

Thank you for your Nikon SUPER COOLSCAN 8000 ED, 4000 ED, or COOLSCAN IV ED film scanner purchase.

Memory Requirements for Nikon Scan 3 (Version 3.1)

Certain operations, in particular batch scans, require very large memory allocations. These memory requirements may limit the use of Nikon Scan as a TWAIN source (Windows) or acquire plug-in (Macintosh) for Adobe Photoshop on your computer. The limitations imposed depend on the type of film adapter or holder used and on whether scanning film singly or in batches. Effective use can be made of system memory by checking the **Save to Disk** option in the Batch Scans tab of the Preferences dialog before performing batch scans using Nikon Scan as a stand-alone application (this option is checked by default).

Memory Allocation and Batch Scans (Macintosh Only)

When used as a stand-alone application, Nikon Scan will require larger memory allocations and free memory than stated in the *Reference Manual*. The following table gives the memory requirements for Nikon Scan when used as a stand-alone application, and for Photoshop when using the Nikon Scan TWAIN source or acquire plug-in.

SUPER COOLSCAN 8000 ED

Film holder	Max. no. of frames		Stand-alone application		Nikon Scan used as plug-in to Photoshop version:							
					6.0 Plug-In		5.5 Plug-In		5.0 Plug-In		LE Plug-In	
			Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan
FH-835M holder for mounted 35-mm slides	5	Allocation	68 MB	68 MB	66 MB	220 MB	66 MB	109 MB	66 MB	108 MB	66 MB	430 MB
		Free Memory	5 MB	176 MB	28 MB	197 MB	22 MB	210 MB	30 MB	210 MB	5 MB	87 MB
FH-835S holder for 35-mm film strips	12	Allocation	99 MB	99 MB	220 MB	220 MB	109 MB	109 MB	108 MB	108 MB	132 MB	430 MB
		Free Memory	5 MB	175 MB	55 MB	230 MB	37 MB	215 MB	55 MB	232 MB	5 MB	109 MB
FH-869S holder for Brownie film	(6 x 4.5) 4	Allocation	132 MB	132 MB	220 MB	220 MB	109 MB	109 MB	108 MB	108 MB	132 MB	430 MB
		Free Memory	5 MB	175 MB	28 MB	204 MB	27 MB	207 MB	28 MB	204 MB	5 MB	172 MB
	(6 x 9) 2	Allocation	132 MB	132 MB	220 MB	220 MB	109 MB	109 MB	108 MB	108 MB	132 MB	430 MB
		Free Memory	5 MB	175 MB	18 MB	197 MB	22 MB	200 MB	22 MB	197 MB	5 MB	172 MB
FH-869GR glass-covered rotating holder for Brownie film	1*	Allocation	132 MB	/	220 MB	/	109 MB	/	108 MB	/	132 MB	/
		Free Memory	5 MB	/	18 MB	/	22 MB	/	22 MB	/	5 MB	/
FH-816** 16-mm film holder	60	Allocation	132 MB	164 MB	220 MB	220 MB	109 MB	109 MB	108 MB	108 MB	132 MB	132 MB
		Free Memory	5 MB	5 MB	55 MB	55 MB	55 MB	55 MB	55 MB	55 MB	5 MB	5 MB

*: Maximum scan area

SUPER COOLSCAN 4000 ED/COOLSCAN IV ED

Adapter	Max. no. of frames		Stand-alone application		Nikon Scan used as plug-in to Photoshop version:							
					6.0 Plug-In		5.5 Plug-In		5.0 Plug-In		LE Plug-In	
			Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan	Single scan	Batch scan
MA-20 (S) Slide Mount Adapter	1	Allocation	68 MB	/	66 MB	/	66 MB	/	66 MB	/	66 MB	/
		Free Memory	5 MB	/	14 MB	/	18 MB	/	18 MB	/	5 MB	/
SA-21 Strip Film Adapter	6	Allocation	68 MB	68 MB	66 MB	132 MB	66 MB	109 MB	66 MB	108 MB	132 MB	132 MB
		Free Memory	5 MB	176 MB	35 MB	227 MB	35 MB	195 MB	35 MB	209 MB	5 MB	178 MB
IA-20 (S) IX 240 Film Adapter	40	Allocation	99 MB	132 MB	99 MB	132 MB	66 MB	109 MB	66 MB	108 MB	132 MB	132 MB
		Free Memory	5 MB	160 MB	50 MB	205 MB	47 MB	205 MB	47 MB	205 MB	5 MB	160 MB
SA-30 Film Roll Adapter (4000 ED Only)	40	Allocation	132 MB	197 MB	99 MB	132 MB	99 MB	109 MB	99 MB	108 MB	132 MB	132 MB
		Free Memory	5 MB	180 MB	53 MB	227 MB	53 MB	227 MB	53 MB	227 MB	5 MB	176 MB
SF-200 (S) Slide Feeder (4000 ED Only)	50***	Allocation	68 MB	68 MB	66 MB	99 MB	66 MB	66 MB	66 MB	66 MB	66 MB	99 MB
		Free Memory	5 MB	177 MB	15 MB	78 MB	20 MB	108 MB	20 MB	108 MB	5 MB	83 MB

***: Assumes that slide mounts are 1.5 mm thick.

The above table assumes the following scanning conditions:

- **Single scan:** Digital ICE³ on, input resolution 4,000 dpi at a bit depth of eight bits (SUPER COOLSCAN 4000 ED) or 2,900 dpi (COOLSCAN IV ED) at a bit depth of eight bits, Nikon Color Management on, thumbnails displayed, one frame previewed, one frame scanned, ** FH-816 data is applicable when Digital ICE is on, and Digital ROC/GEM are off
- **Batch scan:** Digital ICE³ on, input resolution 4,000 dpi at a bit depth of fourteen bits (SUPER COOLSCAN 4000 ED) or 2,900 dpi at a bit depth of twelve bits (COOLSCAN IV ED), Nikon Color Management on, thumbnails displayed, all frames previewed, all frames scanned, images saved sequentially in TIFF format, ** FH-816 data is applicable when Digital ICE is on, and Digital ROC/GEM are off

Important Tips

- Memory requirements may increase if several images are scanned in a single session. If a message indicating insufficient memory is displayed, restart Photoshop after saving any scanned images to disk.
- The ReadMe file on the Nikon Scan CD describes methods for reducing memory requirements.

For the latest software information, tips, and product news, consult the ReadMe file or visit our technical support web-sites at:

<http://www.nikonusa.com> (for users in the USA)

<http://www.nikon-euro.com> (for users in Europe)

<http://www.nikon-asia.com> (for users in Asia, Oceania, the Middle East, and Africa)