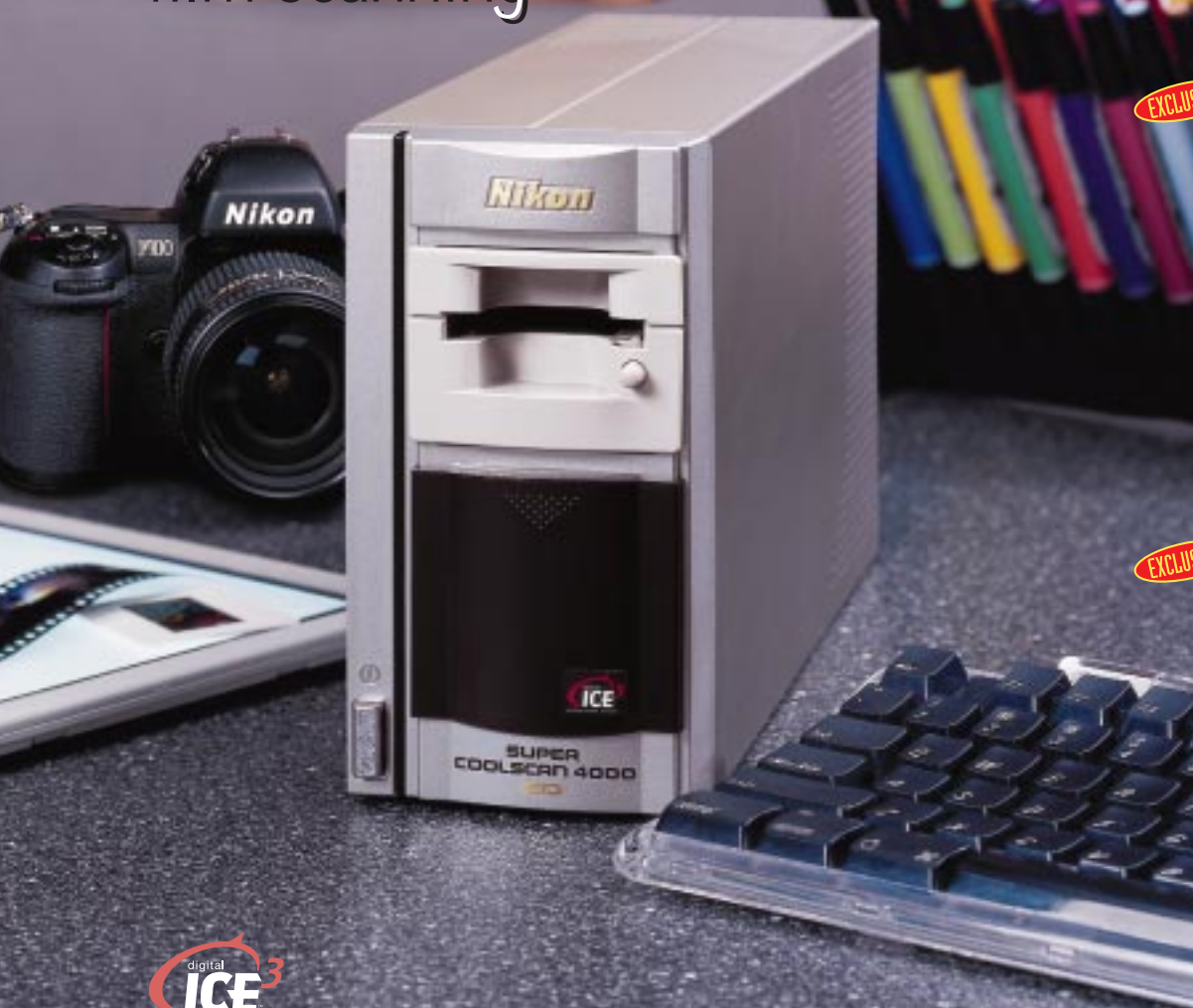


Nikon

SUPER COOLSCAN® 4000 ED

The professionals' choice for high-resolution, high-performance film scanning



The original scan



After running Digital ICE³™ Image Enhancement technology

Digital ICE³™, incorporated into Nikon Scan[®] 3.0, 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

