

Adobe® Customer Support

Photoshop CMYK JPEG Image Imports at Unexpected Size in Another Application

Issue

After importing a CMYK JPEG image saved in Adobe Photoshop into another application (e.g., QuarkXPress), the JPEG image displays at a different size than expected. The CMYK JPEG image was saved at greater or less than 72 pixels per inch (ppi).

Solution

Resave the CMYK JPEG image in Photoshop in another format (e.g., TIFF, EPS).

Additional Information

The CMYK JPEG file format specification supports including the total number of pixels in the image, but does not support including the number of pixels per inch (i.e., image resolution). When saving CMYK JPEG images, Photoshop includes the image resolution in a JPEG marker. When an application (e.g., QuarkXPress) imports a CMYK JPEG file and is unable to read the image resolution in the JPEG marker, the application imports the image with a default resolution of 72 ppi.

Because CMYK JPEG files include the total number of pixels in the image, the application resizes the image to distribute the pixels at 72 pixels per inch ($\text{ppi} / 72 \times \text{original image dimensions} = \text{imported image dimensions}$), which causes CMYK JPEG images with a resolution greater than 72 ppi to increase in size and those with a resolution less than 72 ppi to decrease in size.

Because RGB and Grayscale JPEG images include the image's resolution within the JPEG file format, they do not resize when imported into another application.

When placing a CMYK JPEG images in Adobe PageMaker 6.0 for the Macintosh, PageMaker 6.0 reads the resolution information in the JPEG marker and imports the image at the expected size.

