

- F. 256 Colors (Default) / 256 Colors (Custom): These are single-channel images (8 bits per pixel) that use a color lookup table containing up to 256 colors. The file size is smaller for images in this mode. As an initial setting, selecting 256 Colors (Default) uses an *Adaptive* palette with *Diffusion*. If the 256 Colors (Custom) option is selected, the dialog box below appears.



- **Palette:** The Palette option lets you choose the method for creating the color palette table. *Uniform* uses a 6-6-6 fixed color palette table. *Adaptive* (default) creates a color palette table from the more commonly used areas of the color spectrum that appears in the image.
- **Dither:** The Dither option can improve the color quality of the 256-indexed color image for photographs or continuous-tone images, using a technique of mixing available colors to simulate missing colors. *None* provides no dithering. *Pattern* uses a structured pattern to simulate missing colors. *Diffusion* (default) uses the error diffusion technique to dither colors and produces the best quality for 256 colors.