 923
- IMAGELINK Scanner 500
- IMAGELINK Scanner 990D

JUKEBOXES

- Image Library 30
- Optical Disk System 2000
- 560 ADL

COPIER-PRINTERS

- COLOREDGE 1525
- COLOREDGE 1550
- COLOREDGE 1560/1565

OTHER

- CINEON System
- KODAK Picture Exchange
- Digital Print Station

KODAK Professional DCS 420 Digital Camera



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KODAK Professional DCS 460 Digital Camera



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Product Specifications](#)

KODAK Professional DCS 465 Digital Camera Back



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KODAK Professional EOS•DCS 5 Digital Camera



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KODAK XLS 8400 PS Digital Printer



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KODAK XLS 8600 & XLS 8600 PS Digital Printers



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Product Specifications](#)

KODAK XLT 7720 Digital Continuous Tone Printer



KODAK EKTATHERM XLS Media Products



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KODAK PCD Writer 225



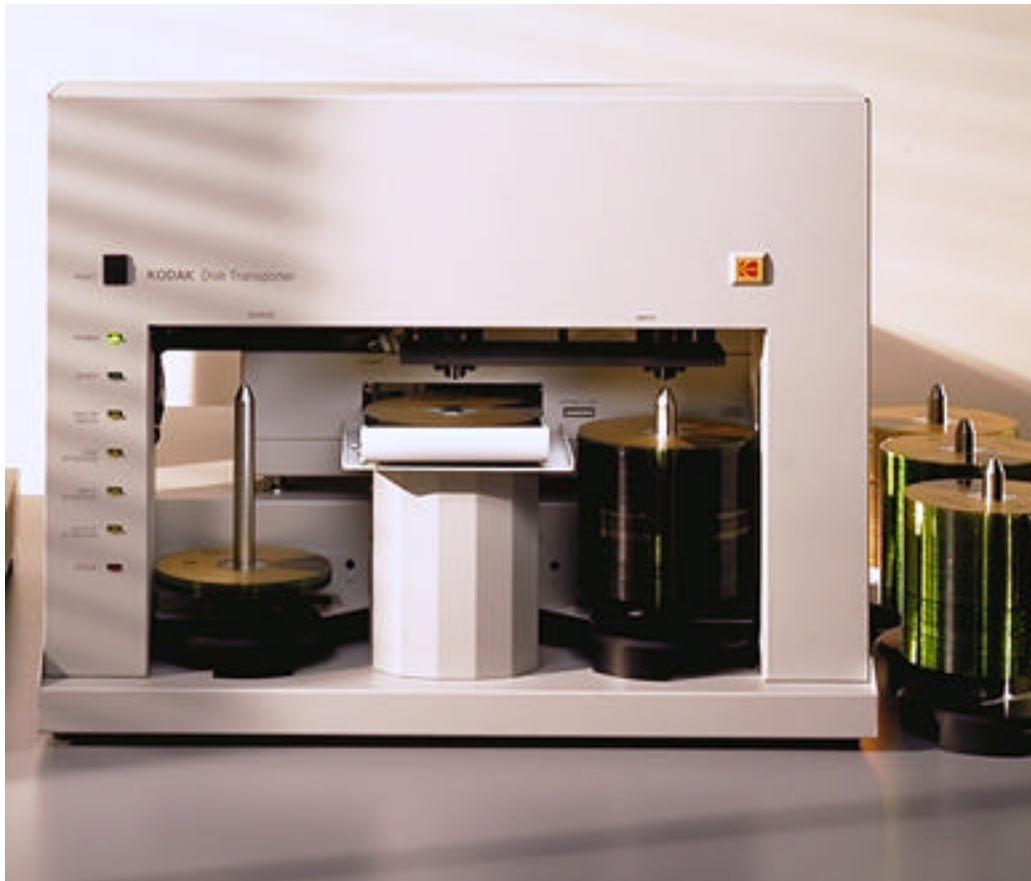
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KODAK PCD Writer 600



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KODAK Disc Transporter



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KODAK Writable CD Media



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KODAK Photo CD Access Plus Software



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KODAK Arrange-It Photo CD Portfolio Layout Software



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KODAK Build-It Photo CD Portfolio Disc Production Software



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Multi-Write Publishing Software for KODAK Writable CD Products



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KODAK Photo CD Portable Player N2000



KODAK Photo CD Imaging Workstation 2220/2400



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KODAK Photo CD Imaging Workstation 4220



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KODAK Professional RFS 2035 Plus Film Scanner



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KODAK Professional RFS 3570 Film Scanner



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KODAK Professional Image Library (PIL) 30



KODAK Digital Print Station



KODAK DC 40 Digital Camera



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KODAK Printable Disc Media



KODAK IMAGELINK Scanner 923



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KODAK IMAGELINK Scanner 500



KODAK IMAGELINK Scanner 990D



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KODAK Optical Disk System 2000



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KODAK Automated Disk Library, Model 560



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Product Specifications](#)

KODAK ColorEdge 1525 Copier-Printer



KODAK ColorEdge 1550 Copier-Printer



KODAK ColorEdge 1560/1565 Copier-Printer



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CINEON Digital Film System



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KODAK Picture Exchange

