

# Nikon®

FILM SCANNER

# 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 slides)
- NEW! 4000 dpi Optical Resolution for all film formats
- 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<sup>3™</sup> 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® software for easier operation
- NEW! IEEE 1394 Interface (interface card included for Mac®OS & Windows®)



The original scan



After running Digital ICE<sup>3™</sup> Image Enhancement software



Digital ICE<sup>3™</sup> incorporated into Nikon Scan® 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

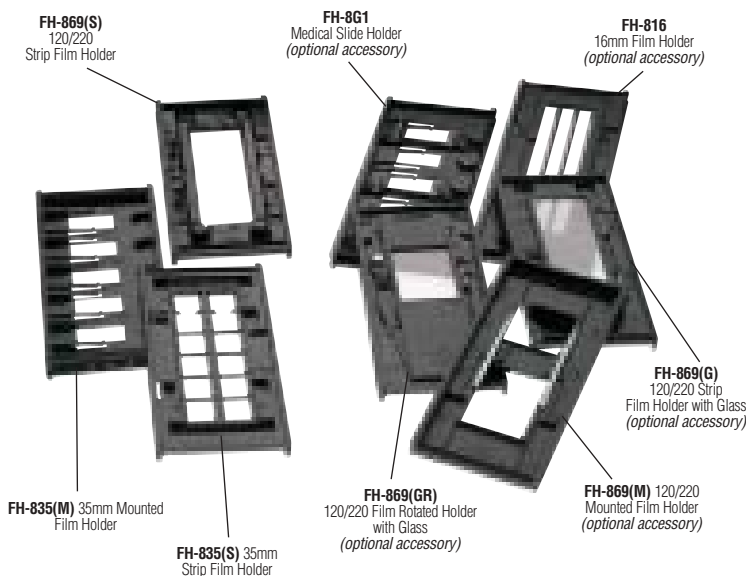
# Super Coolscan® 8000 ED

The Nikon Super Coolscan 8000 ED is a revolutionary multi-format film scanner that produces large volume, 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 imaging 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 Applied Science Fiction's Digital ICE<sup>3™</sup> technology into Nikon Scan<sup>®</sup> 3 for automatic removal of surface defects, restoration of color, exposure correction and minimization of film grain.

