Outstanding Image Quality with Amazing Scan Speeds

Nikon's Coolscan film scanners offer 4,000 dpi true optical resolution and A/D conversion at up to 16 bits, for superior-quality digital images at an ultra-high resolution of 21 megapixels. Nikon's Coolscan film scanners feature industry-leading scanning speeds. The Coolscan V ED scans a 35mm image in 38 seconds. The Super Coolscan 9000 ED can scan 6 x 9 film in 185 seconds. The Super Coolscan 5000 ED's low-noise, 2-line CCD helps reduce the time required to scan a frame of 35mm film to an amazing 20 seconds.

The COOLSCAN V ED can scan a piece of 35mm film in only

38*sec.

The SUPER COOLSCAN 5000 ED can scan a piece of 35mm film in only

20*sec.

The SUPER COOLSCAN 9000 ED can scan a piece of 6x9 film in only

185*sec.

**Scan times are based on scanning with no options selected*

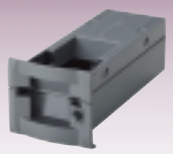
COOLSCAN V ED

35MM FILM SCANNER

COOLSCAN V ED Major Features:

- 4000 dpi optical resolution
- Exclusive SCANNER NIKKOR ED high resolution optics
- 14-bit A/D converter for superior image reproduction in detail with 4.2 optical density max
- Fast 38 second full resolution scan time* (including image transfer to display)
- Exclusive LED Technology for accurate color consistently
- New Digital ICE[4] Advanced™ for image restoration/adjustment
- Improved Nikon Scan 4 with all new Scan Image Enhancer for automatic color/contrast compensation
- Easy image data management with NikonView
- Highly Accurate Color Management System
- High-speed USB 2.0 interface

COOLSCAN V ED ACCESSORIES:



MA-21
Slide Mount Adapter
(supplied)

SA-21
Strip Film Adapter
(supplied)

FH-3
Strip Film Holder
(supplied)

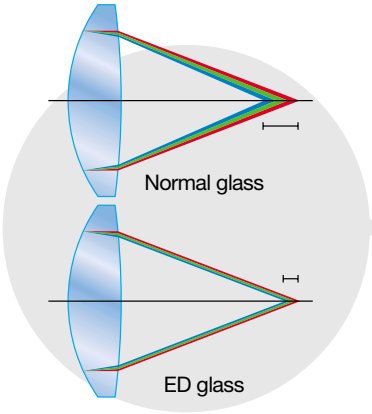
FH-G1
Medical Slide Holder
(optional)

IA-20(s)
IX240 Film Adapter
(optional)

Nikon Coolscan Core Technology

What differentiates Nikon Coolscan film scanners from other manufacturers' film scanners with similar specifications? Exclusive core technologies Nikon has developed since the debut of our first scanner over a decade ago. These highly advanced core technologies combine to serve as the foundation for superior quality scanning, making each Coolscan scanner the best in its class.

We call it the Nikon Difference.



SCANNER NIKKOR ED LENS

Scanner Nikkor ED lens greatly reduces chromatic aberration and image distortion, and delivers sharp images.

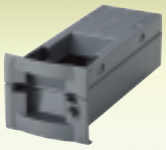
SUPER COOLSCAN® 5000 ED

35MM FILM SCANNER

SUPER COOLSCAN 5000 ED Major Features:

- 4000 dpi optical resolution
- Exclusive SCANNER NIKKOR ED high resolution optics
- 16-bit A/D converter for superior image reproduction in detail with 4.8 optical density max
- Fast 20 second full resolution scan time*(including image transfer to display)
- New low-noise 2-line CCD doubles the scanning speed
- Exclusive LED Technology for accurate color consistently
- New Digital ICE4 Advanced™ for image restoration/ adjustment
- Improved Nikon Scan 4 software with all new Scan Image Enhancer for automatic color/contrast compensation
- Easy image data management with NikonView
- Highly Accurate Color Management System
- Multi-Sample Scanning (2,4,8,16X) for increased detail
- High-speed USB 2.0 interface

SUPER COOLSCAN 5000 ED ACCESSORIES:



MA-21
Slide Mount Adapter
(supplied)

SA-21
Strip Film Adapter
(supplied)

