

Interpolation Guidelines for Digital Images

Corbis Standard for Digital Submission Requirements

The recommended digital file size is **50 MB, 8 bit RGB Tif** in Adobe RGB (1998)-Color Space (16.7 MB 8 bit gray scale Color Space "Dot gain 20%".) Maximum file size is 120 MB. Images should be fully processed.

If the original capture is not 50 MB then the file will need to be non-destructively interpolated to 50 MB. The best results for interpolation are obtained from professional cameras with a minimum capture size of 11 megapixels (approximately 33 megabytes).

Interpolation:

Using software to increase image files size can introduce damaging artifacts. Please refer to next page for proper interpolation guidelines.



This image is a 1.29 MB scan displayed at 100%



The same image interpolated up 700% to 38.9 MB, also displayed at 100%

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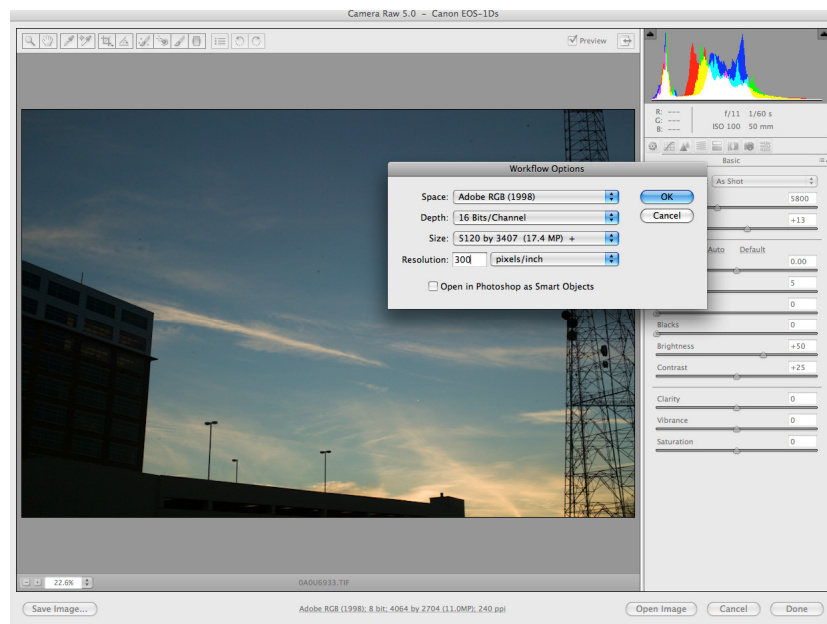
Recommended Interpolation Methods

There are two different interpolation methods that are recommended by Corbis¹. In addition, there are other third-party raw software and interpolation software that do a more than adequate job of interpolating files. If these options are not available, check with your camera manufacturer for alternative software solutions to enlarge your files. All interpolations must be done without damaging the image quality.

1. Adobe CS RAW interpolation
2. Adobe Photoshop Bicubic Interpolation

Adobe Photoshop RAW Interpolation: The RAW format lets the photographer interpret the image data rather than letting the camera make the adjustments and conversions. One of the simpler and better methods of interpolation is using Adobe Photoshop CS's Camera RAW.

1. Open the RAW file with Adobe Photoshop CS.
2. The native RAW file size is selected in the size menu.
3. Depending on which camera you are using, the pixel dimensions available will vary. Use the following pixel dimensions as a guideline:



5000x3400 - 50mb
4120x2802 - 33mb
2960x2015 - 17mb

¹ The screenshots and third party software applications referenced in this document are provided as an example only. Corbis does not endorse or support any such third party software applications or protocols.

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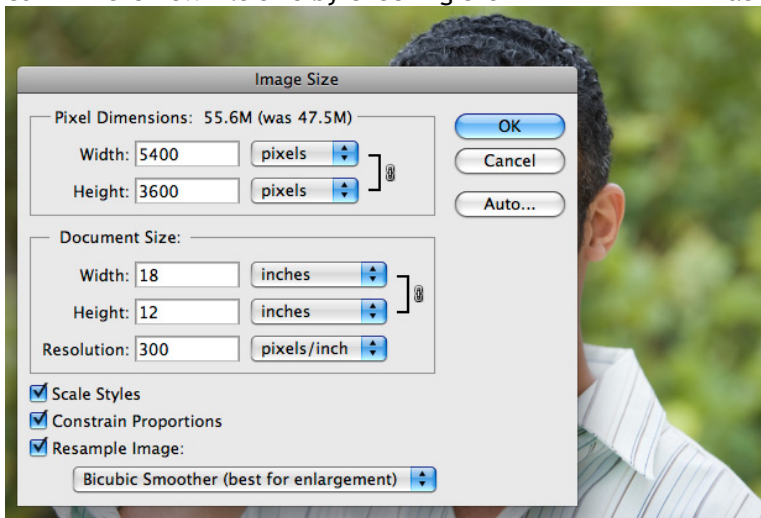
4. Make other adjustments as needed to the various image settings, and then click “OK” at the top of the window to process the RAW file.

This is our preferred method for interpolating images because interpolation occurs using the RAW data from the camera, which produces better results than interpolating from an image that is in TIF or Photoshop format.

*****interpolation must not be so severe as to damage the file*****

Adobe Photoshop Bicubic Interpolation: The second option is to use Photoshop’s **Image Size** tool to interpolate the photo to the required size.

1. Open a file with Adobe Photoshop.
2. Choose **Image Size...** from the **Image** header.
3. Ensure the **Constrain Proportions** and **Resample Image** dialogue boxes are checked; and choose **Bicubic Smoother** from the drop-down menu. The **Bicubic Smoother** algorithm is best used when making enlargements; **Bicubic Sharper** is best used when making reductions.
4. Set your **Resolution** to 300ppi (pixels per inch), and enter a **Width** or **Height** value. You can confirm the new file size by checking the **Pixel Dimensions** at the top of the dialogue box.



There are other methods of interpolation, such as stair stepping and interpolation software, however the results must not degrade the file.

All interpolations must be checked to ensure there are no artifacts or aliasing.