

# Nikon

# COOLSCAN<sup>®</sup>



## The Personal Film Scanner With Revolutionary New Technology



- Fast, with average scan times of 20 seconds at 2700 dpi optical resolution
- Dynamic range of 3.0
- Nikon Color Management System provides vivid, extremely accurate color, ensures color matching on monitors and printers, and allows users to work in sRGB, CMYK, Lch and RGB color spaces
- Hot swappable adapters allows switching between film types without resetting scanner or software
- Advanced Photo System adapter available (optional)
- LED technology provides consistent, reliable color with no bulb to replace
- High quality, high resolution 30 bit color scans at file sizes up to 28 megabytes

Before



After



Revolutionary  
Digital ICE™ technology  
automatically removes  
surface defects such as  
dust, scratches and  
fingerprints from scans

*The Nikon Coolscan III personal film scanner features outstanding color accuracy, and superb detail. Automatic removal of surface imperfections from scans saves hours of retouching time. This extremely versatile unit scans 35mm film in strip or slide formats and Advanced Photo System film.*

## LS-30 35MM/ADVANCED PHOTO SYSTEM PERSONAL FILM SCANNER

### READING SYSTEM/OPTICS

<b>Film type</b>	35mm/Advanced Photo System film (Advanced Photo System adapter optional) (positive or negative, color or monochrome)
<b>Reading resolution</b>	2,592-pixel monochrome linear CCD 2,700 optical dpi
<b>Film adapter</b>	Slide mount adapter (MA-20) Strip adapter (2 to 6 frames) (SA-20) Advanced Photo System adapter (optional) (IA-20)
<b>Scanning area</b>	24.3 x 36.5 mm (2,592 x 3,894 pixels)
<b>Aperture size</b>	23.4 x 35.4 mm (35mm strip) 16.1 x 27.4 mm (Advanced Photo System)
<b>Illumination method</b>	Condensed and diffused light
<b>Light source</b>	RGB LED array
<b>Color separation</b>	RGB line sequential
<b>Imaging optics</b>	6 lenses in 4 groups
<b>Autofocus</b>	Contrast detection by CCD Focusing area selectable Manual focusing by software-controlled servo

### DATA TRANSFER

<b>Panel indicators</b>	READY, BUSY and ERROR status indicated by LED
<b>Scanning software</b>	Nikon Scan™ 2.0
<b>Interface</b>	SCSI-II, SCAM supported SCSI connector: 50-pin half-pitch x 2 SCSI ID switch: Rotary switch Terminator: Built-in active terminator
<b>Image transfer</b>	Single-pass RGB line sequential
<b>Maximum transfer rate</b>	3 MB/second
<b>Firmware</b>	User downloadable from <a href="http://www.nikontechusa.com">www.nikontechusa.com</a>

### PLATFORMS

<b>Operating Systems</b>	Mac® OS version 7.5 or better Windows® 95 or later Windows® NT 4.0 or later
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### SCANNING/SIGNAL PROCESSING

<b>Image scanning</b>	CCD and optical systems driven by stepper motor Target fixed Single-pass scan
<b>Scan time</b>	Approx. 20 sec. (negative/positive)
<b>Optical density</b>	3.0 dynamic range
<b>Thumbnail scanning</b>	35mm strip film: 2 to 6 frames Advanced Photo System film: 15/25/40 frames
<b>Batch scanning</b>	Available with strip film adapter (up to 6 frames) and Advanced Photo System film adapter (up to 40 frames)
<b>A/D conversion</b>	10 bits
<b>Output data</b>	8 bits per color channel
<b>Digital ICE™</b>	Automatic removal of surface defects User selectable
<b>Color Management System</b>	Uses ICC standard profiles to color match across input and output devices

### OPERATING CONDITIONS

<b>Power requirements</b>	100 - 240 VAC, 0.3 - 0.2A, 50/60 Hz
<b>Environmental</b>	Temperature: 50°F - 95°F (10°C - 35°C) Relative humidity: 20 - 85% (non-condensing)
<b>Dimensions (W X H X D)</b>	3.4 x 5.6 x 10.8 in. (85 x 142 x 275 mm)
<b>Weight</b>	Approx. 5 lbs. (2.4 kg)

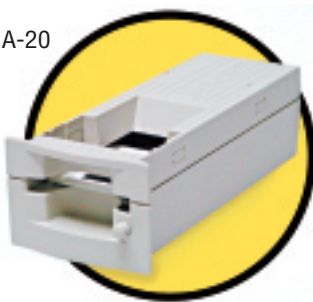
### PRODUCT NUMBER

<b>Macintosh® version</b>	9235 (SCSI cable included)
<b>Windows® version</b>	9234 (SCSI cable & host adapter included)

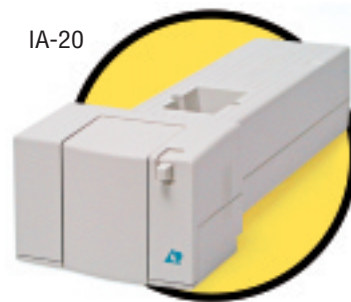
SA-20



MA-20



IA-20



### SA-20 STRIP FILM ADAPTER

<b>Strip type</b>	35mm strip film with 2-6 frames (use of one frame requires slide mount adapter)
<b>Loading method</b>	Bare strip film loaded automatically by motor

### MA-20 SLIDE MOUNT ADAPTER

<b>Mount size</b>	Width: Up to 2.0 inch (50.8 mm) Thickness: 0.01-0.13 inch (1.0 - 3.2 mm)
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### IA-20 ADVANCED PHOTO SYSTEM FILM ADAPTER (Optional)

<b>Film type</b>	15/25/40 frames with Advanced Photo System cartridge
<b>Loading method</b>	Automatic loading by DC motor
<b>Thumbnail scan time</b>	Approx. 80 sec. /25 frames (Max. 100 sec.)
<b>Product number</b>	9284

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