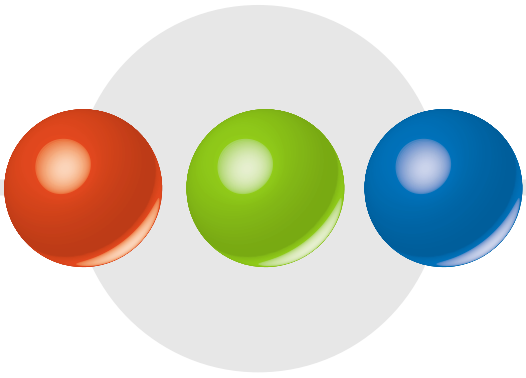
FH-3
Strip Film Holder
(supplied)

FH-G1
Medical Slide Holder
(optional)

IA-20(s)
IX240 Film Adapter
(optional)

SA-30
Roll Film Adapter
(optional)

SF-210
Slide Feeder
(optional)



LED LIGHT SOURCE

LED light source generates little heat, eliminating the risk of damage to films. It also requires no maintenance.

NIKON COLOR MANAGEMENT SYSTEM

Nikon Color Management System provides consistently accurate reproduction of image data on monitors and in printouts. Each model is compatible with ICC version 4 standards.

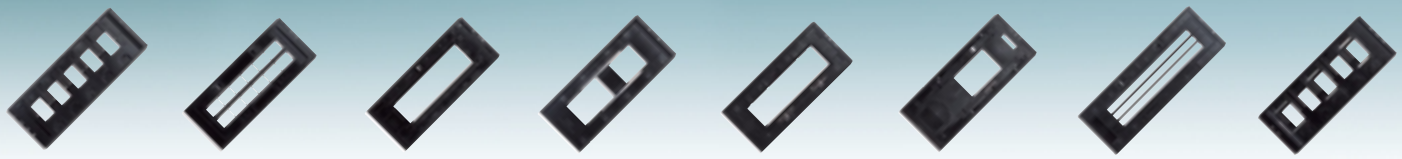
SUPER COOLSCAN® 9000 ED

MULTI-FORMAT FILM SCANNER

SUPER COOLSCAN 9000 ED Major Features:

- 4000 dpi true optical resolution for all film formats
- Exclusive SCANNER NIKKOR ED high resolution optics
- 16-bit A/D converter for superior image reproduction in detail with 4.8 optical density max
- High-speed scanning (35mm slide film: 40 sec., 6x9: 185 sec. full resolution scan time)
- Low-noise 3 line mono-chrome CCD doubles the scanning speed
- Exclusive rod dispersion LED illumination for accurate color consistently
- Multi-format for 16mm, 35mm up to 6x9 film, and slide glass, Electron microscope film
- Digital ICE^4 Advanced™ with Digital ICE Professional™ for image restoration/adjustment (compatible with KODACHROME film in most scenes)
- Improved Nikon Scan 4 software with all new Scan Image Enhancer for automatic color/contrast compensation
- Easy image data management with NikonView
- Highly Accurate Color Management System
- Multi-Sample Scanning (2,4,8,16X) for increased detail
- IEEE1394 computer interface (interface card included for Mac® OS & Windows®)

SUPER COOLSCAN 9000 ED ACCESSORIES:



FH-835M
35mm Mounted
Film Holder
(supplied)

FH-835S
35mm Strip
Film Holder
(supplied)

FH-869S
120/220 Strip
Film Holder
(supplied)

FH-869M
120/220 Mounted
Film Holder
(optional)

FH-869G
120/220 Strip Film
Holder with Glass
(optional)

FH-869GR
120/220 Film Rotating
Holder with Glass
(optional)

FH-816
16mm
Film Holder
(optional)

FH-8G1
Medical Slide
Holder
(optional)

DIGITAL ICE^4 ADVANCED™

Digital ICE^4 Advanced™ comprises four cutting-edge image-correction components which help ensure superior image quality and operational efficiency.