## LS-8000 ED Multi-format Desktop Film Scanner Specifications:

<b>Film Type</b>	Medium format (120/220), 35mm (135), panorama, 16mm, Electron Microscope, glass slide (microscope).		
<b>Reading Resolution</b>	4,000 dpi optical resolution		
<b>Film Holder</b>	35mm Strip Film Holder FH-835S 35mm Mounted Film Holder FH-835M 120/220 Strip Film Holder FH-869S 120/220 Mounted Film Holder FH-869M (optional) 120/220 Strip Film Holder with Glass FH-869G (optional) 120/220 Film Rotated Holder with Glass FH-869GR (optional) 16mm Film Holder FH-816 (optional) Medical Slide Holder FH-8G1 (optional)		
<b>Scanning Area</b>	63.5 x 88mm (10,000 x 13,860 pixels)		
<b>Effective Scanning Area</b>	FH-835S:	25.4 x 37.5mm	(4,000 x 5,904 pixels)
	FH-835M:	37.5 x 25.6mm	(5,095 x 5,032 pixels)
	FH-869S/FH-869G		
	(6 x 4.5)	56.9 x 42.5mm	(8,964 x 6,696 pixels)
	(6 x 6)	56.9 x 56.9mm	(8,964 x 8,964 pixels)
	(6 x 7)	56.9 x 70.0mm	(8,964 x 11,016 pixels)
	(6 x 8)	56.9 x 77.5mm	(8,964 x 12,204 pixels)
	(6 x 9)	56.9 x 83.7mm	(8,964 x 13,176 pixels)
	(Elect Micro)	56.9 x 83.7mm	(8,964 x 13,176 pixels)
	FH-869GR:		
	(6 x 4.5)	56.0 x 41.5mm	(8,818 x 6,535 pixels)
	(6 x 6)	56.0 x 56.0mm	(8,818 x 8,818 pixels)
	(6 x 7)	56.0 x 69.0mm	(8,818 x 10,866 pixels)
	(6 x 8)	56.0 x 76.5mm	(8,818 x 12,047 pixels)
	(6 x 9)	56.0 x 82.6mm	(8,818 x 13,007 pixels)
	(Elect Micro)	56.9 x 83.7mm	(8,964 x 13,176 pixels)
	(35mm pan 24x58)	24.0 x 58.0mm	(3,779 x 9,133 pixels)
	(35mm pan 24x65)	24.0 x 65.0mm	(3,779 x 10,236 pixels)
	FH-869M:		
	(6x4.5, 6x6)	56.9 x 56.9mm	(8,964 x 8,964 pixels)
	(6x6, 6x7, 6x9)	56.9 x 83.7mm	(8,964 x 13,176 pixels)
	FH-816:	15.0 x 21.5mm	(2,362 x 3,384 pixels)
	FH-8G1:	46.0 x 24.0mm	(7,248 x 3,780 pixels)
	*Actual effective size depends on slide mount aperture size		
<b>Illumination Method</b>	R, G, B and D-LED Array		
<b>Color Separation</b>	RGB line sequential		
<b>Imaging Optics</b>	Scanner Nikkor ED lens (14 elements in 6 groups including 6 ED glass elements)		
<b>Focusing</b>	Autofocus and Manual Focus		
<b>Scan Time</b>	35mm film: approx. 47 seconds* 6x9: approx. 150 seconds* * Positive film scanned at a resolution of 4,000 dpi with 8-bit output and Digital ICE <sup>3™</sup> off. Does not include data transfer or display time.		
<b>Optical Density</b>	4.2 dynamic range		
<b>Thumbnail Scanning and Batch Scanning</b>	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)		
<b>A/D Conversion</b>	14-bits		
<b>Output data</b>	8-bits or 16-bits per color channel (user selectable)		
<b>Digital ICE<sup>3™</sup></b>	Digital ICE <sup>3™</sup> - automatic removal of surface defects Digital ROC <sup>™</sup> - automatic restoration of lost color values and exposure correction Digital GEM <sup>™</sup> - automatic minimization of film grain in scanned images		

<b>Multi-sample scanning</b>	2, 4, 8, 16 times (user selectable) for reduced noise
<b>Color Management System</b>	Built in; uses standard ICC profiles to color match across input devices. Apple ColorSync <sup>®</sup> and Microsoft <sup>®</sup> ICM compatible
<b>Panel Indicators</b>	READY, BUSY and ERROR status indicated by front LED
<b>Scanning Software</b>	Nikon Scan <sup>®</sup> 3
<b>Interface</b>	Macintosh: FireWire <sup>®</sup> Support 2.3.3 or later recommended.* Built-in ports supported from FireWire <sup>®</sup> Support 2.0 if you are using an old-model (beige) G3 desktop computer not equipped with an IEEE 1394 board, you can install the board that is provided. Windows: Only boards compliant with Open Host-Controller Interface (OHCI) are supported.* If your computer has an empty PCI slot and is not equipped with a suitable board, you can install the board that is provided. *The scanner may not function as expected when connected to an IEEE 1394 hub
<b>Firmware</b>	User downloadable from <a href="http://www.nikontechusa.com">www.nikontechusa.com</a>
<b>Operating Systems</b>	Mac <sup>®</sup> OS 8.6 or later (Power Mac G3 or later - G4 or later recommended), Windows <sup>®</sup> 98 Second Edition, Windows <sup>®</sup> Me, and Windows <sup>®</sup> 2000 (MMX Pentium 166 or better, Pentium II or better recommended)
<b>Power Requirements</b>	100-240 VAC, 0.3-0.2A, 50/60Hz
<b>Environmental</b>	Temperature: 50-95° F (10-35° C) Relative Humidity: 20-60% (non-condensing)
<b>Dimensions (WxHxD)</b>	9.6 x 19.1 x 7.9 in. (245 x 485 x 200mm)
<b>Weight (approx.)</b>	19.8 lbs (9kg)
<b>Accessories included:</b>	Includes: IEEE 1394 cable (6 pin, 6 pin), IEEE 1394 Interface card (works with Windows <sup>®</sup> & Macintosh <sup>®</sup> G3 or later computers) 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.
<b>Bundled Software</b>	Nikon Scan <sup>®</sup> Driver software
<b>Product Number:</b>	9246 UPC 018208092468



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