

Nikon

FILM SCANNER

COOLSCAN IV ED

Your film's bridge to the digital age, with the power to restore the past



- 2,900 dpi Optical Resolution with fast 42 second scan times
- USB Interface for reliable, plug-and-play connectivity to Mac® OS or Windows®
- **EXCLUSIVE!** Scanner Nikkor ED high-resolution lens, using Nikon's extra-low dispersion glass for sharp, clear images
- **EXCLUSIVE!** Nikon's Color Management System, ensures vivid, accurate color matching on monitors, printers and the Web
- Dynamic range of 3.6 for great detail throughout a wide range of tones
- **EXCLUSIVE!** LED light source for accurate color consistency without having to recalibrate/replace the light source
- High quality 48-bit images at file sizes up to 69 MB
- Digital ICE^{3™} Image Enhancement technology incorporating Digital ICE™, Digital ROC™ and Digital GEM™
- Enhanced Nikon Scan® 3 software for easier operation
- Advanced Photo System adapter available for IX240 film*



The original scan



After running Digital ICE^{3™} Image Enhancement software



Digital ICE^{3™} incorporated into Nikon Scan® 3 eliminates all surface defects, corrects color and exposure, and automatically reduces the film grain of a scanned image.

- Digital ICE™ removes surface defects
- Digital ROC™ restores color
- Digital GEM™ effectively reduces film grain

* Optional accessory

Coolscan® IV ED

The Nikon Coolscan IV ED personal film scanner bridges the gap from film to digital. The perfect complement to a 35mm SLR camera, this high quality film scanner combines Nikon's Scanner Nikkor ED glass lens with an LED light source for incredible, consistent color and sharpness. The Coolscan IV ED integrates Digital ICE^{3™} Image Enhancement technology into Nikon Scan[®] 3 software, for automatic removal of surface defects, restoration of color, and film grain minimization from scans of 35mm strip or slide film and Advanced Photo System (IX240) film.

LS-40 ED 35mm/Advanced Photo System (IX240) Personal Film Scanner Specifications:

Film Type	35mm/Advanced Photo System Film (IX240) (Advanced Photo System adapter optional), Slide glass for microscope (with optional adapter) (positive, negative, color, or monochrome)
Reading Resolution	2,870-pixel monochrome linear CCD 2,900 dpi optical resolution
Film Adapter	Slide Mount Adapter MA-20(S) Strip Film Adapter SA-21 (2 to 6 frames) Strip Film Holder FH-3 (1 to 6 frames) IX240 Film Adapter IA-20(S) (15,25,40 frames, optional) Medical Slide Holder FH-G1 (for slide glass, optional, not shown)
Scanning Area	25.1 x 38mm (2,870x4,332 pixels)
Effective Scanning Area	SA-21: 23.3 x 36.0mm (2,657 x 4,104 pixels) MA-20(S): 25.1 x 36.8mm* (2,870 x 4,203 pixels) FH-3: 24.0 x 36.0mm (2,736 x 4,104 pixels) IA-20(S): 16.1 x 26.9mm (1,836 x 3,067 pixels) FH-G1: 22.9 x 35.0mm (2,610 x 3,989 pixels) <small>*Actual effective size depends on slide mount aperture size</small>
Illumination Method	R, G, B and D-LED Array
Color Separation	RGB line sequential
Imaging Optics	Scanner Nikkor ED lens (7 elements in 4 groups including 3 ED glass elements)
Focusing	Autofocus and Manual Focus
Scan Time*	Approx 42 seconds at 2,900 dpi (35mm), 8-bit output (typical scan time with display, Windows, CMS off)
Optical Density	3.6 dynamic range
Thumbnail Scanning and Batch Scanning	35mm (135) strip film: 2 to 6 frames IX240 film cartridge: 15,25,40 frames (with optional adapter)
A/D Conversion	12-bits

Output data	16-bits, 8-bits per color channel (user selectable)
Digital ICE^{3™}	Digital ICE ^{3™} ** - automatic removal of surface defects Digital ROC [™] - automatic restoration of lost color values and exposure correction Digital GEM [™] - automatic minimization of film grain in scanned images
Color Management System	Built in; uses standard ICC profiles to color match across input devices. Apple ColorSync [®] and Microsoft [®] ICM compatible
Panel Indicators	READY, BUSY and ERROR status indicated by front LED
Scanning Software	Nikon Scan [®] 3 Driver Software
Interface	USB 1.1
Firmware	User downloadable from www.nikonusa.com
Operating Systems	Mac [®] OS 8.6 - 9.x, OS 10.1.2 or later requires Nikon Scan 3.1.3 or later, Windows [®] 98 Second Edition, Windows [®] Me, and Windows [®] 2000
Power Requirements	100-240 VAC, 0.3-0.2A, 50/60Hz
Environmental	Temperature: 50-95° F (10-35° C) Relative Humidity: 20-60% (non-condensing)
Dimensions (WxHxD)	3.7 x 6.6 x 12.4 in. (93 x 169 x 315mm)
Weight (approx.)	6.6 lbs (3kg)
Accessories included:	Includes USB cable, Slide Mount Adapter MA-20(S), Strip Film Adapter SA-21, Strip Film Holder FH-3, AC power cord, software manual, and user manual
Product Number:	9236 UPC 018208092369

*Does not include host computer processing time

** Digital ICE^{3™} will not work with most black and white films and may have limitations with Kodachrome[™] film.



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1300 Walt Whitman Road, Melville, NY 11747
www.nikonusa.com / 1-800-NIKON-UX