Nikon Coolscan
Extraordinary Image Control

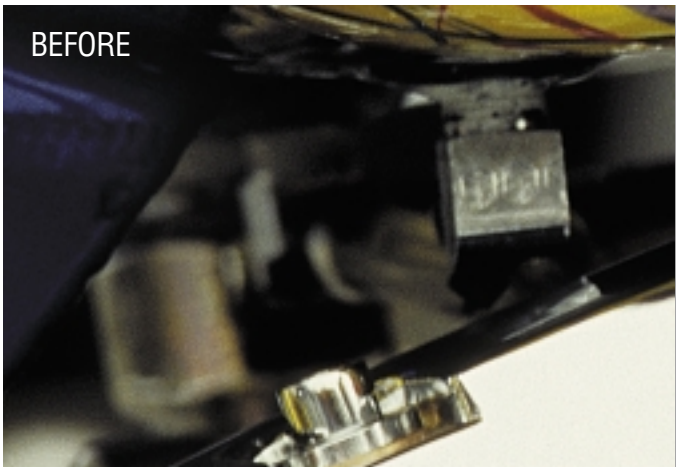
Nikon's Coolscan lineup features a host of cutting-edge image restoration functions. These progressive image correction tools give scanner users more freedom in image manipulation, and help ensure super high-fidelity reproduction and highly efficient operation. Take control with Coolscan film scanners from Nikon.

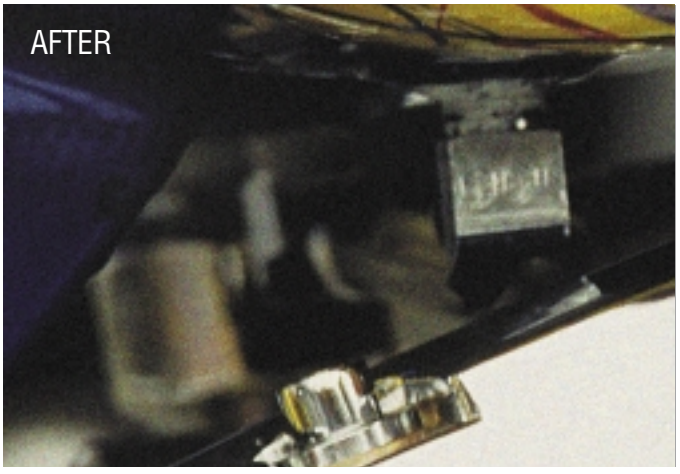
Scan Image Enhancer

Scan Image Enhancer provides one-touch image correction. Automatic brightness and color saturation adjustments with no complicated control settings, make it easy to produce images with optimal contrast.

Multi-sample Scanning

Multi-sample scanning helps produce rich, noise-free images. Multi-sample scanning removes virtually all the noise that can appear after only one scan. By making as many as 16 passes, it ensures faithful reproduction with smoother gradation.





Digital ICE⁴ Advanced

Digital ICE⁴ Advanced™ comprises four cutting-edge image-correction components which help ensure superior image quality and operational efficiency.

Digital ICE™
Image Correction & Enhancement.

*Digital ICE™ removes defects or scratches on the surface of the film with out losing any details or any other elements of the original image**

Digital ROC™
Restoration Of Color

Digital ROC™ brings faded color of old films or slides back to life. Enjoy vibrant, faithfully rendered images.

Digital GEM™
Grain Equalization & Management

Digital GEM™ reduces the effects of film grain. The resulting images are sharp, clear and devoid of grain clumping or graininess.

Digital DEE™
Dynamic Exposure Extender

Digital DEE™ helps reveal details hidden in shadows and highlights. It compensates for both underexposure and overexposure

*Not compatible with non-chromogenic black & white film



	Coolscan® V ED	Super Coolscan® 5000 ED	Super Coolscan® 9000 ED
Media ***(Negatives and positives, in color and monochrome)***	35mm slides and film (IX240) film with optional adapter Medical slides with optional adapter	35mm slides and film (IX240) film with optional adapter Medical slides with optional adapter	35mm slides and film Medium-format slides and film 16mm film with optional adapter Medical slides with optional adapter
Optical resolution	Up to 4,000 pixels per inch	Up to 4,000 pixels per inch	Up to 4,000 pixels per inch
Image sensor	3,964-pixel linear CCD image sensor	3,964-pixel, two-line linear CCD image sensor	10,000-pixel, three-line monochrome linear CCD image sensor
Light source	R, G, B and Infrared (IR) LEDs	R, G, B and Infrared (IR) LEDs	R, G, B and Infrared (IR) LEDs light source with rod disperser and light output slot
AD conversion	14 bits per color	16 bits per color	16 bits per color
Density range	4.2	4.8	4.8
Output	Full color or grayscale at 8 or 16 bits per channel	Full color or grayscale at 8 or 16 bits per channel	Full color or grayscale at 8 or 16 bits per channel
Interface	USB 2.0	USB 2.0	IEEE 1394
Power requirements	AC 100 – 240V, 50/60Hz	AC 100 – 240V, 50/60Hz	AC 100 – 240V, 50/60Hz
Dimensions (WxHxD)	3.8 x 6.8 x 12.4 in.	3.8 x 6.8 x 12.4 in.	9.8 x 19.6 x 8.0 in.
Weight (approx.)	6.6 lbs	6.6 lbs	19.8 lbs
Scanning time ***(with no options selected)***	Preview: 14 sec. Scan*: 38 sec.	Preview: 11 sec. Scan*: 20 sec.	Preview: 13 sec. (35mm) Scan*: 40 sec. (35mm) Preview: 38 sec. (120/220mm) Scan*: 185 sec. (120/220mm)

