

Nikon

PRELIMINARY

SUPER COOLSCAN® 8000 ED

The quality of a drum scanner,
in a Multi-Format, Multi-Purpose
film scanner.



- **NEW!** Scan Multiple Film Formats (120/220 up to 6x9, 35mm, 16mm, and microscope slide)
- **NEW!** 4000 dpi Optical Resolution for all film formats
- **EXCLUSIVE!** Dynamic Range of 4.2 ensures every nuance of detail from your film
- **EXCLUSIVE!** Tri-linear monochrome CCD with 30,000 pixels for fast scanning
- **EXCLUSIVE!** Large Diameter Scanner Nikkor ED high-resolution lens incorporating Nikon's extra-low dispersion glass for sharp, clear images
- **EXCLUSIVE!** LED Technology for accurate, consistent color without having to recalibrate/replace the light source
- **NEW!** Digital ICE^{3™} Image Enhancement technology incorporating Digital ICE™, Digital ROC™ and Digital GEM™
- **EXCLUSIVE!** Nikon's Color Management System ensures vivid, accurate color matching on monitors, printers, and the Web
- High-quality 48-bit images with file sizes of up to 790 MB
- Multi-Sample Scanning, increases quality in dark, shaded areas
- **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
- **NEW!** IEEE 1394 Interface (interface card included for Mac® OS & Windows®)



The original scan



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

Digital ICE^{3™}, 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

SUPER COOLSCAN 8000 ED Specifications:

The Nikon Super Coolscan 8000 ED is a revolutionary multi-format film scanner that produces high speed scans that maximize workflow productivity; while a 4.2 dynamic range and 4,000 dpi optical resolution ensure image quality equal to a drum scanner. Designed for graphics professionals and professional photographers, this desktop film scanner utilizes a sophisticated imaging system that integrates Nikon's large diameter Scanner Nikkor ED glass lens with proprietary LED technology for consistent color and razor sharpness. In addition, the scanner incorporates Digital ICE™ technology into Nikon Scan® 3.0 for automatic removal of surface defects, restoration of color, exposure correction and minimization of film grain.

LS-8000 ED MULTI-FORMAT DESKTOP FILM SCANNER

READING SYSTEM/OPTICS			
Film Type	Medium format (120/220 up to 6 x 9), 35mm (135), 16mm, Electron Microscope, glass slide (microscope).		
Reading Resolution	4,000 dpi optical resolution		
Film Holder	35mm Strip Film Holder FH-835(S) 35mm Mounted Film Holder FH-835(M) 120/220 Strip Film Holder FH-869(S) 120/220 Mounted Film Holder FH-869(M) (optional) 120/220 Strip Film Holder with Glass FH-869(G) (optional) 120/220 Film Rotated Holder with Glass FH-869(GR) (optional) 16mm Film Holder FH-816 (optional) Medical Slide Holder FH-8G1 (optional)		
Scanning Area	63.5 x 88mm (10,000 x 13,860 pixels)		
Effective Scanning Area	FH-835S: FH-835M: FH-869S/FH-869G (6 x 4.5) (6 x 6) (6 x 7) (6 x 8) (6 x 9) (Elect Micro) FH-869GR: (6 x 4.5) (6 x 6) (6 x 7) (6 x 8) (6 x 9) (Elect Micro) FH-869M: (6x4.5, 6x6) (6x6, 6x7, 6x9) FH-816: FH-8G1:	37.5 x 25.6mm 25.4 x 37.5mm 56.9 x 42.5mm 56.9 x 56.9mm 56.9 x 70.0mm 56.9 x 77.5mm 56.9 x 83.7mm 56.9 x 83.7mm 60.3 x 45.0mm 61.6 x 61.7mm 62.8 x 74.5mm 63.4 x 80.0mm 63.5 x 88.0mm 56.9 x 83.7mm 31.0 x 61.7mm 31.6 x 68.8mm 56.9 x 56.9mm 56.9 x 83.7mm 15.0 x 21.5mm 46.0 x 24.0mm	(5,905 x 4,032 pixels) (4,000 x 5,904 pixels) (8,964 x 6,696 pixels) (8,964 x 8,964 pixels) (8,964 x 11,016 pixels) (8,964 x 12,204 pixels) (8,964 x 13,176 pixels) (8,964 x 13,176 pixels) (9,496 x 7,092 pixels) (9,700 x 9,720 pixels) (9,889 x 11,736 pixels) (9,984 x 12,600 pixels) (10,000 x 13,176 pixels) (8,964 x 13,176 pixels) (4,876 x 9,720 pixels) (4,972 x 10,836 pixels) (8,964 x 8,964 pixels) (8,964 x 13,176 pixels) (2,362 x 3,384 pixels) (7,248 x 3,780 pixels)
Illumination Method	R, G, B and D-LED Array		
Color Separation	RGB line sequential		
Imaging Optics	Scanner Nikkor ED lens (14 elements in 6 groups including 6 ED glass elements)		
Focusing	Autofocus and Manual Focus		
SCANNING/SIGNAL PROCESSING			
Scan Time	TBD		
Optical Density	4.2 dynamic range		
Thumbnail Scanning and Batch Scanning	35mm (135) strip film: 1 to 12 frames (2 strips) 35mm (135) mount film: 1 to 5 frames 120/220 strip film (6 x 4.5 size): 1 to 4 frames 120/220 mount film: 1 to 2 frames 16mm film: 1 to 60 frames (3 strips)		
A/D Conversion	14-bits		
Output data	8-bits or 16-bits per color channel (user selectable)		

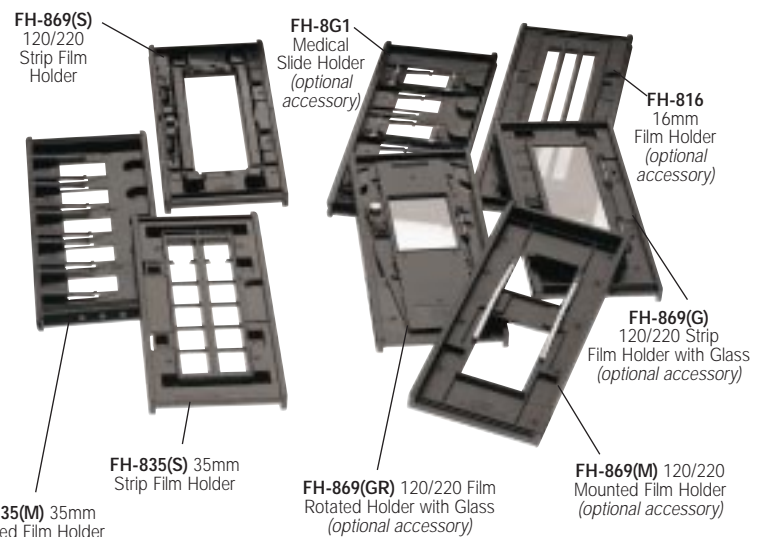
*Actual effective size depends on slide mount aperture size

Digital ICE™	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: 20-85% (non-condensing)
Dimensions (WxHxD)	9.6 x 7.9 x 19.1 in. (245 x 200 x 485mm)
Weight (approx.)	19.8 lbs (9kg)

PRODUCT NUMBER	
9246	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, 35mm Strip Film Holder FH-835S, 35mm Mounted Film Holder FH-835M, 120/220 Strip Film Holder FH-869S, AC power cord, software manual, and user manual. UPC 018208092468



All products indicated by trademark symbols are trademarked and/or registered by their respective companies. Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. 01/01/01 ©2001 NIKON INC.



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

