

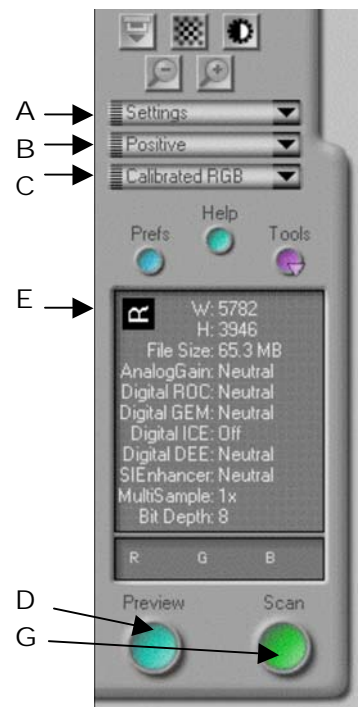
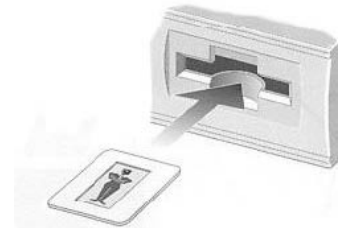
Using the Nikon Slide Scanner

Instructions for COOLSCAN IV ED, COOLSCAN V ED, SUPER COOLSCAN 4000 ED and COOLSCAN 5000 ED

A SINGLE 35MM SLIDE

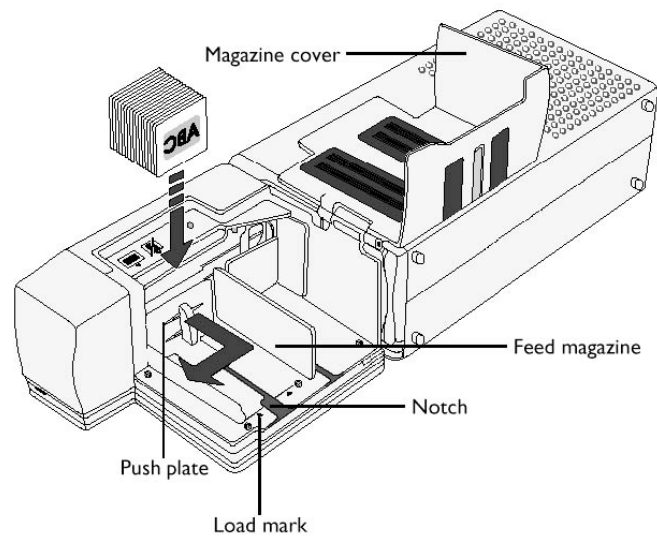
With the scanner connected, follow these steps to insert your slide or film:

1. Make sure there is nothing inside the scanner and turn it on; the On/Off switch is on the right-hand-side of the scanner in the front of the scanner (when the film slot is facing you); the scanner starts its self-calibration procedure that takes about 20 seconds.
2. Start up your computer.
3. Insert your slide Longitudinally.
4. Make sure the emulsion surface is face down (shiny surface up) and insert it into the slot at the front until you feel it touch the back. Note: Do not attempt to remove a slide while scan is in progress or the LED light is blinking.
5. Open the Nikon Scan software. Find the Scan Console on your screen.
6. **A.** Click the settings tab and choose from a list of preset options. OR
7. **B.** Choose film type (positive for slides).
8. **C.** Choose a colorspace: RGB for Color or Grayscale for black&white. (Grayscale option only available when color management is turned off.)
9. **D.** Click the preview button. Note the “moving” blue bar in the status window, indicating preview in progress.
10. **E.** The "R" indicator at the upper left shows the current orientation of the image. Note that when the image is reversed left-to-right, or top-to-bottom, indicating that the emulsion is reversed, the indicator is shown in red. This indicates that you may be scanning through the base layer of the film, which will yield a poorer quality image. When the emulsion is on the wrong side, it not only impairs the scanner's ability to focus correctly, but it also reduces the effectiveness of, or defeats the effect of Digital ICE, GEM and ROC enhancement functions.
11. Select a crop area by clicking and dragging the mouse across the preview image area, or select the crop area in the Crop Menu (located in the Tool Palette).
12. **G.** Press the scan button.
13. Save the file with the required name and file type.
14. Remove the slide after scanning by depressing the eject button.