- **NEW!** 4,000 dpi Optical Resolution with fast 38 second scan times
- **NEW!** IEEE 1394 Interface (interface card included for 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 4.2 provides incredible detail throughout a wide range of tones
- LED light source for accurate color consistency without having to recalibrate/replace the light source
- **EXCLUSIVE!** High-quality 48-bit images at file sizes up to 130 MB
- **NEW!** Digital ICE³™ Image Enhancement technology incorporating Digital ICE™, Digital ROC™ and Digital GEM™.
- **NEW!** Enhanced Nikon Scan[®] 3.0 software for easier operation
- Now with the FULL version of Altamira Genuine Fractals™ software for lossless scaling and compression of image data
- Multi-Sample Scanning, enhanced for greater flexibility
- **NEW!** Roll Film adapter for scanning an uncut roll of 35mm film, up to 40 frames*
- Auto Slide Feeder for unattended batch scanning of up to 50 slides*

* Optional accessory

SUPER COOLSCAN 4000 ED Specifications:

The Nikon Super Coolscan 4000 ED film scanner is the professionals' choice for high-resolution, high-performance scanning. Featuring an LED light source and Scanner Nikkor ED glass lens, this scanner provides incredible, consistent color and sharpness. In addition, the Super Coolscan 4000 ED integrates Digital ICE^{3™} Image Enhancement technology into Nikon Scan[®] 3.0 software, for automatic removal of surface defects, restoration of color, and film grain minimization from scans of 35mm strip or slide film, uncut 35mm roll film and Advanced Photo System (IX240) film.

LS-4000 ED 35MM/ADVANCED PHOTO SYSTEM (IX240) DESKTOP FILM SCANNER

READING SYSTEM/OPTICS	
Film Type	35mm/Advanced Photo System Film (Advanced Photo System adapter optional), Slide glass for microscope (with optional adapter) (positive, negative, color, or monochrome)
Reading Resolution	3,946-pixel monochrome linear CCD 4,000 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) Roll Film Adapter SA-30 (2 to 40 frames, optional) Slide Feeder SF-200(S) (1 to 50 frames, optional) Medical Slide Holder FH-G1 (for slide glass, optional, not shown)
Scanning Area	25.1 x 38mm (3,946 x 5,959 pixels)
Effective Scanning Area	SA-21: 23.3 x 36.0mm (3,654 x 5,646 pixels) MA-20(S): 25.1 x 36.8mm* (3,946 x 5,782 pixels) FH-3: 24.0 x 36.0mm (3,762 x 5,646 pixels) IA-20(S): 16.1 x 26.9mm (2,525 x 4,219 pixels) SA-30: 23.3 x 36.0mm (3,654 x 5,646 pixels) SF-200(S): 25.1 x 36.8mm* (3,946 x 5,782 pixels) FH-G1: 22.9 x 35.0mm (3,591 x 5,488 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
SCANNING/SIGNAL PROCESSING	
Scan Time	Approx 38 seconds at 4,000 dpi (35mm), 16-bit output (typical scan time with display, Windows [®] , CMS off)
Optical Density	4.2 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) 35mm (135) strip film (with SA-30): 2 to 40 frames 35mm (135) mount film (with SF-200(S)): 1 to 50 frames
A/D Conversion	14-bits
Output data	16-bits, 8-bits per color channel (user selectable)
Digital ICE^{3™}	Digital ICE [™] - 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
Multi-sample scanning 2, 4, 8, 16 times (user selectable) for reduced noise	
Color Management System	Built in; uses standard ICC profiles to color match across input devices. Apple ColorSync [®] and Microsoft [™] ICM compatible
DATA TRANSFER	
Panel Indicators	READY, BUSY and ERROR status indicated by front LED
Scanning Software	Nikon Scan [®] 3.0
Interface	IEEE 1394 (OHCI Compliant)
Firmware	User downloadable from www.nikonusa.com
PLATFORMS	
Operating Systems	Mac [®] OS 8.6 or later, Windows [®] 98 Second Edition, Windows [®] Me, and Windows [®] 2000
OPERATING CONDITIONS	
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)
PRODUCT NUMBER	
9282	Includes: IEEE 1394 cable (6 pin, 6 pin), IEEE 1394 Interface card (works with Windows [®] & Macintosh [®] G3 or later computers) Altamira Genuine Fractals [™] 2.0 FULL version, Canto Cumulus 5.0 Demo, Nikon Scan [®] 3.0 Driver software, Slide Mount Adapter MA-20(S), Strip Film Adapter SA-21, Strip Film Holder FH-3, AC power cord, software manual, and user manual. UPC 018208092826



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