

# Barneyscan.

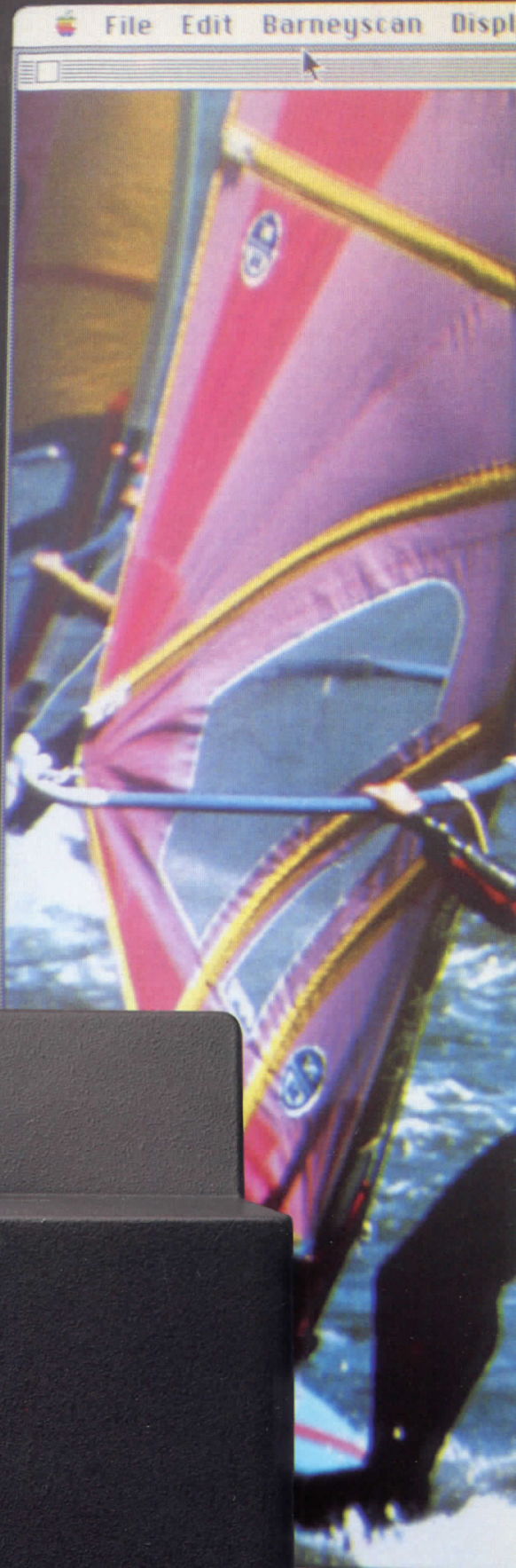
## Drop in a Slide, Then Download Computer Graphics

Barneyscan brings photorealism to computers and computer power to slides. Barneyscan automatically digitizes 35mm color or monochrome slides for use on the Macintosh II, PC/AT, Sun 386i, or other workstations on networks. Barneyscan's stunning color accuracy, quality, and reliability compete with scanners in the \$300,000 range at a fraction of the cost. In short, Barneyscan is a gateway to make slides a more creative, productive medium, introducing them into innovative, real-world applications like:

- an integrated hypertext network and slide image database for course study at Cornell University Medical College.
- desktop "mechanicals" that allow the Day in the Life book publishers to lay out, crop, and size digitized images on-screen, speed production, and save thousands of dollars.
- desktop color separations of scanned images for McGraw-Hill's bi-weekly Aviation Week supplement, costing only one third of conventional prepress expense while improving color quality.

Monitor image scanned from 35mm slide on Barneyscan.

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arneyscan consists of a self-contained desktop scanner unit, an expansion card and menu-driven software that interfaces directly with the Macintosh II, PC/AT, or to other workstations through local area networks. The software controls simple, high resolution scanning of 35mm slides, as well as subsequent manipulation of the digitized image's brightness, contrast, size, and cropping. Scans can be saved in formats read by all popular paint, page layout and color separation programs.

Barneyscan's color fidelity, speed, ease of use, and low cost provide major cost savings and new revenue opportunities to corporate and professional users. It introduces slides to all the possibilities of electronic pre-press, photo retouching, and business slides, as well as CD-ROM storage and interactive video.

Barneyscan Corporation's dedication to providing system solutions for digital photography on the desktop has resulted in the introduction of the unprecedented electronic photo processing package, *BarneyscanXP*. This powerful program is now included with every Barneyscan Mac II scanner, and enables users to retouch, modify or completely transform photographs with the creativity and freedom traditionally available only on expensive dedicated workstations.