BATCH SCANNING

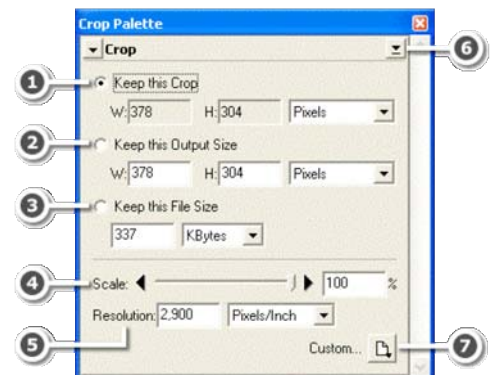
1. Insert slides into the slide scanner feeder orienting the slides in a horizontal position. Ensure that they are even and lined up straight.



2. Make sure the emulsion surface is facing away from the batch attachment (shiny surface toward the attachment)
3. Open the Nikon Scan 4 software.
4. If the "Tools" menu says, "No Scanner Connected," try restarting your computer. This sometimes happens when the computer was started before the scanner was turned on.
5. Next, there are two settings that you are going to need to check in the Tool Palette:
 - a. These menus are located in the Tool Palette located on the right side of the screen. If you don't see the expanded options, click the arrow next to the word Crop.

b. CROP MENU:

- i. The Crop Menu gives you control over several different important features. You can specify:
 1. The crop size (1), which you select after you preview the image
 2. The output size (2) or
 3. The file size. (3)
- ii. In this menu you can also scale the image (4), and select your desired resolution. (5)



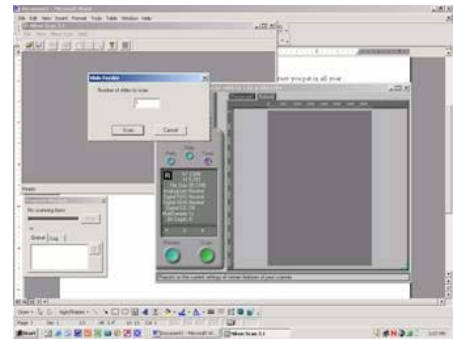
C. RESOLUTION:

- i. **72 dpi** - You are scanning slides for use only on a computer or digital projector and you are not planning on printing these images.
- ii. **300 dpi** - You plan on printing the images or they will appear in a larger format. Take into account that the filesize of these images will be larger.
- iii. **1200+ dpi** - High-end printing desired or archival quality. These files will be very large. These high resolutions are recommended for special applications only

6. Click the Nikon Scan drop down menu and choose "Slide Feeder." Then it is going to ask you how many slides you want to scan, type in the number of slides you are going to scan and click Scan.



7. When the "Batch Scan Settings" window appears, click OK.



8. Next, the "File Settings" window comes up. Select the naming convention the software will use when saving multiple slides. Then select the location of the saved slide images. Click OK and the scanner will begin batch scanning.



DIGITAL ICE

Nikon's "**Digital ICE**" (1) (for Image Correction Enhancement, licensed from aptly-named Applied Science Fiction) defect-removal solution is an amazing innovation. Under optimal circumstances, it can completely remove scratches, dust, and fingerprints from a slide or negative, while leaving the underlying image untouched!

Note: this technique doesn't work with Kodachrome or black & white film, as those emulsions are either entirely or largely opaque to infrared light

DIGITAL ROC & GEM

ROC (2) stands for "Recovery of Color," and it does an incredible job of extracting the original color information from badly faded color negative film.

GEM (3) stands for "Grain Equalization and Management," and is a technology to remove the effects of film grain, without affecting image sharpness.