**Includes time required to display the scanned image*

NIKON SCAN 4 SYSTEM REQUIREMENTS

WINDOWS

CPU	Pentium® 300MHz or faster
OS	Windows® 98SE, Windows® Me, Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional pre-installed model
RAM*	128MB or more (512MB or more recommended)
Hard disk**	40MB required for installation (200MB recommended), with an additional 200MB of free disk space available while Nikon Scan is running
Display	800 x 600 with 16-bit color (full color recommended)
Interface	USB***: Built-in USB 1.1 ports, USB 2.0 IEEE 1394: OHCI-compliant IEEE 1394 interface required
Others	CD-ROM drive required for installation

MACINTOSH

CPU	Power PC G3 or later (G4 or later recommended)
OS	Mac® OS 9 (9.1 or later), Mac® OS X (10.1.5 or later) RAM* Mac® OS 9: 64MB or more (256MB or more recommended) Mac® OS X: 128MB or more (512MB or more recommended)
Hard disk**	70MB required for installation (200MB recommended), with an additional 200MB (Mac® OS 9) or 550MB (Mac® OS X) of free disk space available while Nikon Scan is running
Display	800 x 600 with 16-bit color (full color recommended)
Interface	USB***: Built-in USB 1.1 ports, USB 2.0 IEEE 1394: Only built-in IEEE 1394 ports supported
Others	CD-ROM drive required for installation

NIKONVIEW SYSTEM REQUIREMENTS

WINDOWS

CPU	Pentium® 300MHz or faster
OS	Windows® 98SE, Windows® Me, Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional pre-installed model
RAM	64MB or more recommended
Hard disk	60MB required for installation
Display	800 x 600 with 16-bit color (full color recommended)
Others	CD-ROM drive required for installation

MACINTOSH

Models	iMac™, iMac™ DV, Power Macintosh® G3 (Blue & White), Power Mac™ G4 or later, iBook™, PowerBook® G3 or later (only built-in USB ports supported)
OS	Mac® OS 9.0 – 9.2 (only built-in USB ports are supported), Mac® OS X (10.1.3 or later)
RAM	64MB or more recommended
Hard disk	60MB required for installation
Display	800 x 600 with 16-bit colors (full color recommended)
Others	CD-ROM drive required for installation

Note: Scanning times and other performance-related statistics are based on Nikon internal testing results.

* More memory may be required depending on film type, scan size, resolution, bit depth, the number of scans performed in each session, the film holder or adapter used, and whether Digital ROC™ or Digital GEM™ are used. A system with more than the minimum amount of memory is recommended.

** More free disk space may be required depending on the film type and number of frames. Nikon recommends having as much free disk space as possible when running Nikon Scan.

*** Depending on the type of interface installed, USB will operate at high speed (USB 2.0 only; maximum transfer rate 480 Mbps) or full speed (USB 1.1/USB 2.0; maximum transfer rate 12 Mbps). Computers running Windows® XP and Windows® 2000 Professional with a USB 2.0 interface support high-speed USB. For more information, consult the manufacturer. Users of Windows® XP, Windows® 2000 Professional or Mac® OS X whose computer is not equipped with USB 2.0 can install a RATOC PCIU3U USB 2.0 interface board (for more information, visit Ratoc Systems English-language web site at http://www.ratocsystems.com/english/index.html).

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

CDP-559-03

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Nikon™ At the heart of the image™

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COOLSCAN®

FILM SCANNERS

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