Barneyscan's main features:

**Speed and Ease of Use** Barneyscan digitizes color slides in approximately 3 minutes, depending on slide density. Monochrome slides scan in 30 seconds. Proprietary control software includes a simple, menu-driven interface. A complete manual explains Barneyscan operation with straightforward examples.

**Compatibility** Barneyscan interfaces directly to Pagemaker, Quark, RIO, TIPS, Ventura and other page layout and paint programs. Files generated include TIFF, TARGA, PICT, PICT2, LUMENA, and ARTISAN (depending on the platform).

**Exposure Control** Exposure can be set to one of 400 values, either manually or automatically. Automatic exposure sets the scan speed and exposure so that the brightest part of the image has maximum output, even if the original is a dark slide. Precise manual adjustment for special cases is aided by a built in "Digital Scope" display.

**Image Processing** To provide the best possible tools for taking advantage of computer graphics, Barneyscan includes a powerful software package. It allows a variety of options for manipulating and enhancing scanned images, including on-screen color correction, brightness and contrast control, cropping and sizing, unsharp masking for edge enhancement, and conversion from color to black and white. For Macintosh users *BarneyscanXP* extends these capabilities with: comprehensive masking options which allow easy selection and modification of image elements; variable feather edge of selection masks resulting in clean "pastes", requiring little or no touch up; dithering to produce realistic images on a standard 8 bit Apple monitor while maintaining the integrity of the file in over 16,000,000 colors. *XP* tools include: lasso, marquee, grabber, zoom, eraser, sharpen, rotation, smudge, pencil, paintbrush, eyedropper, and airbrush.

**Resolution** Barneyscan samples slides at 1,000 pixels per inch to produce a matrix of 1,520 x 1,024 lines. The software is capable of resizing to match output of up to 5,000 x 3,400 pixels. Every pixel is sampled to 8 bits for each color — red, green, and blue; totaling 24 bits and producing 16.8 million colors. Each of the 1,024 sensor elements is individually compensated to assure uniformity. Digital focus, for numerically precise adjustments, maximizes sharpness for slide mounts of different thickness.

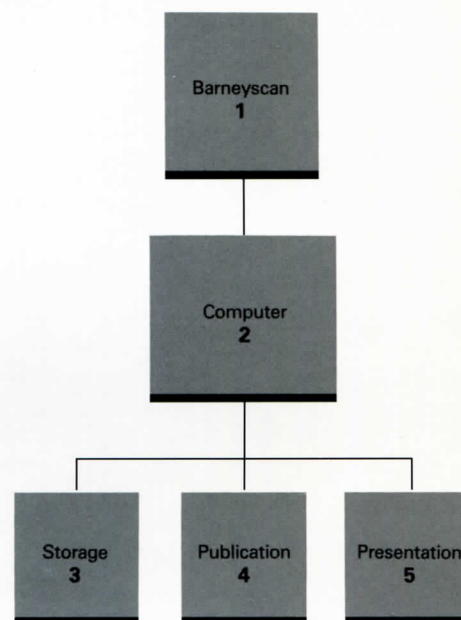
**Network Compatibility** Barneyscan offers the proprietary NetScan option. This allows LAN operation on Ethernet, TOPS and Appletalk for easy interface to SUN, DEC, Silicon Graphics, Apollo and other popular workstations.

**Illumination** Stable quartz halogen light is guided without heat by fiber optics to the slide.

**Hardware Requirements** For PC/AT and workalikes, Barneyscan requires a minimum 1.5 megabytes of expanded RAM. The interface card takes an empty PC/AT slot. A VISTA, TARGA 16, 24 or 32 frame buffer is required for display on a color monitor. For Macintosh II users, the interface card takes an empty NUBUS slot. A display card and 5-8 megabytes of memory are also required. For all other workstations, see Network Compatibility.

## The Barneyscan Advantage

Barneyscan is simply the easiest, most cost-effective way to put photorealism into computers. Without any time consuming set-up, users drop a 35mm slide into the scanner and choose "scan" (1). After downloading the scanned image directly to a Macintosh II, PC/AT or to a network (2), the user is free to manipulate the image with bundled software or import the file into popular paint and page makeup programs. Currently Barneyscan clients are digitizing slides for (3) storage, retrieval, and analysis of scientific, medical and educational images; (4) publishing for page layout, design, photo retouching, and color separations; and (5) presentation graphics for slide productions, video shows, and monitor slide shows.



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