

Image settings in Preflight Editor

Resolution

Resolution of color or grayscale image is below

Determines whether any color or grayscale images in the PDF file have a lower resolution than the value that you specify. To change the resolution, type a value in the adjacent box. The default is 150 dpi.

Resolution of color or grayscale image is above

Determines whether any color or grayscale images in the PDF file have a higher resolution than the value that you specify. The default is 300 dpi.

To reduce the resolution, select the **Fix** check box, type a number in the adjacent box, and select one of the following settings:

- **Average downsampling** to average the pixels in a sample area and replace the entire area with average pixel color at the specified resolution.
- **Bicubic downsampling** to use a weighted average to determine pixel color. This usually yields better results than the simple averaging method of downsampling. Bicubic is the slowest but most precise method, resulting in the smoothest tonal gradations.

Resolution of B&W images is below

Determines whether any black-and-white images in the PDF file have a lower resolution than the value that you specify. To change the resolution, type a value in the adjacent box. The default is 1200 dpi.

Resolution of B&W images is above

Determines whether any black-and-white images in the PDF file have a higher resolution than the value that you specify. To change the resolution, type a value in the adjacent box. The default is 2400 dpi.

Kodak alternate <list> defined for images

Determines whether a Kodak alternate image is defined for images. An alternate image is used when creating low resolution PDFs from Publish to PDF File, or Vector output from Prinergy, or InSite Prepress Portal.

- To detect whether alternate images are present, select **Kodak alternate <is> defined for images**.
- To add alternate images if they aren't present, select **Kodak alternate <is not> defined for images** and then select the **Fix** check box.

Image has alternates defined

PDF Preflight detects whether the PDF file contains alternate images for printing. If you want to use an alternate image, select the **And one of the alternates is the default for printing** check box.

Files contain CEPS data

Determines whether the PDF file contains any CEPS (CT/LW) or TIFF/IT files. If you select the **Files contain CEPS data** check box, PDF Preflight marks the CT/LW data so that it is not trapped and overprint settings are not modified. Trapping CT/LW data may produce artifacts such as hairline gaps on the refined PDF. Changing overprint settings may create a result that was not intended, such as removing existing traps.

Select this check box for pages on which the content is mixed. For example, the content may have vector text and CEPS format images.

Image uses 16 bits per channel

PDF Preflight detects whether the PDF file contains any images that use 16 bits per sample.

Position

Image is rotated at an angle that is not a multiple of 90 degrees

Determines whether the PDF file contains an image that is rotated at an angle that is not a multiple of 90 degrees.

Image is skewed

Determines whether the PDF file contains an image that has a skew transformation applied. Ripping a skewed image from a PostScript format into a raster (or bitmap format) can be very time- and memory-intensive.

Image is flipped horizontally

Determines whether the PDF file contains an image that has been transformed into a mirror image.

Image is not scaled proportionally

Determines whether the PDF file contains an image in which the X scaling differs from the Y scaling.

To specify how much the X scaling can differ from the Y scaling, select the **Option** check box and type a number in the adjacent box. For example, if you select the **Option** check box and type 0.5%, PDF Preflight only detects images in which the X scaling differs from the Y scaling by more than 0.5%.

Compression

Color or grayscale images

Determines whether the PDF file contains images that are compressed using one or more of the on-screen options. From the **Options** menu, select one of the following options:

- **JPEG compressed.** JPEG compression removes image data and may reduce image quality. It can achieve much smaller file sizes than ZIP compression.
- **JPEG2000 compressed.** JPEG2000 compression may remove image data and may reduce image quality. It can achieve much smaller file sizes than ZIP compression.
Note: If an image is compressed with JPEG2000 compression and you modify it in Prinergy (for example, downsampling or color matching the image), Prinergy will not be able to encode it back to JPEG2000 compression. Therefore, it is recommended to select this check box, so that these images are detected, and then select the **Fix** check box and select **ZIP** (preferred) or **JPEG** as an alternative compression type.
- **ZIP compressed.** ZIP compression works well with large areas of single colors or repeating patterns, such as screenshots and simple images.
- **LZW compressed.** LZW compression is used in GIF and TIFF files. It is also suitable for compressing text files.
- **Run Length compressed.** Run Length compression does not remove data to reduce the file size, so it doesn't affect the quality of images. It produces the best results in images that contain large areas of solid white or black.
- **Not compressed**

To use another compression method for color or grayscale images, select the **Fix** check box and select **JPEG** or **ZIP**. If you select **JPEG**, select a level of quality from the adjacent list.

Black and white images are

Determines whether the PDF file contains black-and-white images that are compressed using one or more of the following methods of the on-screen options. From the **Options** menu, select one of the following options:

- **JBIG compressed.** JBIG compression of bilevel images uses only one bit to express the color value of each pixel. JBIG compression does not remove data to reduce the file size, so it doesn't affect the quality of images.
- **CCITT compressed.** CCITT compression is appropriate for black-and-white images created in paint programs and for images scanned with an image depth of 1 bit. It does not remove data to reduce the file size, so it doesn't affect the quality of images.
- **ZIP compressed**
- **LZW compressed**
- **RunLength compressed**
- **Not compressed**

To use another compression method for black-and-white images, select the **Fix** check box and select **CCITT**, **ZIP**, or **RunLength**. CCITT G4 is a general-purpose option that produces good compression for most types of monochrome images.

JPEG compression ratio

Detects JPEG images in the PDF file that may have deteriorated because of a high compression ratio. PDF Preflight looks for images with a higher compression ratio than the value that you specify. The default value is 4.